

tpSEF Inc.

101 Hudson Street Jersey City NJ 07302 USA

tel +1 201 557 5000 fax +1 201 557 5995

web www.tullettprebon.com

December 18, 2020

Submitted via CFTC Portal

Mr. Christopher J. Kirkpatrick Office of the Secretariat Commodity Futures Trading Commission Three Lafayette Centre 1155 21st Street, N.W. Washington, D.C. 20581

Re: tpSEF Inc. – Regulation 40.6(d) Weekly Notification of Rule Amendments (tpSEF)

Submission #20-16R)

Dear Mr. Kirkpatrick:

Pursuant to Section 5c(c) of the Commodity Exchange Act, as amended (the "<u>Act</u>"), and Section 40.6(d) of the regulations of the Commodity Futures Trading Commission (the "<u>Commission</u>" or "<u>CFTC</u>"), tpSEF Inc. ("<u>tpSEF</u>"), a registered swap execution facility, hereby notifies the Commission that it has made certain non-substantive revisions to Appendix B of the tpSEF Rulebook (tpSEF Inc. Swap Specifications) effective as of December 15, 2020. Specifically, tpSEF has made the following changes:

- (i) Added the terms and conditions for the product listed in <u>Exhibit I</u> hereto, which terms and conditions were separately filed with the Commission pursuant to CFTC Regulation 40.2(a); and
- (ii) Updated the Appendix B effective date and table of contents.

Attached as <u>Exhibit II</u> hereto is a clean copy of Appendix B, as amended, and attached as <u>Exhibit III</u> is a marked copy of Appendix B showing changes to the prior version.

Mr. Christopher J. Kirkpatrick December 18, 2020 Page 2



Please contact Brian D. Donnelly, Chief Compliance Officer, at (201) 984-6956 or by email at bddonnelly@tullettprebon.com with any questions regarding this matter.

Very truly yours,

tpSEF Inc.

By:_____

Name: Brian D. Donnelly

Title: Chief Compliance Officer

Date: December 18, 2020

Enclosures

cc: CFTC Division of Market Oversight (dmosubmissions@cftc.gov)
Nancy Markowitz, CFTC (nmarkowitz@cftc.gov)

EXHIBIT I

<u>List of Added Products</u>

- 1. Basis Swaps USD-Federal Funds-SOFR
- 2. Equity Index Swaps -- S&P/TSX Composite Banks GICS Level Industry Group Total Return Index

EXHIBIT II

tpSEF Rulebook – Appendix B (Clean)

tpSEF Inc. Rulebook Appendix B

tpSEF Inc. Swap Specifications

Effective December 15, 2020

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AECO XW6 Options

Summary:	This covers AECO XW6 Options ("AECO XW6 Options").	
Limitations on Available Selections and Default	The terms under which AECO XW6 Options covered	
Settings:	by this filing may be traded are shown below and in the	
	attached tables.	
Incorporated Standards:	This contract description incorporates by reference the	
1	following industry standard documentation and	
	standards:	
	2005 ISDA Commodity Derivatives Definitions	
	("Commodity Definitions")	
Product Type/ISDA OTC Taxonomy:		
ISDA OTC Asset Class:	Commodity	
ISDA OTC Base Product:	Energy	
ISDA OTC Transaction Type:	Swap	
ISDA OTC Settlement Type	Cash	
Terms:		
Trade Date:	As agreed by the parties.	
Commodity:	Natural gas	
Total Notional Quantity:	As agreed by the parties.	
Notional Quantity (Daily)	As agreed by the parties.	
Calculation Period(s):	As agreed by the parties.	
Option Style:	European, American, as agreed by the parties.	
Option Type:	Zuropoun, rimorroun, us agreed by the parties.	
Buyer:	As specified by the parties.	
Seller:	As specified by the parties.	
Commodity Reference Price:	Natural Gas - NGX AB-NIT Month Ahead Index 7A	
	(Canadian Dollar/Gigajoule)-Canadian Gas Price	
	Reporter Reporter	
Business Days:	As specified by the parties.	
Business Day Convention:	Following business day	
Pricing Date(s):	As specified by the parties.	
Strike Price:	As specified by the parties.	
Expiration Date:	As specified by the parties.	
Expiration Time:	As specified by the parties.	
Latest Exercise Time:	As specified by the parties.	
Automatic Exercise:	Applicable	
Tutomatic Exercise.	rippireuoie	
Cash Settlement:	Applicable	
Settlement Date:	As specified by the parties.	
Calculation Agent:	As specified by the parties.	
Settlement Amount:	As specified by the parties.	
Settlement Date:	As specified by the parties.	
Valuation Date:	As specified by the parties.	
Averaging Dates:	As specified by the parties.	
Premium:	As specified by the parties.	
Premium Payment Date:	As specified by the parties. As specified by the parties.	
Market Disruption Events:	Unless otherwise specified by the parties, per the	
Markot Distuption Dvoites.	Commodity Definitions.	
Consequences of Market Disruption Events:	Unless otherwise specified by the parties, per the	
Consequences of Market Distuption Events.	Commodity Definitions.	

Disruption Fallbacks:	Unless otherwise specified by the parties, per the	
	Commodity Definitions.	
Maximum Days of Disruption: Unless otherwise specified by the parties, p		
	Commodity Definitions.	

Agricultural Options

Summary:	This covers uncleared agricultural options ("Agricultural Options").
Limitations on Available Selections and Default Settings:	The terms under which Agricultural Options may be traded are shown below and in the attached tables.
Incorporated Standards:	This contract description incorporates by reference the following industry standard documentation and standards: 2005 ISDA Commodity Derivatives Definitions ("Commodity Definitions")
Product Type/ISDA OTC Taxonomy:	(
ISDA OTC Asset Class:	Commodity
ISDA OTC Base Product:	Agricultural
ISDA OTC Settlement type:	Cash
Further Limitations:	None
Terms:	
Trade Date:	As agreed by the parties.
Commodity:	As specified by the parties from among the Available Commodities.
Notional Quantity:	The sum of the Notional Quantities per Calculation Period.
Notional Quantity per Calculation Period:	For an Asian Option, as specified by the parties on a per- Calculation-Period Basis.
Calculation Period(s):	For an Asian Option, as specified by the parties.
Calculation Period Business Days:	None, unless specified by the parties.
Calculation Period Business Day Convention:	For an Asian Option, as specified by the parties from among the Available Business Day Conventions.
Option Style:	As specified by the parties from among the Available Option Styles.
Option Type:	As specified by the parties from among the Available Option Types.
Buyer:	As specified by the parties.
Seller:	As specified by the parties.
Commodity Reference Price:	As specified by the parties from among the Available Commodity Reference Prices.
Business Day:	As specified by the parties.
Pricing Date(s):	As specified by the parties.
Method of Averaging:	For Asian Options, as specified by the parties or otherwise per the Commodity Definitions.
Strike Price per Unit:	As specified by the parties.
Total Premium:	As specified by the parties.
Premium Payment Date(s):	As specified by the parties, subject to adjustment in accordance with the Business Day Convention.
Premium Payment Date Business Days:	Per the Available Currencies, plus such additional Business Days as the parties specify.
Premium Payment Date Business Day Convention:	As specified by the parties from among the Available Business Day Conventions or otherwise per the Commodity Definitions.

Procedure for Exercise:			
Exercise Period:	For an American Option, the period of days and the		
	times on such days specified by the parties.		
	For any other Option Style, the times on the Expiration		
	Date or Potential Exercise Date specified by the parties.		
Potential Exercise Dates:	For a Bermuda Option, the days specified by the parties.		
Expiration Date:	As specified by the parties.		
Expiration Time:	As specified by the parties.		
Automatic Exercise:	Applicable, unless otherwise specified by the parties.		
Written Confirmation:	As specified by the parties.		
Seller's Notice Information:	As specified by the Seller.		
Market Disruption:			
Market Disruption Events:	Unless otherwise specified by the parties, per the		
-	Commodity Definitions.		
Additional Market Disruption Events:	As specified by the parties.		
Consequences of Market Disruption Events:	Unless otherwise specified by the parties, per the		
	Commodity Definitions.		
Disruption Fallbacks:	Unless otherwise specified by the parties, per the		
	Commodity Definitions.		
Fallback Reference Price:	None, unless specified by the parties.		
Maximum Days of Disruption:	Unless otherwise specified by the parties, per the		
	Commodity Definitions.		
Cash Settlement Terms:			
Cash Settlement:	Applicable		
Settlement Dates:	As specified by the parties, subject to adjustment in		
	accordance with the Business Day Convention.		
Calculation Agent:	As agreed by the parties.		

Agricultural Option Available Currencies and Required Business Days

Three Letter Currency Code (ISDA/ISO)	Currency Name (ISDA)	Basic Business Day Locations For Currency (FpML Codes)
USD	United States Dollars	USNY
EUR	Euro	EUTA
GBP	Sterling	GBLO

Agricultural Options Available Business Day Conventions

ISDA Name
Following
Modified/Modified Following
Nearest
Preceding

Agricultural Option Available Option Style

	ISDA Name	
American		
European		
Bermuda		
Asian		

Agricultural Options Available Commodity Reference Prices

ISDA Definitions

The following Commodity Reference Prices are as defined in Sub-Annex A to the Commodity Definitions.

ISDA Definition
COCOA-GBP-EURONEXT
COCOA-NYBOT ¹
COFFEE ARABICA-NYBOT ¹
COFFEE ROBUSTA-EURONEXT
CORN-CBOT
COTTON NO. 2-NYBOT ¹
FROZEN CONCENTRATED ORANGE JUICE NO. 1-NYBOT ¹
LEAN HOGS-CME
MILK-CLASS III-CME
MILK-CLASS IV-CME
SOYBEAN-CBOT
SOYBEAN MEAL-CBOT
SOYBEAN OIL-CBOT
SUGAR #11 (WORLD)-NYBOT ¹
WHEAT-CBOT
WHEAT HRM-KCBOT
WHITE SUGAR-EURONEXT

Exchange Definitions

The following Commodity Reference Prices are as defined in the Commodity Price Reference Framework in Sub-Annex A to the Commodity Definitions.

ISDA Definition					
Commodity Reference	Relevant Commodity	Relevant Unit	Exchange	Currency	Specified Price
Price	-		G) (T) (1)	TTGD 0.01	0 1 7
BUTTER-CME	Butter	Pound	CME Globex	USD 0.01	Settlement Price
CHEESE-CME	Cheese	Pound	CME Globex	USD 0.01	Settlement Price
CRUDE PALM	Crude Palm Oil	Metric Ton	CME Globex	USD 0.01	Settlement Price
OIL-CME					
DRY WHEY-	Dry Whey	Pound	CME Globex	USD 0.01	Settlement Price
CME	,				
HARD RED	Wheat	Bushel	Minneapolis	USD 0.01	Settlement Price
SPRING			Grain Exchange		
WHEAT-					
MGEX					
MILLING	Wheat	Tonne	EURONEXT	EUR 0.01	Settlement Price
WHEAT-			LIFFE		
EURONEXT					
NONFAT DRY	Non-Fat Dry	Pound	CME Globex	USD 0.01	Settlement Price
MILK-CME	Milk				
RAPESEED-	Rapeseed	Tonne	EURONEXT	EUR 0.01	Settlement Price
EURONEXT			LIFFE		

¹The New York Board of Trade (NYBOT) was renamed ICE Futures US in 2007.

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Basis Swaps

Summary:	This covers basis swaps ("Basis Swaps").		
Limitations on Available Selections and Default	The terms under which a Basis Swap may be traded are		
Settings:	as specified in these terms and conditions and in the attached tables.		
	For amounts or rates, the relevant term cannot be less than the specified Minimum, must represent an even Increment and cannot exceed the Maximum; for a date, the date cannot be earlier than Earliest nor later than Latest.		
	For Business Days, the defaults shall be the locations specified for the relevant currency, any additional locations specified for the relevant Floating Rate Options.		
	The parties may add additional locations from the Available Locations and may eliminate some or all of the other locations, so long as there is at least one location in which payment may be made. For these purposes "TARGET" is considered a location.		
	In many cases there are normal "vanilla" terms on which the parties will transact. These are shown as "Default" and will apply unless the parties vary them.		
	It should be noted that these contracts can be traded in a variety of currencies. Since each national market has its own peculiarities, the "Available Terms" and/or "Default Terms" may vary by currency.		
	In some cases, the same contract might have different terms depending on the market in which it is traded (<i>e.g.</i> , London versus NY). In that case the default settings may vary by market.		
Incorporated Standards:	This contract description incorporates by reference the following industry standard documentation and standards: (a) 2006 ISDA Definitions (b) ISDA Settlement Matrix (if Optional Early Termination applies) (c) ISDA OTC Taxonomies (d) FpML Location Codes		
	For convenience, certain terms are mapped to their FpML 5.5 equivalent.		
Product Type/ISDA OTC Taxonomy:			
ISDA OTC Asset Class:	Interest Rate		
ISDA OTC Base Product:	IR Swap		
ISDA OTC Sub-Product:	Basis		
Further Limitations:	None		

Terms:	
Notional Amount ("notional"):	An amount in one of the Available Currencies (see
	below) agreed by the parties.
Effective Date ("effectiveDate"):	The date specified by the parties, adjusted in accordance
	with any applicable Business Day Convention.
	The parties may express the unadjusted Effective Date as
	a number of Business Days or Banking Days from the
	Trade Date ("relativeEffectiveDate").
Effective Date Business Days:	As specified by the parties from among the Available
•	Business Days.
Effective Date Business Day Convention:	As specified by the parties from among the Available
·	Business Day Conventions.
Termination Date ("terminationDate"):	The date specified by the parties, adjusted in accordance
,	with any applicable Business Day Convention.
	The parties may express the unadjusted Termination
	Date as a number of days, months or years from the
	Effective Date ("relativeTerminationDate").
Termination Date Business Day Convention:	As specified by the parties from among the Available
•	Business Day Conventions.
Floating Amount 1 ("FA1"):	
FA1 Payer ("payerPartyReference"):	As specified by the parties.
FA1 Currency Amount ("notional Amount"):	As specified by the parties.
FA1 Period End Dates ("unadjustedCalculation Period	As specified by the parties.
Date"):	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
FA1 first Period End Date:	As specified by the parties if there is a short initial
	Calculation Period.
FA1 Payment Dates ("unadjustedPaymentDate"):	As specified by the parties.
FA1 initial Floating Rate:	As specified by the parties.
FA1 Floating Rate Option ("floatingRateIndex"):	As specified by the parties.
FA1 Designated Maturity ('indexTenor''):	As specified by the parties.
FA1 Linear Interpolation:	For the Calculation Periods specified by the parties.
FA1 Shorter Designated Maturity for Linear	For a Calculation Period to which Linear Interpolation
Interpolation:	applies, as specified by the parties.
FA1 Longer Designated Maturity for Linear	For a Calculation Period to which Linear Interpolation
Interpolation:	applies, as specified by the parties.
FA1 Spread:	As specified by the parties.
FA1 Day Count Fraction:	As specified by the parties.
FA1 Reset Dates ("resetDate"):	As specified by the parties. As specified by the parties.
FA1 Method of Averaging:	As specified by the parties. As specified by the parties.
FA1 Compounding:	As specified by the parties. As specified by the parties.
FA1 Compounding Dates:	In the event Compounding is selected, as selected by the
rai Compounding Dates.	
EA1 Compounding Mathed (Compounding OD Elect	parties. In the event Compounding is selected, as selected by the
FA1 Compounding Method (Compounding OR Flat	In the event Compounding is selected, as selected by the
Compounding):	parties.
FA1 Period End Dates Business Days:	As specified by the parties from among the Available
EA1 Davied End Dates Dusinger Des Comments	Business Days.
FA1 Period End Dates Business Day Convention:	As specified by the parties from among the Available
EA1 December Dates Decimal Dec	Business Day Conventions.
FA1 Payment Dates Business Days:	As specified by the parties from among the Available
PATE TO DESCRIPTION OF THE PATE TO THE T	Business Days, subject to any Required Business Days
FA1 Payment Dates Business Day Convention:	As specified by the parties from among the Available
EHID ID D	Business Day Conventions.
FA1 Reset Dates Business Days:	As specified by the parties from among the Available
	Business Days, subject to any Required Business Days.

FA1 Reset Dates Business Day Convention:	As specified by the parties from among the Available		
The state of the s	Business Day Conventions.		
Floating Amount 2 ("FA2"):	4 (6, 11 4		
FA2 Payer ("payerPartyReference"):	As specified by the parties.		
FA2 Currency Amount ("notional Amount"):	As specified by the parties.		
FA2 Period End Dates ("unadjustedCalculation Period Date"):	As specified by the parties.		
FA2 first Period End Date:	As specified by the parties if there is a short initial		
	Calculation Period.		
FA2 Payment Dates ("unadjustedPaymentDate"):	As specified by the parties.		
FA2 initial Floating Rate:	As specified by the parties.		
FA2 Floating Rate Option ("floatingRateIndex"):	As specified by the parties.		
FA2 Designated Maturity ("indexTenor"):	As specified by the parties.		
FA2 Linear Interpolation:	For the Calculation Periods specified by the parties.		
FA2 Shorter Designated Maturity for Linear	For a Calculation Period to which Linear Interpolation		
Interpolation:	applies, as specified by the parties.		
FA2 Longer Designated Maturity for Linear	For a Calculation Period to which Linear Interpolation		
Interpolation:	applies, as specified by the parties.		
FA2 Spread:	As specified by the parties.		
FA2 Day Count Fraction:	As specified by the parties.		
FA2 Reset Dates ("resetDate"):	As specified by the parties.		
FA2 Method of Averaging:	As specified by the parties.		
FA2 Compounding:	As specified by the parties.		
FA2 Compounding Dates:	In the event Compounding is selected, as selected by the		
1112 compounding 2 aresi	parties.		
FA2 Compounding Method (Compounding OR Flat	In the event Compounding is selected, as selected by the		
Compounding):	parties.		
FA2 Period End Dates Business Days:	As specified by the parties from among the Available Business Days.		
FA2 Period End Dates Business Day Convention:	As specified by the parties from among the Available		
	Business Day Conventions.		
FA2 Payment Dates Business Days:	As specified by the parties from among the Available		
	Business Days, subject to any Required Business Days.		
FA2 Payment Dates Business Day Convention:	As specified by the parties from among the Available		
	Business Day Conventions.		
FA2 Reset Dates Business Days:	As specified by the parties from among the Available		
	Business Days, subject to any Required Business Days.		
FA2 Reset Dates Business Day Convention:	As specified by the parties from among the Available Business Day Conventions.		
Mark-to-Market Currency Swap:	·		
Mark-to-Market Currency Swap:	As specified by the parties, if the Currency Amounts are in different Currencies.		
Variable Currency Payer:	As specified by the parties if the transaction is a Mark-		
variable Currency Fayer.	to-Market Currency Swap.		
Constant Currency Payer:	As specified by the parties if the transaction is a Mark-to-Market Currency Swap.		
Currency Exchange Rate:	As specified by the parties if the transaction is a Mark- to-Market Currency Swap and ISDA MTM Matrix is not		
	applicable.		
ISDA MTM Matrix:	As specified by the parties if the transaction is a Mark-		
	to-Market Currency Swap.		
Initial Exchange:			
Initial Exchange Date:	As specified by the parties.		
FA1 Payer Initial Exchange Amount:	As specified by the parties.		

	,		
FA2 Payer Initial Exchange Amount:	As specified by the parties.		
Interim Exchanges:			
Interim Exchange Dates:	As specified by the parties.		
FA1 Payer Interim Exchange Amount:	As specified by the parties.		
FA2 Payer Interim Exchange Amount:	As specified by the parties.		
Final Exchanges:			
Final Exchange Date:	As specified by the parties.		
FA1 Payer Final Exchange Amount:	As specified by the parties.		
FA2 Payer Final Exchange Amount:	As specified by the parties.		
Optional Early Termination:			
Optional Early Termination:	As specified by the parties.		
Option Style:	As specified by the parties.		
Optional Early Termination Date:	As specified by the parties.		
Seller:	As specified by the parties if only one party can		
	terminate.		
Buyer:	As specified by the parties, if only one party can		
Buyot.	terminate.		
Seller's Agent:	As specified by the parties, if only one party can		
Schol's Agent.	terminate.		
Business Days for Payments:	As specified by the parties from among the Available		
Business Days for Layments.	Business Days, subject to any Required Business Days.		
Exercise Business Days:	As specified by the parties.		
Optional Early Termination Procedure for Exercise:	As specified by the parties.		
Commencement Date:	A		
Commencement Date:	As specified by the parties, if the Option Style is		
D 100 F 1 D	American.		
Bermuda Option Exercise Dates:	As specified by the parties, if the Option Style is		
E alastica Deter	Bermuda.		
Expiration Date:	As specified by the parties.		
Expiration Time:	As specified by the parties.		
Earliest Exercise Time:	As specified by the parties.		
Latest Exercise Time:	As specified by the parties.		
Exercise Business Day:	As specified by the parties.		
Partial Exercise:	As specified by the parties, if Option Style is European.		
Multiple Exercise:	As specified by the parties, if Option Style is American		
	or Bermuda.		
Minimum Notional Amount:	As specified by the parties if Partial Exercise or Multiple		
	Exercise is specified.		
Maximum Notional Amount:	As specified by the parties if Multiple Exercise is		
	specified.		
Integral Multiple:	As specified by the parties if Partial Exercise or Multiple		
	Exercise is specified.		
Optional Early Termination Settlement Terms:			
Cash Settlement:	As specified by the parties.		
ISDA Settlement Matrix:	As specified by the parties, if Cash Settlement is		
	applicable to a single currency Transaction.		
ISDA Cross Currency Settlement Matrix:	As specified by the parties, if Cash Settlement is		
•	applicable to a cross currency Transaction whose		
	currencies are listed as a "currency pair" in the Cross		
	Currency Settlement Matrix.		
Cash Settlement Valuation Time:	If Cash Settlement is applicable, as specified by the		
*****	parties, directly or via the ISDA Settlement Matrix.		
Cash Settlement Valuation Date:	If Cash Settlement is applicable, as specified by the		
	parties, directly or via the ISDA Settlement Matrix.		

Valuation Business Days:	If Cash Settlement is applicable, as specified by the		
	parties, directly or via the ISDA Settlement Matrix.		
Cash Settlement Payment Date:	If Cash Settlement is applicable, as specified by the		
	parties, directly or via the ISDA Settlement Matrix.		
Cash Settlement Payment Date Business Days	If Cash Settlement is applicable, as specified by the		
Convention:	parties, directly or via the ISDA Settlement Matrix.		
Cash Settlement Method:	If Cash Settlement is applicable, as specified by the		
	parties from Available Cash Settlement Methods,		
	directly or via the ISDA Settlement Matrix.		
Cash Settlement Currency:	If Cash Settlement is applicable, and "Cash Price" or		
	"Cash Price—Alternate" apply, as specified by the		
	parties from Available Cash Settlement Methods,		
	directly or via the ISDA Settlement Matrix.		
Settlement Rate:	If Cash Settlement is applicable, and "Par Yield Curve—		
	Adjusted," "Par Yield Curve—Unadjusted" or "Zero		
	Coupon Curve—Adjusted" apply, as specified by the		
	parties from Available Cash Settlement Methods,		
	directly or via the ISDA Settlement Matrix parties from		
	Available Cash Settlement Methods, directly or via the		
	ISDA Settlement Matrix.		
Cash Settlement Reference Banks:	As specified by the parties, if Settlement Rate is		
	applicable.		
Cash Settlement Reference Banks:	If Cash Settlement is applicable, as specified by the		
	parties.		
Quotation Rate:	If Cash Settlement is applicable, as specified by the		
	parties from among the Available Quotation Rates.		
Calculation Agent:	As agreed by the parties.		

Basis Available Currencies and Required Business Days

Three Letter Currency Code	Currency Name (ISDA)	Basic Business Day Locations
(ISDA/ISO)		For Currency (FpML Codes)
AUD	Australian Dollar	AUSY
CAD	Canadian Dollar	CATO
CHF	Swiss Franc	CHZU
CLP	Chilean Peso	CLSA
CZK	Czech Koruna	CZPR
DKK	Danish Krone	DKCO
EUR	Euro	EUTA
GBP	Sterling	GBLO
HKD	Hong Kong Dollar	НКНК
HUF	Hungarian Forint	HUBU
JPY	Japanese Yen	JPTO
MXN	New Mexican Peso	MXMC
NOK	Norwegian Krone	NOOS
NZD	New Zealand Dollar	NZAU and NZWE
PLN	Polish Zloty	PLWA
SEK	Swedish Krona	SEST
SGD	Singapore Dollar	SGSI
TRY	Turkish Lira	TRIS
USD	United States Dollars	USNY
ZAR	South African Rand	ZAJO

Basis Available Business Day Conventions

	ISDA Name
Following	
Modified/Modified Following	
No Adjustment	
Preceding	
FRN Convention/Eurodollar Convention	

Basis Available Day Count Fractions

ISDA Name	
1/1	
30/360, 360/360, Bond Basis	
Actual/360	
Actual/365 (Fixed), Act/365 (Fixed), A/365 (Fixed), A/365F	
Actual/Actual, Actual/Actual (ISDA), Act/Act, Act/Act (ISDA)	
Actual/Actual (ICMA), Act/Act, Act/Act (ICMA)	

Basis Default Effective Dates

Currency	Default Effective Date	
All Currencies Other than CAD, GBP, MXN, ZAR	Plus Two Banking Days	
MXN	Plus One Banking Day	
CAD, GBP, ZAR	Plus Zero	

Basis Earliest and Latest Effective and Termination Dates

Currency	Earliest Effective	Latest Effective	Earliest Termination	Latest Termination
	Date	Date	Date	Date
N/A	N/A	N/A	N/A	N/A

Basis Notional Amounts

Currency	Minimum	Increment	Maximum	Default
AUD	5,000,000	100,000	N/A	N/A
CAD	25,000,000	1,000,000	N/A	N/A
CHF	5,000,000	100,000	N/A	N/A
CLP	5,000,000	100,000	N/A	N/A
CZK	5,000,000	100,000	N/A	N/A
DKK	5,000,000	100,000	N/A	N/A
EUR	5,000,000	100,000	N/A	N/A
GBP	5,000,000	100,000	N/A	N/A
HKD	5,000,000	100,000	N/A	N/A
HUF	5,000,000	100,000	N/A	N/A
JPY	5,000,000	100,000	N/A	N/A
MXN	10,000,000	1,000,000	N/A	N/A
NOK	5,000,000	100,000	N/A	N/A
NZD	5,000,000	100,000	N/A	N/A
PLN	5,000,000	100,000	N/A	N/A
SEK	5,000,000	100,000	N/A	N/A
SGD	5,000,000	100,000	N/A	N/A
TRY	5,000,000	100,000	N/A	N/A
USD	5,000,000	100,000	N/A	N/A

ZAR	5,000,000	100.000	N/A	N/A
22 113	5,000,000	100,000	1 1/ 1 1	11/11

Basis Floating Rate Options and Defaults

Floating Rate Option	Available Tenors	Default Tenor	Default Day Count Fraction	Additional Business Day Locations
AUD-AONIA-OIS- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
AUD-AONIA-OIS- COMPOUND- SwapMarker	All quoted tenors	N/A	Per ISDA 2006	N
AUD-BBR- AUBBSW	All quoted tenors	N/A	Per ISDA 2006	N
AUD-BBR-BBSW	All quoted tenors	N/A	Per ISDA 2006	N
AUD-BBR-BBSW- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
AUD-BBR-BBSY (BID)	All quoted tenors	N/A	Per ISDA 2006	N
AUD-BBR-ISDC	All quoted tenors	N/A	Per ISDA 2006	N
AUD-LIBOR-BBA	All quoted tenors	N/A	Per ISDA 2006	N
AUD-LIBOR-BBA- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
AUD-LIBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
AUD-Quarterly Swap Rate-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
AUD-Quarterly Swap Rate-ICAP-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
AUD-Semi-annual Swap Rate-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
AUD-Semi-Annual Swap Rate-ICAP- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
AUD-Swap Rate- Reuters	All quoted tenors	N/A	Per ISDA 2006	N
CAD-BA-CDOR	All quoted tenors	N/A	Per ISDA 2006	N
CAD-BA-CDOR- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
CAD-BA-ISDD	All quoted tenors	N/A	Per ISDA 2006	N
CAD-BA-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
CAD-BA-Reuters	All quoted tenors	N/A	Per ISDA 2006	N
CAD-BA-Telerate	All quoted tenors	N/A	Per ISDA 2006	N
CAD-CORRA-OIS- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
CAD-ISDA-Swap Rate	All quoted tenors	N/A	Per ISDA 2006	N

Floating Rate Option	Available Tenors	Default Tenor	Default Day Count Fraction	Additional Business Day Locations
CAD-LIBOR-BBA	All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
CAD-LIBOR-BBA- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
CAD-LIBOR-BBA- SwapMarker	All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
CAD-LIBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
CAD-REPO-CORRA	All quoted tenors	N/A	Per ISDA 2006	N
CAD-TBILL-ISDD	All quoted tenors	N/A	Per ISDA 2006	N
CAD-TBILL- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
CAD-TBILL-Reuters	All quoted tenors	N/A	Per ISDA 2006	N
CAD-TBILL-Telerate	All quoted tenors	N/A	Per ISDA 2006	N
CHF USD-Basis Swaps-11:00-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
CHF-Annual Swap Rate	All quoted tenors	N/A	Per ISDA 2006	N
CHF-Annual Swap Rate-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
CHF-ISDAFIX-Swap Rate	All quoted tenors	N/A	Per ISDA 2006	N
CHF-LIBOR-BBA	All quoted tenors	N/A	Per ISDA 2006	N
CHF-LIBOR-BBA- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
CHF-LIBOR-ISDA	All quoted tenors	N/A	Per ISDA 2006	N
CHF-LIBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
CHF-OIS-11:00- ICAP	All quoted tenors	N/A	Per ISDA 2006	N
CHF-TOIS-OIS- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
CLP-CLICP- Bloomberg	All quoted tenors	N/A	A/360	N
CLP-Unidad de Fomento (UF/CLF)	All quoted tenors	N/A	A/360	N
CZK-PRIBOR-PRBO	All quoted tenors	N/A	A/360	N
DKK-CIBOR- DKNA13	All quoted tenors	N/A	Per ISDA 2006	N
DKK-CIBOR- DKNA13-Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
DKK-CIBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
DKK-CIBOR2-	All quoted tenors	N/A	Per ISDA 2006	N

Floating Rate Option	Available Tenors	Default Tenor	Default Day Count Fraction	Additional Business Day Locations
DKNA13				
DKK-CITA- DKNA14- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
DKK-DKKOIS-OIS- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
EUR USD-Basis Swaps-11:00-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-10:00	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-10:00- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-10:00-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-10:00- SwapMarker	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-11:00	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-11:00- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-11:00-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-11:00- SwapMarker	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-3 Month	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-3 Month- SwapMarker	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EONIA- AVERAGE	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EONIA-OIS- 10:00-BGCANTOR	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EONIA-OIS- 10:00-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EONIA-OIS- 11:00-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EONIA-OIS- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N

Floating Rate Option	Available Tenors	Default Tenor	Default Day Count Fraction	Additional Business Day Locations
EUR-EONIA-OIS- COMPOUND- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EONIA-Swap- Index	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EURIBOR- Act/365	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EURIBOR- Act/365-Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EURIBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EURIBOR- Reuters	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EURIBOR- Telerate	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EURONIA- OIS-COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
EUR-ISDA- EURIBOR Swap Rate-11:00	All quoted tenors	N/A	Per ISDA 2006	N
EUR-ISDA- EURIBOR Swap Rate-12:00	All quoted tenors	N/A	Per ISDA 2006	N
EUR-ISDA-LIBOR Swap Rate-10:00	All quoted tenors	N/A	Per ISDA 2006	N
EUR-ISDA-LIBOR Swap Rate-11:00	All quoted tenors	N/A	Per ISDA 2006	N
EUR-LIBOR-BBA	All quoted tenors	N/A	Per ISDA 2006	N
EUR-LIBOR-BBA- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
EUR-LIBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
EUR-TAM-CDC	All quoted tenors	N/A	Per ISDA 2006	N
EUR-TEC10-CNO	All quoted tenors	N/A	Per ISDA 2006	N
EUR-TEC10-CNO- SwapMarker	All quoted tenors	N/A	Per ISDA 2006	N
EUR-TEC10- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
EUR-TEC5-CNO	All quoted tenors	N/A	Per ISDA 2006	N
EUR-TEC5-CNO- SwapMarker	All quoted tenors	N/A	Per ISDA 2006	N
EUR-TEC5- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
EUR-TMM-CDC- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
GBP USD-Basis	All quoted tenors	N/A	Per ISDA 2006	N

Floating Rate Option	Available Tenors	Default Tenor	Default Day Count Fraction	Additional Business Day Locations
Swaps-11:00-ICAP				
GBP-ISDA-Swap Rate	All quoted tenors	N/A	Per ISDA 2006	N
GBP-LIBOR-BBA	All quoted tenors	N/A	Per ISDA 2006	N
GBP-LIBOR-BBA- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
GBP-LIBOR-ISDA	All quoted tenors	N/A	Per ISDA 2006	N
GBP-LIBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
GBP-Semi-Annual Swap Rate	All quoted tenors	N/A	Per ISDA 2006	N
GBP-Semi-Annual Swap Rate-11:00- ICAP	All quoted tenors	N/A	Per ISDA 2006	N
GBP-Semi-Annual Swap Rate-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
GBP-SONIA-OIS- 11:00-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
GBP-WMBA- RONIA- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
GBP-WMBA- SONIA- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
HKD-HIBOR- HIBOR-Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
HKD-HIBOR- HIBOR	All quoted tenors	N/A	Per ISDA 2006	N
HKD-HIBOR-HKAB	All quoted tenors	N/A	Per ISDA 2006	N
HKD-HIBOR- HKAB-Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
HKD-HIBOR-ISDC	All quoted tenors	N/A	Per ISDA 2006	N
HKD-HIBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
HKD-HONIX-OIS- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
HKD-ISDA-Swap Rate-11:00	All quoted tenors	N/A	Per ISDA 2006	N
HKD-ISDA-Swap Rate-4:00	All quoted tenors	N/A	Per ISDA 2006	N
HKD-Quarterly- Annual Swap Rate- 11:00-BGCANTOR	All quoted tenors	N/A	Per ISDA 2006	N
HKD-Quarterly- Annual Swap Rate-	All quoted tenors	N/A	Per ISDA 2006	N

Floating Rate Option	Available Tenors	Default Tenor	Default Day Count Fraction	Additional Business Day Locations
4:00-BGCANTOR				
HKD-Quarterly- Annual Swap Rate- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
HUF-BUBOR- Reuters	All quoted tenors	N/A	Per ISDA 2006	N
JPY USD-Basis Swaps-11:00-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
JPY-BBSF- Bloomberg-10:00	All quoted tenors	N/A	Per ISDA 2006	N
JPY-BBSF- Bloomberg-15:00	All quoted tenors	N/A	Per ISDA 2006	N
JPY-ISDA-Swap Rate-10:00	All quoted tenors	N/A	Per ISDA 2006	N
JPY-ISDA-Swap Rate-15:00	All quoted tenors	N/A	Per ISDA 2006	N
JPY-LIBOR-BBA	All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
JPY-LIBOR-BBA- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
JPY-LIBOR- FRASETT	All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
JPY-LIBOR-ISDA	All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
JPY-LIBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
JPY-MUTANCALL- TONAR	All quoted tenors	N/A	Per ISDA 2006	N
JPY-OIS-11:00-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
JPY-TIBOR-17096	All quoted tenors	N/A	Per ISDA 2006	N
JPY-TIBOR-17097	All quoted tenors	N/A	Per ISDA 2006	N
JPY-TIBOR-TIBM (10 Banks)	All quoted tenors	N/A	Per ISDA 2006	N
JPY-TIBOR-TIBM (5 Banks)	All quoted tenors	N/A	Per ISDA 2006	N
JPY-TIBOR-TIBM (All Banks)	All quoted tenors	N/A	Per ISDA 2006	N
JPY-TIBOR-TIBM (All Banks)- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
JPY-TIBOR-TIBM- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
JPY-TIBOR- ZTIBOR	All quoted tenors	N/A	Per ISDA 2006	N
JPY-TONA-OIS- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N

Floating Rate Option	Available Tenors	Default Tenor	Default Day Count Fraction	Additional Business Day Locations
JPY-TSR-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
JPY-TSR-Reuters- 10:00	All quoted tenors	N/A	Per ISDA 2006	N
JPY-TSR-Reuters- 15:00	All quoted tenors	N/A	Per ISDA 2006	N
JPY-TSR-Telerate- 10:00	All quoted tenors	N/A	Per ISDA 2006	N
JPY-TSR-Telerate- 15:00	All quoted tenors	N/A	Per ISDA 2006	N
MXN-TIIE-Banxico	All quoted tenors	N/A	Per ISDA 2006	N
MXN-TIIE-Banxico- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
MXN-TIIE- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
MXN-Unidades de Inversión (UDI)	N/A	N/A	See below	N
NOK-NIBOR-NIBR	All quoted tenors	N/A	Per ISDA 2006	N
NOK-NIBOR-NIBR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
NOK-NIBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
NZD-BBR-BID	All quoted tenors	N/A	Per ISDA 2006	N
NZD-BBR-FRA	All quoted tenors	N/A	Per ISDA 2006	N
NZD-BBR-ISDC	All quoted tenors	N/A	Per ISDA 2006	N
NZD-BBR-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
NZD-BBR-Telerate	All quoted tenors	N/A	Per ISDA 2006	N
NZD-NZIONA-OIS- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
NZD-Swap Rate- ICAP	All quoted tenors	N/A	Per ISDA 2006	N
NZD-Swap Rate- ICAP-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
PLN-WIBOR_WIBO	All quoted tenors	N/A	Per ISDA 2006	N
SEK-Annual Swap Rate-SESWFI	All quoted tenors	N/A	Per ISDA 2006	N
SEK-SIOR-OIS- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
SEK-STIBOR- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
SEK-STIBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
SEK-STIBOR-SIDE	All quoted tenors	N/A	Per ISDA 2006	N

Floating Rate Option	Available Tenors	Default Tenor	Default Day Count Fraction	Additional Business Day Locations
SGD-Semi-Annual Swap Rate-11:00- BGCANTOR	All quoted tenors	N/A	Per ISDA 2006	N
SGD-Semi-Annual Swap Rate-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
SGD-Semi-Annual Swap Rate-ICAP- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
SGD-Semi-Annual Swap Rate-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
SGD-SIBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
SGD-SIBOR-Reuters	All quoted tenors	N/A	Per ISDA 2006	N
SGD-SIBOR-Telerate	All quoted tenors	N/A	Per ISDA 2006	N
SGD-SONAR-OIS- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
SGD-SONAR-OIS- VWAP- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
SGD-SOR-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
SGD-SOR-Reuters	All quoted tenors	N/A	Per ISDA 2006	N
SGD-SOR-Telerate	All quoted tenors	N/A	Per ISDA 2006	N
SGD-SOR-VWAP	All quoted tenors	N/A	Per ISDA 2006	N
SGD-SOR-VWAP- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
TRY-TRYIBOR- Reuters	All quoted tenors	N/A	Per ISDA 2006	N
USD-Annual Swap Rate-11:00- BGCANTOR	All quoted tenors	N/A	Per ISDA 2006	N
USD-BA-H.15	All quoted tenors	N/A	Per ISDA 2006	N
USD-BA-Reference Dealers	All quoted tenors	N/A	Per ISDA 2006	N
USD-BMA Municipal Swap Index	All quoted tenors	N/A	Per ISDA 2006	N
USD-CD-H.15	All quoted tenors	N/A	Per ISDA 2006	N
USD-CD-Reference Dealers	All quoted tenors	N/A	Per ISDA 2006	N
USD-CMS-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
USD-CMS-Reference Banks-ICAP SwapPX	All quoted tenors	N/A	Per ISDA 2006	N
USD-CMS-Reuters	All quoted tenors	N/A	Per ISDA 2006	N
	-			

Floating Rate Option	Available Tenors	Default Tenor	Default Day Count Fraction	Additional Business Day Locations
USD-CMS-Telerate	All quoted tenors	N/A	Per ISDA 2006	N
USD-CMT-T7051	All quoted tenors	N/A	Per ISDA 2006	N
USD-CMT-T7052	All quoted tenors	N/A	Per ISDA 2006	N
USD-COF11- FHLBSF	All quoted tenors	N/A	Per ISDA 2006	N
USD-COF11-Reuters	All quoted tenors	N/A	Per ISDA 2006	N
USD-COF11-Telerate	All quoted tenors	N/A	Per ISDA 2006	N
USD-CP-H.15	All quoted tenors	N/A	Per ISDA 2006	N
USD-CP-Reference Dealers	All quoted tenors	N/A	Per ISDA 2006	N
USD-Federal Funds- H.15	All quoted tenors	N/A	Per ISDA 2006	N
USD-Federal Funds- H.15-Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
USD-Federal Funds- H.15-OIS- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
USD-Federal Funds- Reference Dealers	All quoted tenors	N/A	Per ISDA 2006	N
USD-Federal Funds- SOFR	All quoted tenors	N/A	Per ISDA 2006	N
USD-FFCB-DISCO	All quoted tenors	N/A	Per ISDA 2006	N
USD-ISDA-Swap Rate	All quoted tenors	N/A	Per ISDA 2006	N
USD-ISDA-Swap Rate-3:00	All quoted tenors	N/A	Per ISDA 2006	N
USD-ISDAFIX3- Swap Rate	All quoted tenors	N/A	Per ISDA 2006	N
USD-ISDAFIX3- Swap Rate-3:00	All quoted tenors	N/A	Per ISDA 2006	N
USD-LIBOR-BBA	All quoted tenors	N/A	Per ISDA 2006	N
USD-LIBOR-BBA- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
USD-LIBOR-ISDA	All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
USD-LIBOR-LIBO	All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
USD-LIBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
USD-OIS-11:00- BGCANTOR	All quoted tenors	N/A	Per ISDA 2006	N
USD-OIS-11:00- LON-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
USD-OIS-11:00-NY- ICAP	All quoted tenors	N/A	Per ISDA 2006	N

Floating Rate Option	Available Tenors	Default Tenor	Default Day Count Fraction	Additional Business Day Locations
USD-OIS-3:00- BGCANTOR	All quoted tenors	N/A	Per ISDA 2006	N
USD-OIS-3:00-NY- ICAP	All quoted tenors	N/A	Per ISDA 2006	N
USD-Prime-H.15	All quoted tenors	N/A	Per ISDA 2006	N
USD-Prime- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
USD-S&P Index- High Grade	All quoted tenors	N/A	Per ISDA 2006	N
USD-SIBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
USD-SIBOR-SIBO	All quoted tenors	N/A	Per ISDA 2006	N
USD-SIFMA Municipal Swap Index	All quoted tenors	N/A	Per ISDA 2006	N
USD-SOFR- COMPOUND	All quoted tenors	N/A	Prior to publication of a supplement to ISDA 2006 including USD- SOFR-COMPOUND, not applicable and thereafter, per ISDA 2006	No
USD-TBILL-H.15	All quoted tenors	N/A	Per ISDA 2006	N
USD-TBILL-H.15- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
USD-TBILL- Secondary Market	All quoted tenors	N/A	Per ISDA 2006	N
USD-TIBOR-ISDC	All quoted tenors	N/A	Per ISDA 2006	N
USD-TIBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
USD-Treasury Rate- ICAP BrokerTec	All quoted tenors	N/A	Per ISDA 2006	N
USD-Treasury Rate- SwapMarker100	All quoted tenors	N/A	Per ISDA 2006	N
USD-Treasury Rate- SwapMarker99	All quoted tenors	N/A	Per ISDA 2006	N
USD-Treasury Rate- T19901	All quoted tenors	N/A	Per ISDA 2006	N
USD-Treasury Rate- T500	All quoted tenors	N/A	Per ISDA 2006	N
ZAR-JIBAR-SAFEX	All quoted tenors	N/A	Per ISDA 2006	N

Definition of CLP-Unidad de Fomento (UF/CLF)

CLP-Unidad de Fomento (UF/CLF)	For any Reset Date, the difference between the value of the <i>unidad de</i>
	fomento (UF/CLF) as certified by the Chilean Banco Central de Chile
	for the calendar day preceding such Reset Date and the value of the

unidad de fomento (UF/CLF) as certified by the Chilean Banco Central
de Chile for such Reset Date.
The Calculation Agent shall convert such difference to the appropriate
annualized percentage based on the terms of the Floating Amount
payable by reference to the CLP- <i>Unidad de Fomento</i> (UF/CLF).
If for any Reset Date there is no published value of the <i>unidad de</i>
fomento (UF/CLF) as certified by the Chilean Banco Central de Chile,
the Calculation Agent shall determine the CLP-Unidad de Fomento
(UF/CLF) for such day.

Definition of MXN-Unidades de Inversión (UDI)

MXN-Unidades de Inversión (UDI)	For any Reset Date, the difference between the value of the <i>unidad de inversión</i> (UDI) as published by the Mexican <i>Banco de México</i> for the calendar day preceding such Reset Date and the value of the <i>unidad de inversión</i> (UDI) as published by the Mexican <i>Banco de México</i> for such Reset Date. The Calculation Agent shall convert such difference to the appropriate annualized percentage based on the terms of the Floating Amount payable by reference to the CLP MXN- <i>Unidades de Inversión</i> (UDI). If for any Reset Date there is no published value of the MXN- <i>Unidades de Inversión</i> (UDI) as certified by the Mexican <i>Banco de</i>
	México, the Calculation Agent shall determine the CLP MXN- Unidades de Inversión (UDI) for such day.

Basis Requirements and Defaults (Excluding Optional Early Termination and Mandatory Early Termination)

Variable	Requirement	Default
Effective Date Business Day		No Adjustment
Convention:		
Termination Date Business Day		No Adjustment
Convention:		
Period End Dates:		Payment Dates
Payment Date Business Day		Modified Following
Convention:		
Linear Interpolation:		Applicable only to long or short stub periods
Designated Maturities for Linear		Tenors quoted next shorter and
Interpolation:		longer than the actual Calculation Period length
Compounding:		Inapplicable
Compounding Business Day	Same as Business Day Convention	
Convention:	for Period End Dates	
Method of Averaging:	Weighted Average or Unweighted Average	Unweighted Average
Compounding Method:	Straight Compounding, Flat	
	Compounding, Spread Exclusive	
	Compounding	
ISDA MTM Matrix		Applicable (to Mark-to-Market
		Cross Currency Swaps)
Initial Exchange Date:		Effective Date
Initial Exchange Date Business Day		Following
Convention:		
Interim Exchange Date Business		Modified Following

Day Convention:	
Final Exchange Date:	Termination Date
Final Exchange Date Business Day	Modified Following
Convention:	

Definition of USD-SOFR-COMPOUND

From and after the date on which ISDA publishes a supplement to ISDA 2006 containing a definition of USD-SOFR-COMPOUND, per ISDA 2006.

Prior to such date:

"USD-SOFR-COMPOUND" means that the rate for a Reset Date, calculated in accordance with the formula set forth below in this subparagraph, will be the rate of return of a daily compound interest investment (it being understood that the reference rate for the calculation of interest is SOFR). Upon the occurrence of a USD-SOFR-COMPOUND Index Cessation Event, the rate for each day in a Calculation Period occurring on or after the USD-SOFR-COMPOUND Index Cessation Effective Date will be determined as if references to SOFR were references to the rate (inclusive of any spreads or adjustments) formally designated, nominated or recommended as the replacement for SOFR by the Federal Reserve Board or a committee officially endorsed or convened by the Federal Reserve Board for purposes of designating, nominating or recommending a replacement for SOFR (which rate may be produced by the Federal Reserve Bank of New York or another administrator). If no such rate is formally designated, nominated or recommended within one U.S. Government Securities Business Day of the USD-SOFR-COMPOUND Index Cessation Event, the rate for each day in a Calculation Period occurring on or after the USD-SOFR-COMPOUND Index Cessation Effective Date will be determined as if references to SOFR were references to OBFR. If at the time of the USD-SOFR-COMPOUND Index Cessation Event, publication of OBFR has been permanently or indefinitely discontinued, it has been publicly announced that OBFR will be permanently or indefinitely discontinued as of a specific date or there has been a public statement by a regulator or other official sector entity prohibiting the use of OBFR (which statement applies to, but need not be limited to, Swap Transactions, including existing Swap Transactions), then the rate for each day in a Calculation Period occurring on or after the USD-SOFR-COMPOUND Index Cessation Effective Date will be determined as if references to SOFR were references to the FOMC Target Rate.

"USD-SOFR-COMPOUND" will be calculated as follows, and the resulting percentage will be rounded, if necessary, in accordance with the method set forth in Section 8.1(a):

$$\left[\prod_{i=1}^{d_o} \left(1 + \frac{\text{SOFR}_i \times \mathbf{n}_i}{360} \right) - 1 \right] \times \frac{360}{d}$$

where:

" d_0 ", for any Calculation Period, is the number of U.S. Government Securities Business Days in the relevant Calculation Period;

"i" is a series of whole numbers from one to d_0 , each representing the relevant U.S. Government Securities Business Days in chronological order from, and including, the first U.S. Government Securities Business Day in the relevant Calculation Period;

"SOFR" is the daily Secured Overnight Financing Rate provided by the Federal Reserve Bank of New York, as the administrator of the benchmark, (or a successor administrator) on the Federal Reserve's Website;

"SOFR_i", for any day "i" in the relevant Calculation Period, is a reference rate equal to SOFR in respect of that day as published on or about 8:00 a.m., New York City time, on the U.S. Government Securities Business Day immediately following that day "i". If, by 5:00 p.m., New York City time, on the U.S. Government Securities Business Day immediately following any day "i", SOFR in respect of such day "i" has not been published and a

USD-SOFR-COMPOUND Index Cessation Event has not occurred, then SOFR_i for that day "i" will be SOFR as published in respect of the first preceding U.S. Government Securities Business Day for which SOFR was published on the Federal Reserve's Website:

"n_i" is the number of calendar days in the relevant Calculation Period on which the rate is SOFR_i;

"d" is the number of calendar days in the relevant Calculation Period;

"USD-SOFR-COMPOUND Index Cessation Event" means the occurrence of one or more of the following events:

- (a) a public statement by the Federal Reserve Bank of New York (or a successor administrator of SOFR) announcing that it has ceased or will cease to provide SOFR permanently or indefinitely, provided that, at that time, there is no successor administrator that will continue to provide SOFR;
- (b) the publication of information which reasonably confirms that the Federal Reserve Bank of New York (or a successor administrator of SOFR) has ceased or will cease to provide SOFR permanently or indefinitely, provided that, at that time, there is no successor administrator that will continue to provide SOFR; or
- (c) a public statement by a regulator or other official sector entity prohibiting the use of SOFR that applies to, but need not be limited to, Swap Transactions, including existing Swap Transactions;

"USD-SOFR-COMPOUND Index Cessation Effective Date" means, in respect of a USD-SOFR-COMPOUND Index Cessation Event, the date on which the Federal Reserve Bank of New York (or a successor administrator of SOFR) ceases to publish SOFR or the date as of which SOFR may no longer be used; and

"OBFR" is the daily Overnight Bank Funding Rate as provided by the Federal Reserve Bank of New York, as the administrator of the benchmark, (or a successor administrator) on the Federal Reserve's Website.

"FOMC Target Rate" is the short-term interest rate target set by the Federal Open Markets Committee and published on the Federal Reserve's Website or, if the Federal Open Markets Committee does not target a single rate, the midpoint of the short-term interest rate target range set by the Federal Open Markets Committee and published on the Federal Reserve's Website (calculated as the arithmetic average of the upper bound of the target range and the lower bound of the target range, rounded, if necessary, in accordance with the method set forth in Section 8.1(c))

"Federal Reserve's Website" means the website of the Board of Governors of the Federal Reserve System at http://www.federalreserve.gov, or any Successor Source.

Basis Requirements and Defaults (Optional Early Termination and Mandatory Early Termination)

Setting	Requirement	Default
Optional Early Termination:		Inapplicable
Mandatory Early Termination:		Inapplicable
Option Style:	American, Bermuda, European	
Cash Settlement:	Required for Mandatory Early	Applicable (i.e., Transaction is not
	Termination	"torn up for no value")
Optional Early Termination Date:		Cash Settlement Payment Date
Optional Early Termination Date		Following
Business Day Convention:		
Mandatory Early Termination Date		Modified Following

Business Day Convention:		
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Basis Requirements and Defaults (Optional Early Termination—Exercise)

Setting	Requirement	Default
Commencement Date:	American only	
Partial Exercise:		Inapplicable
Multiple Exercise:		Inapplicable
Exercise Business Day:		Banking Day for cash Settlement
		Currency (TARGET Settlement Day
		for EUR)
Latest Exercise Time:	On Expiration Date, the Expiration	Other than Expiration Date, the
	Time	Expiration Time

Basis Requirements and Defaults (Cash Settlement)

Setting	Requirement/Choices	Default
Cash Settlement Amount:		
ISDA Cross Currency Settlement		Applicable, if cross currency swap
Matrix:		with currency pair included in
		Matrix
ISDA Settlement Matrix:		Applicable, if single currency swap
		with Currency included in Matrix
Cash Settlement Valuation Time:		
Cash Settlement Valuation Date:		Two Valuation Business Days
		before Mandatory/Optional Early
		Termination Date but one Valuation
		Business Day before
		Mandatory/Optional Early
		Termination Date for MXN and
		same day for CAD, GBP or DKK
		with Floating Rate Option of "DKK-
		CIBOR-DKNA13" or "DKK-
		CIBOR-DKNA13-Bloomberg"
Valuation Business Day:		Banking Days in locations per the
		Business Day Location Table, plus
		additional days required by for
		fixings under the Floating Rate
		Option(s)
Cash Settlement Payment Date		Following
Business Day Convention:		
Cash Settlement Method:	Cash Price	
	Cash Price—Alternate Method	
	Collateralized Cash Price	
	Par Yield Curve—Adjusted	
	Par Yield Curve—Unadjusted	
	Zero Coupon Yield—Adjusted	
Cash Settlement Currency:		For single currency, same as
		Notional Amount, otherwise as
		specified in ISDA Master
		Agreement, or otherwise same as Notional Amount for Fixed Amount
Sattlement Date:	ISDA Sauras/Other Dries	INOUOHAI AHIOUHI IOF FIXED AMOUNT
Settlement Rate:	ISDA Source/Other Price	

	Source/Reference Banks	
Cash Settlement Reference Banks:		Fallbacks per ISDA 2006
		Definitions
Quotation Rate:	bid	
	ask	
	mid	
	Exercising Party Pays (Optional	
	Early Termination Only)	

Basis Swaps – CME Cleared

Summary:	This covers single-currency floating-for-floating ("basis") swaps cleared by Chicago Mercantile Exchange Inc. ("CME").
Limitations on Available Selections and Default Settings:	The terms under which a Basis Swap/CME Cleared may be traded are as specified in these terms and conditions and which incorporate the CME Rulebook, in particular Chapters 900 and 901 (and any successor provisions) and the CME Cleared IRS Product Scope (or any successor). By electing to trade a Basis Swap/CME Cleared, participants are representing that they are familiar with the CME Rulebook and the limitations on transaction terms contained in it.
Incorporated Standards:	This contract description incorporates by reference the CME Rulebook as in effect from time to time. The CME Rulebook itself may incorporate certain additional standards, such as the 2006 ISDA Definitions. Be aware that the timing of effectiveness of amendments or supplements to the ISDA standards may vary between bilateral and CME contracts, since the CME may reserve the right to select when and how such changes become effective.
Product Type/ISDA OTC Taxonomy:	
ISDA OTC Asset Class:	Interest Rate
ISDA OTC Base Product:	IR Swap
ISDA OTC Sub-Product(s):	Basis
Further Limitations:	Must comply with CME Clearing Requirements.
Terms:	
Definition Set:	The definition set (<i>e.g.</i> , ISDA 2000/ISDA2006) elected by, or otherwise binding on, the parties in accordance with the CME Rulebook.
Effective Date:	As per the CME Rulebook.
Notional Amount:	An amount in Currency determined by the parties subject to limitations in the CME Rulebook. This may vary from period to period to the extent permitted by the CME Rulebook. The CME Rulebook may limit the Currencies and Floating Rate Options for which variable notionals are permitted.
Currency:	One of the currencies permitted for the relevant transaction type per the CME Rulebook.
Business Days:	As per the CME Rulebook, which may require certain Business Days be applicable on a per Currency or Floating Rate Option Basis and may otherwise limit the available Business Day locations which can be elected.
Business Day Convention:	As per the CME Rulebook.
Trade Date:	As per the CME Rulebook.
Termination Date:	As agreed by the parties, subject to any minimum or maximum tenor in the CME Rulebook.
Termination Date Business Day Convention:	As per the CME Rulebook, and thus subject to

	limitations based on other terms of the transaction.
Stub Periods:	Permitted to the extent allowed under the CME
	Rulebook.
Floating Rate Payer 1 Floating Rate Payer Payment	As per the CME Rulebook.
Dates:	
Floating Rate Payer 1 Floating Amount:	As per the CME Rulebook.
Floating Rate Payer 1 Floating Rate Option:	As determined by the parties, subject to the CME
Troubing rate rayer resources rate options	Rulebook, which may provide a more limited list of
	available options for a Currency than does the Definition
	Set.
Floating Rate Payer 1 Designated Maturity:	As per the CME Rulebook, which may provide a more
	limited set of Designated Maturities than does the
	related rate source page.
Floating Rate Payer 1 Spread:	Subject to any minimum or maximum rate and per-
	period variability permitted by the CME Rulebook.
Floating Rate Payer 1 Reset Dates:	As the per CME Rulebook.
	1
Floating Rate Payer 1 Floating Rate Daycount Fraction:	As per the CME Rulebook.
Floating Rate Payer 1 Compounding:	As per the CME Rulebook.
Floating Rate Payer 1 Averaging Method:	As per the CME Rulebook.
Floating Rate Payer 1 Initial Floating Rate:	As per the CME Rulebook.
Floating Rate Payer 2 Floating Rate Payer Payment	As per the CME Rulebook.
Dates:	
Floating Rate Payer 2 Floating Amount:	As per the CME Rulebook.
Floating Rate Payer 2 Floating Rate Option:	As determined by the parties, subject to the CME
	Rulebook, which may provide a more limited list of
	available options for a Currency than does the Definition
	Set.
Floating Rate Payer 2 Designated Maturity:	As per the CME Rulebook, which may provide a more
	limited set of Designated Maturities than does the
	related rate source page.
Floating Rate Payer 2 Spread:	Subject to any minimum or maximum rate and per-
	period variability permitted by the CME Rulebook.
Floating Rate Payer 2 Reset Dates:	As the per CME Rulebook.
Floating Rate Payer 2 Floating Rate Daycount Fraction:	As per the CME Rulebook.
Floating Rate Payer 2 Compounding:	As per the CME Rulebook.
Floating Rate Payer 2 Averaging Method	As per the CME Rulebook.
Floating Rate Payer 2 Initial Floating Rate	As per the CME Rulebook.
Floating Rate 1 Floating Rate Payer:	As determined by the parties.
Floating Rate 2 Floating Rate Payer	As determined by the parties.
Payer for Additional Payment/Fees:	As determined by the parties, subject to limitation in the
	CME Rulebook.
Additional Payment/Fees:	As determined by the parties, subject to limitation in the
	CME Rulebook.
Payment Date for Additional Payment/Fees	As determined by the parties, subject to limitation in the
	CME Rulebook.

Basis Swaps – LCH Cleared

Summary:	This covers single-currency floating-for-floating
	("basis") cleared by LCH.Clearnet ("LCH").
Limitations on Available Selections and Default Settings:	The terms under which a Basis Swap/LCH Cleared may be traded are as specified in these terms and conditions and which incorporate the LCH Rulebook, in particular Schedule 4A (or any successor provisions). By electing to trade a Basis Swap/LCH Cleared, participants are representing that they are familiar with the LCH Rulebook and the limitations on transaction terms contained in it.
Incorporated Standards: Product Type/ISDA OTC Taxonomy:	This contract description incorporates by reference the LCH Rulebook as in effect from time to time. The LCH Rulebook itself may incorporate certain additional standards, such as the 2000 ISDA Definitions and 2006 ISDA Definitions. Be aware that the timing of effectiveness of amendments or supplements to the ISDA standards may vary between bilateral and LCH contracts, since the LCH may reserve the right to select when and how such changes become effective.
ISDA OTC Asset Class:	Interest Rate
ISDA OTC Asset Class. ISDA OTC Base Product:	IR Swap
ISDA OTC Sub-Product:	Basis
Further Limitations:	Must comply with LCH Clearing Requirements.
Terms:	With the comply with Left Clearing Requirements.
Definition Set:	The definition set (<i>e.g.</i> , ISDA 2000/ISDA2006) elected by, or otherwise binding on, the parties in accordance with the LCH Rulebook.
Notional Amount:	An amount in Currency determined by the parties subject to limitations in the LCH Rulebook. This may vary from period to period to the extent permitted by the LCH Rulebook. The LCH Rulebook may limit the Currencies and Floating Rate Options for which variable notionals are permitted.
Currency:	One of the currencies permitted for the relevant transaction type per the LCH Rulebook.
Trade Date:	As per the LCH Rulebook.
Effective Date:	As per the LCH Rulebook.
Termination Date:	As agreed by parties, subject to any minimum or maximum tenor in the LCH Rulebook.
Payer for Additional Payment/Fees:	As determined by the parties, subject to limitations in the LCH Rulebook.
Additional Payment/Fees:	As determined by the parties, subject to limitations in the LCH Rulebook.
Payment Date for Additional Payment/Fees:	As determined by the parties, subject to limitations in the LCH Rulebook, which may limit the earliest or latest day on which such fees may be paid based on Currency or other factors.
Business Days:	As per the LCH Rulebook, which may require certain

	Business Days be applicable on a per Currency or Floating Rate Option Basis and may otherwise limit the
Business Day Convention	available Business Day locations which can be elected.
Business Day Convention: Stub Periods:	As per the LCH Rulebook. Permitted to the extent allowed under the LCH
Stub reflous.	Rulebook.
Floating Rate Payer 1:	As determined by the parties.
Floating Rate Payer 1 Payment Dates:	As per the LCH Rulebook.
Floating Rate Payer 1 Compounding Dates:	As per the LCH Rulebook. As per the LCH Rulebook.
Floating Rate Payer 1 Floating Rate Option:	As determined by the parties, subject to LCH Rulebook,
Floating Rate Payer 1 Floating Rate Option.	which may provide a more limited list of available
	options for a Currency than does the Definition Set.
Floating Rate Payer 1 Designated Maturity:	As per the LCH Rulebook, which may provide a more
Troating Rate Payer 1 Designated Maturity.	limited set of Designated Maturities than does the
	related rate source page.
Floating Rate Payer 1 Spread:	Subject to any minimum or maximum rate and per-
Trouting Rule Fuyer Fispreud.	period variability permitted by the LCH Rulebook.
Floating Rate Payer 1 Reset Dates:	As the per LCH Rulebook.
Floating Rate Payer 1 Floating Rate Daycount Fraction:	As per the LCH Rulebook.
Floating Rate Payer 2:	As determined by the parties.
Floating Rate Payer 2 Payment Dates:	As per the LCH Rulebook.
Floating Rate Payer 2 Compounding Dates:	As per the LCH Rulebook.
Floating Rate Payer 2 Floating Rate Option:	As determined by the parties, subject to LCH Rulebook,
ggg	which may provide a more limited list of available
	options than are available for a Currency than does the
	Definition Set.
Floating Rate Payer 2 Designated Maturity:	As per the LCH Rulebook, which may provide a more
	limited set of Designated Maturities than does the
	related rate source page.
Floating Rate Payer 2 Spread:	Subject to any minimum or maximum rate and per-
	period variability permitted by the LCH Rulebook.
Floating Rate Payer 2 Reset Dates:	As the per LCH Rulebook.
Floating Rate Payer 2 Floating Rate Daycount Fraction:	As per the LCH Rulebook.
Negative Interest Rates:	As per the LCH Rulebook, which may require use of a
	single method.
Withholding and Tax:	As per the LCH Rulebook.
Governing Law:	As per the LCH Rulebook, which may dictate the law
	applicable to the Transaction.

BCOM WTI Crude Oil Exotic Options

Summary:	This covers uncleared BCOM WTI Crude Oil Exotic Options ("Exotic Options").
Incorporated Standards:	This contract description incorporates by reference the following industry standard documentation and standards:
	(a) 2005 ISDA Commodity Derivatives Definitions ("Commodity Definitions");
	(b) the 1998 FX and Currency Option Definitions, as amended and supplemented from time to time, including the 2005 Barrier Option Supplement to the 1998 FX and Currency Option Definitions (the "1998 Definitions"); and
	(c) ISDA OTC Taxonomies.
Limitations on Available Selections and Default Settings:	Each Exotic Option traded is bespoke and the terms agreed between the Buyer and Seller. All option strategies result in call options and/or put options executed with the following strategies traded as agreed between the parties:
	Knockout, Double Knockout, Knockin, One Touch, No Touch, Double One Touch, Double No Touch
Product Type/ISDA OTC Taxonomy:	
ISDA OTC Asset Class:	Commodity
ISDA OTC Base Product:	Energy
ISDA OTC Sub-Product(s):	Oil
Further Limitations:	Exotic
Terms:	
Trade Date:	The date the transaction is agreed to between the parties and becomes legally binding on the parties
Commodity:	As specified by the parties from among the Available Commodities.
Option Style:	As specified by the parties from among the Available Option Styles.
Option Type:	As specified by the parties from among the Available Option Types.
Buyer:	As specified by the parties.
Seller:	As specified by the parties.
Commodity Reference Price:	As specified by the parties from among the Available Commodity Reference Prices.

Business Day:	As specified by the parties.
Business Day Convention:	As specified by the parties.
Pricing Date(s):	As specified by the parties.
Strike Price:	As specified by the parties.
Expiration Date:	As specified by the parties.
Expiration Time:	As specified by the parities.
Latest Exercise Time:	As specified by the parties.
Automatic Exercise:	As specified by the parties.
Business Days for Exercise Date:	For American Options, as specified by the parties.
Cash Settlement:	Applicable
Settlement Dates:	As specified by the parties from among the Available Business Day Convention.
Calculation Agent:	As agreed by the parties.
Settlement Amount:	In the case of a digital or binary option, as specified by the parties.
Settlement Date:	As specified by the parties.
Valuation Date:	As specified by the parties.
Averaging Dates:	As specified by the parties.
Premium:	As specified by the parties.
Premium Payment Date:	As specified by the parties.
Barrier Event:	As specified by the parties.
Calculation Agent:	As specified by the parties.
Market Disruption Events:	Unless otherwise specified by the parties, per the Commodity Definitions.
Disruption Fallbacks:	Unless otherwise specified by the parties, per the Commodity Definitions.

Exotic Option Available Option Type

Knockout		
Double Knockout		
Knockin		
One Touch		
No Touch		
Double One Touch		
Double No Touch		

Exotic Option Available Option Style

Style	Description	Default
American	Can be exercised on any Exercise	Yes
	Business Day from and including	
	the Commencement Date to and	

BCOM WTI Crude Oil Exotic Options

	including the Expiration Date.	
European	Can be exercised only on the	No
	Expiration Date.	

Exotic Option Available Commodity Reference Prices

Abbr	Name
BCOMCL	BCOM WTI Crude Oil ER
BCOMCLC	BCOM WTI Crude Oil Capped ER

BRL CDI Deliverable and Non-Deliverable Interest Rate Swap Contracts and Physically-Settled Swaptions

Summary:	This covers BRL CDI Deliverable and Non-Deliverable
Summary:	Interest Rate Swap Contracts and Physically-Settled
	Swaptions Thereon (the "Contracts").
	Non-Deliverable Contracts are paid in USD, and
	Deliverable Contracts are paid in BRL.
Limitations on Available Selections and Default	The terms under which the Contracts may be traded are
Settings:	as specified in these terms and conditions and in the
Settings.	attached tables.
	For amounts or rates, the relevant term cannot be less
	than the specified Minimum, must represent an even
	Increment and cannot exceed the Maximum; for a date,
	the date cannot be earlier than Earliest nor later than Latest.
	For Business Days, the defaults shall be the locations
	specified.
	The parties may add additional locations from the
	Available Locations and may eliminate some or all of
	the other locations, so long as there is at least one
	location in which payment may be made. For these
	purposes "TARGET" is considered a location.
	In many cases there are normal "vanilla" terms on which
	the parties will transact. These are shown as "Default"
	and will apply unless the parties vary them.
Incorporated Standards:	This contract description incorporates by reference the
	following industry standard documentation and
	standards:
	(a) 2006 ISDA Definitions
	(b) ISDA OTC Taxonomies
	(c) FpML Location Codes
	(d) the Recommended EMTA-ISDA Market Practice for
	BRL CDI Non-Deliverable Interest Rate Swap
	Transactions (Amended March 13, 2009) ("BRL CDI
	Best Practices")
	(e) the EMTA BRL/USD NDF Template dated May 17,
	2006 (the "NDF Template")
	For convenience, certain terms are mapped to their FpML 5.5 equivalent.
Product Type/ISDA OTC Taxonomy:	1 PIVIL 3.3 equivalent.
ISDA OTC Asset Class:	Interest Rate
ISDA OTC Asset Class. ISDA OTC Base Product:	IR Swap
ISDA OTC Sub-Product:	Exotic
Further Limitations:	None
Terms:	
Effective Date ("effectiveDate"):	The date specified by the parties, adjusted in accordance
	with any applicable Business Day Convention.
	The parties may express the unadjusted Effective Date as
	a number of Business Days or Banking Days from the
	Trade Date ("relativeEffectiveDate").
Effective Date Business Days:	As specified by the parties from among the Available
	Business Days.

Termination Date ("terminationDate"): The dates specified by the parties, adjusted in accordance with any applicable Business Day Convention. The parties may express the unadjusted Termination Date as a number of days, months or years from the Effective Date ("relative TerminationDate"). Termination Date Business Days: In the case of a Non-Deliverable Contract, USNY and the BR Business Day selected by the parties, unless there is an Unscheduled Holidaly (as defined in the NDF Template) following the Trude Date, in which case USNY only. In the case of a Deliverable Contract, the BR Business Day selected by the parties. Termination Date Business Day Convention: Following Termination Date Business Day Convention: Following In the case of a Non-Deliverable Contract, the BR Business Day selected by the parties. Termination Date Business Day Convention: Following In the case of a Non-Deliverable Contract, trate determined in accordance with the NDF Template, treating the Business Day preceding the day of calculation of the relevant Fixed Amount or Floating Amount as the "Valuation Date" thereunder. (Under the NDF Template, this will result in use of the BRL PTAX (BRL09) rate in the first instance.) In the case of a Deliverable Contract, 1.0. Fixed Amount: Fixed Rane Payer ("payerPartyReference"): As specified by the parties. Future Value Notional Amount ("notional Amount"): The Trade Date Present Value Notional Amount or a Trade Date Present Value Notional Amount typecify a Termination Date Future Value Notional Amount specified by the parties (or determined by the parties (or determine	Effective Date Business Day Convention:	As specified by the parties from among the Available
The date specified by the parties, adjusted in accordance with any applicable Business Day Convention. The parties may express the unadjusted Termination Date as a number of days, months or years from the Effective Date ("relative TerminationDate"): Termination Date Business Days: In the case of a Non-Deliverable Contract, USNY and the BR Business Day selected by the parties, unless there is an Unscheduled Holiday (as defined in the NDF Template) Iollowing the Trade Date, in which case USNY only. In the case of a Deliverable Contract, the BR Business Day selected by the parties, unless there is an Unscheduled Holiday (as defined in the NDF Template) Iollowing the Trade Date, in which case USNY only. In the case of a Deliverable Contract, the BR Business Day selected by the parties. Following Fx Factor: In the case of a Non-Deliverable Contract, the BR Business Day selected by the parties. The determined in accordance with the NDF Template, treating the Business Day preceding the day of calculation of the relevant Fixed Amount or Floating Amount as the "Valuation Date" thereunder. (Under the NDF Template, this will result in use of the BRL PTAX (BRLO9) rate in the first instance.) Fixed Amount: Fixed Amount ("notional Amount"): The Trade Date Present Value Notional Amount or a Trade Date Present Value Notional Amount or a Trade Date Present Value Notional Amount that specified by the parties. Future Value Notional Amount: An amount in BRL as specified by the parties (or determined based on the Trade Date Present Value Notional Amount, then the Notional Amount specified by the parties (or determined based on the Trade Date Present Value Notional Amount and Increment implied by the Parties (or determined based on the Trade Date Present Value Notional Amount and Increment implied by the Parties (or determined based on the Trade Date Present Value Notional Amount and Increment implied by the Parties (or determined based on the Trade Date Present Value Notional Amount shall equal: Fixed Rate:	Effective Bate Business Bay Convention.	
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Business Day Convention for Premium Payment Dates: Business Days for Payments: In the case of a Non-Deliverable Contract, USNY and the BR Business Day selected by the parties, unless there is an Unscheduled Holiday (as defined in the NDF Template) following the Trade Date, in which case USNY only. In the case of a Deliverable Contract, the BR Business Day selected by the parties. Exercise Business Days: As specified by the parties from among the BR Business Days. Swaption Procedure for Exercise: General: The parties may enter into swaptions with respect to which a BRL CDI Swap is the Underlying Swap Transaction. Expiration Date: As specified by the parties. Expiration Time: As specified by the parties. As specified by the parties. Minimum Notional Amount: As specified by the parties and expressed as Termination		
Business Days for Payments: In the case of a Non-Deliverable Contract, USNY and the BR Business Day selected by the parties, unless there is an Unscheduled Holiday (as defined in the NDF Template) following the Trade Date, in which case USNY only. In the case of a Deliverable Contract, the BR Business Day selected by the parties. Exercise Business Days: As specified by the parties from among the BR Business Days. Swaption Procedure for Exercise: General: The parties may enter into swaptions with respect to which a BRL CDI Swap is the Underlying Swap Transaction. Expiration Date: As specified by the parties. Expiration Time: As specified by the parties. As specified by the parties. Minimum Notional Amount: As specified by the parties and expressed as Termination		
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Exercise Business Days: As specified by the parties from among the BR Business Days. Swaption Procedure for Exercise: General: The parties may enter into swaptions with respect to which a BRL CDI Swap is the Underlying Swap Transaction. Expiration Date: As specified by the parties. Expiration Time: As specified by the parties. Partial Exercise: As specified by the parties.		
Exercise Business Days: As specified by the parties from among the BR Business Days. Swaption Procedure for Exercise: General: The parties may enter into swaptions with respect to which a BRL CDI Swap is the Underlying Swap Transaction. Expiration Date: As specified by the parties. Expiration Time: As specified by the parties. Partial Exercise: As specified by the parties.		
Swaption Procedure for Exercise:Days.General:The parties may enter into swaptions with respect to which a BRL CDI Swap is the Underlying Swap Transaction.Expiration Date:As specified by the parties.Expiration Time:As specified by the parties.Partial Exercise:As specified by the parties.Minimum Notional Amount:As specified by the parties and expressed as Termination	Evergise Rusiness Days:	
Swaption Procedure for Exercise:General:The parties may enter into swaptions with respect to which a BRL CDI Swap is the Underlying Swap Transaction.Expiration Date:As specified by the parties.Expiration Time:As specified by the parties.Partial Exercise:As specified by the parties.Minimum Notional Amount:As specified by the parties and expressed as Termination	LACICISC Dusinicss Days.	
General: The parties may enter into swaptions with respect to which a BRL CDI Swap is the Underlying Swap Transaction. Expiration Date: As specified by the parties. Expiration Time: As specified by the parties. Partial Exercise: As specified by the parties.	Swantion Procedure for Evercise	Duys.
which a BRL CDI Swap is the Underlying Swap Transaction. Expiration Date: As specified by the parties. Expiration Time: As specified by the parties. Partial Exercise: As specified by the parties. Minimum Notional Amount: As specified by the parties and expressed as Termination		The parties may enter into swantions with respect to
Transaction. Expiration Date: As specified by the parties. Expiration Time: As specified by the parties. Partial Exercise: As specified by the parties. Minimum Notional Amount: As specified by the parties and expressed as Termination	- Cenerun	
Expiration Date:As specified by the parties.Expiration Time:As specified by the parties.Partial Exercise:As specified by the parties.Minimum Notional Amount:As specified by the parties and expressed as Termination		
Expiration Time:As specified by the parties.Partial Exercise:As specified by the parties.Minimum Notional Amount:As specified by the parties and expressed as Termination	Expiration Date:	
Partial Exercise: As specified by the parties. Minimum Notional Amount: As specified by the parties and expressed as Termination		
Minimum Notional Amount: As specified by the parties and expressed as Termination		

BCOM WTI Crude Oil Exotic Options

Maximum Notional Amount:	As specified by the parties and expressed as Termination
	Date Future Value Notional Amount.
Integral Multiple:	As specified by the parties and expressed as Termination
	Date Future Value Notional Amount.
Automatic Exercise:	As specified by the parties.
Threshold:	As specified by the parties if Automatic Exercise is
	applicable.
Fallback Exercise:	As specified by the parties (if required).
Swaption Settlement Terms:	_
Physical Settlement:	Applicable

BRL CDI Currencies and Required Business Days

Three Letter Currency Code	Currency Name (ISDA)	Basic Business Day Locations
(ISDA/ISO)		For Currency (FpML Codes)
USD	United States Dollars	USNY
BRL	Brazilian Reai	Any of BR{SP, RJ, BR} and not
		otherwise declared a financial
		market holiday by the BM&F

BRL CDI Available Business Day Conventions

ISDA Name
Following
Modified/Modified Following
No Adjustment
Preceding
FRN Convention/Eurodollar Convention

BRL CDI Floating Rate Options

Reset Date shall parties do not a Brazil Business shall be determined described herein by a CDI Reference.	t Date there is no published Overnight CDI Rate result of the proviso above), CDI for the relevant be the overnight deposit rate published for such l&F in accordance with its rules (see f.com.br/portal/pages/boletim1/bd_manual/indica s1.asp, or any successor page). If the BM&F h such a rate for such date, CDI for the relevant lbe determined jointly by the parties. If the agree on a determination of such rate within one s Day following the relevant Reset Date, CDI ined through a CDI Reference Dealer Poll as n. If CDI for a Reset Date is not so determined tence Dealer Poll, BRL-CDI-Reference Dealers
shall apply. BRL-CDI-Reference Dealers: If applicable for	r a Reset Date as set forth above, the Calculation

	Agent shall conduct up to four dealer polls commencing on the	
	Brazil Business Day following the relevant Reset Date, in each	
	case by requesting each of the CDI Reference Dealers to	
	provide a quotation of the CDI. If at least four such quotations	
	are obtained from CDI Reference Dealers in any such poll, the	
	highest and lowest quotations will be disregarded and CDI for	
	the relevant Reset Date will equal the arithmetic mean of the	
	remaining quotations. If fewer than four such quotations are	
	obtained from a poll, the Calculation Agent shall conduct	
	additional such polls until four such quotations are obtained in	
	any poll; provided that the Calculation Agent shall not conduct	
	more than four polls in the aggregate (with not more than two	
	polls on any day and with such polls conducted over not more	
	than two Brazil Business Days). If four quotations are not	
	obtained from any of such four polls, CDI shall CDI shall not be	
	determined by a CDI Reference Dealer Poll.	
CDI Reference Dealers:	At least six and not more than eight leading onshore dealers in	
	the CDI market selected by the Calculation Agent.	

BRL CDI Notionals

Currency	Minimum	Increment	Maximum	Default
	(expressed as	(expressed as		
	Termination Date	Termination Date		
	Future Value	Future Value		
	Notional Amount)	Notional Amount)		
BRL (Termination	BRL 5,000,000	BRL 5,000,000	N/A	N/A
Date Future Value				
Notional Amount)				
BRL (Trade Date	As impl	ied by Termination Date	Future Value Notional	Amount
Present Value				
Notional Amount)				
USD	As implied	by BRL Termination Da	ate Future Value Notiona	al Amount

Bullion Options

Summary:	This covers uncleared bullion options ("Bullion	
Limitations on Available Selections and Default	Options").	
Settings:	The terms under which Bullion Options may be traded are shown below and in the attached tables.	
Incorporated Standards:	This contract description incorporates by reference the	
	following industry standard documentation and	
	standards:	
	2000 ISDA Definitions	
	2005 ISDA Commodity Derivatives Definitions	
	("Commodity Definitions"), including Sub-Annex B thereto.	
Product Type/ISDA OTC Taxonomy:	mereto.	
ISDA OTC Asset Class:	Commodity	
ISDA OTC Base Product:	Metals	
ISDA OTC Sub-Product:	Precious	
ISDA OTC Transaction type:	Option	
ISDA OTC Settlement type:	Cash or Physical	
Further Limitations:	None	
Terms:		
Trade Date:	As agreed by the parties.	
Bullion:	As specified by the parties from among the Available	
N -1 CO	Bullion.	
Number of Ounces:	As specified by the parties. For any type of Bullion, the meaning of "Ounce" will be as specified for that Bullion	
	in the list of Available Bullion unless otherwise agreed	
	by the parties.	
Bullion Option Style:	As specified by the parties from among the Available	
2 umon opnon styte.	Bullion Option Styles.	
Bullion Option Type:	As specified by the parties from among the Available	
	Bullion Option Types.	
Bullion Option Seller:	As specified by the parties.	
Bullion Option Buyer:	As specified by the parties.	
Bullion Strike Price:	As specified by the parties as a number of units of the	
	one of the Available Currencies.	
Bullion Premium:	As specified by the parties as a number of units of the	
D. III . D	one of the Available Currencies.	
Bullion Premium Payment Date:	As specified by the parties.	
Bullion Premium Payment Date Business Days	Per the Available Currencies, plus such additional	
Dellier Descriptor Descriptor Descriptor Descriptor	Business Days as the parties specify.	
Bullion Premium Payment Date Business Day Convention:	As specified by the parties from among the Available Business Day Conventions or otherwise per the	
Convention.	Commodity Definitions.	
Bullion Business Day:	Shall have the meaning specified in the Commodity	
Danion Duomicoo Duy.	Definitions, save that the reference to "New York"	
	therein shall be deemed to be a reference to the relevant	
	financial center for the Applicable Currency in which the	
	Bullion Strike Price is denominated.	
Method of Averaging:	For Asian Options, as specified by the parties or	
	otherwise per the Commodity Definitions.	
Procedure for Exercise:		

	T
Bullion Exercise Period:	For an American Style Bullion Option, the period of
	days and the times on such days specified by the parties.
	For any other Bullion Option Style, the times on the
	Expiration Date or Potential Exercise Date specified by
	the parties.
Bullion Potential Exercise Dates:	For a Bermuda Style Bullion Option, the days specified
	by the parties.
Bullion Expiration Date:	As specified by the parties.
Bullion Expiration Time:	For a European Style Bullion Option, as specified by the
1	parties.
Bullion Settlement Date:	In accordance with Section 10.4(b)(xvii) of the
	Commodity Definitions, unless specified by the parties.
Seller's Notice Information:	As specified by the Seller.
Automatic Exercise:	Applicable, unless otherwise specified by the parties.
In-the-Moniness for Automatic Exercise:	In the case of a Bullion Option for which Automatic
in-the-infolliness for Automatic Exercise:	
	Exercise is, or is deemed to be, applicable, and to which
	Settlement by Delivery is applicable, one percent of the
	Bullion Strike Price (as specified in Section
	10.4(c)(ii)(B)(x) of the Commodity Definitions) or such
	other amount as specified by the parties.
Price Source for Automatic Exercise:	In the case of a Bullion Option for which Automatic
	Exercise is, or is deemed to be, applicable, and to which
	Settlement by Delivery is applicable, the Seller's bid or
	offer price (as specified in Section 10.4(c)(ii)(B) of the
	Commodity Definitions) unless otherwise specified by
	the parties.
Written Confirmation:	As specified by the parties.
Settlement:	As specified by the parties from among the Available
Sottoment.	Settlement Types; provided, however, that Cash
	Settlement will only be available for Available
Additional Descriptions for Ton.	Currencies for which it is specified as such.
Additional Provisions for Tax:	None, unless specified by the parties in accordance with
7.6 1 (D) (t)	Section 10.11 of the Commodity Definitions.
Market Disruption:	
Market Disruption Events:	Unless otherwise specified by the parties, per the
	Commodity Definitions.
Additional Market Disruption Events:	As specified by the parties.
Disruption Fallbacks:	Unless otherwise specified by the parties, per the
	Commodity Definitions.
Fallback Reference Price:	None, unless specified by the parties.
Maximum Days of Disruption:	Unless otherwise specified by the parties, per the
, 1	Commodity Definitions.
Provisions Relating to Cash Settlement:	•
Commodity Reference Price:	As specified by the parties from among the Available
	Commodity Reference Price.
Bullion Transaction Settlement Date:	As specified by the parties.
Provisions Relating to Settlement by Delivery:	110 specified by the parties.
Delivery Location:	Per the Delivery Loco specified in the Available Bullion
Delivery Location:	below.
Consequences of Bullion Settlement Disruption Events:	Cancellation and Payment unless the parties agree that
Consequences of Danion Settlement Distuption Livelits.	Negotiation is applicable.
Miscellaneous:	11050thation is applicable.
	Section 10 4(a)(iv) of the Commodity Definitions : '11
Discharge and Termination:	Section 10.4(c)(iv) of the Commodity Definitions will
	apply if specified by the parties, unless the Bullion
	Option Transaction is an Allocated Transaction.

Novation Netting:	For Bullion Options subject to Settlement by Delivery and is not an Allocated Transaction, as agreed by the parties on a "Type of Obligation" or "Matched Pair" basis.
Calculation Agent:	As agreed by the parties.

Bullion Option Available Currencies and Required Business Days

Three Letter Currency Code (ISDA/ISO)	Currency Name (ISDA)	Basic Business Day Locations For Currency	Available Settlement Type
, , ,		(FpML Codes)	J1
AUD	Australian Dollar	AUSY	Physical Only
CHF	Swiss Franc	CHZU	Physical Only
EUR	Euro	EUTA	Cash or Physical
GBP	Sterling	GBLO	Cash or Physical
JPY	Japanese Yen	JATO	Physical Only
USD	United States Dollars	USNY	Cash or Physical

Bullion Options Available Bullion Business Day Conventions

ISDA Name
Following
Modified/Modified Following
Nearest
Preceding

Bullion Option Available Bullion Option Style

	ISDA Name	
American		
European		
Bermuda		

Bullion Option Available Bullion Option Type

ISDA Name
Bullion Put Option
Bullion Call Option
Bermuda

Bullion Options Available Bullion

Metal	Ounce	Delivery Loco/Rules
Gold	Fine troy ounce	London/LBMA
Palladium	Troy ounce	Zurich/LPPM or London/LPPM
Platinum	Troy ounce	Zurich/LPPM or London/LPPM
Silver	Troy ounce	London/LBMA

The following Commodity Reference Prices are as defined in Sub-Annex A to the Commodity Definitions.

ISDA Definition	
GOLD-A.M. FIX	
GOLD-P.M. FIX	
PALLADIUM-A.M. FIX	

PALLADIUM-P.M. FIX
PLATINUM-A.M. FIX
PLATINUM-P.M. FIX
SILVER-FIX

For any Available Currency other than USD and any Bullion Option to which Cash Settlement is applicable, the Commodity Reference Price shall be per Sub-Annex A, save that the reference to U.S. Dollars shall be replaced by a reference to the relevant Available Currency.

CDS - ABX Indices (Broad Based) Contracts

Summary:	This covers credit default swaps on broad-based ABX indices ("CDS – ABX Indices (Broad Based)
	Contracts").
Limitations on Available Selections and Default	The terms under which CDS – ABX Indices (Broad
Settings:	Based) Contracts may be traded are shown below or in
	the attached table(s) or the Relevant Annexes
	promulgated by the index sponsor and referenced below
	or in the attached table(s), as such Relevant Annexes
	may be amended from time to time by the Index
	Sponsor.
	NO ABX INDEX WILL BE TRADED ON THE SEF
	ONCE IT HAS CEASED TO BE A BROAD BASED
	INDEX UNDER CFTC REGULATIONS.
Incorporated Standards:	This contract description incorporates by reference the
	following industry standard documentation and
	standards:
	(a) 2003 ISDA Credit Derivatives Definitions, as published by the International Swaps and Derivatives
	Association, Inc. (the "Credit Derivatives Definitions"),
	NOT including supplements thereto; and
	(b) the ABX Transactions Standard Terms Supplement,
	as published by CDS IndexCo LLC on July 19, 2006
	(the "ABX Standard Terms").
Product Type/ISDA OTC Taxonomy:	
ISDA OTC Asset Class:	Credit
ISDA OTC Base Product:	Index
ISDA OTC Sub-Product:	ABX
ISDA OTC Transaction type:	ABX.HE
Further Limitations:	None
Terms:	
Index:	The ABX Index selected by the parties from among the
	Available ABX Indices.
	NO ABX INDEX WILL BE TRADED ON THE SEF ONCE IT HAS CEASED TO BE A BROAD BASED
	INDEX UNDER CFTC REGULATIONS.
Annex Date:	As specified for the applicable Index on the list of
Timex Date.	Available ABX Indices.
Trade Date:	As agreed by the parties.
Effective Date:	The Trade Date (unless otherwise specified by the
	parties).
Scheduled Termination Date:	The "Legal Final Maturity Date of the Index" specified
	in the Relevant Annex.
Floating Rate Payer:	As specified by the parties.
Fixed Rate Payer:	As specified by the parties.
Aggregate Floating Rate Payer Calculation Amount:	An amount is USD specified by the parties.
Fixed Rate:	A number of basis points equal to the "Applicable
	Coupon" as specified for the applicable Index on the
	Relevant Annex.
Initial Payment Payer:	As selected by the parties.
Initial Payment Amount:	As specified by the parties. Notwithstanding anything to

the contrary contained in the ABX Standard Terms, the
Initial Payment Amount shall be paid by the Initial
Payment Payer on the date that is three Business Days
following the Trade Date, unless otherwise specified by
the parties.

Available ABX Indices for CDS - ABX Indices (Broad Based) Contracts

Index	Relevant Annex
ABX.HE.A.06-1	http://www.markit.com/assets/en/docs/products/data/indices/credit-index-
	annexes/ABX.HE.A.06-1.pdf
ABX.HE.AA.06-1	http://www.markit.com/assets/en/docs/products/data/indices/credit-index-
	annexes/ABX.HE.AA.06-1.pdf
ABX.HE.AAA.06-1	http://www.markit.com/assets/en/docs/products/data/indices/credit-index-
	annexes/ABX.HE.AAA.06-1.pdf
ABX.HE.AA.06-2	http://www.markit.com/assets/en/docs/products/data/indices/credit-index-
	annexes/ABX.HE.AA.06-2.pdf
ABX.HE.AAA.06-2	http://www.markit.com/assets/en/docs/products/data/indices/credit-index-
	annexes/ABX.HE.AAA.06-2.pdf
ABX.HE.AAA.07-1	http://www.markit.com/assets/en/docs/products/data/indices/credit-index-
	annexes/ABX.HE.AAA.07-1.pdf
ABX.HE.AAA.07-2	http://www.markit.com/assets/en/docs/products/data/indices/credit-index-
	annexes/ABX.HE.AAA.07-2.pdf
ABX.HE.PENAAA.06-2	http://www.markit.com/assets/en/docs/products/data/indices/credit-index-
	annexes/ABX.HE.PENAAA.06-2.pdf
ABX.HE.PENAAA.07-1	http://www.markit.com/assets/en/docs/products/data/indices/credit-index-
	annexes/ABX.HE.PENAAA.07-1.pdf
ABX.HE.PENAAA.07-2	http://www.markit.com/assets/en/docs/products/data/indices/credit-index-
	annexes/ABX.HE.PENAAA.07-2.pdf

NO ABX INDEX WILL BE TRADED ON THE SEF ONCE IT HAS CEASED TO BE A BROAD BASED INDEX UNDER CFTC REGULATIONS.

CDS Index Contract – Emerging Markets Swaps and Swaptions

Summary:	This covers "CDS Index Contract – Emerging Markets
	Swaps and Swaptions" contracts $-i.e.$, an agreement to
	buy or sell protection on a broad-based basket of
	emerging markets sovereign entities.
Index:	CDX.EM: Series 12 through current, so long as such
	Index is not a narrow-based Index.
Currency:	USD
Quoting Convention and Minimum Increment:	As agreed by counterparties.
Minimum Size:	As agreed by counterparties.
Trading Conventions:	Buy = Buy Protection, the buyer of protection pays a
	premium to the seller in case of a credit event occurring.
	Credit events include Bankruptcy and Failure to Pay.
	Sell = Sell Protection, the seller of protection receives
	the premium payments from the protection buyer. The
	Seller owns the credit risk of the instrument.
	Investment Grade indices are traded on spread.
Swap Conventions:	Fixed coupon payments are calculated at a spread of 500
	bps and exchanged on a quarterly basis.
Swap Tenor:	As agreed by the parties, subject to Applicable Law.
Effective Date:	The date on which parties begin calculating accrued
	obligations such as fixed payments. Also known as the
	start date of the swap.
Maturity Date:	The final date on which the obligations no longer accrue
m 1 m	and the final payment occurs.
Trade Types:	The following swap types may be executed on tpSEF
	Inc.:
	OutrightsRoll Trades
Cottlement.	Curve Trades Continued to several December 2 to date and it several to the date and it several t
Settlement:	Contingent payment - Payments related to credit event settlement will be determined pursuant to the 2009
	ISDA Credit Derivatives Determination Committees and
	Auction Settlement Supplement (<i>i.e.</i> , the Big Bang and
	Little Bang Protocols).
	Fixed Quarterly cash payments - reflected in basis points
	and paid by the protection buyer to the protection seller.
	Upfront payment - The upfront payment is a portion of
	the payments, expressed in percentage points of the
	notional, which is present valued and paid immediately
	to the seller.
Swaptions on the Above:	
Swaptions:	The SEF is also listing Physically-Settled Swaptions on
Swantian Ontion Styles	the Index on the terms described herein.
Swaption Option Style:	European; the Swaptions may be exercised only on expiration.
Swaption Tenor:	The tenor of the Swaptions will be selected by the
Swaphon Tenor.	parties and will be no shorter than three months and no
	longer than three months less than the Swap Tenor.
Settlement:	The Swaption will be Physically Settled and, if
Somement.	exercised, will result in the parties entering into a swap
	exercised, will result in the parties effering into a swap

CDS Index Contract – Emerging Markets Swaps and Swaptions

	on the Index on the terms described herein.
ISDA Definitions (2003 v. 2014 Credit Derivatives Definitions):	
2003 Definitions:	ISDA has published 2014 Credit Derivatives Definitions, which alter the treatment accorded certain events, particularly as relates to sovereigns and financials and certain "orphan" CDS (Reference Entities with no deliverable obligations).
Index Sponsor:	Markit, which sponsors the Index, has published information on treatment of both legacy and future indices. The parties should consult Markit's documentation to determine the exact treatment. It is the SEF's understanding that, in general, all CDS index trades will convert to the 2014 Definitions, with individual components being excluded if they would be impacted by the differences between the two.
Cleared Transactions:	Transactions intended to be cleared will use the Definitions required by the relevant DCO selected by the parties. The parties should consult the relevant DCO's documentation to determine the exact treatment. It is the SEFs understanding that the DCOs will be converting all trades to the 2014 definitions, with individual component excluded as describe above.
Choice of Definitions:	The parties can elect which Definitions to use as part of their Confirmation process. However, this may limit clearability and result in creation of a bespoke Index transaction.

CDS Index Contract – European Crossover 5Y Swaps and Swaptions

Communication	This agrees "CDC Index Contract European Crossover
Summary:	This covers "CDS Index Contract – European Crossover
	5Y Swaps and Swaptions". The European Crossover index comprises 50 equally weighted credit default
	swaps on the most liquid sub-investment grade European
	corporate entities.
Index:	ITRAXX.EUROPE CROSSOVER: Series 10 to current.
	EUR
Currency:	
Quoting Convention and Minimum Increment: Minimum Size:	As agreed by counterparties.
	As agreed by counterparties.
Trading Conventions:	Buy = Buy Protection, the buyer of protection pays a premium to the seller in case of a credit event occurring.
	Sell = Sell Protection, the seller of protection receives
	the premium payments from the protection buyer. The
	Seller owns the credit risk of the instrument.
Swap Conventions:	European crossover indices are traded on spread.
Swap Conventions.	Fixed coupon payments are calculated at a spread of 500
	bps and exchanged on a quarterly basis.
Swap Tenor:	5Y
Effective Date:	The date on which parties begin calculating accrued
Encouve Butt.	obligations such as fixed payments. Also known as the
	start date of the swap.
Maturity Date:	The final date on which the obligations no longer accrue
	and the final payment occurs.
Trade Types:	The following swap types may be executed on the tpSEF
••	Inc.:
	Outrights
	Roll Trades
	Curve Trades
Settlement:	Contingent payment - Payments related to credit event
	settlement will be determined pursuant to the 2009
	ISDA Credit Derivatives Determination Committees and
	Auction Settlement Supplement, (i.e., the Big Bang
	Protocol).
	Fixed Quarterly cash payments - reflected in basis points
	and paid by the protection buyer to the protection seller.
	Upfront fee payment - The upfront fee is a portion of the
	payments, expressed in percentage points of the
	notional, which is present valued and paid immediately
Swantians on the Abayas	to the seller.
Swaptions on the Above:	The CEE is also listing Dissipathy Could decrease an
Swaptions:	The SEF is also listing Physically-Settled Swaptions on
Swaption Option Style:	the Index on the terms described herein. European; the Swaptions may be exercised only on
Swapholi Option Style.	expiration.
Swaption Tenor:	The tenor of the Swaptions will be selected by the
1	parties and will be no shorter than three months and no
Settlement:	
· · · · · · · · · · · · · · · · · · ·	
	on the Index on the terms described herein.
Settlement:	longer than three months less than the Swap Tenor. The Swaption will be Physically Settled and, if exercised, will result in the parties entering into a swap

CDS Index Contract – European Crossover 5Y Swaps and Swaptions

ISDA Definitions (2003 v. 2014 Credit Derivatives	
Definitions):	
2003 Definitions:	ISDA has published 2014 Credit Derivatives Definitions, which alter the treatment accorded certain events, particularly as relates to sovereigns and financials and certain "orphan" CDS (Reference Entities with no deliverable obligations).
Index Sponsor:	Markit, which sponsors the Index, has published information on treatment of both legacy and future indices. The parties should consult Markit's documentation to determine the exact treatment. It is the SEF's understanding that, in general, all CDS index trades will convert to the 2014 Definitions, with individual components being excluded if they would be impacted by the differences between the two.
Cleared Transactions:	Transactions intended to be cleared will use the Definitions required by the relevant DCO selected by the parties. The parties should consult the relevant DCO's documentation to determine the exact treatment. It is the SEFs understanding that the DCOs will be converting all trades to the 2014 definitions, with individual component excluded as describe above.
Choice of Definitions:	The parties can elect which Definitions to use as part of their Confirmation process. However, this may limit clearability and result in creation of a bespoke Index transaction.

CDS Index Contract – European HiVol 5Y Swaps and Swaptions

Summary:	This covers "CDS Index Contract – European HiVol 5Y
Summary.	Swaps and Swaptions" $-i.e.$, an agreement to buy or sell
	protection on a basket comprised of 30 equally weighted
	credit default swaps on the widest spread non-financial
	European corporate entities.
Index:	ITRAXX.EUROPE HIVOL: Series 10 to current.
Currency:	EUR
Quoting Convention and Minimum Increment:	As agreed by counterparties.
Minimum Size:	As agreed by counterparties.
Trading Conventions:	Buy = Buy Protection, the buyer of protection pays a
Truming Conventions.	premium to the seller in case of a credit event occurring.
	Sell = Sell Protection, the seller of protection receives
	the premium payments from the protection buyer. The
	Seller owns the credit risk of the instrument.
Swap Conventions:	European crossover indices are traded on spread.
•	Fixed coupon payments are calculated at a spread of 100
	bps and exchanged on a quarterly basis.
Swap Tenor:	5Y
Effective Date:	The date on which parties begin calculating accrued
	obligations such as fixed payments. Also known as the
	start date of the swap.
Maturity Date:	The final date on which the obligations no longer accrue
	and the final payment occurs.
Trade Types:	The following swap types may be executed on the tpSEF
	Inc.:
	Outrights
	Roll Trades
	Curve Trades
Settlement:	Contingent payment - Payments related to credit event
	settlement will be determined pursuant to the 2009
	ISDA Credit Derivatives Determination Committees and
	Auction Settlement Supplement, (i.e., the Big Bang
	Protocol).
	Fixed Quarterly cash payments - reflected in basis points
	and paid by the protection buyer to the protection seller.
	Upfront fee payment - The upfront fee is a portion of the
	payments, expressed in percentage points of the notional, which is present valued and paid immediately
	to the seller.
Swaptions on the Above:	to the serier.
Swaptions:	The SEF is also listing Physically-Settled Swaptions on
o mapatons.	the Index on the terms described herein.
Swaption Option Style:	European; the Swaptions may be exercised only on
Zurran opun onju	expiration.
Swaption Tenor:	The tenor of the Swaptions will be selected by the
· · · · · · · · · · · · · · · · · · ·	parties and will be no shorter than three months and no
	longer than three months less than the Swap Tenor.
Settlement:	The Swaption will be Physically Settled and, if
	exercised, will result in the parties entering into a swap
	on the Index on the terms described herein.

CDS Index Contract – European HiVol 5Y Swaps and Swaptions

ISDA Definitions (2003 v. 2014 Credit Derivatives Definitions):	
2003 Definitions:	ISDA has published 2014 Credit Derivatives Definitions, which alter the treatment accorded certain events, particularly as relates to sovereigns and financials and certain "orphan" CDS (Reference Entities with no deliverable obligations).
Index Sponsor:	Markit, which sponsors the Index, has published information on treatment of both legacy and future indices. The parties should consult Markit's documentation to determine the exact treatment. It is the SEF's understanding that, in general, all CDS index trades will convert to the 2014 Definitions, with individual components being excluded if they would be impacted by the differences between the two.
Cleared Transactions:	Transactions intended to be cleared will use the Definitions required by the relevant DCO selected by the parties. The parties should consult the relevant DCO's documentation to determine the exact treatment. It is the SEFs understanding that the DCOs will be converting all trades to the 2014 definitions, with individual component excluded as describe above.
Choice of Definitions:	The parties can elect which Definitions to use as part of their Confirmation process. However, this may limit clearability and result in creation of a bespoke Index transaction.

CDS Index Contract – European IG 5Y Swaps and Swaptions

Cummony	This across "CDS Index Contract European IC 5V
Summary:	This covers "CDS Index Contract – European IG 5Y
	Swaps and Swaptions" – <i>i.e.</i> , an agreement to buy or sell
	protection on a basket of liquid European based entities
Tu Jour	with an investment grade credit rating. ITRAXX.EUROPE: Series 10 to current.
Index:	
Currency:	EUR
Quoting Convention and Minimum Increment:	As agreed by counterparties.
Minimum Size:	As agreed by counterparties.
Trading Conventions:	Buy = Buy Protection, the buyer of protection pays a
	premium to the seller in case of a credit event occurring.
	Sell = Sell Protection, the seller of protection receives
	the premium payments from the protection buyer. The
g	Seller owns the credit risk of the instrument.
Swap Conventions:	European IG indices are traded on spread.
	Fixed coupon payments are calculated at a spread of 100
C M	bps and exchanged on a quarterly basis.
Swap Tenor:	5Y
Effective Date:	The date on which parties begin calculating accrued
	obligations such as fixed payments. Also known as the
75 (1) 70 (start date of the swap.
Maturity Date:	The final date on which the obligations no longer accrue
	and the final payment occurs.
Trade Types:	The following swap types may be executed on the tpSEF
	Inc.:
	• Outrights
	Roll Trades
	Curve Trades
Settlement:	Contingent payment - Payments related to credit event
	settlement will be determined pursuant to the 2009
	ISDA Credit Derivatives Determination Committees and
	Auction Settlement Supplement, (i.e., the Big Bang
	Protocol).
	Fixed Quarterly cash payments - reflected in basis points
	and paid by the protection buyer to the protection seller.
	Upfront fee payment - The upfront fee is a portion of the
	payments, expressed in percentage points of the
	notional, which is present valued and paid immediately
Swantians on the Abaye.	to the seller.
Swaptions on the Above: Swaptions:	The SEF is also listing Physically-Settled Swaptions on
swapuolis.	the Index on the terms described herein.
Swaption Option Style:	European; the Swaptions may be exercised only on
5 wapuon Opuon Style.	expiration.
Swaption Tenor:	The tenor of the Swaptions will be selected by the
Swapholi Tellot.	parties and will be no shorter than three months and no
	longer than three months less than the Swap Tenor.
Settlement:	The Swaption will be Physically Settled and, if
Somement.	exercised, will result in the parties entering into a swap
	on the Index on the terms described herein.
	on the maca on the terms described herem.

CDS Index Contract – European IG 5Y Swaps and Swaptions

ISDA Definitions (2003 v. 2014 Credit Derivatives	
Definitions):	
2003 Definitions:	ISDA has published 2014 Credit Derivatives Definitions, which alter the treatment accorded certain events, particularly as relates to sovereigns and financials and certain "orphan" CDS (Reference Entities with no deliverable obligations).
Index Sponsor:	Markit, which sponsors the Index, has published information on treatment of both legacy and future indices. The parties should consult Markit's documentation to determine the exact treatment. It is the SEF's understanding that, in general, all CDS index trades will convert to the 2014 Definitions, with individual components being excluded if they would be impacted by the differences between the two.
Cleared Transactions:	Transactions intended to be cleared will use the Definitions required by the relevant DCO selected by the parties. The parties should consult the relevant DCO's documentation to determine the exact treatment. It is the SEFs understanding that the DCOs will be converting all trades to the 2014 definitions, with individual component excluded as describe above.
Choice of Definitions:	The parties can elect which Definitions to use as part of their Confirmation process. However, this may limit clearability and result in creation of a bespoke Index transaction.

CDS Index Contract – European IG 10Y Swaps and Swaptions

Summary:	This covers "CDS Index Contract – European IG 10Y
·	Swaps and Swaptions" $-i.e.$, an agreement to buy or sell
	protection on a basket of liquid European based entities
	with an investment grade credit rating.
Index:	ITRAXX.EUROPE: Series 7 to current.
Currency:	EUR
Quoting Convention and Minimum Increment:	As agreed by counterparties.
Minimum Size:	As agreed by counterparties.
Trading Conventions:	Buy = Buy Protection, the buyer of protection pays a
	premium to the seller in case of a credit event occurring.
	Sell = Sell Protection, the seller of protection receives
	the premium payments from the protection buyer. The
	Seller owns the credit risk of the instrument.
Swap Conventions:	European IG indices are traded on spread.
•	Fixed coupon payments are calculated at a spread of 100
	bps and exchanged on a quarterly basis.
Swap Tenor:	10Y
Effective Date:	The date on which parties begin calculating accrued
	obligations such as fixed payments. Also known as the
	start date of the swap.
Maturity Date:	The final date on which the obligations no longer accrue
·	and the final payment occurs.
Trade Types:	The following swap types may be executed on the tpSEF
	Inc.:
	Outrights
	Roll Trades
	Curve Trades
Settlement:	Contingent payment - Payments related to credit event
	settlement will be determined pursuant to the 2009
	ISDA Credit Derivatives Determination Committees and
	Auction Settlement Supplement, (i.e., the Big Bang
	Protocol).
	Fixed Quarterly cash payments - reflected in basis points
	and paid by the protection buyer to the protection seller.
	Upfront fee payment - The upfront fee is a portion of the
	payments, expressed in percentage points of the
	notional, which is present valued and paid immediately
	to the seller.
C	1
Swaptions on the Above:	The OFF is the living Disciplination of
Swaptions:	The SEF is also listing Physically-Settled Swaptions on the Index on the terms described herein.
Swantion Ontion Style:	
Swaption Option Style:	European; the Swaptions may be exercised only on
Swantian Tanor	expiration. The tener of the Swentions will be selected by the
Swaption Tenor:	The tenor of the Swaptions will be selected by the
	parties and will be no shorter than three months and no
	longer than three months less than the Swap Tenor.

CDS Index Contract – European IG 10Y Swaps and Swaptions

Settlement:	The Swaption will be Physically Settled and, if
	exercised, will result in the parties entering into a swap
	on the Index on the terms described herein.
ISDA Definitions (2003 v. 2014 Credit Derivatives	
Definitions):	
2003 Definitions:	ISDA has published 2014 Credit Derivatives
	Definitions, which alter the treatment accorded certain
	events, particularly as relates to sovereigns and
	financials and certain "orphan" CDS (Reference
	Entities with no deliverable obligations).
Index Sponsor:	Markit, which sponsors the Index, has published
	information on treatment of both legacy and future
	indices.
	The parties should consult Markit's documentation to
	determine the exact treatment. It is the SEF's
	understanding that, in general, all CDS index trades
	will convert to the 2014 Definitions, with individual
	components being excluded if they would be impacted
	by the differences between the two.
Cleared Transactions:	Transactions intended to be cleared will use the
	Definitions required by the relevant DCO selected by
	the parties.
	The parties should consult the relevant DCO's
	documentation to determine the exact treatment. It is
	the SEFs understanding that the DCOs will be
	converting all trades to the 2014 definitions, with
	individual component excluded as describe above.
Choice of Definitions:	The parties can elect which Definitions to use as part of
	their Confirmation process. However, this may limit
	clearability and result in creation of a bespoke Index
	transaction.

CDS Index Contract – North America Investment Grade and High Yield Swaps and Swaptions

Contract Overview:	An agreement to buy or sell protection on a basket of liquid North America based entities with a high yield credit rating (CDX.NA.HY, CDX.NA.HY.B and CDX.NA.HY.BB) or an investment grade credit rating (CDX.NA.IG).
Index:	CDX.NA.HY: Series 8 to current.
	CDX.NA.HY.B: Series 8 to current.
	CDX.NA.HY.BB: Series 8 to current.
	CDX.NA.IG: Series 8 to current.
Currency:	USD
Quoting Convention and Minimum Increment:	As agreed by counterparties.
Minimum Size:	As agreed by counterparties.
Trading Conventions:	Buy = Buy Protection, the buyer of protection pays a premium to the seller in case of a credit event occurring. Credit events include Bankruptcy, Failure to Pay and Restructuring.
	Sell = Sell Protection, the seller of protection receives the premium payments from the protection buyer. The Seller owns the credit risk of the instrument.
	High Yield indices such as the CDX.NA.HY are traded on price.
	Investment Grade indices such as the CDX.NA.IG are traded on spread.
Swap Conventions:	For CDX.NA.HY, CDX.NA.HY.B and CDX.NA.HY.BB, fixed coupon payments are calculated at a spread of 500 bps and exchanged on a quarterly basis.
	For CDX.NA.IG, fixed coupon payments are calculated at a spread of 100 bps and exchanged on a quarterly basis.
Swap Tenor:	3Y, 5Y, 7Y and 10Y or as otherwise agreed by the parties.
Tranching:	Transactions may have only one tranche, where all losses are allocated to the protection seller, starting with the first dollar of loss and ending only when the entire notional of the transaction has been exhausted or the Transaction itself expires.
	Transactions may also be tranched in a way in which losses are allocated to the protection seller only after a certain amount of losses have occurred on the Index (the "attachment point") and cease being allocated to the protection seller after a certain additional amount of losses have occurred on the Index (the "detachment

	point").	
		ransactions in the CDX.NA.HY, I.NA.HY.BB, the tranches
	Attachment Point	Detachment Point
	0	10%
	0	15%
	10%	15%
	15%	25%
	25%	35%
	35%	100%
	In the case of tranched to the tranches include:	ransactions in the CDX.NA.IG,
	Attachment Point	Detachment Point
	0	3%
	3%	7%
	7%	10%
	7%	15%
	10%	15%
	15%	30%
	15%	100%
	In addition to the custom the parties may agree to detachment points.	nary tranches enumerated above, custom attachment and
Effective Date:		es begin calculating accrued I payments. Also known as the
Maturity Date:	The final date on which and the final payment oc	the obligations no longer accrue ccurs.
Trade Types:	The following swap type	es may be executed on the SEF:
	Outrights	
	Roll Trades	
	Curve Trades	
Settlement:		ayments related to credit event nined pursuant to the relevant elow).
		yments - reflected in basis points on buyer to the protection seller.
	payments, expressed in p	he upfront fee is a portion of the percentage points of the nt valued and paid immediately

	to the seller.
Swaptions on the Above	
Swaptions:	The SEF is also listing Physically-Settled Swaptions on each of the CDX.NA.HY, CDX.NA.HY.B, CDX.NA.HY.BB and CDX.NA.IG on the terms described herein.
Swaption Option Style:	European; the Swaptions may be exercised only on expiration.
Swaption Tenor:	The tenor of the Swaptions will be selected by the parties and will be no shorter than three months and no longer than three months less than the Swap Tenor.
Settlement:	The Swaption will be Physically Settled and, if exercised, will result in the parties entering into a swap on the Index on the terms described herein.
Tranching:	Swaptions may be written on tranched or untranched transactions.
ISDA Definitions (2003 v. 2014 Credit Derivatives Definitions)	
2014/2003 Definitions:	ISDA has published 2014 Credit Derivatives Definitions, which alter the treatment accorded certain events, particularly as relates to sovereigns and financials and certain "orphan" CDS (Reference Entities with no deliverable obligations).
Index Sponsor:	IHS Markit Ltd, which sponsors the Index, has published information on treatment of both legacy and future indices.
	The parties should consult IHS Markit Ltd's documentation to determine the exact treatment. It is the SEF's understanding that, in general, all CDS index trades will convert to the 2014 Definitions, with individual components being excluded if they would be impacted by the differences between the two.
Cleared Transactions:	Transactions intended to be cleared will use the Definitions required by the relevant DCO selected by the parties.
	The parties should consult the relevant DCO's documentation to determine the exact treatment. It is the SEFs understanding that the DCOs will be converting all trades to the 2014 definitions, with individual component excluded as describe above.
Choice of Definitions:	The parties can elect which Definitions to use as part of their Confirmation process. However, this may limit clearability and result in creation of a bespoke Index transaction.

CDS Index Contracts - CMBX

Summary:	This covers uncleared credit default swaps on IHS Markit Ltd's "CMBX Indices" ("CDS Index Contracts – CMBX"). The terms under which CDS Index Contracts – CMBX may be traded are shown below.	
Contract Overview:	An agreement to buy or sell protection on one of the IHS Markit Ltd CMBX Indices listed under the heading "Index" immediately below. Each such index is composed of twenty-five (25) equally-weighted reference obligations that are tranches of commercial mortgage-backed securities offerings that meet the relevant eligibility criteria published by IHS Markit Ltd from time to time.	
Index:	CMBX.NA.AAA: Series 6 to current.	
	CMBX.NA.AS: Series 6 to current.	
	CMBX.NA.AA: Series 6 to current.	
	CMBX.NA.A: Series 6 to current.	
	CMBX.NA.BBB-: Series 6 to current.	
	CMBX.NA.BB: Series 6 to current.	
Currency:	USD	
Quoting Convention and Minimum Increment:	As agreed by counterparties.	
Minimum Size:	As agreed by counterparties.	
Trading Conventions:	Buy = Buy Protection, the buyer of protection pays a premium to the seller and receives a payment from the seller of protection in the case of a credit event occurring.	
	Sell = Sell Protection, the seller of protection receives the premium payments from the protection buyer and makes a payment to the buyer of protection in the case of a credit event occurring. The Seller owns the credit risk of the instrument.	
	The indices are traded on spread.	
Swap Conventions:	Fixed coupon payments are calculated at the applicable spread specified below:	
	• CMBX.NA.AAA: 50 bps	
	• CMBX.NA.AS: 100 bps	
	• CMBX.NA.AA: 150 bps	
	CMBX.NA.A: 200 bps	
	CMBX.NA.BBB-: 300 bps	
	CMBX.NA.BB: 500 bps	
	Fixed coupon payments are exchanged on a monthly basis.	

Swap Tenor:	As agreed by counterparties, subject to applicable law.
Effective Date:	The date (to be agreed by the counterparties) on which parties begin calculating accrued obligations such as fixed payments. Also known as the start date of the swap.
Maturity Date:	The final date (to be agreed by the counterparties) on which the obligations no longer accrue and the final payment occurs.
Trade Types:	The following swap types may be executed on tpSEF Inc.:
	• Outrights
	Roll Trades
Settlement:	Contingent Payment: Payments related to credit event settlement will be determined pursuant to the 2014 ISDA Credit Derivatives Definitions as published by the International Swaps and Derivatives Association, Inc. Such payments are paid by the protection seller to the protection buyer.
	<u>Fixed Monthly Cash Payments</u> : Reflected in basis points and paid by the protection buyer to the protection seller.
	<u>Upfront Fee Payment</u> : The upfront fee is a portion of the payments, expressed in percentage points of the notional, which is present valued and paid at the inception of the Contract by the protection buyer to the protection seller.

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CDS Index Contracts – iTraxx Australia

Summary:	This covers uncleared credit default swaps on IHS Markit Ltd's "iTraxx® Australia Index" ("CDS Index Contracts – iTraxx Australia"). The terms under which CDS Index Contracts – iTraxx Australia may be traded are shown below.
Contract Overview:	An agreement to buy or sell protection on an index composed of twenty five (25) liquid Australian entities with investment grade credit ratings that trade in the CDS market or have significant domestic bond issuance as published by IHS Markit Ltd. from time to time.
Index:	iTraxx® Australia Index: Series 30 to current.
Currency:	USD
Quoting Convention and Minimum Increment:	As agreed by counterparties.
Minimum Size:	As agreed by counterparties.
Trading Conventions:	Buy = Buy Protection, the buyer of protection pays a premium to the seller in case of a credit event occurring.
	Sell = Sell Protection, the seller of protection receives the premium payments from the protection buyer. The Seller owns the credit risk of the instrument.
	The indices are traded on spread.
Swap Conventions:	Fixed coupon payments are calculated at a spread of 100 bps and exchanged on a quarterly basis.
Swap Tenor:	As agreed by counterparties, subject to Applicable Law.
Effective Date:	The date (to be agreed by the counterparties) on which parties begin calculating accrued obligations such as fixed payments. Also known as the start date of the swap.
Maturity Date:	The final date (to be agreed by the counterparties) on which the obligations no longer accrue and the final payment occurs.
Trade Types:	The following swap types may be executed on tpSEF Inc.: Outrights Roll Trades Curve Trades
Settlement:	Contingent Payment: Payments related to credit event settlement will be determined pursuant to the 2014 ISDA Credit Derivatives Definitions as published by the International Swaps and Derivatives Association, Inc.
	<u>Fixed Quarterly Cash Payments</u> : Reflected in basis points and paid by the protection buyer to the protection seller.

CDS Index Contracts – iTraxx Australia

Contract by the protection buyer to the protection seller.
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CDS Index Contracts – iTraxx Japan

Summary:	This covers uncleared credit default swaps on IHS Markit Ltd's "Markit iTraxx® Japan Index" ("CDS Index Contracts – iTraxx Japan"). The terms under which CDS Index Contracts – iTraxx Japan may be traded are shown below.
Contract Overview:	An agreement to buy or sell protection on an index composed of forty (40) Japanese entities with investment grade credit ratings that trade in the CDS market as published by IHS Markit Ltd. from time to time.
Index:	Markit iTraxx® Japan Index: Series 30 to current.
Currency:	JPY
Quoting Convention and Minimum Increment:	As agreed by counterparties.
Minimum Size:	As agreed by counterparties.
Trading Conventions:	Buy = Buy Protection, the buyer of protection pays a premium to the seller in case of a credit event occurring.
	Sell = Sell Protection, the seller of protection receives the premium payments from the protection buyer. The Seller owns the credit risk of the instrument.
	The indices are traded on spread.
Swap Conventions:	Fixed coupon payments are calculated at a spread of 100 bps and exchanged on a quarterly basis.
Swap Tenor:	As agreed by counterparties, subject to Applicable Law.
Effective Date:	The date (to be agreed by the counterparties) on which parties begin calculating accrued obligations such as fixed payments. Also known as the start date of the swap.
Maturity Date:	The final date (to be agreed by the counterparties) on which the obligations no longer accrue and the final payment occurs.
Trade Types:	The following swap types may be executed on tpSEF Inc.:
	Outrights
	Roll Trades
	Curve Trades
Settlement:	Contingent Payment: Payments related to credit event settlement will be determined pursuant to the 2014 ISDA Credit Derivatives Definitions as published by the International Swaps and Derivatives Association, Inc.
	<u>Fixed Quarterly Cash Payments</u> : Reflected in basis points and paid by the protection buyer to the protection seller.
	<u>Upfront Fee Payment</u> : The upfront fee is a portion of the

payments, expressed in percentage points of the notional,
which is present valued and paid at the inception of the
Contract by the protection buyer to the protection seller.

CDS Index Contracts – ITRXAEJ.IG (iTraxx® Asia ex-Japan Investment Grade)

Summary:	This covers "CDS Index Contracts – ITRXAEJ.IG
Summary.	(iTraxx® Asia ex-Japan Investment Grade)" – <i>i.e.</i> , an
	agreement to buy or sell protection on a broad-based
	basket of investment grade Asian corporate and
T., J.,	sovereign/agency issuers (excluding Japanese issuers).
Index:	ITRXAEJ.IG (iTraxx® Asia ex-Japan Investment
	Grade): Series 14 through current, so long as such Index
	is not a narrow-based Index.
Currency:	USD
Quoting Convention and Minimum Increment:	As agreed by counterparties.
Minimum Size:	As agreed by counterparties.
Trading Conventions:	Buy = Buy Protection, the buyer of protection pays a
	premium to the seller in case of a credit event occurring.
	Credit events include Bankruptcy and Failure to Pay.
	Sell = Sell Protection, the seller of protection receives
	the premium payments from the protection buyer. The
	Seller owns the credit risk of the instrument.
	Investment Grade indices are traded on spread.
Swap Conventions:	Fixed coupon payments are calculated at a spread of 100
	bps and exchanged on a quarterly basis.
Swap Tenor:	As agreed by the parties, subject to Applicable Law.
Effective Date:	The date on which parties begin calculating accrued
	obligations such as fixed payments. Also known as the
	start date of the swap.
Maturity Date:	The final date on which the obligations no longer accrue
,	and the final payment occurs.
Trade Types:	The following swap types may be executed on tpSEF
	Inc.:
	Outrights
	Roll Trades
	Curve Trades
Settlement:	Contingent payment - Payments related to credit event
Settlement.	settlement will be determined pursuant to the 2003
	ISDA Credit Derivatives Definitions, as modified by the
	2009 ISDA Credit Derivatives Detrinitions, as modified by the
	Committees and Auction Settlement Supplement (i.e.,
	the Big Bang and Little Bang Protocols) and the ISDA
	2014 Credit Derivatives Protocol (for Series 21 and
	prior) and the ISDA 2014 Definitions (for Series 22 and
	later).
	Fixed Quarterly cash payments - reflected in basis points
	and paid by the protection buyer to the protection seller.
	Upfront payment - The upfront payment is a portion of
	the payments, expressed in percentage points of the
	notional, which is present valued and paid immediately
	to the seller.

CDS Index Contracts – MCDX Index

Summary:	This covers uncleared credit default swaps on IHS Markit Ltd's MCDX Index ("CDS Index Contracts – MCDX Index"). The terms under which CDS Index Contracts – MCDX Index may be traded are shown below.		
Contract Overview:	Until October 2018, an agreement to buy or sell protection on a broad-based index composed of fifty (50) municipal credits.		
	Beginning with MCDX.NA Series 31 in October 2018, an agreement to buy or sell protection on a broad-based index composed of twenty (20) municipal credits.		
Index:	MCDX: all series		
Currency:	USD		
Quoting Convention and Minimum Increment:	As agreed by counterparties.		
Minimum Size:	As agreed by counterparties.		
Trading Conventions:	Buy = Buy Protection, the buyer of protection pays a premium to the seller in case of a credit event occurring. Credit events include "Bankruptcy" and "Failure to Pay."		
	Sell = Sell Protection, the seller of protection receives the premium payments from the protection buyer. The Seller owns the credit risk of the instrument.		
	MCDX indices are traded on spread.		
Swap Conventions:	Fixed coupon payments are calculated at a spread of 100 bps coupon and exchanged on a quarterly basis at 75% recovery.		
Swap Tenor:	3 years, 5 years, 10 years		
Effective Date:	The date (to be agreed by the counterparties) on which parties begin calculating accrued obligations such as fixed payments. Also known as the start date of the swap.		
Maturity Date:	The final date (to be agreed by the counterparties) on which the obligations no longer accrue and the final payment occurs.		
Trade Types:	The following swap types may be executed on tpSEF Inc.: Outrights Roll Trades Curve Trades		

Settlement:	Contingent Payment: Payments related to credit event
	settlement will be determined pursuant to the 2003 ISDA
	Credit Derivatives Definitions, as modified by the 2009
	ISDA Credit Derivatives Determinations Committees
	and Auction Settlement Supplement thereto.
	<u>Fixed Quarterly Cash Payments</u> : Reflected in basis points and paid by the protection buyer to the protection seller.
	<u>Upfront Fee Payment</u> : The upfront fee is a portion of the payments, expressed in percentage points of the notional, which is present valued and paid immediately to the seller.

Commodity Index Swaps

Summary:	This covers commodity index swaps (each, a		
	"Commodity Index Swap").		
Incorporated Standards:	This contract description incorporates by reference the		
	following industry standard documentation and		
	standards:		
	2005 ISDA Commodity Derivatives Definitions ("Commodity Definitions")		
Product Type/ISDA OTC Taxonomy:	(Commodity Definitions)		
ISDA OTC Asset Class:	Commodity		
ISDA OTC Base Product:	Index		
ISDA OTC Transaction type:	Swap		
ISDA OTC Settlement type:	Cash		
Terms:	Cusii		
Trade Date:	The date on which the contract is entered into.		
Effective Date:	As specified by the parties.		
Termination Date:	As specified by the parties.		
Commodity:	The index specified by the parties from among the		
	indices listed in the table below titled "Commodity Index		
	Swap Available Indices."		
Total Notional Quantity:	The sum of the Notional Quantities per Calculation		
	Period.		
Notional Quantity per Calculation Period:	As specified by the parties on a per-Calculation-Period		
	Basis.		
Calculation Periods:	As specified by the parties.		
Payment Dates:	In relation to each Calculation Period, as specified by the		
•	parties.		
Business Day Convention:	As specified by the parties.		
Fixed Amount:			
Fixed Price Payer:	As specified by the parties.		
Fixed Price or Fixed Amount:	As specified by the parties, expressed as a rate or overall.		
Floating Amount:			
Floating Price Payer:	As specified by the parties.		
Floating Price:	In relation to each Calculation Period, the level of the		
	specified Available Commodity Index at the end of the		
	such Calculation Period less the level of the specified		
	Available Commodity Index at the start of the such		
	Calculation Period, the result of which is divided by the		
	level of the specified Available Commodity Index at the		
Marilant Diamantian	start of the such Calculation Period.		
Market Disruption:	Unless otherwise smooified by the marking and the		
Market Disruption Events:	Unless otherwise specified by the parties, per the		
Additional Market Disruption Events:	Commodity Definitions.		
Consequences of Market Disruption Events:	As specified by the parties. Unless otherwise specified by the parties, per the		
Consequences of ivialiset Disruption Events:	Commodity Definitions.		
Disruption Fallbacks:	Unless otherwise specified by the parties, per the		
Distuption Panoacks.	Commodity Definitions.		
Fallback Reference Price:	None, unless specified by the parties.		
Maximum Days of Disruption:	Unless otherwise specified by the parties, per the		
Maximum Days of Distuption.	Commodity Definitions.		
	Commonly Deminions.		

Minimum and Incremental Price:		The minimum price is \$10,000,000 and the minimum	
		incremental price is \$1,000,000.	
	Calculation Agent:	As agreed by the parties.	

Commodity Index Swap Available Commodity Indices

Abbr	Name		
BCOM	BCOM ER		
BCOMF1	BCOM F1 ER		
BCOMF2	BCOM F2 ER		
BCOMF3	BCOM F3 ER		
BCOMF4	BCOM F4 ER		
BCOMF5	BCOM F5 ER		
BCOMF6	BCOM F6 ER		
BCOMAG	BCOM Agriculture ER		
BCOMEN	BCOM Energy ER		
BCOMGR	BCOM Grains ER		
BCOMIN	BCOM Industrial Metals ER		
BCOMLI	BCOM Livestock ER		
BCOMPE	BCOM Petroleum ER		
BCOMPR	BCOM Precious Metals ER		
BCOMSO	BCOM Softs ER		
BCOMXAG	BCOM ex-Agriculture ER		
BCOMXAL	BCOM ex-Agriculture and Livestock ER		
BCOMXE	BCOM ex-Energy ER		
BCOMXGR	BCOM ex-Grains ER		
BCOMXIM	BCOM ex-Industrial Metals ER		
BCOMXLI	BCOM ex-Livestock ER		
BCOMXPE	BCOM ex-Petroleum ER		
BCOMXPM	BCOM ex-Precious Metals ER		
BCOMXSO	BCOM ex-Softs ER		
BCOMAL	BCOM Aluminum ER		
BCOMCO	BCOM Brent Crude ER		
BCOMCC	BCOM Cocoa ER		
BCOMKC	BCOM Coffee ER		
BCOMHG	BCOM Copper ER		
BCOMCN	BCOM Corn ER		
BCOMCT	BCOM Cotton ER		
BCOMFC	BCOM Feeder Cattle ER		
BCOMGO	BCOM Gas Oil ER		
BCOMGC	BCOM Gold ER		
ВСОМНО	BCOM Heating Oil ER		
ВСОМРВ	BCOM Lead ER		
BCOMLH	BCOM Lean Hogs ER		
BCOMLC	BCOM Live Cattle ER		

Abbr	Name		
BCOMNG	BCOM Natural Gas ER		
BCOMNI	BCOM Nickel ER		
ВСОМОЈ	BCOM Orange Juice ER		
BCOMPA	BCOM Palladium ER		
BCOMPL	BCOM Platinum ER		
BCOMSI	BCOM Silver ER		
BCOMSM	BCOM Soybean Meal ER		
BCOMSM1	Bloomberg Soybean Meal Subindex 1 Month Forward		
ВСОМВО	BCOM Soybean Oil ER		
BCOMSY	BCOM Soybeans ER		
BCOMSB	BCOM Sugar ER		
BCOMSN	BCOM Tin ER		
BCOMRB	BCOM Unleaded Gas ER		
BCOMWH	BCOM Wheat ER		
BCOMKW	BCOM Kansas Wheat ER		
BCOMCL	BCOM WTI Crude Oil ER		
BCOMZS	BCOM Zinc ER		
BCOMAU	BCOM AUD ER		
BCOMEU	BCOM EUR ER		
BCOMGB	BCOM GBP ER		
ВСОМСН	BCOM CHF ER		
ВСОМЈҮ	BCOM JPY ER		
BCOMALC	BCOM Aluminum Capped ER		
BCOMKCC	BCOM Coffee Capped ER		
BCOMHGC	BCOM Copper Capped ER		
BCOMCLC	BCOM WTI Crude Oil Capped ER		
BCOMCNC	BCOM Corn Capped ER		
BCOMLCC	BCOM Cattle Capped ER		
BCOMCTC	BCOM Cotton Capped ER		
BCOMGCC	BCOM Gold Capped ER		
BCOMLHC	BCOM Lean Hogs Capped ER		
ВСОМНОС	BCOM Heating Oil Capped ER		
BCOMKWC	BCOM Kansas Wheat Capped ER		
BCOMCOC	BCOM Brent Crude Capped ER		
BCOMNGC	BCOM Natural Gas Capped ER		
BCOMNIC	BCOM Nickel Capped ER		
BCOMSYC	BCOM Soybeans Capped ER		
ВСОМВОС	BCOM Soybean Oil Capped ER		
BCOMSIC	BCOM Silver Capped ER		
BCOMSBC	BCOM Sugar Capped ER		
BCOMSMC	BCOM Soybean Meal Capped ER		
BCOMRBC	BCOM Unleaded Gas Capped ER		

Abbr	Name		
BCOMWHC	BCOM Wheat Capped ER		
BCOMZSC	BCOM Zinc Capped ER		
BCOMTR	BCOM TR		
BCOMF1T	BCOM F1 TR		
BCOMF2T	BCOM F2 TR		
BCOMF3T	BCOM F3 TR		
BCOMF4T	BCOM F4 TR		
BCOMF5T	BCOM F5 TR		
BCOMF6T	BCOM F6 TR		
BCOMRS	BCOM Roll Select		
DJCICN	Dow Jones Commodity Index Corn		
DJCISB	Dow Jones Commodity Index Sugar		
DJCILC	Dow Jones Commodity Index Live Cattle		
DJCIAW	Dow Jones Commodity Index All Wheat		
SPGCCI	S&P GSCI		
SPGCBO	S&P GSCI Soybean Oil		
SPGCBR	S&P GSCI Brent Crude		
SPGCCC	S&P GSCI Cocoa		
SPGCCL	S&P GSCI Crude Oil		
SPGCCN	S&P GSCI Corn		
SPGCCT	S&P GSCI Cotton		
SPGCFC	S&P GSCI Feeder Cattle		
SPGCGC	S&P GSCI Gold		
SPGCGO	S&P GSCI Gasoline		
SPGCHG	S&P GSCI North American Copper		
SPGCHO	S&P GSCI Heating Oil		
SPGCHU	S&P GSCI Unleaded Gasoline		
SPGCIA	S&P GSCI Aluminum		
SPGCIC	S&P GSCI Copper		
SPGCIK	S&P GSCI Nickel		
SPGCIL	S&P GSCI Lead		
SPGCIN	S&P GSCI Industrial Metals		
SPGCIZ	S&P GSCI Zinc		
SPGCKC	S&P GSCI Coffee		
SPGCKW	S&P GSCI Kansas Wheat		
SPGCLC	S&P GSCI Live Cattle		
SPGCLH	S&P GSCI Lean Hogs		
SPGCNG	S&P GSCI Natural Gas		
SPGCPA	S&P GSCI Palladium		
SPGCPL	S&P GSCI Platinum		
SPGCSB	S&P GSCI Sugar		
SPGCSI	S&P GSCI Silver		

Abbr	Name		
SPGCSO	S&P GSCI Soybeans		
SPGCWH	S&P GSCI Wheat		
SPGSES	S&P GSCI Enhanced Commodity		
SPGSSM	S&P GSCI Soybean Meal		
SPGCCIP	S&P GSCI ER		
SPGCBRP	S&P GSCI Brent Crude ER		
SPGCCCP	S&P GSCI Cocoa ER		
SPGCCLP	S&P GSCI Crude Oil ER		
SPGCCNP	S&P GSCI Corn ER		
SPGCCTP	S&P GSCI Cotton ER		
SPGCENP	S&P GSCI Energy ER		
SPGCFCP	S&P GSCI Feeder Cattle ER		
SPGCGCP	S&P GSCI Gold ER		
SPGCGOP	S&P GSCI Gasoil ER		
SPGCHGP	S&P GSCI North American Copper ER		
SPGCHOP	S&P GSCI Heating Oil ER		
SPGCHUP	S&P GSCI Unleaded Gasoline ER		
SPGCIAP	S&P GSCI Aluminum ER		
SPGCICP	S&P GSCI Copper ER		
SPGCIKP	S&P GSCI Nickel ER		
SPGCILP	S&P GSCI Lead ER		
SPGCINP	S&P GSCI Industrial Metals ER		
SPGCNGP	S&P GSCI Natural Gas ER		
SG3MCI	S&P GSCI 3 Month Forward		

Deliverable Foreign Exchange Options

Summary:	This covers "Deliverable Foreign Exchange Options".
Incorporated Standards:	This contract description incorporates by reference the following industry standard documentation and standards:
	(a) the 1998 FX and Currency Option Definitions, as amended and supplemented from time to time, including the 2005 Barrier Option Supplement to the 1998 FX and Currency Option Definitions (the "1998 Definitions"); and
	(b) ISDA OTC Taxonomies.
Contract Types:	Each Deliverable Foreign Exchange Option traded is bespoke and the terms agreed between the Buyer and Seller. All option strategies result in call options and/or put options executed with the following strategies traded as agreed between the parties:
	Vanilla: Outright Call / Put, Straddle, Strangle, Butterfly, Risk Reversal, Calendar (tenor) spread, Cross Currency Spread, Condor, Call Spread, Put Spread, Live Trading with no delta hedge.
	Exotic: Barriers, Baskets, Digitals (or Binary), Knockins, Knockouts, Reverse Knockins/Kockouts, No Touch, Double No Touch, Average Price, Worst of Options, Compound Options; trades may be with or without delta hedges and some structures may also be bilaterally negotiated with additional options as part of the package to form a vega hedge.
Product Type/ISDA OTC Taxonomy:	
ISDA OTC Asset Class:	Foreign Exchange
ISDA OTC Base Product:	Vanilla Option, Simple Exotic or Complex Exotic
Terms:	
Trade Date:	The date the transaction is agreed between and becomes legally binding on the parties.
Commencement Date:	The Trade Date, unless otherwise specified by the parties. This applies only where the Currency Option Style is American.
Buyer:	As specified by the parties.
Seller:	As specified by the parties.
Currency Option Style:	As specified by the parties.
	(An American option can be exercised any time up to and including the Expiration Date; a European option can only be exercised on the Expiration Date.)
Currency Option Type:	A Call with respect to the Call Currency and a Put with respect to the Put Currency; Binary in the case of a binary

	or digital option.		
Call Currency:	The currency as specified by the parties from among those included in the list of available Currency Pairs.		
	The Put Currency and Call Currency must represent a traded pair included in the list of available Currency Pairs.		
Call Currency Amount:	As specified by the parties or, if not so specified, derived from the Put Currency Amount and Strike Price.		
Put Currency:	The currency as specified by the parties from among those included in the list of available Currency Pairs.		
	The Put Currency and Call Currency must represent a traded pair included in the list of available Currency Pairs.		
Put Currency Amount:	As specified by the parties or, if not so specified, derived from the Call Currency Amount and Strike Price.		
Strike Price:	As specified by the parties (if only one of the Put Currency or Call Currency is specified).		
	If no Strike Price is specified and Automatic Exercise is applicable, the Strike Price will be calculated using the Put Currency and Call Currency in order to determine if the option is to be automatically exercised.		
Reference Currency:	As specified by the parties.		
Settlement Currency:	As specified by the parties.		
Settlement Rate:	As specified by the parties or otherwise per the 1998 Definitions.		
Settlement Rate Option:	As specified by the parties.		
Expiration Date:	As specified by the parties.		
Expiration Time:	The time in the location specified by the parities.		
Latest Exercise Time:	The Expiration Time, unless otherwise specified by the parties. This applies only where the Currency Option Style is American.		
Automatic Exercise:	Applicable, unless otherwise specified by the parties.		
Settlement:	Deliverable or Cash Settlement		
Settlement Amount:	In the case of a digital or binary option, as specified by the parties.		
Settlement Date:	As specified by the parties.		
Valuation Date:	As specified by the parties.		
Averaging Dates:	As specified by the parties.		
Premium:	As specified by the parties.		
Premium Payment Date: As specified by the parties.			
Barrier Event: As specified by the parties.			

Deliverable Foreign Exchange Options

Calculation Agent:	As specified by the parties.
Business Day:	As specified by the parties.
Business Day Convention:	As specified by the parties.
Disruption Events:	As specified by the parties.
Disruption Fallbacks:	As specified by the parties for each applicable Disruption Event or otherwise per the 1998 Definitions.

Deliverable Foreign Exchange Option Available Currency Pairs

AUD/CAD	CNH/AUD	EUR/SAR	JPY/CNH	THB/HKD
AUD/CHF	CNH/CAD	EUR/SEK	JPY/HKD	THB/JPY
AUD/CNH	CNH/EUR	EUR/SGD	JPY/SGD	THB/NZD
AUD/HKD	CNH/GBP	EUR/THB	JPY/THB	THB/SGD
AUD/JPY	CNH/HKD	EUR/TRY	MXN/JPY	TRY/JPY
AUD/MXN	CNH/JPY	EUR/USD	NOK/JPY	USD/AED
AUD/NOK	CNH/NZD	EUR/ZAR	NOK/SEK	USD/BHD
AUD/NZD	CNH/SGD	GBP/AUD	NZD/CAD	USD/CAD
AUD/SEK	CNH/THB	GBP/CAD	NZD/CHF	USD/CHF
AUD/SGD	EUR/AED	GBP/CHF	NZD/CNH	USD/CNH
AUD/THB	EUR/AUD	GBP/CNH	NZD/HKD	USD/CZK
AUD/USD	EUR/BHD	GBP/HKD	NZD/JPY	USD/DKK
AUD/ZAR	EUR/CAD	GBP/JPY	NZD/NOK	USD/HKD
CAD/CHF	EUR/CHF	GBP/MXN	NZD/SEK	USD/HUF
CAD/CNH	EUR/CNH	GBP/NOK	NZD/SGD	USD/ILS
CAD/HKD	EUR/CZK	GBP/NZD	NZD/THB	USD/ISK
CAD/JPY	EUR/DKK	GBP/SEK	NZD/USD	USD/JPY
CAD/MXN	EUR/GBP	GBP/SGD	SEK/JPY	USD/KWD
CAD/NOK	EUR/HKD	GBP/THB	SGD/AUD	USD/MXN
CAD/SEK	EUR/HUF	GBP/TRY	SGD/CAD	USD/NOK
CAD/SGD	EUR/ILS	GBP/USD	SGD/CNH	USD/OMR
CAD/THB	EUR/ISK	GBP/ZAR	SGD/EUR	USD/PLN
CHF/CNH	EUR/JPY	HKD/AUD	SGD/GBP	USD/QAR
CHF/HKD	EUR/KWD	HKD/CAD	SGD/HKD	USD/RON
CHF/JPY	EUR/MXN	HKD/CHF	SGD/JPY	USD/RUB
CHF/MXN	EUR/NOK	HKD/CNH	SGD/NZD	USD/SAR
CHF/NOK	EUR/NZD	HKD/EUR	SGD/THB	USD/SEK

Deliverable Foreign Exchange Options

CHF/PLN	EUR/OMR	HKD/GBP	THB/AUD	USD/SGD
CHF/SEK	EUR/PLN	HKD/JPY	THB/CHF	USD/THB
CHF/SGD	EUR/QAR	HKD/NZD	THB/CNH	USD/TRY
CHF/THB	EUR/RON	HKD/SGD	THB/EUR	USD/ZAR
CHF/TRY	EUR/RUB	HKD/THB	THB/GBP	ZAR/JPY

Equity Index Swaps

Summary:	This covers equity index swaps (each, an "Equity Index Swap").
Limitations on Available Selections and Default Settings:	The terms under which an Equity Index Swap may be traded are shown below or in the attached tables.
	For amounts or rates, the relevant term cannot be less than the specified Minimum, must represent an even Increment and cannot exceed the Maximum; for a date, the date cannot be earlier than Earliest nor later than Latest.
	For Business Days, the defaults shall be the locations specified for the relevant currency, any additional locations specified for the relevant Floating Rate Options.
	The parties may add additional locations from the Available Locations and may eliminate some or all of the other locations, so long as there is at least one location in which payment may be made.
	For these purposes "TARGET" is considered a location.
	In many cases there are normal "vanilla" terms on which the parties will transact. These are shown as "Default" and will apply unless the parties vary them.
	It should be noted that these contracts can be traded in a variety of currencies. Since each national market has its own peculiarities, the "Available Terms" and/or "Default Terms" may vary by currency.
	In some cases, the same contract might have different terms depending on the market in which it is traded (<i>e.g.</i> , London versus NY). In that case the default settings may vary by market.
Incorporated Standards:	This contract description incorporates by reference the following industry standard documentation and standards:
	(a) 2006 ISDA Definitions(b) 2002 ISDA Equity Derivatives Definitions ("Equity
	Definitions") (c) Annex IS to 2009 Americas Master Equity
	Derivatives Confirmation, to 2007 European Master Equity Derivatives Confirmation Agreement (for EMEA indices, as indicated on the Equity Index Available Indices attached) or to Second Revised 2005 AEJ
	Interdealer Master Equity Derivatives Confirmation Agreement (for AEJ indices, as indicated on the Equity Index Available Indices attached) (d) the Revised ISDA AEJ Reference Price Source

	Matrix (June 25, 2009, or as updated effective prior to
	the Trade Date) ("AEJ Source")
	For convenience, certain terms are mapped to their
	FpML 5.5 equivalent.
Product Type/ISDA OTC Taxonomy:	
ISDA OTC Asset Class:	Equity
ISDA OTC Base Product:	Swap
ISDA OTC Sub-Product:	Price Return Basic Performance
ISDA OTC Transaction type:	Single Index
Further Limitations:	None
Terms:	
Trade Date:	As agreed by the parties.
Strike Date:	For a Forward Starting Transaction, as agreed by the
	parties (only for EMEA Indices).
Forward Starting:	As per Annex IS (only for EMEA Indices).
Notional Amount ("notional"):	An amount in one of the Available Currencies (see
	below) agreed by the parties.
Effective Date ("effectiveDate"):	(i) The date specified by the parties, adjusted in
	accordance with any applicable Business Day
	Convention, or (ii) in the case of AEJ Indices, per Annex IS.
Effective Date Business Days:	As specified by the parties from among the Available
	Business Days (except for AEJ Indices).
Effective Date Business Day Convention:	As specified by the parties from among the Available
	Business Day Conventions (except for AEJ Indices).
Termination Date ("terminationDate"):	Per Annex IS, unless otherwise specified by the parties.
Index:	As specified by the parties from among the Available
	Indices.
Number of Index Units:	As specified by the parties or, if not so specified,
	determined by Annex IS (except for AEJ Indices).
Index Unit:	Per Annex IS (except for AEJ Indices and EMEA
E1	Indices). (i) Per Annex IS, unless otherwise specified by the
Exchange(s):	•
	parties, or (ii) in the case of AEJ Indices, as specified by
Multiple Eychonge Index Appey/Component Sequeity	the parties. Per Annex IS (EMEA Indices only).
Multiple Exchange Index Annex/Component Security Index Annex:	Fer Aimex 13 (EMEA muices omy).
Related Exchanges:	(i) Per Annex IS, unless otherwise specified by the
Related Exchanges.	parties, or (ii) in the case of AEJ Indices, as specified by
	the parties.
Hedging Party:	(i) As specified by the parties, or (ii) in the case of AEJ
riedging raity.	Indices, per Annex IS.
Determining Party:	(i) As specified by the parties, or (ii) in the case of AEJ
Determining Farty.	Indices, per Annex IS.
Equity Amounts:	
Equity Amount Payer ("payerPartyReference"):	As specified by the parties.
Equity Notional Amount:	As specified by the parties.
Equity Notional Reset:	As per Annex IS.
Type of Return:	(i) As specified by the parties, or (ii) in the case of AEJ
\1. · · · · · · · · · · · · · · · · · · ·	Indices, per Annex IS unless specified by the parties.
Initial Price Election:	As specified by the parties (in the case of an EMEA
•	Index only).
Initial Price:	As specified by the parties and (other than in the case of
	AEJ Indices) adjusted in accordance with Annex IS.

Final Price Election:	As specified by the parties (in the case of an EMEA
	Index only).
Final Price:	(i) As per Annex IS, or (ii) in the case of AEJ Indices, as
	specified by the parties or, if not so specified, per the
	Equity Definitions.
Valuation Time:	(i) As per Annex IS, or (ii) in the case of AEJ Indices, as
	specified by the parties or, if not so specified, per the
	Equity Definitions.
Valuation Dates:	As specified by the parties.
Averaging Dates:	In the case of AEJ Indices, as and if specified by the parties.
Floating Amount:	parties.
Floating Rate Payer ("payerPartyReference"):	As specified by the parties.
Notional Amount ("notional Amount"):	(i) As per Annex IS, or (ii) in the case of AEJ Indices, as
Notional Amount (notional Amount):	
	specified by the parties or, if not so specified, per the
D (D)	Equity Definitions.
Payment Dates:	As per Annex IS, unless otherwise specified by the
T'' 1EL C. D.	parties.
Initial Floating Rate:	As specified by the parties.
Floating Rate Option ("floatingRateIndex"):	As specified by the parties.
Designated Maturity ("indexTenor"):	As specified by the parties.
Linear Interpolation:	For the Calculation Periods specified by the parties to the
	extent permitted by Annex IS.
Shorter Designated Maturity for Linear Interpolation:	For a Calculation Period to which Linear Interpolation
	applies, as specified by the parties.
Longer Designated Maturity for Linear Interpolation:	For a Calculation Period to which Linear Interpolation
	applies, as specified by the parties.
Spread:	As specified by the parties.
Day Count Fraction:	As specified by the parties.
Reset Dates ("resetDate"):	As per Annex IS.
Payment Dates Business Days:	As per Annex IS.
Business Days (Other Than Payment Dates):	As specified by the parties.
Business Day Convention (Other Than Payment Dates):	As per Annex IS, unless otherwise specified by the
•	parties.
Compounding:	As specified by the parties (EMEA Indices only).
Compounding Dates:	As specified by the parties if Compounding is applicable
1 0	(EMEA Indices only).
Futures Price Valuation:	
Futures Price Valuation:	(i) As per Annex IS, unless otherwise specified by the
	parties, or (ii) in the case of AEJ Indices, as specified by
	the parties or, if not so specified, per the Equity
	Definitions.
Exchange-traded Contract:	As specified in the Transaction Supplement.
Adjustment to Section 6.8 of the Equity Definitions:	As per Annex IS (other than in the case of AEJ Indices).
Settlement Terms:	and the control of th
Cash Settlement:	As per Annex IS.
Settlement Currency:	(i) As per Annex IS, or (ii) in the case of AEJ Indices, as
Somement Currency.	agreed by the parties.
FX Rate:	As agreed by the parties or as specified by the parties
171 1440.	from among the Available FX Rates.
	from among the rivandore i A Rates.

Dividends:	
Dividend Payment Date(s):	If type of return is "Total Return" (i) as per Annex IS
21/100/10 1 uj mono 2 uto(s).	unless otherwise agreed by the parties, or (ii) in the case
	of AEJ Indices, as agreed by the parties or, absent such
	agreement, per the Equity Definitions.
Dividend Period:	If type of return is "Total Return" (i) as per Annex IS, or
Dividend i criod.	(ii) in the case of AEJ Indices, as agreed by the parties
Dividend America	or, absent such agreement, per the Equity Definitions.
Dividend Amount:	If type of return is "Total Return" (i) as per Annex IS, or
	(ii) in the case of AEJ Indices, as agreed by the parties
D.1 D'.'1. 1	or, absent such agreement, per the Equity Definitions.
Relevant Dividend:	If type of return is "Total Return" (i) as per Annex IS, or
	(ii) in the case of AEJ Indices, as agreed by the parties
	or, absent such agreement, per the Equity Definitions.
Reinvestment of Dividends:	If type of return is "Total Return" (i) as per Annex IS, or
	(ii) in the case of AEJ Indices, as agreed by the parties.
Dividend Recovery:	If type of return is "Total Return" (i) as per Annex IS, or
	(ii) in the case of AEJ Indices, as agreed by the parties
	or, absent such agreement, per the Equity Definitions.
Declared Cash Dividend Percentage:	If type of return is "Total Return" (i) as per Annex IS
	unless otherwise agreed by the parties, (ii) in the case of
	AEJ Indices, as and if agreed by the parties, or (iii) in the
	case of EMEA Indices, as agreed by the parties.
Declared Cash Equivalent Dividend Percentage:	If type of return is "Total Return" (i) as per Annex IS
•	unless otherwise agreed by the parties, or (ii) in the case
	of AEJ Indices, as and if agreed by the parties.
Index Adjustment Events:	
Index Cancellation:	As per Annex IS.
Index Modification:	As per Annex IS.
Index Disruption:	As per Annex IS.
Additional Disruption Events:	
Change in Law:	(i) As agreed by the parties from among the provisions in
	Annex IS, or (ii) in the case of AEJ Indices, as per
	Annex IS unless otherwise agreed by the parties.
Insolvency Filing:	(i) As per Annex IS, or (ii) in the case of AEJ Indices, as
inservency runing.	agreed by the parties or, absent such agreement, per the
	Equity Definitions.
Hedging Disruption:	(i) As agreed by the parties from among the provisions in
Traging Disraption.	Annex IS, or (ii) in the case of AEJ Indices, as per
	Annex IS (as applicable to the relevant country of
	underlier) unless otherwise agreed by the parties.
Increased Cost of Hedging:	(i) As agreed by the parties from among the provisions in
mereascu Cost of Heuging.	Annex IS, or (ii) in the case of AEJ Indices, as agreed by
	the parties or, absent such agreement, per the Equity
Consequences of Hedeine Diemer's	Definition.
Consequences of Hedging Disruption:	(i) As agreed by the parties from among the provisions in
	Annex IS, or (ii) in the case of AEJ Indices, as agreed by
	the parties or, absent such agreement, per the Equity
	Definition.
Loss of Stock Borrow:	(i) As per Annex IS, unless otherwise specified by the
	parties, or (ii) in the case of AEJ Indices, as agreed by
	the parties or, absent such agreement, per the Equity
	Definition.

Increased Cost of Stock Borrow:	(i) As per Annex IS, unless otherwise specified by the
	parties, or (ii) in the case of AEJ Indices, as agreed by
	the parties or, absent such agreement, per the Equity
	Definition.
Cancellation Amount:	(i) As agreed by the parties from among the provisions in
	Annex IS, or (ii) in the case of AEJ Indices, as agreed by
	the parties or, absent such agreement, per the Equity
	Definition.
Non-Reliance:	As per Annex IS.
Agreements and Acknowledgements Regarding Hedging	As per Annex IS.
Activities:	
Additional Acknowledgements:	As per Annex IS.
Index Disclaimer:	As per Annex IS.
Optional Early Termination:	(i) As agreed by the parties from among the provisions in
	Annex IS, or (ii) in the case of AEJ Indices, inapplicable.
Break Funding Recovery:	If Optional Early Termination is applicable, as specified
	by the parties.
Break Fee:	As specified by the parties in the case of EMEA Indices.
Calculation Agent:	(i) As agreed by the parties, or (ii) in the case of AEJ
	Indices, per Annex IS unless otherwise agreed by the
	parties.

Equity Index Available Currencies and Required Business Days

Three Letter Currency Code (ISDA/ISO)	Currency Name (ISDA)	Basic Business Day Locations For Currency (FpML Codes)
AUD	Australian Dollar	AUSY
CAD	Canadian Dollar	CATO
EUR	Euro	EUTA
GBP	Sterling	GBLO
HKD	Hong Kong Dollar	НКНК
JPY	Japanese Yen	JPTO
KRW	Korean Won	KRSE
SEK	Swedish Krona	SEST
USD	United States Dollars	USNY

Equity Index Available Business Day Conventions

ISDA	A Name
Following	
Modified/Modified Following	
No Adjustment	
Preceding	
FRN Convention/Eurodollar Convention	

Equity Index Available Indices

Abbr	Name
AEX	AEX Index (EMEA)
AMZX	Alerian MLP Index Total Return
AMZIXVWAP	Alerian MLP Infrastructure Index Total Return VWAP
AS51	S&P/ASX 200 (AEJ)
BEL20	BEL20 Index (EMEA)
CAC	Cotation Assistée en Continu 40 (EMEA)

DAX	Deutscher Aktien Index (EMEA)
DJITR	Dow Jones Industrial Average Total Return
DJUSRE	Dow Jones U.S. Real Estate Index
EWTRGSPC	REUTERS – REU - S&P EW 500 INDEX
FTSEMIB	FTSE MIB Index (EMEA)
GCUDCA	MSCI Daily TR Gross Small Cap Canada USD
GCUDUS	MSCI Daily Total Return Gross Small Cap USA USD
GDDLCA	MSCI Canada Index CAD Total Return (Gross Dividends)
GDDUCA	MSCI Canada Index CAD Total Return (Gross Dividends) MSCI Canada Index USD Daily Total Return (Gross Dividends)
GDDUEAFE	MSCI EAFE Index Total Return (Gross Dividends)
	MSCI North American Index USD Total Return (Gross Dividends)
GDDUNA	MSCI US Index Total Return (Gross Dividends) MSCI US Index Total Return (Gross Dividends)
GDDUUS	,
HSCEI	Hang Seng China Enterprises Index (AEJ)
HSI	Hang Seng Index (AEJ)
IBEX	IBEX 35 Index(EMEA)
IBOV	BOVESPA Index
IXBTR	S&P 500 Material Select Sector Total Return
IXCPR	Communication Services Select Sector Index
IXCTR	Communication Services Select Sector Index TR
IXETR	S&P 500 Energy Select Sector Total Return
IXITR	S&P 500 Industrials Select Sector Total Return
IXMTR	S&P 500 Financials Select Sector Total Return
IXRTR	S&P 500 Consumer Staples Select Sector Total Return
IXTTR	S&P 500 Technology Select Sector Total Return
IXUTR	S&P 500 Utilities Select Sector Total Return
IXVTR	S&P 500 Health Care Select Sector Total Return
IXYTR	S&P 500 Consumer Discretionary Select Sector Total Return
KOSPI	Korea Composite Stock Price Index (AEJ)
M1CNA	MSCI China A Inclusion USD Index (Net)
MEXBOL	Mexican IPC Index (Indice de Precios y Cotizaciones)
MSLUELAN	MSCI Emerging Markets Latin America Small Cap Index (USD) (Net Dividends)
NDDLCA	MSCI Canada Index CAD Total Return (Net Dividends)
NDDUEAFE	MSCI EAFE Net Total Return USD Index
NDDUNA	MSCI North American Index USD Total Return (Net Dividends)
NDDUUS	MSCI US Index Total Return (Net Dividends)
NDDUJN	MSCI Japan Index Total Return (Net Dividends)
NDEUMXF	MSCI Mexico Index USD Total Return (Net Dividends)
NDEUSCH	MSCI Chile Index Total Return (Net Dividends)
NDEUSCO	MSCI Colombia Index Total Return (Net Dividends)
NDEUSPR	MSCI Peru Index Total Return (Net Dividends)
NDUEBRAF	MSCI Brazil Index USD Total Return (Net Dividends)
NDUEEGFL	MSCI Emerging Markets Latin America USD
NDX	NASDAQ-100
NKY	Nikkei 225 Index (AEJ)
OEXT	S&P 100 Total Return
OMX	OMX Stockholm 30 (EMEA)
RGUSFL	Russell 1000 Financial
RU10GRTR	Russell 1000 Growth Total Return
RU10INTR	Russell 1000 Total Return
RU10VATR	Russell 1000 Value Total Return
RU20GRTR	Russell 2000 Growth Total Return
RU20INTR	Russell 2000 Total Return
RU20VATR	Russell 2000 Value Total Return
NO20 TAIN	Russen 2000 Fund Total Return

SP5LVIT	S&P 500 Low Volatility Total Return Index
SPSIBITR	S&P Biotechnology Select Industry Total Return Index
SPSIOP	S&P Oil & Gas Exploration & Production Select Industry Index
SPTRCOND	S&P 500 Consumer Discretionary Sector Total Return Index
SPTRCONS	S&P 500 Consumer Staples Sector Total Return Index
SPTRENRS	S&P 500 Energy Sector Total Return Index
SPTRFINL	S&P 500 Financials Sector Total Return Index
SPTRHLTH	S&P 500 Health Care Sector Total Return Index
SPTRINDU	S&P 500 Industrials Sector Total Return Index
SPTRMATR	S&P 500 Materials Sector Total Return Index
SPTRMDCP	S&P MidCap 400 Total Return
SPTRRLST	S&P 500 Real Estate Sector Total Return Index
SPTRSMCP	S&P SmallCap 600 Total Return
SPTRSVX	S&P 500 Value Total Return Index
SPTRUTIL	S&P 500 Utilities Sector Total Return Index
SPXT	S&P 500 Total Return
STBANKXR	S&P/TSX Composite Banks GICS Level Industry Group Total Return Index
STCHEMR	S&P/TSX Composite Index Chemicals GICS Industry Total Return
STENRSR	S&P/TSX Composite Energy Index Total Return Swap
STFINLR	S&P/TSX Composite Financials GICS Level Sector Total Return Index
STINSUR	S&P/TSX Composite Insurance GICS Industry Group Total Return Index
STMEDAR	S&P/TSX Composite Media GICS Industry Group Total Return Index
STTELSR	S&P/TSX Composite Telecom Services GICS Level Sector Total Return Index
STUTILR	S&P/TSX Composite Utilities GICS Level Sector Total Return Index
SX5E	Eurostoxx 50 Index (EMEA)
TSX69	S&P/TSX 60 Index
TTENAR	S&P/TSX Capped Energy Total Return Index
UKX	FTSE 100 Index (EMEA)
XNDX	NASDAQ-100 Total Return
XSOX	PHLX Semiconductor Sector Index Total Return

Equity Index Available FX Rates

Currency Pair	Available FX Rates
KRW/USD	BB: The rate implied by sourcing the Index on
	Bloomberg via "KOSPI>USD>GO"
	ISDA: The rate determined in accordance with the AEJ
	Source

Equity Index Available Day Count Fractions

ISDA Name		
1/1		
30/360, 360/360, Bond Basis		
Actual/360		
Actual/365 (Fixed), Act/365 (Fixed), A/365 (Fixed), A/365F		
Actual/Actual, Actual/Actual (ISDA), Act/Act, Act/Act (ISDA)		
Actual/Actual (ICMA), Act/Act, Act/Act (ICMA)		

Equity Index Earliest and Latest Effective and Termination Dates

Currency	Earliest Effective	Latest Effective Date	Earliest Termination	Latest Termination
	Date		Date	Date
N/A	N/A	N/A	N/A	N/A

Equity Index Notional Amounts

Currency	Minimum	Increment	Maximum	Default
USD	10,000,000	1,000,000	N/A	N/A

Equity Index Floating Rate Options and Defaults

Floating Rate Option	Available Tenors	Default Tenor	Default Day Count Fraction	Additional Business Day Locations
AUD-AONIA-OIS-COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
AUD-AONIA-OIS-COMPOUND- SwapMarker	All quoted tenors	N/A	Per ISDA 2006	N
AUD-BBR-AUBBSW	All quoted tenors	N/A	Per ISDA 2006	N
AUD-BBR-BBSW	All quoted tenors	N/A	Per ISDA 2006	N
AUD-BBR-BBSW-Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
AUD-BBR-BBSY (BID)	All quoted tenors	N/A	Per ISDA 2006	N
AUD-BBR-ISDC	All quoted tenors	N/A	Per ISDA 2006	N
AUD-LIBOR-BBA	All quoted tenors	N/A	Per ISDA 2006	N
AUD-LIBOR-BBA-Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
AUD-LIBOR-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
AUD-Quarterly Swap Rate-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
AUD-Quarterly Swap Rate-ICAP- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
AUD-Semi-annual Swap Rate-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
AUD-Semi-Annual Swap Rate- ICAP-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
AUD-Swap Rate-Reuters	All quoted tenors	N/A	Per ISDA 2006	N
CAD-BA-CDOR	All quoted tenors	N/A	Per ISDA 2006	N
CAD-BA-CDOR-Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
CAD-BA-ISDD	All quoted tenors	N/A	Per ISDA 2006	N
CAD-BA-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
CAD-BA-Reuters	All quoted tenors	N/A	Per ISDA 2006	N
CAD-BA-Telerate	All quoted tenors	N/A	Per ISDA 2006	N
CAD-CORRA-OIS-COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
CAD-ISDA-Swap Rate	All quoted tenors	N/A	Per ISDA 2006	N
CAD-LIBOR-BBA	All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
CAD-LIBOR-BBA-Bloomberg	All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
CAD-LIBOR-BBA-SwapMarker	All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
CAD-LIBOR-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
CAD-REPO-CORRA	All quoted tenors	N/A	Per ISDA 2006	N

Floating Rate Option	Available Tenors	Default Tenor	Default Day Count Fraction	Additional Business Day Locations
CAD-TBILL-ISDD	All quoted tenors	N/A	Per ISDA 2006	N
CAD-TBILL-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
CAD-TBILL-Reuters	All quoted tenors	N/A	Per ISDA 2006	N
CAD-TBILL-Telerate	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-10:00	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-10:00- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-10:00-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-10:00- SwapMarker	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-11:00	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-11:00- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-11:00-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-11:00- SwapMarker	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-3 Month	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-3 Month- SwapMarker	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EONIA-AVERAGE	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EONIA-OIS-10:00- BGCANTOR	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EONIA-OIS-10:00-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EONIA-OIS-11:00-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EONIA-OIS-COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EONIA-OIS-COMPOUND-Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EONIA-Swap-Index	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EURIBOR-Act/365	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EURIBOR-Act/365- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EURIBOR-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EURIBOR-Reuters	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EURIBOR-Telerate	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EURONIA-OIS- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
EUR-ISDA-EURIBOR Swap Rate-11:00	All quoted tenors	N/A	Per ISDA 2006	N
EUR-ISDA-EURIBOR Swap Rate-12:00	All quoted tenors	N/A	Per ISDA 2006	N

Floating Rate Option	Available Tenors	Default Tenor	Default Day Count Fraction	Additional Business Day Locations
EUR-ISDA-LIBOR Swap Rate- 10:00	All quoted tenors	N/A	Per ISDA 2006	N
EUR-ISDA-LIBOR Swap Rate- 11:00	All quoted tenors	N/A	Per ISDA 2006	N
EUR-LIBOR-BBA	All quoted tenors	N/A	Per ISDA 2006	N
EUR-LIBOR-BBA-Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
EUR-LIBOR-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
EUR-TAM-CDC	All quoted tenors	N/A	Per ISDA 2006	N
EUR-TEC10-CNO	All quoted tenors	N/A	Per ISDA 2006	N
EUR-TEC10-CNO-SwapMarker	All quoted tenors	N/A	Per ISDA 2006	N
EUR-TEC10-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
EUR-TEC5-CNO	All quoted tenors	N/A	Per ISDA 2006	N
EUR-TEC5-CNO-SwapMarker	All quoted tenors	N/A	Per ISDA 2006	N
EUR-TEC5-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
EUR-TMM-CDC-COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
GBP USD-Basis Swaps-11:00- ICAP	All quoted tenors	N/A	Per ISDA 2006	N
GBP-ISDA-Swap Rate	All quoted tenors	N/A	Per ISDA 2006	N
GBP-LIBOR-BBA	All quoted tenors	N/A	Per ISDA 2006	N
GBP-LIBOR-BBA-Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
GBP-LIBOR-ISDA	All quoted tenors	N/A	Per ISDA 2006	N
GBP-LIBOR-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
GBP-Semi-Annual Swap Rate	All quoted tenors	N/A	Per ISDA 2006	N
GBP-Semi-Annual Swap Rate- 11:00-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
GBP-Semi-Annual Swap Rate- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
GBP-SONIA-OIS-11:00-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
GBP-WMBA-RONIA- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
GBP-WMBA-SONIA- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
GRD-ATHIBOR-ATHIBOR	All quoted tenors	N/A	Per ISDA 2006	N
GRD-ATHIBOR-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
GRD-ATHIBOR-Telerate	All quoted tenors	N/A	Per ISDA 2006	N
GRD-ATHIMID-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
GRD-ATHIMID-Reuters	All quoted tenors	N/A	Per ISDA 2006	N
HKD-HIBOR-HIBOR-Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
HKD-HIBOR-HIBOR=	All quoted tenors	N/A	Per ISDA 2006	N
HKD-HIBOR-HKAB	All quoted tenors	N/A	Per ISDA 2006	N
HKD-HIBOR-HKAB-Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
HKD-HIBOR-ISDC	All quoted tenors	N/A	Per ISDA 2006	N

Floating Rate Option	Available Tenors	Default Tenor	Default Day Count Fraction	Additional Business Day Locations
HKD-HIBOR-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
HKD-HONIX-OIS-COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
HKD-ISDA-Swap Rate-11:00	All quoted tenors	N/A	Per ISDA 2006	N
HKD-ISDA-Swap Rate-4:00	All quoted tenors	N/A	Per ISDA 2006	N
HKD-Quarterly-Annual Swap Rate-11:00-BGCANTOR	All quoted tenors	N/A	Per ISDA 2006	N
HKD-Quarterly-Annual Swap Rate-4:00-BGCANTOR	All quoted tenors	N/A	Per ISDA 2006	N
HKD-Quarterly-Annual Swap Rate-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
JPY-BBSF-Bloomberg-10:00	All quoted tenors	N/A	Per ISDA 2006	N
JPY-BBSF-Bloomberg-15:00	All quoted tenors	N/A	Per ISDA 2006	N
JPY-ISDA-Swap Rate-10:00	All quoted tenors	N/A	Per ISDA 2006	N
JPY-ISDA-Swap Rate-15:00	All quoted tenors	N/A	Per ISDA 2006	N
JPY-LIBOR-BBA	All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
JPY-LIBOR-BBA-Bloomberg	All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
JPY-LIBOR-FRASETT	All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
JPY-LIBOR-ISDA	All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
JPY-LIBOR-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
JPY-MUTANCALL-TONAR	All quoted tenors	N/A	Per ISDA 2006	N
JPY-OIS-11:00-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
JPY-TIBOR-17096	All quoted tenors	N/A	Per ISDA 2006	N
JPY-TIBOR-17097	All quoted tenors	N/A	Per ISDA 2006	N
JPY-TIBOR-TIBM (10 Banks)	All quoted tenors	N/A	Per ISDA 2006	N
JPY-TIBOR-TIBM (5 Banks)	All quoted tenors	N/A	Per ISDA 2006	N
JPY-TIBOR-TIBM (All Banks)	All quoted tenors	N/A	Per ISDA 2006	N
JPY-TIBOR-TIBM (All Banks)- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
JPY-TIBOR-TIBM-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
JPY-TIBOR-ZTIBOR	All quoted tenors	N/A	Per ISDA 2006	N
JPY-TONA-OIS-COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
JPY-TSR-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
JPY-TSR-Reuters-10:00	All quoted tenors	N/A	Per ISDA 2006	N
JPY-TSR-Reuters-15:00	All quoted tenors	N/A	Per ISDA 2006	N
JPY-TSR-Telerate-10:00	All quoted tenors	N/A	Per ISDA 2006	N
JPY-TSR-Telerate-15:00	All quoted tenors	N/A	Per ISDA 2006	N
KRW-CD-3220	All quoted tenors	N/A	Per ISDA 2006	N

Floating Rate Option	Available Tenors	Default Tenor	Default Day Count Fraction	Additional Business Day Locations
KRW-CD-KSDA-Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
KRW-Quarterly Annual Swap Rate-3:30-ICAP	3M	N/A	Per ISDA 2006	N
KRW-Bond-3222	3M	N/A	Per ISDA 2006	N
SEK-Annual Swap Rate	All quoted tenors	N/A	Per ISDA 2006	N
SEK-Annual Swap Rate-SESWFI	All quoted tenors	N/A	Per ISDA 2006	N
SEK-SIOR-OIS-COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
SEK-STIBOR-Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
SEK-STIBOR-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
SEK-STIBOR-SIDE	All quoted tenors	N/A	Per ISDA 2006	N
SEK-Annual Swap Rate	All quoted tenors	N/A	Per ISDA 2006	N
USD-Annual Swap Rate-11:00- BGCANTOR	All quoted tenors	N/A	Per ISDA 2006	N
USD-BA-H.15	All quoted tenors	N/A	Per ISDA 2006	N
USD-BA-Reference Dealers	All quoted tenors	N/A	Per ISDA 2006	N
USD-BMA Municipal Swap Index	All quoted tenors	N/A	Per ISDA 2006	N
USD-CD-H.15	All quoted tenors	N/A	Per ISDA 2006	N
USD-CD-Reference Dealers	All quoted tenors	N/A	Per ISDA 2006	N
USD-CMS-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
USD-CMS-Reference Banks- ICAP SwapPX	All quoted tenors	N/A	Per ISDA 2006	N
USD-CMS-Reuters	All quoted tenors	N/A	Per ISDA 2006	N
USD-CMS-Telerate	All quoted tenors	N/A	Per ISDA 2006	N
USD-CMT-T7051	All quoted tenors	N/A	Per ISDA 2006	N
USD-CMT-T7052	All quoted tenors	N/A	Per ISDA 2006	N
USD-COF11-FHLBSF	All quoted tenors	N/A	Per ISDA 2006	N
USD-COF11-Reuters	All quoted tenors	N/A	Per ISDA 2006	N
USD-COF11-Telerate	All quoted tenors	N/A	Per ISDA 2006	N
USD-CP-H.15	All quoted tenors	N/A	Per ISDA 2006	N
USD-CP-Reference Dealers	All quoted tenors	N/A	Per ISDA 2006	N
USD-Federal Funds-H.15	All quoted tenors	N/A	Per ISDA 2006	N
USD-Federal Funds-H.15- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
USD-Federal Funds-H.15-OIS- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
USD-Federal Funds-Reference Dealers	All quoted tenors	N/A	Per ISDA 2006	N
USD-FFCB-DISCO	All quoted tenors	N/A	Per ISDA 2006	N
USD-ISDA-Swap Rate	All quoted tenors	N/A	Per ISDA 2006	N
USD-ISDA-Swap Rate-3:00	All quoted tenors	N/A	Per ISDA 2006	N
USD-ISDAFIX3-Swap Rate	All quoted tenors	N/A	Per ISDA 2006	N
USD-ISDAFIX3-Swap Rate-3:00	All quoted tenors	N/A	Per ISDA 2006	N

Floating Rate Option	Available Tenors	Default Tenor	Default Day Count Fraction	Additional Business Day Locations
USD-LIBOR-BBA	All quoted tenors	N/A	Per ISDA 2006	N
USD-LIBOR-BBA-Bloomberg	All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
USD-LIBOR-ISDA	All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
USD-LIBOR-LIBO	All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
USD-LIBOR-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
USD-OIS-11:00-BGCANTOR	All quoted tenors	N/A	Per ISDA 2006	N
USD-OIS-11:00-LON-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
USD-OIS-11:00-NY-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
USD-OIS-3:00-BGCANTOR	All quoted tenors	N/A	Per ISDA 2006	N
USD-OIS-3:00-NY-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
USD-Prime-H.15	All quoted tenors	N/A	Per ISDA 2006	N
USD-Prime-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
USD-S&P Index-High Grade	All quoted tenors	N/A	Per ISDA 2006	N
USD-SIBOR-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
USD-SIBOR-SIBO	All quoted tenors	N/A	Per ISDA 2006	N
USD-SOFR-Compound	N/A	N/A	N/A	N
USD-SIFMA Municipal Swap Index	All quoted tenors	N/A	Per ISDA 2006	N
USD-TBILL-H.15	All quoted tenors	N/A	Per ISDA 2006	N
USD-TBILL-H.15-Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
USD-TBILL-Secondary Market	All quoted tenors	N/A	Per ISDA 2006	N
USD-TIBOR-ISDC	All quoted tenors	N/A	Per ISDA 2006	N
USD-TIBOR-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
USD-Treasury Rate-ICAP BrokerTec	All quoted tenors	N/A	Per ISDA 2006	N
USD-Treasury Rate- SwapMarker100	All quoted tenors	N/A	Per ISDA 2006	N
USD-Treasury Rate- SwapMarker99	All quoted tenors	N/A	Per ISDA 2006	N
USD-Treasury Rate-T19901	All quoted tenors	N/A	Per ISDA 2006	N
USD-Treasury Rate-T500	All quoted tenors	N/A	Per ISDA 2006	N

Equity Index Requirements and Defaults

Date	Requirement	Default
Effective Date Business Day		No Adjustment
Convention		
Designated Maturities for Linear		Tenors quoted next shorter and
Interpolation		longer than the actual Calculation
		Period length

Equity Index Variance Swaps

Summary/Contract Description:	This covers equity index variance swaps (each, an "Equity Index Variance Swap"). An Equity Index Variance Swap is a product used to hedge or take a direct view on the volatility of an underlying equity index by paying or receiving an amount based on the difference between the actual realized variance of an index over the life of the contract and the variance strike price agreed at contract inception.
Product Type/ISDA OTC Taxonomy:	
ISDA OTC Asset Class:	Equity
ISDA OTC Base Product:	Swap
ISDA OTC Sub-Product:	Parameter Return Variance
ISDA OTC Transaction type:	Single Index
Available Underlying Indices:	The index specified by the parties from among the indices listed in the table below titled "Equity Index Variance Swap Available Indices."
Contract Size:	The contracts are quoted in "Vega" amounts. The minimum contract size is 1,000 of the currency of which the underlying index settles in.
Quoting Convention:	The contracts are quoted in volatility percentage points.
Leg Conventions:	Floating Leg Rate – The realized variance rate that is calculated on the Expiration Date.
	Fixed Leg Rate – The agreed fixed rate of variance (Traded Price).
Tenor:	Tenors of any duration greater than 0 years and less than 50 years.
Trade Types:	Capped – the maximum payout of the contract is capped at an agreed price.
	Uncapped – there is no maximum payout on the contract.
Trade Start Types:	Immediate – the observation period of the contract begins on the Trade Date.
	Forward – the observation period of the contract begins on an agreed-upon date after the Trade Date.
Trade Date:	The date on which the contract is entered into.
Observation Start Date:	The Trade Date or, in the case of a forward starting transaction, an agreed-upon date after the Trade Date.
Valuation Date:	The date upon which the final rate of volatility will be calculated on using the "Applicable Formula" below.
Settlement:	The contracts are cash settled. If the difference between the realized variance and the "Variance Strike" (as agreed by the parties) is positive the seller pays the

	difference to the buyer. If the difference between the realized variance and the Variance Strike is negative the buyer pays the difference to the seller.
	Settlement of the contract occurs after the Valuation Date and in line with the settlement convention of the underlying equity index.
Settlement Payments/Payment Date:	T+2 (adjustments according to following business day convention).
Minimum Price or Incremental Price:	The contracts are quoted in volatility percentage points. There is no minimum price or minimum incremental price for the contract.
Payment Frequency:	One time.
Payment Exchange:	The buyer of a variance swap pays a fixed rate (the Variance Strike) in exchange for a payout based on the daily realized variance.
	The seller of a variance swap receives a fixed rate (the Variance Strike) in exchange for a payout based on the daily realized variance.
Day Count:	Business Days Per Year = 252
Business Day Convention:	Following business day convention.
Applicable Formula:	The final realized rate of variance will be calculated using the following formula:
	$100x\sqrt{\frac{252 \times \sum_{i=1}^{n} (Return(i))^{2}}{N}}$
	Where:
	$Return(i) = ln(\frac{Index_i}{Index_{i-1}})$
	n = the number of observations excluding the initial observation on the Observation Start Date, but including the Valuation Date;
	i = the relevant observation day;
	Index $_i$ = the closing level of the underlying index "i" business days from the Observation Start Date, except for (i) Index $_0$ which shall equal the initial index level, and (ii) Index $_n$ which shall equal the closing level of the underlying index on the Valuation Date. Index $_{i-1}$ will be modified by deducting the dividend in case it is an exdate.
	If applicable, the volatility cap will be set at 2.5x the Volatility Strike.
	N = Expected number of observations as agreed by the parties.

	ln = the natural logarithm.
Market Disruption:	As specified by the parties.

Equity Index Variance Swap Available Indices

Abbr	Name	
DAX	Deutscher Aktien Index	
DJITR	Dow Jones Industrial Average Total Return	
DJUSRE	Dow Jones U.S. Real Estate Index	
FTXIN25	FTSE China 50 Index	
GDDLCA	MSCI Canada Index CAD Total Return (Gross Dividends)	
GDDUEAFE	MSCI EAFE Index Total Return (Gross Dividends)	
GDDUNA	MSCI North American Index USD Total Return (Gross Dividends)	
GDDUUS	MSCI US Index Total Return (Gross Dividends)	
HSCEI	Hang Seng China Enterprises Index	
HSI	Hang Seng Index	
IBOV	BOVESPA Index	
KOSPI	Korea Composite Stock Price Index	
MDCPSPTR	S&P MidCap 400 Total Return	
MEXBOL	Mexican IPC index (Indice de Precios y Cotizaciones)	
NDDLCA	MSCI Canada Index CAD Total Return (Net Dividends)	
NDDUNA	MSCI North American Index USD Total Return (Net Dividends)	
NDDUUS	MSCI US Index Total Return (Net Dividends)	
NDEUBRAF	MSCI Brazil Index USD Total Return (Net Dividends)	
NDEUMXF	MSCI Mexico Index USD Total Return (Net Dividends)	
NDEUSCH	MSCI Chile Index Total Return (Net Dividends)	
NDEUSCO	MSCI Colombia Index Total Return (Net Dividends)	
NDUEEGF	MSCI Emerging Markets Index	
NDUEEGFL	MSCI Emerging Markets Latin America USD	
NDX	NASDAQ-100	
OEXT	S&P 100 Total Return	
RGUSFL		
RU10GRTR		
RU10INTR	Russell 1000 Total Return	
RU10VATR	Russell 1000 Value Total Return	
RU20GRTR	Russell 2000 Growth Total Return	
RU20INTR	Russell 2000 Total Return	
RU20VATR	Russell 2000 Value Total Return	
SMCPSPTR	S&P SmallCap 600 Total Return	
SPXT	S&P 500 Total Return	
SX5E	Eurostoxx 50 Index	
UKX	FTSE 100 Index	

Equity Index Volatility Swaps

Summary:	This covers equity index volatility swaps (each, an "Equity Index Volatility Swap")	
Limitations on Available Selections and Default	"Equity Index Volatility Swap"). The terms under which an Equity Index Volatility Swap	
Settings:	may be traded are shown below or in the attached tables.	
	For amounts or rates, the relevant term cannot be less	
	than the specified Minimum, must represent an even Increment and cannot exceed the Maximum; for a date, the date cannot be earlier than Earliest nor later than Latest. For Business Days, the defaults shall be the locations	
	· · · · · · · · · · · · · · · · · · ·	
	specified for the relevant currency. The parties may add additional locations from the Available Locations and may eliminate some or all of the	
	•	
	other locations, so long as there is at least one location ir which payment may be made. For these purposes "TARGET" is considered a location.	
	In many cases there are normal "vanilla" terms on which	
	the parties will transact.	
	These are shown as "Default" and will apply unless the	
	parties vary them.	
	It should be noted that these contracts can be traded in a	
	variety of currencies.	
	Since each national market has its own peculiarities, the	
	"Available Terms" and/or "Default Terms" may vary by	
	currency. In some cases, the same contract might have different	
	terms depending on the market in which it is traded $(e.g.,$	
	London versus NY).	
	In that case the default settings may vary by market.	
Incorporated Standards:	This contract description incorporates by reference the	
	following industry standard documentation and	
	standards:	
	(a) 2006 ISDA Definitions	
	(b) 2002 ISDA Equity Derivatives Definitions	
	(c) Annex IVS to: (i) the 2006 Japan Master Variance	
	Swap Confirmation Agreement for Japan Indices, (ii) the 2007 Americas Master Variance Swap Confirmation	
	Agreement, (iii) the Revised 2007 AEJ Master Variance	
	Swap Confirmation Agreement for AEJ indices, or (iv)	
	the 2007 European Variance Swap Master Confirmation	
	Agreement for EMEA Indices (as indicated on the	
	Equity Index Volatility Swap –Available Indices below)	
	(d) the Market Practice Statement for Variance Swap	
	Transactions Involving Japanese Shares or Indices	
	Regarding When Exchange-Imposed Daily Price	
	Limitations Would Constitute a Market Disruption Event	
	Due To a Trading Disruption published by ISDA on	
	October 22, 2009 (the "Japan Index Market Practice Statement")	
	For convenience, certain terms are mapped to their	
	FpML 5.5 equivalent.	
	1 pivil J.J equivalent.	

Product Type/ISDA OTC Taxonomy:		
ISDA OTC Asset Class:	Equity	
ISDA OTC Base Product:	Swap	
ISDA OTC Sub-Product:	Parameter Return Volatility	
ISDA OTC Transaction Type:	Single Index	
Further Limitations:	None.	
Terms:		
Trade Date:	As agreed by the parties.	
Effective Date ("effectiveDate"):	As per Annex IVS (other than for a Japan Index).	
Termination Date ("terminationDate"):	As per Annex IVS.	
Exchanges:	As specified by the parties.	
Related Exchanges:	As per Annex IVS.	
Volatility Buyer:	Not applicable.	
Volatility Seller:	Not applicable.	
Volatility Cap:	If applicable, as specified by the parties.	
Index:	As specified by the parties from among the Equity Index	
	Volatility Swap – Available Indices (see below).	
Equity Amounts:		
Equity Amount Payer ("payerPartyReference"):	The Volatility Seller.	
Equity Notional Amount:	As specified by the parties (other than for an EMEA	
	Index).	
Equity Notional Reset:	As per Annex IVS.	
Type of Return:	As per Annex IVS.	
Initial Price:	As per Annex IVS.	
Final Price:	As per Annex IVS.	
Valuation Time:	As per Annex IVS.	
Observation Start Date:	As specified by the parties or otherwise as per Annex	
	IVS.	
Observation End Date:	As per Annex IVS.	
Observation Day:	As per Annex IVS (with Disrupted Date being	
	determined, in the case of a Japan Index, in accordance	
	with the Japan Index Market Practice Statement).	
Non-Disrupted Observation Day:	As per Annex IVS.	
Observation Period:	As per Annex IVS.	
Futures Price Valuation:	As specified by the parties or determined in accordance	
	with Annex IVS.	
Default Exchange-traded Contract:	As per Annex IVS.	
Equity Amount:	The product of the Equity Notional Amount and the	
	Final Realized Volatility (or, if there is a Volatility Cap,	
	the lesser of the Realized Volatility or the Volatility	
	Cap).	
Variance Strike Price:	Not applicable.	
Variance Cap:	Not applicable.	
Final Realized Volatility:	As per Annex IVS.	
Initial Index Level:	As specified by the parties.	
Closing Index Level:	If specified by the parties, and determined per Annex IVS.	
Expiring Contract Level:	If specified by the parties or as determined per Annex IVS.	
Variance Amount:	Not applicable.	
Volatility Strike Price:	Not applicable.	
Variance Strike Price:	Not applicable.	
Variance Cap Amount:	Not applicable.	
Final Realized Volatility ("FRV"):	Per Annex IVS.	

N:	As specified by the parties or otherwise per Annex IVS	
	(other than for an AEJ Index).	
Expected N:	As specified by the parties or otherwise per Annex IVS	
	(only for an AEJ Index).	
Market Disruption Event:	As per Annex IVS.	
Fixed Amount:		
Fixed Amount Payer:	The Volatility Buyer.	
Fixed Amount:	The product of the Equity Notional Amount and the	
	Volatility Strike.	
Volatility Strike:	As specified by the parties.	
Settlement Terms:		
Cash Settlement:	As per Annex IVS.	
Settlement Currency:	As per Annex IVS.	
Cash Settlement Payment Date:	As per Annex IVS.	
Index Adjustment Events:		
Index Cancellation: As per Annex IVS.		
Index Modification: As per Annex IVS.		
Index Disruption: As per Annex IVS.		
VS Cancellation and Payment: As per Annex IVS.		
Additional Disruption Events:		
Change in Law:	As per Annex IVS.	
Non-Reliance:	As per Annex IVS.	
Agreements and Acknowledgements Regarding Hedging	As per Annex IVS.	
Activities:		
Additional Acknowledgements:	As per Annex IVS.	
Index Disclaimer:	As per Annex IVS.	
Calculation Agent:	As agreed by the parties.	

Equity Index Volatility Swap – Available Currencies and Required Business Days

Three Letter Currency Code	Currency Name (ISDA)	Basic Business Day Locations
(ISDA/ISO)		For Currency (FpML Codes)
USD	United States Dollars	USNY

Equity Index Volatility Swap – Available Indices

Abbr	Name
SPX	S&P 500 Index
SPXT	S&P 500 Total Return

Fixed for Floating Agricultural Swaptions

Cummouru	This servers unalgored fixed for floating agricultural	
Summary:	This covers uncleared fixed for floating agricultural swaptions ("Fixed for Floating Agricultural Swaptions").	
Limitations on Anailable Calcutions and Default		
Limitations on Available Selections and Default	The terms under which Fixed for Floating Agricultural	
Settings:	Swaptions may be traded are shown below and in the attached tables.	
T		
Incorporated Standards:	This contract description incorporates by reference the	
	following industry standard documentation and	
	standards:	
	2005 ISDA Commodity Derivatives Definitions	
D. I. J. W. WGD. A. OWG. W.	("Commodity Definitions")	
Product Type/ISDA OTC Taxonomy:		
ISDA OTC Asset Class:	Commodity	
ISDA OTC Base Product:	Agricultural	
ISDA OTC Settlement type:	Cash	
Further Limitations:	None	
Trade Date:	As agreed by the parties.	
Option Style:	As specified by the parties from among the Available	
	Option Styles.	
Option Type:	Swaption	
Buyer:	As specified by the parties.	
Seller:	As specified by the parties.	
Total Premium:	As specified by the parties.	
Premium Payment Date(s):	As specified by the parties, subject to adjustment in	
	accordance with the Business Day Convention.	
Premium Payment Date Business Days:	Per the Available Currencies, plus such additional	
Business Days as the parties specify.		
Premium Payment Date Business Day Convention:		
	Business Day Conventions or otherwise per the	
	Commodity Definitions.	
Physical/Contract Settlement:	Applicable	
rocedure for Exercise:		
Exercise Period:	For an American Option, the period of days and the	
	times on such days specified by the parties.	
	For any other Option Style, the times on the Expiration	
	Date or Potential Exercise Date specified by the parties.	
Potential Exercise Dates:	For a Bermuda Option, the days specified by the parties.	
Expiration Date:	As specified by the parties.	
Expiration Time:	As specified by the parties.	
Automatic Exercise:	Applicable, unless otherwise specified by the parties.	
Written Confirmation:	As specified by the parties.	
Seller's Notice Information:	As specified by the Seller.	
Terms of the Underlying Transaction to which the Swaption Relates:		
Trade Date:	As agreed by the parties.	
Effective Date:	The date specified by the parties, adjusted in accordance	
	with any applicable Business Day Convention.	
Effective Date Business Days:	None, unless specified by the parties.	
Effective Date Business Day Convention:	None, unless specified by the parties from among the	
	Available Business Day Conventions.	
Termination Date:	As specified by the parties.	
Termination Date Business Days:	None, unless specified by the parties.	

Termination Date Business Day Convention:	None, unless specified by the parties from among the Available Business Day Conventions.	
Commodity:	As specified by the parties from among the Available Commodities.	
Total Notional Quantity:	The sum of the Notional Quantities per Calculation Period.	
Notional Quantity per Calculation Period:	As specified by the parties on a per-Calculation-Period Basis.	
Calculation Periods:	As specified by the parties.	
Calculation Period Business Days:	None, unless specified by the parties.	
Calculation Period Business Day Convention:	As specified by the parties from among the Available Business Day Conventions.	
Payment Dates:	In relation to each Calculation Period, as specified by the parties, each such day being subject to adjustment in accordance with the Payment Date Business Day Convention.	
Payment Date Business Days:	The Business Days specified for the relevant Commodity, plus any additional Business Days specified by the parties from among the Available Business Days.	
Payment Date Business Day Convention:	As specified by the parties from among the Available Business Day Conventions.	
Fixed Amount:		
Fixed Price Payer:	As specified by the parties.	
Fixed Price or Fixed Amount:	As specified by the parties per Unit of the Commodity or overall.	
Floating Amount:		
Floating Price Payer:	As specified by the parties.	
Applicable Spread:	As specified by the parties.	
Commodity Reference Price:	As specified by the parties from among the Available Commodity Reference Prices.	
Market Disruption:		
Market Disruption Events:	Unless otherwise specified by the parties, per the Commodity Definitions.	
Additional Market Disruption Events:	As specified by the parties.	
Consequences of Market Disruption Events:	Unless otherwise specified by the parties, per the Commodity Definitions.	
Disruption Fallbacks:	Unless otherwise specified by the parties, per the Commodity Definitions.	
Fallback Reference Price:	None, unless specified by the parties.	
Maximum Days of Disruption:	Unless otherwise specified by the parties, per the Commodity Definitions.	
Calculation Agent:	As agreed by the parties.	

Fixed for Floating Agricultural Swaptions Available Currencies and Required Business Days

Three Letter Currency Code	Currency Name (ISDA)	Basic Business Day Locations
(ISDA/ISO)		For Currency (FpML Codes)
USD	United States Dollars	USNY
EUR	Euro	EUTA
GBP	Sterling	GBLO

Fixed-for-Floating Agricultural Swaptions Available Business Day Conventions

ISDA Name
Following
Modified/Modified Following
Nearest
Preceding

Fixed-for-Floating Agricultural Swaptions Available Commodity Reference Prices

ISDA Definitions

The following Commodity Reference Prices are as defined in Sub-Annex A to the Commodity Definitions.

ISDA Definition
COCOA-GBP-EURONEXT
COCOA-NYBOT ¹
COFFEE ARABICA-NYBOT ¹
COFFEE ROBUSTA-EURONEXT
CORN-CBOT
COTTON NO. 2-NYBOT ¹
FROZEN CONCENTRATED ORANGE JUICE NO. 1-NYBOT ¹
LEAN HOGS-CME
MILK-CLASS III-CME
MILK-CLASS IV-CME
SOYBEAN-CBOT
SOYBEAN MEAL-CBOT
SOYBEAN OIL-CBOT
SUGAR #11 (WORLD)-NYBOT ¹
WHEAT-CBOT
WHEAT HRM-KCBOT
WHITE SUGAR-EURONEXT

¹ The New York Board of Trade (NYBOT) was renamed ICE Futures US in 2007.

Exchange Definitions

The following Commodity Reference Prices are as defined in the Commodity Price Reference Framework in Sub-Annex A to the Commodity Definitions.

ISDA Definition					
Commodity	Relevant	Relevant Unit	Exchange	Currency	Specified Price
Reference	Commodity				
Price					
BUTTER-CME	Butter	Pound	CME Globex	USD 0.01	Settlement Price
CHEESE-CME	Cheese	Pound	CME Globex	USD 0.01	Settlement Price
CRUDE PALM	Crude Palm Oil	Metric Ton	CME Globex	USD 0.01	Settlement Price
OIL-CME					
DRY WHEY-	Dry Whey	Pound	CME Globex	USD 0.01	Settlement Price
CME					
HARD RED	Wheat	Bushel	Minneapolis	USD 0.01	Settlement Price
SPRING			Grain Exchange		
WHEAT-					
MGEX					
MILLING	Wheat	Tonne	EURONEXT	EUR 0.01	Settlement Price
WHEAT-			LIFFE		
EURONEXT					
NONFAT DRY	Non-Fat Dry	Pound	CME Globex	USD 0.01	Settlement Price
MILK-CME	Milk				
RAPESEED-	Rapeseed	Tonne	EURONEXT	EUR 0.01	Settlement Price
EURONEXT			LIFFE		

Fixed for Floating Agricultural Swap Contracts

Summary:	This covers uncleared fixed-for-floating agricultural swaps ("Fixed for Floating Agricultural Swap Contracts").	
Limitations on Available Selections and Default Settings:	The terms under which Fixed for Floating Agricultural Swap Contracts may be traded are shown below and in	
6	the attached tables.	
	For amounts or rates, the relevant term cannot be less than the specified Minimum, must represent an even Increment and cannot exceed the Maximum; for a date,	
	the date cannot be earlier than Earliest nor later than Latest.	
	In many cases there are normal "vanilla" terms on which the parties will transact.	
	These are shown as "Default" and will apply unless the	
	parties vary them.	
Incorporated Standards:	This contract description incorporates by reference the	
	following industry standard documentation and	
	standards: 2005 ISDA Commodity Derivatives Definitions	
	("Commodity Definitions")	
Product Type/ISDA OTC Taxonomy:	(Commodity Definitions)	
ISDA OTC Asset Class:	Commodity	
ISDA OTC Base Product:	Agricultural	
ISDA OTC Settlement type:	Cash	
Further Limitations:	None	
Terms:		
Trade Date:	As agreed by the parties.	
Effective Date:	The date specified by the parties, adjusted in accordance with any applicable Business Day Convention.	
Effective Date Business Days:	None, unless specified by the parties.	
Effective Date Business Day Convention:	None, unless specified by the parties from among the Available Business Day Conventions.	
Termination Date:	As specified by the parties.	
Termination Date Business Days:	None, unless specified by the parties.	
Termination Date Business Day Convention:	None, unless specified by the parties from among the Available Business Day Conventions.	
Commodity:	As specified by the parties from among the Available Commodities.	
Total Notional Quantity:	The sum of the Notional Quantities per Calculation Period.	
Notional Quantity per Calculation Period:	As specified by the parties on a per-Calculation-Period Basis.	
Calculation Periods:	As specified by the parties.	
Calculation Period Business Days:	None, unless specified by the parties.	
Calculation Period Business Day Convention:	As specified by the parties from among the Available Business Day Conventions.	
Payment Dates:	In relation to each Calculation Period, as specified by the parties, each such day being subject to adjustment in accordance with the Payment Date Business Day Convention.	

Payment Date Business Days:	The Business Days specified for the relevant	
	Commodity, plus any additional Business Days specified	
	by the parties from among the Available Business Days.	
Payment Date Business Day Convention:	As specified by the parties from among the Available	
	Business Day Conventions.	
Fixed Amount:		
Fixed Price Payer:	As specified by the parties.	
Fixed Price or Fixed Amount:	As specified by the parties per Unit of the Commodity or overall.	
Floating Amount:		
Floating Price Payer:	As specified by the parties.	
Applicable Spread:	As specified by the parties.	
Commodity Reference Price:	As specified by the parties from among the Available	
	Commodity Reference Prices.	
Market Disruption:		
Market Disruption Events:	Unless otherwise specified by the parties, per the	
	Commodity Definitions.	
Additional Market Disruption Events:	As specified by the parties.	
Consequences of Market Disruption Events:	Unless otherwise specified by the parties, per the	
	Commodity Definitions.	
Disruption Fallbacks:	Unless otherwise specified by the parties, per the	
	Commodity Definitions.	
Fallback Reference Price:	None, unless specified by the parties.	
Maximum Days of Disruption:	Unless otherwise specified by the parties, per the	
	Commodity Definitions.	
Calculation Agent:	As agreed by the parties.	

Fixed-for-Floating Agricultural Swap Available Currencies and Required Business Days

Three Letter Currency Code (ISDA/ISO)	Currency Name (ISDA)	Basic Business Day Locations For Currency (FpML Codes)
USD	United States Dollars	USNY
EUR	Euro	EUTA
GBP	Sterling	GBLO

Fixed-for-Floating Agricultural Swap Available Business Day Conventions

ISDA Name
Following
Modified/Modified Following
Nearest
Preceding

Fixed-for-Floating Agricultural Swap Available Commodity Reference Prices

ISDA Definitions

The following Commodity Reference Prices are as defined in Sub-Annex A to the Commodity Definitions.

	ISDA Definition	
COCOA-GBP-EURONEXT		

COCOA-NYBOT ¹
COFFEE ARABICA-NYBOT ¹
COFFEE ROBUSTA-EURONEXT
CORN-CBOT
COTTON NO. 2-NYBOT ¹
FROZEN CONCENTRATED ORANGE JUICE NO. 1-NYBOT ¹
LEAN HOGS-CME
MILK-CLASS III-CME
MILK-CLASS IV-CME
SOYBEAN-CBOT
SOYBEAN MEAL-CBOT
SOYBEAN OIL-CBOT
SUGAR #11 (WORLD)-NYBOT ¹
WHEAT-CBOT
WHEAT HRM-KCBOT
WHITE SUGAR-EURONEXT

Exchange Definitions

The following Commodity Reference Prices are as defined in the Commodity Price Reference Framework in Sub-Annex A to the Commodity Definitions.

ISDA Definition					
Commodity	Relevant	Relevant Unit	Exchange	Currency	Specified Price
Reference	Commodity				
Price					
BUTTER-CME	Butter	Pound	CME Globex	USD 0.01	Settlement Price
CHEESE-CME	Cheese	Pound	CME Globex	USD 0.01	Settlement Price
CRUDE PALM	Crude Palm Oil	Metric Ton	CME Globex	USD 0.01	Settlement Price
OIL-CME					
DRY WHEY-	Dry Whey	Pound	CME Globex	USD 0.01	Settlement Price
CME					
HARD RED	Wheat	Bushel	Minneapolis	USD 0.01	Settlement Price
SPRING			Grain Exchange		
WHEAT-					
MGEX					
MILLING	Wheat	Tonne	EURONEXT	EUR 0.01	Settlement Price
WHEAT-			LIFFE		
EURONEXT					
NONFAT DRY	Non-Fat Dry	Pound	CME Globex	USD 0.01	Settlement Price
MILK-CME	Milk				
RAPESEED-	Rapeseed	Tonne	EURONEXT	EUR 0.01	Settlement Price
EURONEXT			LIFFE		

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 $^{^{\}rm 1}$ The New York Board of Trade (NYBOT) was renamed ICE Futures US in 2007.

Fixed for Floating Interest Rate Swaps

Terms and Conditions

Summary:	This covers uncleared fixed for floating interest rate
	swaps ("Fixed for Floating Interest Rate Swap (Uncleared)").
Limitations on Available Selections and Default	The terms under which a Fixed for Floating Interest Rate
Settings:	Swap (Uncleared) contract may be traded are as specified in these terms and conditions or in the attached tables. For amounts or rates, the relevant term cannot be less than the specified Minimum, must represent an even Increment and cannot exceed the Maximum; for a date,
	the date cannot be earlier than Earliest nor later than Latest. For Business Days, the defaults shall be the locations
	specified for the relevant currency, any additional locations specified for the relevant Floating Rate Options.
	The parties may add additional locations from the Available Locations and may eliminate some or all of the other locations, so long as there is at least one location in which payment may be made. For these purposes "TARGET" is considered a location.
	In many cases there are normal "vanilla" terms on which the parties will transact. These are shown as "Default" and will apply unless the parties vary them.
	It should be noted that these contracts can be traded in a variety of currencies. Since each national market has its own peculiarities, the "Available Terms" and/or "Default Terms" may vary by currency.
	In some cases, the same contract might have different terms depending on the market in which it is traded (e.g., London versus NY). In that case the default settings may vary by market.
Incorporated Standards:	This contract description incorporates by reference the following industry standard documentation and standards: (a) 2006 ISDA Definitions (b) ISDA Settlement Matrix (if Optional Early Termination applies) (c) ISDA OTC Taxonomies (d) FpML Location Codes
	For convenience, certain terms are mapped to their FpML 5.5 equivalent.

Product Type/ISDA OTC Taxonomy:	
ISDA OTC Asset Class:	Interest Rate
ISDA OTC Base Product:	IR Swap
ISDA OTC Sub-Product:	Fixed Floating
Further Limitations:	None
Terms:	
Notional Amount ("notional"):	An amount in one of the Available Currencies (see below) agreed by the parties.
Effective Date ("effectiveDate"):	The date specified by the parties, adjusted in accordance with any applicable Business Day Convention. The parties may express the unadjusted Effective Date as a number of Business Days or Banking Days from the Trade Date ("relativeEffectiveDate").
Effective Date Business Days:	As specified by the parties from among the Available Business Days.
Effective Date Business Day Convention:	As specified by the parties from among the Available Business Day Conventions.
Termination Date ("terminationDate"):	The date specified by the parties, adjusted in accordance with any applicable Business Day Convention. The parties may express the unadjusted Termination Date as a number of days, months or years from the Effective Date ("relativeTerminationDate").
Termination Date Business Day Convention:	As specified by the parties from among the Available Business Day Conventions.
Fixed Amount:	
Fixed Rate Payer ("payerPartyReference"):	As specified by the parties.
Currency Amount ("notional Amount"):	As specified by the parties.
Fixed Rate Period End Dates ("unadjustedCalculation Period Date"):	As specified by the parties.
first Period End Date:	As specified by the parties if there is a short initial Calculation Period.
Fixed Rate Payment Dates ("unadjustedPaymentDate"):	As specified by the parties.
Day Count Fraction:	As specified by the parties.
Period End Dates Business Days:	As specified by the parties from among the Available Business Days.
Period End Dates Business Day Convention:	As specified by the parties from among the Available Business Day Conventions.
Payment Dates Business Days:	As specified by the parties from among the Available Business Days, subject to any Required Business Days.
Payment Dates Business Day Convention:	As specified by the parties from among the Available Business Day Conventions.
Floating Amount:	
Floating Rate Payer ("payerPartyReference"):	As specified by the parties.
Currency Amount ("notional Amount"):	As specified by the parties.
Period End Dates ("unadjustedCalculation Period Date"):	As specified by the parties.
first Period End Date:	As specified by the parties if there is a short initial Calculation Period.
Payment Dates ("unadjustedPaymentDate"):	As specified by the parties.
initial Floating Rate:	As specified by the parties.
Floating Rate Option ("floatingRateIndex"):	As specified by the parties.
Designated Maturity ('indexTenor''):	As specified by the parties.
Linear Interpolation:	For the Calculation Periods specified by the parties.
Shorter Designated Maturity for Linear Interpolation:	For a Calculation Period to which Linear Interpolation

	applies, as specified by the parties.
Longer Designated Maturity for Linear Interpolation:	For a Calculation Period to which Linear Interpolation
Longer Designated Watturity for Emedi Interpolation.	applies, as specified by the parties.
Spread:	As specified by the parties.
Day Count Fraction:	As specified by the parties. As specified by the parties.
Reset Dates ("resetDate"):	As specified by the parties. As specified by the parties.
Method of Averaging:	As specified by the parties. As specified by the parties.
Compounding:	As specified by the parties. As specified by the parties.
Compounding Dates:	In the event Compounding is selected, as selected by the
Compounding Dates.	parties.
Compounding Method (Compounding OR Flat	In the event Compounding is selected, as selected by the
Compounding):	parties.
Period End Dates Business Days:	As specified by the parties from among the Available
Teriod End Dates Business Days.	Business Days.
Period End Dates Business Day Convention:	As specified by the parties from among the Available
Teriod End Dates Business Day Convention.	Business Day Conventions.
Payment Dates Business Days:	As specified by the parties from among the Available
Taymont Dutes Dusiness Days.	Business Days, subject to any Required Business Days.
Payment Dates Business Day Convention:	As specified by the parties from among the Available
Tayment Bates Business Bay Convention.	Business Day Conventions.
Reset Dates Business Days:	As specified by the parties from among the Available
1.0000 2 utos 2 usinoss 2 ujs.	Business Days, subject to any Required Business Days.
Reset Dates Business Day Convention:	As specified by the parties from among the Available
	Business Day Conventions.
Mark-to-Market Currency Swap:	
Mark-to-Market Currency Swap:	As specified by the parties, if the Currency Amounts are
	in different Currencies.
Variable Currency Payer:	As specified by the parties if the transaction is a Mark-
	to-Market Currency Swap.
Constant Currency Payer:	As specified by the parties if the transaction is a Mark-
	to-Market Currency Swap.
Currency Exchange Rate:	As specified by the parties if the transaction is a Mark-
	to-Market Currency Swap and ISDA MTM Matrix is not
	applicable.
ISDA MTM Matrix:	As specified by the parties if the transaction is a Mark-
	to-Market Currency Swap.
Initial Exchange:	
Initial Exchange Date:	As specified by the parties.
Fixed Rate Payer Initial Exchange Amount:	As specified by the parties.
Floating Payer Initial Exchange Amount:	As specified by the parties.
Currency:	As specified from the parties from the Available
	Currencies.
Interim Exchanges:	
Interim Exchange Dates:	As specified by the parties.
Fixed Rate Payer Interim Exchange Amount:	As specified by the parties.
Fixed Rate Payer Interim Exchange Amount:	As specified by the parties.
Currency:	As specified from the parties from the Available
	Currencies.
Final Exchange:	
Final Exchange Date:	As specified by the parties.
Fixed Rate Payer Final Exchange Amount:	As specified by the parties.
Fixed Payer Final Exchange Amount:	As specified by the parties.
Currency:	As specified from the parties from the Available
	Currencies.

Optional Early Termination:	
Optional Early Termination:	As specified by the parties.
Option Style:	As specified by the parties.
Optional Early Termination Date:	As specified by the parties.
Seller:	As specified by the parties if only one party can terminate.
Buyer:	As specified by the parties, if only one party can terminate.
Seller's Agent:	As specified by the parties, if only one party can terminate.
Business Days for Payments:	As specified by the parties from among the Available Business Days, subject to any Required Business Days.
Exercise Business Days:	As specified by the parties.
Optional Early Termination Procedure for Exercise:	
Commencement Date:	As specified by the parties, if the Option Style is American.
Bermuda Option Exercise Dates:	As specified by the parties, if the Option Style is Bermuda.
Expiration Date:	As specified by the parties.
Expiration Time:	As specified by the parties.
Earliest Exercise Time:	As specified by the parties.
Latest Exercise Time:	As specified by the parties.
Exercise Business Day:	As specified by the parties.
Partial Exercise:	As specified by the parties, if Option Style is European.
Multiple Exercise:	As specified by the parties, if Option Style is American or Bermuda.
Minimum Notional Amount:	As specified by the parties if Partial Exercise or Multiple Exercise is specified.
Maximum Notional Amount:	As specified by the parties if Multiple Exercise is specified.
Integral Multiple:	As specified by the parties if Partial Exercise or Multiple Exercise is specified.
Optional Early Termination Settlement Terms:	·
Cash Settlement:	As specified by the parties.
ISDA Settlement Matrix:	As specified by the parties, if Cash Settlement is applicable to a single currency Transaction.
ISDA Cross Currency Settlement Matrix:	As specified by the parties, if Cash Settlement is applicable to a cross currency Transaction whose currencies are listed as a "currency pair" in the Cross Currency Settlement Matrix.
Cash Settlement Valuation Time:	If Cash Settlement is applicable, as specified by the parties, directly or via the ISDA Settlement Matrix.
Cash Settlement Valuation Date:	If Cash Settlement is applicable, as specified by the parties, directly or via the ISDA Settlement Matrix.
Valuation Business Days:	If Cash Settlement is applicable, as specified by the parties, directly or via the ISDA Settlement Matrix.
Cash Settlement Payment Date:	If Cash Settlement is applicable, as specified by the parties, directly or via the ISDA Settlement Matrix.
Cash Settlement Payment Date Business Days Convention:	If Cash Settlement is applicable, as specified by the parties, directly or via the ISDA Settlement Matrix.
Cash Settlement Method:	If Cash Settlement is applicable, as specified by the parties from Available Cash Settlement Methods, directly or via the ISDA Settlement Matrix.
Cash Settlement Currency:	If Cash Settlement is applicable, and "Cash Price" or

	"Cash Price—Alternate" apply, as specified by the parties from Available Cash Settlement Methods, directly or via the ISDA Settlement Matrix.
Settlement Rate:	If Cash Settlement is applicable, and "Par Yield Curve—Adjusted," "Par Yield Curve—Unadjusted" or "Zero Coupon Curve—Adjusted" apply, as specified by the parties from Available Cash Settlement Methods, directly or via the ISDA Settlement Matrix parties from Available Cash Settlement Methods, directly or via the ISDA Settlement Matrix.
Cash Settlement Reference Banks:	As specified by the parties, if Settlement Rate is applicable.
Cash Settlement Reference Banks:	If Cash Settlement is applicable, as specified by the parties.
Quotation Rate:	If Cash Settlement is applicable, as specified by the parties from among the Available Quotation Rates.
Calculation Agent:	As agreed by the parties.

Fixed Floating Available Currencies and Required Business Days

Three Letter Currency Code (ISDA/ISO)	Currency Name (ISDA)	Basic Business Day Locations For Currency (FpML Codes)
AUD	Australian Dollar	AUSY
BRL	Brazilian Reai	Any of BR{SP,RJ,BR} and not
		otherwise declared a market
		holiday by the BM&F
CAD	Canadian Dollar	CATO
CHF	Swiss Franc	CHZU
CLP	Chilean Peso	CLSA
CNH	Chinese Renminbi (HK)	HKHK and CNBE
CNY	Chinese Renminbi	CNBE
COP	Colombian Peso	COBO
CZK	Czech Koruna	CZPR
DKK	Danish Krone	DKCO
EUR	Euro	EUTA
GBP	Sterling	GBLO
HKD	Hong Kong Dollar	НКНК
HUF	Hungarian Forint	HUBU
ILS	Israeli Shekel	ILTA
INR	Indian Rupee	INMU
ЈРҮ	Japanese Yen	JPTO
KRW	Korean Won	KRSE
MXN	Mexican Peso (New)	MXMC
MYR	Malaysian Ringgit	MYKL
NOK	Norwegian Krone	NOOS
NZD	New Zealand Dollar	NZAU and NZWE
PHP	Phillipine Peso	PHMA
PLN	Polish Zloty	PLWA
RON	Romanian Leu	ROBU
RUB	Russian Ruble	RUMO
SAR	Saudi Arabian Riyal	SARI
SEK	Swedish Krona	SEST
SGD	Singapore Dollar	SGSI
THB	Thai Baht	THBA

TRY	Turkish Lira	TRIS
TWD	Taiwan Dollar	TWTA
USD	United States Dollars	USNY
ZAR	South African Rand	ZAJO

Fixed Floating Available Business Day Conventions

ISDA Name
Following
Modified/Modified Following
No Adjustment
Preceding
FRN Convention/Eurodollar Convention

Fixed Floating Available Day Count Fractions

ISDA Name
1/1
30/360, 360/360, Bond Basis
Actual/360
Actual/365 (Fixed), Act/365 (Fixed), A/365 (Fixed), A/365F
Actual/Actual, Actual/Actual (ISDA), Act/Act, Act/Act (ISDA)
Actual/Actual (ICMA), Act/Act, Act/Act (ICMA)

Fixed Floating Default Effective Dates

Currency	Default Effective Date
All Currencies Other than CAD, GBP	Plus Two Banking Days
CAD, GBP	Plus Zero

Fixed Floating Earliest and Latest Effective and Termination Dates

Currency	Earliest Effective	Latest Effective	Earliest Termination	Latest Termination
	Date	Date	Date	Date
N/A	N/A	N/A	N/A	N/A

Fixed Floating Notional Amounts

Currency	Minimum	Increment	Maximum	Default
AUD	25,000,000	100,000	N/A	N/A
BRL	5,000,000	100,000	N/A	N/A
CAD	25,000,000	1,000,000	N/A	N/A
CHF	5,000,000	100,000	N/A	N/A
CLP	5,000,000	100,000	N/A	N/A
CNH	5,000,000	100,000	N/A	N/A
CNY	5,000,000	100,000	N/A	N/A
COP	5,000,000	100,000	N/A	N/A
CZK	5,000,000	100,000	N/A	N/A
DKK	5,000,000	100,000	N/A	N/A
EUR	25,000,000	100,000	N/A	N/A
GBP	25,000,000	100,000	N/A	N/A
HKD	25,000,000	100,000	N/A	N/A
HUF	5,000,000	100,000	N/A	N/A
ILS	5,000,000	100,000	N/A	N/A

INR	5,000,000	100,000	N/A	N/A
JPY	2,500,000,000	100,000,000	N/A	N/A
KRW	5,000,000	100,000	N/A	N/A
MXN	10,000,000	1,000,000	N/A	N/A
MYR	5,000,000	100,000	N/A	N/A
NOK	5,000,000	100,000	N/A	N/A
NZD	5,000,000	100,000	N/A	N/A
PHP	5,000,000	100,000	N/A	N/A
PLN	5,000,000	100,000	N/A	N/A
RON	5,000,000	100,000	N/A	N/A
RUB	5,000,000	100,000	N/A	N/A
SAR	5,000,000	100,000	N/A	N/A
SEK	5,000,000	100,000	N/A	N/A
SGD	5,000,000	100,000	N/A	N/A
THB	5,000,000	100,000	N/A	N/A
TRY	5,000,000	100,000	N/A	N/A
TWD	5,000,000	100,000	N/A	N/A
USD	25,000,000	1,000,000	N/A	N/A
ZAR	5,000,000	100,000	N/A	N/A

Fixed Floating Rate Options and Defaults

Floating Rate Option	Available Tenors	Default Tenor	Default Day Count Fraction	Additional Business Day Locations
AUD-AONIA-OIS- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
AUD-AONIA-OIS- COMPOUND- SwapMarker	All quoted tenors	N/A	Per ISDA 2006	N
AUD-BBR-AUBBSW	All quoted tenors	N/A	Per ISDA 2006	N
AUD-BBR-BBSW	All quoted tenors	N/A	Per ISDA 2006	N
AUD-BBR-BBSW- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
AUD-BBR-BBSY (BID)	All quoted tenors	N/A	Per ISDA 2006	N
AUD-BBR-ISDC	All quoted tenors	N/A	Per ISDA 2006	N
AUD-LIBOR-BBA	All quoted tenors	N/A	Per ISDA 2006	N
AUD-LIBOR-BBA- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
AUD-LIBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
AUD-Quarterly Swap Rate-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
AUD-Quarterly Swap Rate-ICAP-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
AUD-Semi-annual Swap Rate-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
AUD-Semi-Annual Swap Rate-ICAP-	All quoted tenors	N/A	Per ISDA 2006	N

Reference Banks				
AUD-Swap Rate- Reuters	All quoted tenors	N/A	Per ISDA 2006	N
BRL-CDI-CETIP	See below	N/A	See below	See below
CAD-BA-CDOR	All quoted tenors	N/A	Per ISDA 2006	N
CAD-BA-CDOR- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
CAD-BA-ISDD	All quoted tenors	N/A	Per ISDA 2006	N
CAD-BA-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
CAD-BA-Reuters	All quoted tenors	N/A	Per ISDA 2006	N
CAD-BA-Telerate	All quoted tenors	N/A	Per ISDA 2006	N
CAD-CORRA-OIS- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
CAD-ISDA-Swap Rate	All quoted tenors	N/A	Per ISDA 2006	N
CAD-LIBOR-BBA	All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
CAD-LIBOR-BBA- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
CAD-LIBOR-BBA- SwapMarker	All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
CAD-LIBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
CAD-REPO-CORRA	All quoted tenors	N/A	Per ISDA 2006	N
CAD-TBILL-ISDD	All quoted tenors	N/A	Per ISDA 2006	N
CAD-TBILL-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
CAD-TBILL-Reuters	All quoted tenors	N/A	Per ISDA 2006	N
CAD-TBILL-Telerate	All quoted tenors	N/A	Per ISDA 2006	N
CHF USD-Basis Swaps-11:00-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
CHF-Annual Swap Rate	All quoted tenors	N/A	Per ISDA 2006	N
CHF-Annual Swap Rate-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
CHF-ISDAFIX-Swap Rate	All quoted tenors	N/A	Per ISDA 2006	N
CHF-LIBOR-BBA	All quoted tenors	N/A	Per ISDA 2006	N
CHF-LIBOR-BBA- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
CHF-LIBOR-ISDA	All quoted tenors	N/A	Per ISDA 2006	N
CHF-LIBOR-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
CHF-OIS-11:00-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
CHF-TOIS-OIS- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N

CLP-CLICP- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
CNH-HIBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
CNH-HIBOR-TMA	All quoted tenors	N/A	Per ISDA 2006	N
CNY- CNREPOFIX=CFXS- Reuters	All quoted tenors	N/A	Per ISDA 2006	N
CNY-Semi-Annual Swap Rate-11:00- BGCANTOR	All quoted tenors	N/A	Per ISDA 2006	N
CNY-Semi-Annual Swap Rate-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
CNY-SHIBOR-Reuters	All quoted tenors	N/A	Per ISDA 2006	N
COP-IBR-OIS- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
CZK-Annual Swap Rate-11:00- BGCANTOR	All quoted tenors	N/A	Per ISDA 2006	N
CZK-Annual Swap Rate-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
CZK-PRIBOR-PRBO	All quoted tenors	N/A	Per ISDA 2006	N
CZK-PRIBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
DKK-CIBOR- DKNA13	All quoted tenors	N/A	Per ISDA 2006	N
DKK-CIBOR- DKNA13-Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
DKK-CIBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
DKK-CIBOR2- DKNA13	All quoted tenors	N/A	Per ISDA 2006	N
DKK-CITA-DKNA14- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
DKK-DKKOIS-OIS- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
EUR USD-Basis Swaps-11:00-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-10:00	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-10:00-Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-10:00-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-10:00- SwapMarker	All quoted tenors	N/A	Per ISDA 2006	N

EUR-Annual Swap Rate-11:00	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-11:00-Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-11:00-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-11:00- SwapMarker	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-3 Month	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-3 Month- SwapMarker	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EONIA- AVERAGE	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EONIA-OIS- 10:00-BGCANTOR	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EONIA-OIS- 10:00-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EONIA-OIS- 11:00-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EONIA-OIS- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EONIA-OIS- COMPOUND- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EONIA-Swap- Index	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EURIBOR- Act/365	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EURIBOR- Act/365-Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EURIBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EURIBOR- Reuters	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EURIBOR- Telerate	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EURONIA-OIS- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
EUR-ISDA-EURIBOR Swap Rate-11:00	All quoted tenors	N/A	Per ISDA 2006	N
EUR-ISDA-EURIBOR Swap Rate-12:00				N.Y.
	All quoted tenors	N/A	Per ISDA 2006	N

Swap Rate-10:00				
EUR-ISDA-LIBOR Swap Rate-11:00	All quoted tenors	N/A	Per ISDA 2006	N
EUR-LIBOR-BBA	All quoted tenors	N/A	Per ISDA 2006	N
EUR-LIBOR-BBA- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
EUR-LIBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
EUR-TAM-CDC	All quoted tenors	N/A	Per ISDA 2006	N
EUR-TEC10-CNO	All quoted tenors	N/A	Per ISDA 2006	N
EUR-TEC10-CNO- SwapMarker	All quoted tenors	N/A	Per ISDA 2006	N
EUR-TEC10-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
EUR-TEC5-CNO	All quoted tenors	N/A	Per ISDA 2006	N
EUR-TEC5-CNO- SwapMarker	All quoted tenors	N/A	Per ISDA 2006	N
EUR-TEC5-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
EUR-TMM-CDC- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
GBP USD-Basis Swaps-11:00-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
GBP-ISDA-Swap Rate	All quoted tenors	N/A	Per ISDA 2006	N
GBP-LIBOR-BBA	All quoted tenors	N/A	Per ISDA 2006	N
GBP-LIBOR-BBA- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
GBP-LIBOR-ISDA	All quoted tenors	N/A	Per ISDA 2006	N
GBP-LIBOR-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
GBP-Semi-Annual Swap Rate	All quoted tenors	N/A	Per ISDA 2006	N
GBP-Semi-Annual Swap Rate-11:00-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
GBP-Semi-Annual Swap Rate-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
GBP-SONIA-OIS- 11:00-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
GBP-WMBA-RONIA- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
GBP-WMBA-SONIA- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
GRD-ATHIBOR- ATHIBOR	All quoted tenors	N/A	Per ISDA 2006	N
GRD-ATHIBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N

GRD-ATHIBOR- Telerate	All quoted tenors	N/A	Per ISDA 2006	N
GRD-ATHIMID- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
GRD-ATHIMID- Reuters	All quoted tenors	N/A	Per ISDA 2006	N
HKD-HIBOR-HIBOR- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
HKD-HIBOR-HIBOR=	All quoted tenors	N/A	Per ISDA 2006	N
HKD-HIBOR-HKAB	All quoted tenors	N/A	Per ISDA 2006	N
HKD-HIBOR-HKAB- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
HKD-HIBOR-ISDC	All quoted tenors	N/A	Per ISDA 2006	N
HKD-HIBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
HKD-HONIX-OIS- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
HKD-ISDA-Swap Rate-11:00	All quoted tenors	N/A	Per ISDA 2006	N
HKD-ISDA-Swap Rate-4:00	All quoted tenors	N/A	Per ISDA 2006	N
HKD-Quarterly-Annual Swap Rate-11:00- BGCANTOR	All quoted tenors	N/A	Per ISDA 2006	N
HKD-Quarterly-Annual Swap Rate-4:00- BGCANTOR	All quoted tenors	N/A	Per ISDA 2006	N
HKD-Quarterly-Annual Swap Rate-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
HUF-BUBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
HUF-BUBOR-Reuters	All quoted tenors	N/A	Per ISDA 2006	N
ILS-TELBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
ILS-TELBOR01- Reuters	All quoted tenors	N/A	Per ISDA 2006	N
INR-FBIL-MIBOR- OIS-COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
JPY USD-Basis Swaps- 11:00-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
JPY-BBSF-Bloomberg- 10:00	All quoted tenors	N/A	Per ISDA 2006	N
JPY-BBSF-Bloomberg- 15:00	All quoted tenors	N/A	Per ISDA 2006	N
JPY-ISDA-Swap Rate- 10:00	All quoted tenors	N/A	Per ISDA 2006	N

All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
	All quoted tenors	All quoted tenors N/A All quoted tenors N/A	All quoted tenors N/A Per ISDA 2006

MXN-TIIE-Banxico- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
MYR-KLIBOR-BNM	All quoted tenors	N/A	Per ISDA 2006	N
MYR-KLIBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
NOK-NIBOR-NIBR	All quoted tenors	N/A	Per ISDA 2006	N
NOK-NIBOR-NIBR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
NOK-NIBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
NZD-BBR-BID	All quoted tenors	N/A	Per ISDA 2006	N
NZD-BBR-FRA	All quoted tenors	N/A	Per ISDA 2006	N
NZD-BBR-ISDC	All quoted tenors	N/A	Per ISDA 2006	N
NZD-BBR-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
NZD-BBR-Telerate	All quoted tenors	N/A	Per ISDA 2006	N
NZD-NZIONA-OIS- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
NZD-Swap Rate-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
NZD-Swap Rate-ICAP- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
PHP-Semi-Annual Swap Rate-11:00- BGCANTOR	All quoted tenors	N/A	Per ISDA 2006	N
PHP-Semi-Annual Swap Rate-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
PLN-WIBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
PLN-WIBOR-WIBO	All quoted tenors	N/A	Per ISDA 2006	N
PLZ-WIBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
PLZ-WIBOR-WIBO	All quoted tenors	N/A	Per ISDA 2006	N
RON-RBOR-Reuters	All quoted tenors	N/A	Per ISDA 2006	N
RUB-Annual Swap Rate-11:00- BGCANTOR	All quoted tenors	N/A	Per ISDA 2006	N
RUB-Annual Swap Rate-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
RUB-MOSPRIME- NFEA	All quoted tenors	N/A	Per ISDA 2006	N
RUB-MOSPRIME- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
SAR-SRIOR-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
SAR-SRIOR-SUAA	All quoted tenors	N/A	Per ISDA 2006	N

SEK-Annual Swap Rate	All quoted tenors	N/A	Per ISDA 2006	N
SEK-Annual Swap Rate-SESWFI	All quoted tenors	N/A	Per ISDA 2006	N
SEK-SIOR-OIS- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
SEK-STIBOR- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
SEK-STIBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
SEK-STIBOR-SIDE	All quoted tenors	N/A	Per ISDA 2006	N
SGD-Semi-Annual Swap Rate-11:00- BGCANTOR	All quoted tenors	N/A	Per ISDA 2006	N
SGD-Semi-Annual Swap Rate-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
SGD-Semi-Annual Swap Rate-ICAP- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
SGD-Semi-Annual Swap Rate-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
SGD-SIBOR-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
SGD-SIBOR-Reuters	All quoted tenors	N/A	Per ISDA 2006	N
SGD-SIBOR-Telerate	All quoted tenors	N/A	Per ISDA 2006	N
SGD-SONAR-OIS- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
SGD-SONAR-OIS- VWAP-COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
SGD-SOR-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
SGD-SOR-Reuters	All quoted tenors	N/A	Per ISDA 2006	N
SGD-SOR-Telerate	All quoted tenors	N/A	Per ISDA 2006	N
SGD-SOR-VWAP	All quoted tenors	N/A	Per ISDA 2006	N
SGD-SOR-VWAP- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
THB-Semi-Annual Swap Rate-11:00- BGCANTOR	All quoted tenors	N/A	Per ISDA 2006	N
THB-Semi-Annual Swap Rate-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
THB-SOR-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
THB-SOR-Reuters	All quoted tenors	N/A	Per ISDA 2006	N
THB-SOR-Telerate	All quoted tenors	N/A	Per ISDA 2006	N

THB-THBFIX-Reuters	All quoted tenors	N/A	Per ISDA 2006	N
TRY-TRYIBOR- Reuters	All quoted tenors	N/A	Per ISDA 2006	N
TWD-Quarterly- Annual Swap Rate- 11:00-BGCANTOR	All quoted tenors	N/A	Per ISDA 2006	N
TWD-Quarterly- Annual Swap Rate- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
TWD-Reference Dealers	All quoted tenors	N/A	Per ISDA 2006	N
TWD-Reuters-6165	All quoted tenors	N/A	Per ISDA 2006	N
TWD-Telerate-6165	All quoted tenors	N/A	Per ISDA 2006	N
TWD-TWCPBA	All quoted tenors	N/A	Per ISDA 2006	N
USD-Annual Swap Rate-11:00- BGCANTOR	All quoted tenors	N/A	Per ISDA 2006	N
USD-BA-H.15	All quoted tenors	N/A	Per ISDA 2006	N
USD-BA-Reference Dealers	All quoted tenors	N/A	Per ISDA 2006	N
USD-BMA Municipal Swap Index	All quoted tenors	N/A	Per ISDA 2006	N
USD-CD-H.15	All quoted tenors	N/A	Per ISDA 2006	N
USD-CD-Reference Dealers	All quoted tenors	N/A	Per ISDA 2006	N
USD-CMS-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
USD-CMS-Reference Banks-ICAP SwapPX	All quoted tenors	N/A	Per ISDA 2006	N
USD-CMS-Reuters	All quoted tenors	N/A	Per ISDA 2006	N
USD-CMS-Telerate	All quoted tenors	N/A	Per ISDA 2006	N
USD-CMT-T7051	All quoted tenors	N/A	Per ISDA 2006	N
USD-CMT-T7052	All quoted tenors	N/A	Per ISDA 2006	N
USD-COF11-FHLBSF	All quoted tenors	N/A	Per ISDA 2006	N
USD-COF11-Reuters	All quoted tenors	N/A	Per ISDA 2006	N
USD-COF11-Telerate	All quoted tenors	N/A	Per ISDA 2006	N
USD-CP-H.15	All quoted tenors	N/A	Per ISDA 2006	N
USD-CP-Reference Dealers	All quoted tenors	N/A	Per ISDA 2006	N
USD-Federal Funds- H.15	All quoted tenors	N/A	Per ISDA 2006	N
USD-Federal Funds- H.15-Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
USD-Federal Funds- H.15-OIS- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N

USD-Federal Funds- Reference Dealers	All quoted tenors	N/A	Per ISDA 2006	N
USD-FFCB-DISCO	All quoted tenors	N/A	Per ISDA 2006	N
USD-ISDA-Swap Rate	All quoted tenors	N/A	Per ISDA 2006	N
USD-ISDA-Swap Rate- 3:00	All quoted tenors	N/A	Per ISDA 2006	N
USD-ISDAFIX3-Swap Rate	All quoted tenors	N/A	Per ISDA 2006	N
USD-ISDAFIX3-Swap Rate-3:00	All quoted tenors	N/A	Per ISDA 2006	N
USD-LIBOR-BBA	All quoted tenors	N/A	Per ISDA 2006	N
USD-LIBOR-BBA- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
USD-LIBOR-ISDA	All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
USD-LIBOR-LIBO	All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
USD-LIBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
USD-OIS-11:00- BGCANTOR	All quoted tenors	N/A	Per ISDA 2006	N
USD-OIS-11:00-LON- ICAP	All quoted tenors	N/A	Per ISDA 2006	N
USD-OIS-11:00-NY- ICAP	All quoted tenors	N/A	Per ISDA 2006	N
USD-OIS-3:00- BGCANTOR	All quoted tenors	N/A	Per ISDA 2006	N
USD-OIS-3:00-NY- ICAP	All quoted tenors	N/A	Per ISDA 2006	N
USD-Prime-H.15	All quoted tenors	N/A	Per ISDA 2006	N
USD-Prime-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
USD-S&P Index-High Grade	All quoted tenors	N/A	Per ISDA 2006	N
USD-SIBOR-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
USD-SIBOR-SIBO	All quoted tenors	N/A	Per ISDA 2006	N
USD-SIFMA Municipal Swap Index	All quoted tenors	N/A	Per ISDA 2006	N
USD-SOFR- COMPOUND	All quoted tenors	N/A	Prior to publication of a supplement to ISDA 2006 including USD- SOFR-COMPOUND, not applicable and thereafter, per ISDA 2006	No
USD-TBILL-H.15	All quoted tenors	N/A	Per ISDA 2006	N
	*			

USD-TBILL-H.15- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
USD-TBILL- Secondary Market	All quoted tenors	N/A	Per ISDA 2006	N
USD-TIBOR-ISDC	All quoted tenors	N/A	Per ISDA 2006	N
USD-TIBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
USD-Treasury Rate- ICAP BrokerTec	All quoted tenors	N/A	Per ISDA 2006	N
USD-Treasury Rate- SwapMarker100	All quoted tenors	N/A	Per ISDA 2006	N
USD-Treasury Rate- SwapMarker99	All quoted tenors	N/A	Per ISDA 2006	N
USD-Treasury Rate- T19901	All quoted tenors	N/A	Per ISDA 2006	N
USD-Treasury Rate- T500	All quoted tenors	N/A	Per ISDA 2006	N
VND-Semi-Annual Swap Rate-11:00- BGCANTOR	All quoted tenors	N/A	Per ISDA 2006	N
VND-Semi-Annual Swap Rate-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
ZAR-DEPOSIT- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
ZAR-DEPOSIT- SAFEX	All quoted tenors	N/A	Per ISDA 2006	N
ZAR-JIBAR-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
ZAR-JIBAR-SAFEX	All quoted tenors	N/A	Per ISDA 2006	N
ZAR-PRIME- AVERAGE	All quoted tenors	N/A	Per ISDA 2006	N
ZAR-PRIME- AVERAGE-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N

Definition of BRL Floating Rate Option

Floating Amount:	Notwithstanding anything to the contrary	
FX Rate ×	Currency Amount $\times \left[\prod_{j=1}^{N} \left(1 + \frac{Relevant \ Rate_j}{252} \right) - 1 \right]^{252/N}$	
	Where:	
	N=number of Reset Dates in the Calculation Period j =a particular Reset Date	
	<i>Relevant Rate</i> =the Relevant Rate for instance <i>j</i> of Reset Date	
BRL-CDI-CETIP:	For any Reset Date, the Overnight Brazilian Interbank Deposit	
	Rate Annualized, known as the average ("Media") of the	
	DIOVER- EXTRA Group as published by CETIP (Câmara de	

	Custódia e Liquidação) (the "Overnight CDI Rate") for such date; provided that (i) such rate is published not later than 12:00 p.m. on the Brazil Business Day next following such Reset Date and (ii) any adjustments made by CETIP to such rate at any time later than the end of the business day on such Reset Date shall not be taken into account. If for any Reset Date there is no published Overnight CDI Rate (including as a result of the proviso above), CDI for the relevant Reset Date will be the overnight deposit rate published for such date by the BM&F in accordance with its rules (see http://www.bmf.com.br/portal/pages/boletim1/bd_manual/indica doreFinanceiros1.asp, or any successor page). If the BM&F does not publish such a rate for such date, CDI for the relevant Reset Date shall be determined jointly by the parties. If the parties do not agree on a determination of such rate within one Brazil Business Day following the relevant Reset Date, CDI shall be determined through a CDI Reference Dealer Poll as
	described herein. If CDI for a Reset Date is not so determined by a CDI Reference Dealer Poll, BRL-CDI-Reference Dealers shall apply.
BRL-CDI-Reference Dealers:	If applicable for a Reset Date as set forth above, the Calculation Agent shall conduct up to four dealer polls commencing on the Brazil Business Day following the relevant Reset Date, in each case by requesting each of the CDI Reference Dealers to provide a quotation of the CDI. If at least four such quotations are obtained from CDI Reference Dealers in any such poll, the highest and lowest quotations will be disregarded and CDI for the relevant Reset Date will equal the arithmetic mean of the remaining quotations. If fewer than four such quotations are obtained from a poll, the Calculation Agent shall conduct additional such polls until four such quotations are obtained in any poll; provided that the Calculation Agent shall not conduct more than four polls in the aggregate (with not more than two polls on any day and with such polls conducted over not more than two Brazil Business Days). If four quotations are not obtained from any of such four polls, CDI shall CDI shall not be determined by a CDI Reference Dealer Poll.
CDI Reference Dealers:	At least six and not more than eight leading onshore dealers in the CDI market selected by the Calculation Agent.
Reset Dates ("resetDate"):	Each Scheduled Reset Date (as defined in the BRL CDI Best Practices).
Reset Dates Business Days:	As specified by the parties from among the Available BR Business Days.
Available BR Business Days:	Any of BR{SP,RJ, BR} and not otherwise declared a financial market holiday by the BM&F.

Definition of USD-SOFR-COMPOUND

From and after the date on which ISDA publishes a supplement to ISDA 2006 containing a definition of USD-SOFR-COMPOUND, per ISDA 2006

Prior to such date:

"USD-SOFR-COMPOUND" means that the rate for a Reset Date, calculated in accordance with the formula set forth below in this subparagraph, will be the rate of return of a daily compound interest investment (it being understood that the reference rate for the calculation of interest is SOFR). Upon the occurrence of a USD-SOFR-COMPOUND Index Cessation Event, the rate for each day in a Calculation Period occurring on or after the USD-SOFR-COMPOUND Index Cessation Effective Date will be determined as if references to SOFR were references to the rate (inclusive of any spreads or adjustments) formally designated, nominated or recommended as the replacement for SOFR by the Federal Reserve Board or a committee officially endorsed or convened by the Federal Reserve Board for purposes of designating, nominating or recommending a replacement for SOFR (which rate may be produced by the Federal Reserve Bank of New York or another administrator). If no such rate is formally designated, nominated or recommended within one U.S. Government Securities Business Day of the USD-SOFR-COMPOUND Index Cessation Event, the rate for each day in a Calculation Period occurring on or after the USD-SOFR-COMPOUND Index Cessation Effective Date will be determined as if references to SOFR were references to OBFR. If at the time of the USD-SOFR-COMPOUND Index Cessation Event, publication of OBFR has been permanently or indefinitely discontinued, it has been publicly announced that OBFR will be permanently or indefinitely discontinued as of a specific date or there has been a public statement by a regulator or other official sector entity prohibiting the use of OBFR (which statement applies to, but need not be limited to, Swap Transactions, including existing Swap Transactions), then the rate for each day in a Calculation Period occurring on or after the USD-SOFR-COMPOUND Index Cessation Effective Date will be determined as if references to SOFR were references to the FOMC Target Rate.

"USD-SOFR-COMPOUND" will be calculated as follows, and the resulting percentage will be rounded, if necessary, in accordance with the method set forth in Section 8.1(a):

$$\left[\prod_{i=1}^{d_o} \left(1 + \frac{\text{SOFR}_i \times n_i}{360} \right) - 1 \right] \times \frac{360}{d}$$

where:

"d₀", for any Calculation Period, is the number of U.S. Government Securities Business Days in the relevant Calculation Period;

"i" is a series of whole numbers from one to d_0 , each representing the relevant U.S. Government Securities Business Days in chronological order from, and including, the first U.S. Government Securities Business Day in the relevant Calculation Period;

"SOFR" is the daily Secured Overnight Financing Rate provided by the Federal Reserve Bank of New York, as the administrator of the benchmark, (or a successor administrator) on the Federal Reserve's Website;

"SOFR_i", for any day "i" in the relevant Calculation Period, is a reference rate equal to SOFR in respect of that day as published on or about 8:00 a.m., New York City time, on the U.S. Government Securities Business Day immediately following that day "i". If, by 5:00 p.m., New York City time, on the U.S. Government Securities Business Day immediately following any day "i", SOFR in respect of such day "i" has not been published and a USD-SOFR-COMPOUND Index Cessation Event has not occurred, then SOFR_i for that day "i" will be SOFR as published in respect of the first preceding U.S. Government Securities Business Day for which SOFR was published on the Federal Reserve's Website;

"n_i" is the number of calendar days in the relevant Calculation Period on which the rate is SOFR_i;

"d" is the number of calendar days in the relevant Calculation Period;

"USD-SOFR-COMPOUND Index Cessation Event" means the occurrence of one or more of the following events:

- (d) a public statement by the Federal Reserve Bank of New York (or a successor administrator of SOFR) announcing that it has ceased or will cease to provide SOFR permanently or indefinitely, provided that, at that time, there is no successor administrator that will continue to provide SOFR;
- (e) the publication of information which reasonably confirms that the Federal Reserve Bank of New York (or a successor administrator of SOFR) has ceased or will cease to provide SOFR permanently or indefinitely, provided that, at that time, there is no successor administrator that will continue to provide SOFR; or
- (f) a public statement by a regulator or other official sector entity prohibiting the use of SOFR that applies to, but need not be limited to, Swap Transactions, including existing Swap Transactions;

"USD-SOFR-COMPOUND Index Cessation Effective Date" means, in respect of a USD-SOFR-COMPOUND Index Cessation Event, the date on which the Federal Reserve Bank of New York (or a successor administrator of SOFR) ceases to publish SOFR or the date as of which SOFR may no longer be used; and

"OBFR" is the daily Overnight Bank Funding Rate as provided by the Federal Reserve Bank of New York, as the administrator of the benchmark, (or a successor administrator) on the Federal Reserve's Website.

"FOMC Target Rate" is the short-term interest rate target set by the Federal Open Markets Committee and published on the Federal Reserve's Website or, if the Federal Open Markets Committee does not target a single rate, the midpoint of the short-term interest rate target range set by the Federal Open Markets Committee and published on the Federal Reserve's Website (calculated as the arithmetic average of the upper bound of the target range and the lower bound of the target range, rounded, if necessary, in accordance with the method set forth in Section 8.1(c))

"Federal Reserve's Website" means the website of the Board of Governors of the Federal Reserve System at http://www.federalreserve.gov, or any Successor Source.

Fixed Floating Requirements and Defaults (Excluding Optional Early Termination and Mandatory Early Termination)

Variable	Requirement	Default
Effective Date Business Day		No Adjustment
Convention:		
Termination Date Business Day		No Adjustment
Convention:		
Period End Dates:		Payment Dates
Payment Date Business Day		Modified Following
Convention:		
Linear Interpolation:		Applicable only to long or short stub
		periods
Designated Maturities for Linear		Tenors quoted next shorter and
Interpolation:		longer than the actual Calculation
		Period length
Compounding:		Inapplicable
Compounding Business Day	Same as Business Day Convention	
Convention:	for Period End Dates	

Method of Averaging:	Weighted Average or Unweighted Average	Unweighted Average
Compounding Method:	Straight Compounding, Flat Compounding, Spread Exclusive Compounding	
ISDA MTM Matrix:		Applicable (to Mark-to-Market Cross Currency Swaps)
Initial Exchange Date:		Effective Date
Initial Exchange Date Business Day Convention:		Following
Interim Exchange Date Business Day Convention:		Modified Following
Final Exchange Date:		Termination Date
Final Exchange Date Business Day Convention:		Modified Following

Fixed Floating Requirements and Defaults (Optional Early Termination and Mandatory Early Termination)

Setting	Requirement	Default
Optional Early Termination:		Inapplicable
Mandatory Early Termination:		Inapplicable
Option Style:	American, Bermuda, European	
Cash Settlement:	Required for Mandatory Early	Applicable (i.e., Transaction is not
	Termination	"torn up for no value")
Optional Early Termination Date:		Cash Settlement Payment Date
Optional Early Termination Date		Following
Business Day Convention:		
Mandatory Early Termination Date		Modified Following
Business Day Convention		

Fixed Floating Requirements and Defaults (Optional Early Termination—Exercise)

Setting	Requirement	Default
Commencement Date:	American only	
Partial Exercise:		Inapplicable
Multiple Exercise:		Inapplicable
Exercise Business Day:		Banking Day for cash Settlement Currency (TARGET Settlement Day for EUR)
Latest Exercise Time:	On Expiration Date, the Expiration Time	Other than Expiration Date, the Expiration Time

Fixed Floating Requirements and Defaults (Cash Settlement)

Setting	Requirement/Choices	Default
Cash Settlement Amount:		
ISDA Cross Currency Settlement		Applicable, if cross currency swap
Matrix:		with currency pair included in
		Matrix
ISDA Settlement Matrix:		Applicable, if single currency swap
		with Currency included in Matrix
Cash Settlement Valuation Time:		

Cash Settlement Valuation Date:		Two Valuation Business Days before Mandatory/Optional Early Termination Date but same day for CAD, GBP or DKK with Floating Rate Option of "DKK-CIBOR- DKNA13" or "DKK-CIBOR- DKNA13-Bloomberg"
Valuation Business Day:		Banking Days in locations per the Business Day Location Table, plus additional days required by for fixings under the Floating Rate Option(s)
Cash Settlement Payment Date Business Day Convention:		Following
Cash Settlement Method:	Cash Price Cash Price—Alternate Method Collateralized Cash Price Par Yield Curve—Adjusted Par Yield Curve—Unadjusted Zero Coupon Yield—Adjusted	
Cash Settlement Currency:		For single currency, same as Notional Amount, otherwise as specified in ISDA Master Agreement, or otherwise same as Notional Amount for Fixed Amount
Settlement Rate:	ISDA Source/Other Price Source/Reference Banks	
Cash Settlement Reference Banks:		Fallbacks per ISDA 2006 Definitions
Quotation Rate:	bid ask mid Exercising Party Pays (Optional Early Termination Only)	

Fixed for Floating Interest Rate Swaptions Terms and Conditions

Summary:	This covers fixed for floating interest rate swaptions
Summary.	("Fixed for Floating Interest Rate Swaptions").
Limitations on Available Selections and Default	The terms under which a Fixed for Floating Interest Rate
Settings:	Swaption may be traded are as specified in these terms
6	and conditions and in the attached tables.
	For amounts or rates, the relevant term cannot be less
	than the specified Minimum, must represent an even
	Increment and cannot exceed the Maximum; for a date,
	the date cannot be earlier than Earliest nor later than
	Latest.
	For Business Days, the defaults shall be the locations
	specified for the relevant currency, any additional
	locations specified for the relevant Floating Rate
	Options.
	The parties may add additional locations from the
	Available Locations and may eliminate some or all of
	the other locations, so long as there is at least one location in which payment may be made.
	For these purposes "TARGET" is considered a location.
	In many cases there are normal "vanilla" terms on which
	the parties will transact.
	These are shown as "Default" and will apply unless the
	parties vary them.
	It should be noted that these contracts can be traded in a
	variety of currencies.
	Since each national market has its own peculiarities, the
	"Available Terms" and/or "Default Terms" may vary by
	currency.
	In some cases, the same contract might have different
	terms depending on the market in which it is traded (e.g.,
	London versus NY).
I	In that case the default settings may vary by market.
Incorporated Standards:	This contract description incorporates by reference the following industry standard documentation and
	standards:
	(a) 2006 ISDA Definitions
	(b) ISDA Settlement Matrix (if Optional Early
	Termination applies)
	(c) ISDA OTC Taxonomies
	(d) FpML Location Codes
	For convenience, certain terms are mapped to their
	FpML 5.5 equivalent.
Product Type/ISDA OTC Taxonomy:	
ISDA OTC Asset Class:	Interest Rate
ISDA OTC Sale Product:	IR Swap
ISDA OTC Sub-Product:	Fixed Floating
Further Limitations:	None
Terms:	
Terms of "Underlying Swap Transaction":	An amount in one of the Assistants Commencies (
Notional Amount ("notional"):	An amount in one of the Available Currencies (see below) agreed by the parties.
Effective Date ("effectiveDate"):	The date specified by the parties, adjusted in accordance
Effective Date (effectiveDate).	The date specified by the parties, adjusted in accordance

	T.,
	with any applicable Business Day Convention.
	The parties may express the unadjusted Effective Date as
	a number of Business Days or Banking Days from the
Effective Data Decimal David	Trade Date ("relativeEffectiveDate").
Effective Date Business Days:	As specified by the parties from among the Available Business Days.
Effective Date Business Day Convention:	As specified by the parties from among the Available
·	Business Day Conventions.
Termination Date ("terminationDate"):	The date specified by the parties, adjusted in accordance
	with any applicable Business Day Convention.
	The parties may express the unadjusted Termination
	Date as a number of days, months or years from the
	Effective Date ("relativeTerminationDate").
Termination Date Business Day Convention:	As specified by the parties from among the Available
	Business Day Conventions.
Fixed Amount:	
Fixed Rate Payer ("payerPartyReference"):	As specified by the parties.
Currency Amount ("notional Amount"):	As specified by the parties.
Fixed Rate Period End Dates ("unadjustedCalculation	As specified by the parties.
Period Date"):	A 'C' 11 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1
first Period End Date:	As specified by the parties if there is a short initial Calculation Period.
Eined Data Daymant Dates ("unadiusted Daymant Date").	
Fixed Rate Payment Dates ("unadjustedPaymentDate"): Day Count Fraction:	As specified by the parties. As specified by the parties.
Period End Dates Business Days:	As specified by the parties from among the Available
reflod Elid Dates Busiless Days.	Business Days.
Period End Dates Business Day Convention:	As specified by the parties from among the Available
Teriod Elid Dates Business Day Convention.	Business Day Conventions.
Payment Dates Business Days:	As specified by the parties from among the Available
	Business Days, subject to any Required Business Days.
Payment Dates Business Day Convention:	As specified by the parties from among the Available
, , , , , , , , , , , , , , , , , , ,	Business Day Conventions.
Floating Amount:	
Floating Rate Payer ("payerPartyReference"):	As specified by the parties.
Currency Amount ("notional Amount"):	As specified by the parties.
Period End Dates ("unadjustedCalculation Period	As specified by the parties.
Date"):	
first Period End Date:	As specified by the parties if there is a short initial
	Calculation Period.
Payment Dates ("unadjustedPaymentDate"):	As specified by the parties.
initial Floating Rate:	As specified by the parties.
Floating Rate Option ("floatingRateIndex"):	As specified by the parties.
Designated Maturity ('indexTenor'')	As specified by the parties.
Linear Interpolation:	For the Calculation Periods specified by the parties.
Shorter Designated Maturity for Linear Interpolation:	For a Calculation Period to which Linear Interpolation
	applies, as specified by the parties.
Longer Designated Maturity for Linear Interpolation	For a Calculation Period to which Linear Interpolation
9	applies, as specified by the parties.
Spread:	As specified by the parties.
Day Count Fraction:	As specified by the parties.
Reset Dates ("resetDate"):	As specified by the parties.
Method of Averaging:	As specified by the parties.
Compounding:	As specified by the parties.
Compounding Dates	In the event Compounding is selected, as selected by the

	parties.
Compounding Method (Compounding OR Flat	In the event Compounding is selected, as selected by the
Compounding):	parties.
Period End Dates Business Days:	As specified by the parties from among the Available
1 criod Elid Dates Busiliess Days.	Business Days.
Period End Dates Business Day Convention:	As specified by the parties from among the Available
1 criod End Dates Business Day Convention.	Business Day Conventions.
Payment Dates Business Days:	As specified by the parties from among the Available
1 ayment bates business bays.	Business Days, subject to any Required Business Days.
Payment Dates Business Day Convention:	As specified by the parties from among the Available
Tayment Dates Business Bay Convention.	Business Day Conventions.
Reset Dates Business Days:	As specified by the parties from among the Available
reset Bates Business Buys.	Business Days, subject to any Required Business Days.
Reset Dates Business Day Convention:	As specified by the parties from among the Available
reset Butes Business Buy Convention.	Business Day Conventions.
Swaption Terms:	Business Buy Conventions.
Option Style:	As specified by the parties.
Seller:	As specified by the parties.
Buyer:	As specified by the parties.
Seller's Agent:	As specified by the parties.
Premium:	As specified by the parties.
Premium Payment Date:	As specified by the parties.
Business Day Convention for Premium Payment Date:	As specified by the parties.
Business Days for Payments:	As specified by the parties from among the Available
Business Days for Layments.	Business Days, subject to any Required Business Days.
Exercise Business Days:	As specified by the parties.
Swaption Procedure for Exercise:	Tis specified by the parties.
Commencement Date:	As specified by the parties, if the Option Style is
	American.
Bermuda Option Exercise Dates:	As specified by the parties, if the Option Style is
1	Bermuda.
Expiration Date:	As specified by the parties.
Expiration Time:	As specified by the parties.
Earliest Exercise Time:	As specified by the parties.
Latest Exercise Time:	As specified by the parties.
Exercise Business Day:	As specified by the parties.
Partial Exercise:	As specified by the parties, if Option Style is European.
Multiple Exercise:	As specified by the parties, if Option Style is American
r	or Bermuda.
Minimum Notional Amount:	As specified by the parties if Partial Exercise or Multiple
	Exercise is specified.
Maximum Notional Amount:	As specified by the parties if Multiple Exercise is
	specified.
Integral Multiple:	As specified by the parties if Partial Exercise or Multiple
_ ^	Exercise is specified.
Automatic Exercise:	As specified by the parties.
Threshold:	As specified by the parties if Automatic Exercise is
	specified.
Fallback Exercise:	As specified by the parties (if required).
Swaption Settlement Terms:	
Cash Settlement	As specified by the parties.
Physical Settlement	As specified by the parties.
Cleared Physical Settlement	As specified by the parties.
ISDA Settlement Matrix:	As specified by the parties, if Cash Settlement is

Fixed for Floating Interest Rate Swaptions

ISDA Cross Currency Settlement Matrix: As specified by the parties, if Cash Settlement is applicable and the Underlying Swap Transaction is a cross-currency Transaction where the currency pair included in the Matrix. Cash Settlement Valuation Time: If Cash Settlement is applicable, as specified by the parties, directly or via the ISDA Settlement Matrix. Cash Settlement Valuation Date: If Cash Settlement is applicable, as specified by the parties, directly or via the ISDA Settlement Matrix. Valuation Business Days: If Cash Settlement is applicable, as specified by the	
applicable and the Underlying Swap Transaction is a cross-currency Transaction where the currency pair i included in the Matrix. Cash Settlement Valuation Time: If Cash Settlement is applicable, as specified by the parties, directly or via the ISDA Settlement Matrix. Cash Settlement Valuation Date: If Cash Settlement is applicable, as specified by the parties, directly or via the ISDA Settlement Matrix.	
cross-currency Transaction where the currency pair i included in the Matrix. Cash Settlement Valuation Time: If Cash Settlement is applicable, as specified by the parties, directly or via the ISDA Settlement Matrix. Cash Settlement Valuation Date: If Cash Settlement is applicable, as specified by the parties, directly or via the ISDA Settlement Matrix.	
included in the Matrix. Cash Settlement Valuation Time: If Cash Settlement is applicable, as specified by the parties, directly or via the ISDA Settlement Matrix. Cash Settlement Valuation Date: If Cash Settlement is applicable, as specified by the parties, directly or via the ISDA Settlement Matrix.	
Cash Settlement Valuation Time: If Cash Settlement is applicable, as specified by the parties, directly or via the ISDA Settlement Matrix. Cash Settlement Valuation Date: If Cash Settlement is applicable, as specified by the parties, directly or via the ISDA Settlement Matrix.	
parties, directly or via the ISDA Settlement Matrix. Cash Settlement Valuation Date: If Cash Settlement is applicable, as specified by the parties, directly or via the ISDA Settlement Matrix.	
Cash Settlement Valuation Date: If Cash Settlement is applicable, as specified by the parties, directly or via the ISDA Settlement Matrix.	
parties, directly or via the ISDA Settlement Matrix.	
Valuation Rusiness Days: If Cash Sattlament is applicable as specified by the	
variation business bays.	
parties, directly or via the ISDA Settlement Matrix.	
Cash Settlement Payment Date: If Cash Settlement is applicable, as specified by the	
parties, directly or via the ISDA Settlement Matrix.	
Cash Settlement Payment Date Business Days If Cash Settlement is applicable, as specified by the	
Convention: parties, directly or via the ISDA Settlement Matrix.	
Cash Settlement Method: If Cash Settlement is applicable, as specified by the	
parties from Available Cash Settlement Methods,	
directly or via the ISDA Settlement Matrix.	
Cash Settlement Currency: If Cash Settlement is applicable, and "Cash Price" or	
"Cash Price—Alternate" apply, as specified by the	
parties from Available Cash Settlement Methods,	
directly or via the ISDA Settlement Matrix.	
Settlement Rate: If Cash Settlement is applicable, and "Par Yield Curv	е—
Adjusted," "Par Yield Curve—Unadjusted" or "Zero	
Coupon Curve—Adjusted" apply, as specified by the	
parties from Available Cash Settlement Methods,	
directly or via the ISDA Settlement Matrix parties from	m
Available Cash Settlement Methods, directly or via t	e
ISDA Settlement Matrix.	
Cash Settlement Reference Banks: As specified by the parties, if Settlement Rate is	
applicable.	
Cash Settlement Reference Banks: If Cash Settlement is applicable, as specified by the	
parties.	
Quotation Rate: If Cash Settlement is applicable, as specified by the	
parties from among the Available Quotation Rates.	
Calculation Agent: As agreed by the parties.	

Fixed Floating Swaptions Available Currencies and Required Business Days

Three Letter Currency Code (ISDA/ISO)	Currency Name (ISDA)	Basic Business Day Locations For Currency (FpML Codes)
AUD	Australian Dollar	AUSY
CAD	Canadian Dollar	CATO
CHF	Swiss Franc	CHZU
EUR	Euro	EUTA
GBP	Sterling	GBLO
ILS	Israeli Shekel	ILTA
JPY	Japanese Yen	JPTO
MXN	Mexican Peso (New)	MXMC
SAR	Saudi Arabian Riyal	SARI
SEK	Swedish Krona	SEST
SGD	Singapore Dollar	SGSI
TRY	Turkish Lira	TRIS
USD	United States Dollars	USNY
ZAR	South African Rand	ZAJO

Fixed Floating Swaptions Available Business Day Conventions

ISDA Name
Following
Modified/Modified Following
No Adjustment
Preceding
FRN Convention/Eurodollar Convention

Fixed Floating Swaptions Underlying Swap Transaction Available Day Count Fractions

ISDA Name
1/1
30/360, 360/360, Bond Basis
Actual/360
Actual/365 (Fixed), Act/365 (Fixed), A/365 (Fixed), A/365F
Actual/Actual, Actual/Actual (ISDA), Act/Act, Act/Act (ISDA)
Actual/Actual (ICMA), Act/Act, Act/Act (ICMA)

Fixed Floating Swaptions Default Effective Dates

Currency	Default Effective Date
All Currencies Other than CAD, GBP, MXN	Plus Two Banking Days
MXN	Plus One Banking Day
CAD, GBP	Plus Zero

Fixed Floating Earliest and Latest Effective and Termination Dates

Currency	Earliest Effective	Latest Effective	Earliest Termination	Latest Termination
	Date	Date	Date	Date
N/A	N/A	N/A	N/A	N/A

Fixed Floating Swaptions Underlying Swap Transaction Notional Amounts

Currency	Minimum	Increment	Maximum	Default
AUD	25,000,000	100,000	N/A	N/A
CAD	5,000,000	100,000	N/A	N/A
CHF	10,000,000	1,000,000	N/A	N/A
EUR	25,000,000	100,000	N/A	N/A
GBP	25,000,000	100,000	N/A	N/A
ILS	5,000,000	100,000	N/A	N/A
JPY	2,500,000,000	100,000,000	N/A	N/A
MXN	10,000,000	1,000,000	N/A	N/A
SAR	5,000,000	100,000	N/A	N/A
SEK	5,000,000	100,000	N/A	N/A
SGD	5,000,000	100,000	N/A	N/A
TRY	5,000,000	100,000	N/A	N/A
USD	25,000,000	1,000,000	N/A	N/A
ZAR	5,000,000	100,000	N/A	N/A

Fixed Floating Swaptions Underlying Swap Transaction Rate Options and Defaults

Floating Rate Option	Available Tenors	Default Tenor	Default Day Count Fraction	Additional Business Day Locations
AUD-AONIA-OIS- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
AUD-AONIA-OIS- COMPOUND- SwapMarker	All quoted tenors	N/A	Per ISDA 2006	N
AUD-BBR-AUBBSW	All quoted tenors	N/A	Per ISDA 2006	N
AUD-BBR-BBSW	All quoted tenors	N/A	Per ISDA 2006	N
AUD-BBR-BBSW- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
AUD-BBR-BBSY (BID)	All quoted tenors	N/A	Per ISDA 2006	N
AUD-BBR-ISDC	All quoted tenors	N/A	Per ISDA 2006	N
AUD-LIBOR-BBA	All quoted tenors	N/A	Per ISDA 2006	N
AUD-LIBOR-BBA- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
AUD-LIBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
AUD-Quarterly Swap Rate-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
AUD-Quarterly Swap Rate-ICAP-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
AUD-Semi-annual Swap Rate-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
AUD-Semi-Annual Swap Rate-ICAP- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
AUD-Swap Rate-	All quoted tenors	N/A	Per ISDA 2006	N

Floating Rate Option	Available Tenors	Default Tenor	Default Day Count Fraction	Additional Business Day Locations
Reuters				
CAD-BA-CDOR	All quoted tenors	N/A	Per ISDA 2006	N
CAD-BA-CDOR- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
CAD-BA-Reuters	All quoted tenors	N/A	Per ISDA 2006	N
CAD-BA-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
CAD-TBILL-Reuters	All quoted tenors	N/A	Per ISDA 2006	N
CAD-TBILL-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
CAD-LIBOR-BBA	All quoted tenors	N/A	Per ISDA 2006	N
CAD-LIBOR-BBA- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
CAD-LIBOR-BBA- SwapMarker	All quoted tenors	N/A	Per ISDA 2006	N
CAD-LIBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
CAD-REPO-CORRA	All quoted tenors	N/A	Per ISDA 2006	N
CAD-CORRA-OIS- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
CAD-ISDA-Swap Rate	All quoted tenors	N/A	Per ISDA 2006	N
CHF USD-Basis Swaps-11:00-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
CHF-Annual Swap Rate	All quoted tenors	N/A	Per ISDA 2006	N
CHF-Annual Swap Rate-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
CHF-ISDAFIX-Swap Rate	All quoted tenors	N/A	Per ISDA 2006	N
CHF-LIBOR-BBA	All quoted tenors	N/A	Per ISDA 2006	N
CHF-LIBOR-BBA- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
CHF-LIBOR-ISDA	All quoted tenors	N/A	Per ISDA 2006	N
CHF-LIBOR-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
CHF-OIS-11:00-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
CHF-TOIS-OIS- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
EUR USD-Basis Swaps-11:00-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-10:00	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-10:00-Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N

Fixed for Floating Interest Rate Swaptions

Floating Rate Option	Available Tenors	Default Tenor	Default Day Count Fraction	Additional Business Day Locations
EUR-Annual Swap Rate-10:00-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-10:00- SwapMarker	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-11:00	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-11:00-Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-11:00-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-11:00- SwapMarker	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-3 Month	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-3 Month- SwapMarker	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EONIA- AVERAGE	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EONIA-OIS- 10:00-BGCANTOR	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EONIA-OIS- 10:00-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EONIA-OIS- 11:00-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EONIA-OIS- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EONIA-OIS- COMPOUND- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EONIA-Swap- Index	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EURIBOR- Act/365	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EURIBOR- Act/365-Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EURIBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EURIBOR- Reuters	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EURIBOR- Telerate	All quoted tenors	N/A	Per ISDA 2006	N

Floating Rate Option	Available Tenors	Default Tenor	Default Day Count Fraction	Additional Business Day Locations
EUR-EURONIA-OIS- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
EUR-ISDA-EURIBOR Swap Rate-11:00	All quoted tenors	N/A	Per ISDA 2006	N
EUR-ISDA-EURIBOR Swap Rate-12:00	All quoted tenors	N/A	Per ISDA 2006	N
EUR-ISDA-LIBOR Swap Rate-10:00	All quoted tenors	N/A	Per ISDA 2006	N
EUR-ISDA-LIBOR Swap Rate-11:00	All quoted tenors	N/A	Per ISDA 2006	N
EUR-LIBOR-BBA	All quoted tenors	N/A	Per ISDA 2006	N
EUR-LIBOR-BBA- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
EUR-LIBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
EUR-TAM-CDC	All quoted tenors	N/A	Per ISDA 2006	N
EUR-TEC10-CNO	All quoted tenors	N/A	Per ISDA 2006	N
EUR-TEC10-CNO- SwapMarker	All quoted tenors	N/A	Per ISDA 2006	N
EUR-TEC10-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
EUR-TEC5-CNO	All quoted tenors	N/A	Per ISDA 2006	N
EUR-TEC5-CNO- SwapMarker	All quoted tenors	N/A	Per ISDA 2006	N
EUR-TEC5-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
EUR-TMM-CDC- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
GBP USD-Basis Swaps-11:00-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
GBP-ISDA-Swap Rate	All quoted tenors	N/A	Per ISDA 2006	N
GBP-LIBOR-BBA	All quoted tenors	N/A	Per ISDA 2006	N
GBP-LIBOR-BBA- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
GBP-LIBOR-ISDA	All quoted tenors	N/A	Per ISDA 2006	N
GBP-LIBOR-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
GBP-Semi-Annual Swap Rate	All quoted tenors	N/A	Per ISDA 2006	N
GBP-Semi-Annual Swap Rate-11:00-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
GBP-Semi-Annual Swap Rate-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
GBP-SONIA-OIS-	All quoted tenors	N/A	Per ISDA 2006	N

Fixed for Floating Interest Rate Swaptions

Floating Rate Option	Available Tenors	Default Tenor	Default Day Count Fraction	Additional Business Day Locations
11:00-ICAP				
GBP-WMBA-RONIA- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
GBP-WMBA-SONIA- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
ILS-TELBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
ILS-TELBOR01- Reuters	All quoted tenors	N/A	Per ISDA 2006	N
JPY USD-Basis Swaps- 11:00-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
JPY-BBSF-Bloomberg- 10:00	All quoted tenors	N/A	Per ISDA 2006	N
JPY-BBSF-Bloomberg- 15:00	All quoted tenors	N/A	Per ISDA 2006	N
JPY-ISDA-Swap Rate- 10:00	All quoted tenors	N/A	Per ISDA 2006	N
JPY-ISDA-Swap Rate- 15:00	All quoted tenors	N/A	Per ISDA 2006	N
JPY-LIBOR-BBA	All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
JPY-LIBOR-BBA- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
JPY-LIBOR-FRASETT	All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
JPY-LIBOR-ISDA	All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
JPY-LIBOR-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
JPY-MUTANCALL- TONAR	All quoted tenors	N/A	Per ISDA 2006	N
JPY-OIS-11:00-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
JPY-TIBOR-17096	All quoted tenors	N/A	Per ISDA 2006	N
JPY-TIBOR-17097	All quoted tenors	N/A	Per ISDA 2006	N
JPY-TIBOR-TIBM (10 Banks)	All quoted tenors	N/A	Per ISDA 2006	N
JPY-TIBOR-TIBM (5 Banks)	All quoted tenors	N/A	Per ISDA 2006	N
JPY-TIBOR-TIBM (All Banks)	All quoted tenors	N/A	Per ISDA 2006	N
JPY-TIBOR-TIBM (All Banks)-Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
JPY-TIBOR-TIBM- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
JPY-TIBOR-ZTIBOR	All quoted tenors	N/A	Per ISDA 2006	N

Floating Rate Option	Available Tenors	Default Tenor	Default Day Count Fraction	Additional Business Day Locations
JPY-TONA-OIS- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
JPY-TSR-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
JPY-TSR-Reuters- 10:00	All quoted tenors	N/A	Per ISDA 2006	N
JPY-TSR-Reuters- 15:00	All quoted tenors	N/A	Per ISDA 2006	N
JPY-TSR-Telerate- 10:00	All quoted tenors	N/A	Per ISDA 2006	N
JPY-TSR-Telerate- 15:00	All quoted tenors	N/A	Per ISDA 2006	N
MXN-TIIE-Banxico	All quoted tenors	N/A	Per ISDA 2006	N
SAR-SRIOR-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
SAR-SRIOR-SUAA	All quoted tenors	N/A	Per ISDA 2006	N
SEK-Annual Swap Rate	All quoted tenors	N/A	Per ISDA 2006	N
SEK-Annual Swap Rate-SESWFI	All quoted tenors	N/A	Per ISDA 2006	N
SEK-SIOR-OIS- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
SEK-STIBOR- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
SEK-STIBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
SEK-STIBOR-SIDE	All quoted tenors	N/A	Per ISDA 2006	N
SGD-Semi-Annual Swap Rate-11:00- BGCANTOR	All quoted tenors	N/A	Per ISDA 2006	N
SGD-Semi-Annual Swap Rate-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
SGD-Semi-Annual Swap Rate-ICAP- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
SGD-Semi-Annual Swap Rate-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
SGD-SIBOR-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
SGD-SIBOR-Reuters	All quoted tenors	N/A	Per ISDA 2006	N
SGD-SIBOR-Telerate	All quoted tenors	N/A	Per ISDA 2006	N
SGD-SONAR-OIS- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
SGD-SONAR-OIS- VWAP-COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N

Floating Rate Option	Available Tenors	Default Tenor	Default Day Count Fraction	Additional Business Day Locations
SGD-SOR-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
SGD-SOR-Reuters	All quoted tenors	N/A	Per ISDA 2006	N
SGD-SOR-Telerate	All quoted tenors	N/A	Per ISDA 2006	N
SGD-SOR-VWAP	All quoted tenors	N/A	Per ISDA 2006	N
SGD-SOR-VWAP- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
TRY-Annual Swap Rate-11:15- BGCANTOR	All quoted tenors	N/A	Per ISDA 2006	N
TRY-Annual Swap Rate-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
TRY-TRYIBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
TRY-TRYIBOR- Reuters	All quoted tenors	N/A	Per ISDA 2006	N
USD-Annual Swap Rate-11:00- BGCANTOR	All quoted tenors	N/A	Per ISDA 2006	N
USD-BA-H.15	All quoted tenors	N/A	Per ISDA 2006	N
USD-BA-Reference Dealers	All quoted tenors	N/A	Per ISDA 2006	N
USD-BMA Municipal Swap Index	All quoted tenors	N/A	Per ISDA 2006	N
USD-CD-H.15	All quoted tenors	N/A	Per ISDA 2006	N
USD-CD-Reference Dealers	All quoted tenors	N/A	Per ISDA 2006	N
USD-CMS-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
USD-CMS-Reference Banks-ICAP SwapPX	All quoted tenors	N/A	Per ISDA 2006	N
USD-CMS-Reuters	All quoted tenors	N/A	Per ISDA 2006	N
USD-CMS-Telerate	All quoted tenors	N/A	Per ISDA 2006	N
USD-CMT-T7051	All quoted tenors	N/A	Per ISDA 2006	N
USD-CMT-T7052	All quoted tenors	N/A	Per ISDA 2006	N
USD-COF11-FHLBSF	All quoted tenors	N/A	Per ISDA 2006	N
USD-COF11-Reuters	All quoted tenors	N/A	Per ISDA 2006	N
USD-COF11-Telerate	All quoted tenors	N/A	Per ISDA 2006	N
USD-CP-H.15	All quoted tenors	N/A	Per ISDA 2006	N
USD-CP-Reference Dealers	All quoted tenors	N/A	Per ISDA 2006	N
USD-Federal Funds- H.15	All quoted tenors	N/A	Per ISDA 2006	N
USD-Federal Funds-	All quoted tenors	N/A	Per ISDA 2006	N

Fixed for Floating Interest Rate Swaptions

Floating Rate Option	Available Tenors	Default Tenor	Default Day Count Fraction	Additional Business Day Locations
H.15-Bloomberg				
USD-Federal Funds- H.15-OIS- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
USD-Federal Funds- Reference Dealers	All quoted tenors	N/A	Per ISDA 2006	N
USD-FFCB-DISCO	All quoted tenors	N/A	Per ISDA 2006	N
USD-ISDA-Swap Rate	All quoted tenors	N/A	Per ISDA 2006	N
USD-ISDA-Swap Rate- 3:00	All quoted tenors	N/A	Per ISDA 2006	N
USD-ISDAFIX3-Swap Rate	All quoted tenors	N/A	Per ISDA 2006	N
USD-ISDAFIX3-Swap Rate-3:00	All quoted tenors	N/A	Per ISDA 2006	N
USD-LIBOR-BBA	All quoted tenors	N/A	Per ISDA 2006	N
USD-LIBOR-BBA- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
USD-LIBOR-ISDA	All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
USD-LIBOR-LIBO	All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
USD-LIBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
USD-OIS-11:00- BGCANTOR	All quoted tenors	N/A	Per ISDA 2006	N
USD-OIS-11:00-LON- ICAP	All quoted tenors	N/A	Per ISDA 2006	N
USD-OIS-11:00-NY- ICAP	All quoted tenors	N/A	Per ISDA 2006	N
USD-OIS-3:00- BGCANTOR	All quoted tenors	N/A	Per ISDA 2006	N
USD-OIS-3:00-NY- ICAP	All quoted tenors	N/A	Per ISDA 2006	N
USD-Prime-H.15	All quoted tenors	N/A	Per ISDA 2006	N
USD-Prime-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
USD-S&P Index-High Grade	All quoted tenors	N/A	Per ISDA 2006	N
USD-SIBOR-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
USD-SIBOR-SIBO	All quoted tenors	N/A	Per ISDA 2006	N
USD-SIFMA Municipal Swap Index	All quoted tenors	N/A	Per ISDA 2006	N
USD-TBILL-H.15	All quoted tenors	N/A	Per ISDA 2006	N
USD-TBILL-H.15-	All quoted tenors	N/A	Per ISDA 2006	N

Floating Rate Option	Available Tenors	Default Tenor	Default Day Count Fraction	Additional Business Day Locations
Bloomberg				
USD-TBILL- Secondary Market	All quoted tenors	N/A	Per ISDA 2006	N
USD-TIBOR-ISDC	All quoted tenors	N/A	Per ISDA 2006	N
USD-TIBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
USD-Treasury Rate- ICAP BrokerTec	All quoted tenors	N/A	Per ISDA 2006	N
USD-Treasury Rate- SwapMarker100	All quoted tenors	N/A	Per ISDA 2006	N
USD-Treasury Rate- SwapMarker99	All quoted tenors	N/A	Per ISDA 2006	N
USD-Treasury Rate- T19901	All quoted tenors	N/A	Per ISDA 2006	N
USD-Treasury Rate- T500	All quoted tenors	N/A	Per ISDA 2006	N
VND-Semi-Annual Swap Rate-11:00- BGCANTOR	All quoted tenors	N/A	Per ISDA 2006	N
VND-Semi-Annual Swap Rate-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
ZAR-DEPOSIT- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
ZAR-DEPOSIT- SAFEX	All quoted tenors	N/A	Per ISDA 2006	N
ZAR-JIBAR-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
ZAR-JIBAR-SAFEX	All quoted tenors	N/A	Per ISDA 2006	N
ZAR-PRIME- AVERAGE	All quoted tenors	N/A	Per ISDA 2006	N
ZAR-PRIME- AVERAGE-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N

Fixed Floating Swaption Underlying Swap Transaction Requirements and Defaults

Variable	Requirement	Default
Effective Date Business Day		No Adjustment
Convention		
Termination Date Business Day		No Adjustment
Convention		
Period End Dates		Payment Dates
Payment Date Business Day		Modified Following
Convention		-
Linear Interpolation		Applicable only to long or short stub
		periods

Fixed for Floating Interest Rate Swaptions

Designated Maturities for Linear		Tenors quoted next shorter and
Interpolation		longer than the actual Calculation
		Period length
Compounding		Inapplicable
Compounding Business Day	Same as Business Day Convention	
Convention	for Period End Dates	
Method of Averaging	Weighted Average or Unweighted	Unweighted Average
	Average	
Compounding Method	Compounding or Flat Compounding	Compounding

Fixed Floating Swaption Requirements and Defaults

Setting	Requirement	Default
Option Style:	American, Bermuda, European	
Premium Payment Date Business		Following
Day Convention		

Fixed Floating Swaption Requirements and Defaults (Swaption—Exercise)

Setting	Requirement	Default
Commencement Date:	American only	
Partial Exercise:		Inapplicable
Multiple Exercise:		Inapplicable
Exercise Business Day		Banking Day for cash Settlement
		Currency (TARGET Settlement Day
		for EUR)
Latest Exercise Time	On Expiration Date, the Expiration	Other than Expiration Date, the
	Time	Expiration Time
Automatic Exercise		
Threshold		

Fixed Floating Swaption Requirements and Defaults (Swaption Cash Settlement)

Setting	Requirement/Choices	Default
Cash Settlement Amount		
ISDA Settlement Matrix		Applicable, if single currency swap
		with Currency included in Matrix
ISDA Cross Currency Settlement		Applicable, if cross currency swap
Matrix		with currency pair included in
		Matrix
Cash Settlement Valuation Time		
Cash Settlement Valuation Date		Two Valuation Business Days
		before Mandatory/Optional Early
		Termination Date but same day for
		CAD, GBP or DKK with Floating
		Rate Option of "DKK-CIBOR-
		DKNA13" or "DKK-CIBOR-
		DKNA13-Bloomberg"
Valuation Business Day		Banking Days in locations per the
		Business Day Location Table, plus
		additional days required by for
		fixings under the Floating Rate
		Option(s)

Fixed for Floating Interest Rate Swaptions

Cash Settlement Payment Date		Following
Business Day Convention		
Cash Settlement Method	Cash Price	
	Cash Price—Alternate Method	
	Collateralized Cash Price	
	Par Yield Curve—Adjusted	
	Par Yield Curve—Unadjusted	
	Zero Coupon Yield—Adjusted	
Cash Settlement Currency		For single currency, same as
		Notional Amount, otherwise as
		specified in ISDA Master
		Agreement, or otherwise same as
		Notional Amount for Fixed Amount
Settlement Rate	ISDA Source/Other Price	
	Source/Reference Banks	
Cash Settlement Reference Banks		Fallbacks per ISDA 2006
		Definitions
Quotation Rate	bid	
	ask	
	mid	

Forward Rate Agreements (Uncleared)

Summary:	This covers uncleared forward rate agreements		
	("Forward Rate Agreements" or "FRAs").		
Limitations on Available Selections and Default Settings:	The terms under which an FRA may be traded are as specified in these terms and conditions and in the attached tables.		
	For amounts or rates, the relevant term cannot be less than the specified Minimum, must represent an even Increment and cannot exceed the Maximum; for a date, the date cannot be earlier than Earliest nor later than Latest.		
	For Business Days, the defaults shall be the locations specified for the relevant currency, any additional locations specified for the relevant Floating Rate Options.		
	The parties may add additional locations from the Available Locations and may eliminate some or all of the other locations, so long as there is at least one location in which payment may be made. For these purposes "TARGET"/EUTA is considered a location.		
	In many cases there are normal "vanilla" terms on which the parties will transact. These are shown as "Default" and will apply unless the parties vary them.		
	It should be noted that these contracts can be traded in a variety of currencies. Since each national market has its own peculiarities, the "Available Terms" and/or "Default Terms" may vary by currency.		
	In some cases, the same contract might have different terms depending on the market in which it is traded (<i>e.g.</i> , London versus NY). In that case the default settings may vary by market.		
Incorporated Standards:	These terms and conditions incorporate by reference the following industry standard documentation and standards:		
	(a) 2006 ISDA Definitions(b) ISDA OTC Taxonomies(c) FpML Location Codes		
	For convenience, certain terms are mapped to their FpML 5.2.4 equivalent.		
Product Type/ISDA OTC Taxonomy:			
ISDA OTC Asset Class:	Interest Rate		
ISDA OTC Base Product:	FRA		
ISDA OTC Sub-Product:	N/A		
Further Limitations:	None		

Terms:		
Notional Amount ("notional"):	An amount in one of the Available Currencies (see	
	below) agreed by the parties.	
Effective Date ("adjustedEffectiveDate"):	The date specified by the parties, adjusted in accordance	
	with any applicable Business Day Convention.	
Effective Date Business Day Convention:	As specified by the parties from among the Available	
	Business Day Conventions.	
Termination Date ("adjustedTerminationDate"):	The date specified by the parties, adjusted in accordance	
	with any applicable Business Day Convention.	
Termination Date Business Day Convention:	As specified by the parties from among the Available	
	Business Day Conventions.	
Fixed Rate Payer ("buyerPartyReference"):	As specified by the parties.	
Fixed Rate ("fixedRate"):	As specified by the parties.	
Floating Rate Payer ("sellerPartyReference"):	As specified by the parties.	
Payment Date ("paymentDate"):	As specified by the parties.	
Floating Rate Option ("floatingIndex"):	As specified by the parties.	
Designated Maturity ("indexTenor"):	As specified by the parties.	
Spread:	As specified by the parties.	
Floating Rate Day Count Fraction	As specified by the parties.	
("dayCountFraction"):		
Reset Date:	The Effective Date.	
Discounting ("fraDiscounting"):	As specified by the parties.	
Business Days:	As specified by the parties.	
Calculation Agent:	As specified by the parties.	

FRA Available Currencies and Required Business Days

Three Letter Currency Code	Currency Name (ISDA)	Basic Business Day Locations
(ISDA/ISO)		For Currency (FpML Codes)
AUD	Australian Dollar	AUSY
CAD	Canadian Dollar	CATO
CHF	Swiss Franc	CHZU
CZK	Czech Koruna	CZPR
DKK	Danish Krone	DKCO
EUR	Euro	EUTA
GBP	Sterling	GBLO
HUF	Hungarian Forint	HUBU
ILS	Israeli Shekel	ILTA
JPY	Japanese Yen	JPTO
NOK	Norwegian Krone	NOOS
NZD	New Zealand Dollar	NZAU and NZWE
PLN	Polish Zloty	PLWA
SEK	Swedish Krona	SEST
USD	United States Dollars	USNY
ZAR	South African Rand	ZAJO

FRA Available Business Day Conventions

ISDA Name
Following
Modified/Modified Following
No Adjustment
Preceding

FRA Available Day Count Fractions

ISDA Name
30/360, 360/360, Bond Basis
Actual/360
Actual/365 (Fixed), Act/365 (Fixed), A/365 (Fixed), A/365F
Actual/Actual, Actual/Actual (ISDA), Act/Act, Act/Act (ISDA)
Actual/Actual (ICMA), Act/Act, Act/Act (ICMA)
1/1

FRA Notional Amounts

Currency	Minimum	Increment	Maximum	Default
AUD	5,000,000	100,000	N/A	N/A
CAD	5,000,000	100,000	N/A	N/A
CHF	5,000,000	100,000	N/A	N/A
CZK	5,000,000	100,000	N/A	N/A
DKK	5,000,000	100,000	N/A	N/A
EUR	5,000,000	100,000	N/A	N/A
GBP	5,000,000	100,000	N/A	N/A
HUF	5,000,000	100,000	N/A	N/A
ILS	5,000,000	100,000	N/A	N/A
JPY	500,000,000	10,000,000	N/A	N/A
NOK	5,000,000	100,000	N/A	N/A
NZD	5,000,000	100,000	N/A	N/A
PLN	5,000,000	100,000	N/A	N/A
SEK	5,000,000	100,000	N/A	N/A
USD	10,000,000	1,000,000	N/A	N/A
ZAR	5,000,000	100,000	N/A	N/A

FRA Floating Rate Options and Defaults

Currency	Floating Rate	Available	Default	Default Day	Additional	Default for
	Option (any	Tenors	Tenor	Count Fraction	Business	Currency
	from ISDA				Day	(Y/N)
	2006 if not				Locations	
	specified)					
AUD				Actual/360	N	
CAD						
CHF						
CZK				Actual/360	N	
DKK						
EUR						
GBP						
HUF						
ILS	ILS-	All quoted	N	Per ISDA 2006	N	Y
	TELBOR01-	_				
	Reuters					
JPY						
NOK						
NZD	NZD-BBR-	All quoted	N	Per ISDA 2006	N	Y
	FRA					
PLN						_

Forward Rate Agreements (Uncleared)

SEK					
USD	USD-LIBOR-	3M	Actual/360	GBLO	Y
	BBA				
ZAR					

FRA Discounting Types

ISDA Name	FpML	Default for (Currency)
FRA Discounting	ISDA	All but AUD
FRA Yield Discounting	AFMA	AUD
None	NONE	None

Forward Rate Agreements – CME Cleared

Summary:	This covers forward rate agreements ("FRAs") cleared by the Chicago Mercantile Exchange Inc. ("CME").
Limitations on Available Selections and Default Settings:	The terms under which a Forward Rate Agreement/CME Cleared may be traded are as specified in these terms and conditions, which incorporate the CME Rulebook, in particular Chapters 900 and 901 (and any successor provisions) and the CME Cleared IRS Product Scope (or any successor). By electing to trade a Forward Rate Agreement/CME Cleared, participants are representing that they are familiar with the CME Rulebook and the limitations on transaction terms contained in it.
Incorporated Standards:	This contract description incorporates by reference the CME Rulebook as in effect from time to time. The CME Rulebook itself may incorporate certain additional standards, such as the 2006 ISDA Definitions. Be aware that the timing of effectiveness of amendments or supplements to the ISDA standards may vary between bilateral and CME contracts, since the CME may reserve the right to select when and how such changes become effective.
Product Type/ISDA OTC Taxonomy:	
ISDA OTC Asset Class:	Interest Rate
ISDA OTC Base Product:	FRA
ISDA OTC Sub-Product(s):	N/A
Further Limitations:	Must comply with CME Clearing Requirements.
Terms:	
Definition Set:	The definition set (<i>e.g.</i> , ISDA 2000/ISDA2006) elected by, or otherwise binding on, the parties in accordance with the CME Rulebook.
Effective Date:	As per the CME Rulebook.
Notional Amount:	An amount in Currency determined by the parties subject to the limitations in the CME Rulebook. This may vary from period to period to the extent permitted by the CME Rulebook. The CME Rulebook may limit the Currencies and Floating Rate Options for which variable notionals are permitted.
Currency:	One of the currencies permitted for the relevant transaction type per the CME Rulebook.
Business Days:	As per the CME Rulebook, which may require certain Business Days be applicable on a per Currency or Floating Rate Option Basis and may otherwise limit the available Business Day locations which can be elected.
Business Day Convention:	As per the CME Rulebook.
Trade Date:	As per the CME Rulebook.
Settlement:	As per the CME Rulebook, in advance or arrears.
Termination Date:	As agreed by the parties, subject to any minimum or maximum tenor in the CME Rulebook.
Termination Date Business Day Convention:	As per the CME Rulebook, and thus subject to

	limitations based on other terms of the transaction.
Fixed Rate Payer Payment Dates:	As per the CME Rulebook.
Fixed Amount:	As per the CME Rulebook, which may permit use of a
	schedule.
Fixed Rate:	As agreed by the parties, subject to any minimum or
	maximum rate and per-period variability permitted in the
	CME Rulebook.
Floating Rate Payer Payment Dates:	As per the CME Rulebook.
Floating Amount:	As per the CME Rulebook.
Floating Rate Option:	As determined by the parties, subject to the CME
	Rulebook, which may provide a more limited list of
	available options for a Currency than does the Definition
	Set
Designated Maturity:	As per the CME Rulebook, which may provide a more
	limited set of Designated Maturities than does the
	related rate source page.
Spread:	Subject to any minimum or maximum rate and per-
	period variability permitted by the CME Rulebook.
Reset Dates:	As the per CME Rulebook.
Floating Rate Daycount Fraction:	As per the CME Rulebook.
FRA Discounting:	As per CME Rulebook, which may require different
	discounting conventions depending on payment
	convention.
Fixed Rate Payer:	As determined by the parties.
Floating Rate Payer:	As determined by the parties.
Payer for Additional Payment/Fees:	As determined by the parties, subject to limitations in
	the CME Rulebook.
Additional Payment/Fees:	As determined by the parties, subject to limitations in
	the CME Rulebook.
Payment Date for Additional Payment/Fees:	As determined by the parties, subject to limitations in
	the CME Rulebook.

Forward Rate Agreements – LCH Cleared

Summary:	This covers forward rate agreements ("FRAs") cleared
	by LCH.Clearnet ("LCH").
Limitations on Available Selections and Default Settings:	The terms under which a Forward Rate Agreement/LCH Cleared may be traded are as specified in these terms and conditions, which incorporate the LCH Rulebook, in particular Schedule 4A (or any successor provisions). By electing to trade a Forward Rate Agreement/LCH Cleared, participants are representing that they are familiar with the LCH Rulebook and the limitations on transaction terms contained in it.
Incorporated Standards:	This contract description incorporates by reference the
	LCH Rulebook as in effect from time to time. The LCH Rulebook itself may incorporate certain additional standards, such as the 2000 ISDA Definitions and 2006 ISDA Definitions. Be aware that the timing of effectiveness of amendments or supplements to the ISDA standards may vary between bilateral and LCH contracts, since the LCH may reserve the right to select when and
	how such changes become effective.
Product Type/ISDA OTC Taxonomy:	
ISDA OTC Asset Class:	Interest Rate
ISDA OTC Base Product:	FRA
ISDA OTC Sub-Product:	N/A
Further Limitations:	Must comply with LCH Clearing Requirements.
Terms:	
Definition Set:	The definition set (<i>e.g.</i> , ISDA 2000/ISDA2006) elected by, or otherwise binding on, the parties in accordance with the LCH Rulebook.
Notional Amount:	An amount in Currency determined by the parties subject to limitations in the LCH Rulebook. This may vary from period to period to the extent permitted by the LCH Rulebook. The LCH Rulebook may limit the Currencies and Floating Rate Options for which variable notionals are permitted.
Currency:	One of the currencies permitted for the relevant transaction type per the LCH Rulebook.
Trade Date:	As per the LCH Rulebook.
Effective Date:	As per the LCH Rulebook.
Termination Date:	As agreed by the parties, subject to any minimum or maximum tenor in the LCH Rulebook.
Payer for Additional Payment/Fees:	As determined by the parties, subject to the limitation in the LCH Rulebook.
Additional Payment/Fees:	As determined by the parties, subject to the limitation in the LCH Rulebook.
Payment Date for Additional Payment/Fees	As determined by the parties, subject to limitations in the LCH Rulebook, which may limit the earliest or latest day on which such fees may be paid based on Currency or other factors.
Business Days:	As per the LCH Rulebook, which may require certain

	Business Days be applicable on a per Currency or
	Floating Rate Option Basis and may otherwise limit the
	available Business Day locations which can be elected.
Business Day Convention:	As per the LCH Rulebook.
Fixed Rate Payer:	As determined by the parties.
Fixed Rate Payer Payment Dates:	As per the LCH Rulebook.
Fixed Amount:	As per the LCH Rulebook, which may permit use of a schedule.
Fixed Rate:	As agreed by the parties, subject to any minimum or
	maximum rate and per-period variability permitted in the
	LCH Rulebook.
Floating Rate Payer:	As determined by the parties.
Floating Rate Payer Payment Dates:	As per the LCH Rulebook.
Floating Amount:	As per the LCH Rulebook.
Floating Rate Option:	As determined by the parties, subject to the LCH
	Rulebook, which may provide a more limited list of
	available options for a Currency than does the Definition
	Set.
Designated Maturity:	As per the LCH Rulebook, which may provide a more
	limited set of Designated Maturities than does the
~	related rate source page.
Spread:	Subject to any minimum or maximum rate and per-
7	period variability permitted by the LCH Rulebook.
Reset Dates:	As the per LCH Rulebook.
Floating Rate Daycount Fraction:	As per the LCH Rulebook.
FRA Discounting:	As per the LCH Rulebook.
Discount Rate	As per the LCH Rulebook.
FRA Yield Discounting:	As per the LCH Rulebook.
Negative Interest Rates:	As per the LCH Rulebook, which may require use of a
W2-11-12	single method.
Withholding and Tax:	As per the LCH Rulebook.
Governing Law:	As per the LCH Rulebook, which may dictate the law
	applicable to the Transaction.

iBoxx Index Swaps

Summary:	This covers iBoxx index swaps (each, an "iBoxx Index
Limitations on Available Calcutions on D.C.	Swap") on a bilateral basis.
Limitations on Available Selections and Default Settings:	The terms under which an iBoxx Index Swap may be traded are shown below and in the attached tables.
	For amounts or rates, the relevant term cannot be less than the specified Minimum, must represent an even Increment and cannot exceed the Maximum; for a date, the date cannot be earlier than Earliest nor later than Latest.
	For Business Days, the defaults shall be the locations specified for the relevant currency and any additional locations specified for the relevant Floating Rate Options.
	The parties may add additional locations from the Available Locations and may eliminate some or all of the other locations, so long as there is at least one location in which payment may be made.
	For these purposes "TARGET" is considered a location.
	In many cases there are normal "vanilla" terms on which the parties will transact. These are shown as "Default" and will apply unless the parties vary them.
	It should be noted that these contracts can be traded in a variety of currencies. Since each national market has its own peculiarities, the "Available Terms" and/or "Default Terms" may vary by currency.
	In some cases, the same contract might have different terms depending on the market in which it is traded (<i>e.g.</i> , London versus NY). In that case the default settings may vary by market.
Incorporated Standards:	This contract description incorporates by reference the following industry standard documentation and standards:
	(a) 2006 ISDA Definitions
	(b) the iBoxx Index Transaction Standard Terms
	Supplement (current version or as specified by the parties) ("iBoxx STS")
	For convenience, certain terms are mapped to their
	FpML 5.5 equivalent.
Product Type/ISDA OTC Taxonomy:	
ISDA OTC Asset Class:	Credit
ISDA OTC Base Product:	Total Return Swap Index
ISDA OTC Sub-Product:	iBoxx
ISDA OTC Transaction type:	N/A

Further Limitations:	None
Terms:	
Trade Date:	As agreed by the parties.
Effective Date ("effectiveDate"):	The Business Day following the Trade Date, unless
	otherwise agreed by the parties.
Effective Date Business Days:	The Business Days specified below, unless otherwise
	specified by the parties.
Effective Date Business Day Convention:	The Business Day Convention specified below, unless
	otherwise specified by the parties.
Termination Date ("terminationDate"):	As specified in the iBoxx STS, unless otherwise agreed
	by the parties.
Notional Amount ("notional"):	An amount specified by the parties, which will be in the
	relevant Settlement Currency (unless otherwise agreed
	by the parties).
Index	As specified by the parties from among the Available
	Indices.
Index Buyer:	As agreed by the parties.
Index Seller:	As agreed by the parties.
Calculation Agent:	As specified in the iBoxx STS, unless otherwise agreed
	by the parties.
Settlement Currency:	The currency in which the Index is denominated.
Business Days:	As specified in the iBoxx STS for the relevant
	Settlement Currency, unless otherwise agreed by the
T7 /* A	parties.
Floating Amount:	1.1. D
Floating Rate Payer ("payerPartyReference"):	Index Buyer
Floating Rate Payer Period End Dates:	As specified in the iBoxx STS, unless otherwise agreed
Election Deta December Detail	by the parties
Floating Rate Payer Payment Dates:	As specified in the iBoxx STS, unless otherwise agreed
Linear Interpolation:	by the parties As specified in the iBoxx STS, unless otherwise agreed
Linear interpolation.	by the parties
Shorter Designated Maturity for Linear Interpolation:	For a Calculation Period to which Linear Interpolation
Shorter Designated Maturity for Emear Interpolation.	applies, per the Definitions unless otherwise agreed by
	the parties.
Longer Designated Maturity for Linear Interpolation	For a Calculation Period to which Linear Interpolation
Longer Beorgiated Materix for Emedi Interpolation	applies per the Definitions unless otherwise agreed by
	the parties.
Floating Rate Option:	As specified by the parties.
Floating Rate for the initial Calculation Period	As specified by the parties.
Spread:	As specified by the parties.
Designated Maturity ("indexTenor")	As specified in the iBoxx STS, unless otherwise agreed
	by the parties.
Floating Rate Day Count Fraction:	As specified in the iBoxx STS, unless otherwise agreed
	by the parties.
Reset Dates ("resetDate"):	As specified in the iBoxx STS, unless otherwise agreed
	by the parties.
Payment Dates Business Days:	The Business Days specified above, unless otherwise
	agreed by the parties.
Business Days (Other Than Payment Dates):	The Business Days specified above, unless otherwise
	agreed by the parties.
Business Day Convention (Other Than Payment Dates):	The Business Day Convention specified above, unless
	otherwise specified by the parties.

Index Return Amount:	
Index Return Amount Payment Date:	As specified in the iBoxx STS, unless otherwise agreed
	by the parties.
Initial Fixing Amount:	As agreed by the parties and rounded as specified in the
	iBoxx STS (unless the parties otherwise agree).
Final Fixing Amount:	As specified in the iBoxx STS, unless otherwise agreed
	by the parties.
Scheduled Final Fixing Date:	As specified by the parties, subject to the Business Day
	Convention (unless the parties otherwise agree).
Final Fixing Date:	As specified in the iBoxx STS, unless otherwise agreed
	by the parties.
Index Adjustment and Index Discontinuance Events:	As specified in the iBoxx STS, unless otherwise agreed
	by the parties.

iBoxx Index Available Currencies and Business Days

Three Letter Currency Code (ISDA/ISO)	Currency Name (ISDA)	Basic Business Day Locations For Currency (FpML Codes)
EUR	Euro	EUTA and GBLO
GBP	Sterling	EUTA and GBLO
USD	United States Dollars	USNY

iBoxx Index Available Business Day Conventions

ISDA Name
Following
Modified/Modified Following
No Adjustment
Preceding
FRN Convention/Eurodollar Convention

iBoxx Index Available Indices

Name	Currency
iBoxx EUR Corporates	EUR
iBoxx EUR Liquid High Yield Index	EUR
iBoxx GBP Corporates	GBP
iBoxx USD Domestic Corporates	USD
iBoxx USD Liquid High Yield Index	USD
iBoxx USD Liquid Investment Grade Index	USD
iBoxx USD Liquid Leveraged Loans Index	USD

iBoxx Index Available Day Count Fractions

ISDA Name	
1/1	
30/360, 360/360, Bond Basis	
Actual/360	
Actual/365 (Fixed), Act/365 (Fixed), A/365 (Fixed), A/365F	
Actual/Actual, Actual/Actual (ISDA), Act/Act, Act/Act (ISDA)	
Actual/Actual (ICMA), Act/Act, Act/Act (ICMA)	

iBoxx Index Floating Rate Options and Defaults

Floating Rate Option	Available Tenors	Default Tenor	Default Day Count Fraction	Additional Business Day Locations
USD-Annual Swap Rate-11:00- BGCANTOR	All quoted tenors	N/A	Per ISDA 2006	N
USD-BA-H.15	All quoted tenors	N/A	Per ISDA 2006	N
USD-BA-Reference Dealers	All quoted tenors	N/A	Per ISDA 2006	N
USD-BMA Municipal Swap Index	All quoted tenors	N/A	Per ISDA 2006	N
USD-CD-H.15	All quoted tenors	N/A	Per ISDA 2006	N
USD-CD-Reference Dealers	All quoted tenors	N/A	Per ISDA 2006	N
USD-CMS-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
USD-CMS-Reference Banks-ICAP SwapPX	All quoted tenors	N/A	Per ISDA 2006	N
USD-CMS-Reuters	All quoted tenors	N/A	Per ISDA 2006	N
USD-CMS-Telerate	All quoted tenors	N/A	Per ISDA 2006	N
USD-CMT-T7051	All quoted tenors	N/A	Per ISDA 2006	N
USD-CMT-T7052	All quoted tenors	N/A	Per ISDA 2006	N
USD-COF11-FHLBSF	All quoted tenors	N/A	Per ISDA 2006	N
USD-COF11-Reuters	All quoted tenors	N/A	Per ISDA 2006	N
USD-COF11-Telerate	All quoted tenors	N/A	Per ISDA 2006	N
USD-CP-H.15	All quoted tenors	N/A	Per ISDA 2006	N
USD-CP-Reference Dealers	All quoted tenors	N/A	Per ISDA 2006	N
USD-Federal Funds- H.15	All quoted tenors	N/A	Per ISDA 2006	N
USD-Federal Funds- H.15-Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
USD-Federal Funds- H.15-OIS- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
USD-Federal Funds- Reference Dealers	All quoted tenors	N/A	Per ISDA 2006	N
USD-FFCB-DISCO	All quoted tenors	N/A	Per ISDA 2006	N
USD-ISDA-Swap Rate	All quoted tenors	N/A	Per ISDA 2006	N
USD-ISDA-Swap Rate- 3:00	All quoted tenors	N/A	Per ISDA 2006	N
USD-ISDAFIX3-Swap Rate	All quoted tenors	N/A	Per ISDA 2006	N
USD-ISDAFIX3-Swap Rate-3:00	All quoted tenors	N/A	Per ISDA 2006	N
USD-LIBOR-BBA	All quoted tenors	N/A	Per ISDA 2006	N

USD-LIBOR-BBA- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
USD-LIBOR-ISDA	All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
USD-LIBOR-LIBO	All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
USD-LIBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
USD-OIS-11:00- BGCANTOR	All quoted tenors	N/A	Per ISDA 2006	N
USD-OIS-11:00-LON- ICAP	All quoted tenors	N/A	Per ISDA 2006	N
USD-OIS-11:00-NY- ICAP	All quoted tenors	N/A	Per ISDA 2006	N
USD-OIS-3:00- BGCANTOR	All quoted tenors	N/A	Per ISDA 2006	N
USD-OIS-3:00-NY- ICAP	All quoted tenors	N/A	Per ISDA 2006	N
USD-Prime-H.15	All quoted tenors	N/A	Per ISDA 2006	N
USD-Prime-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
USD-S&P Index-High Grade	All quoted tenors	N/A	Per ISDA 2006	N
USD-SIBOR-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
USD-SIBOR-SIBO	All quoted tenors	N/A	Per ISDA 2006	N
USD-SIFMA Municipal Swap Index	All quoted tenors	N/A	Per ISDA 2006	N
USD-TBILL-H.15	All quoted tenors	N/A	Per ISDA 2006	N
USD-TBILL-H.15- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
USD-TBILL- Secondary Market	All quoted tenors	N/A	Per ISDA 2006	N
USD-TIBOR-ISDC	All quoted tenors	N/A	Per ISDA 2006	N
USD-TIBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
USD-Treasury Rate- ICAP BrokerTec	All quoted tenors	N/A	Per ISDA 2006	N
USD-Treasury Rate- SwapMarker100	All quoted tenors	N/A	Per ISDA 2006	N
USD-Treasury Rate- SwapMarker99	All quoted tenors	N/A	Per ISDA 2006	N
USD-Treasury Rate- T19901	All quoted tenors	N/A	Per ISDA 2006	N
USD-Treasury Rate- T500	All quoted tenors	N/A	Per ISDA 2006	N
1300				

EUR USD-Basis Swaps-11:00-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-10:00	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-10:00-Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-10:00-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-10:00- SwapMarker	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-11:00	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-11:00-Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-11:00-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-11:00- SwapMarker	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-3 Month	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-3 Month- SwapMarker	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EONIA- AVERAGE	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EONIA-OIS- 10:00-BGCANTOR	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EONIA-OIS- 10:00-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EONIA-OIS- 11:00-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EONIA-OIS- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EONIA-OIS- COMPOUND- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EONIA-Swap- Index	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EURIBOR- Act/365	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EURIBOR- Act/365-Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EURIBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N

EUR-EURIBOR- Reuters	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EURIBOR- Telerate	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EURONIA-OIS- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
EUR-ISDA-EURIBOR Swap Rate-11:00	All quoted tenors	N/A	Per ISDA 2006	N
EUR-ISDA-EURIBOR Swap Rate-12:00	All quoted tenors	N/A	Per ISDA 2006	N
EUR-ISDA-LIBOR Swap Rate-10:00	All quoted tenors	N/A	Per ISDA 2006	N
EUR-ISDA-LIBOR Swap Rate-11:00	All quoted tenors	N/A	Per ISDA 2006	N
EUR-LIBOR-BBA	All quoted tenors	N/A	Per ISDA 2006	N
EUR-LIBOR-BBA- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
EUR-LIBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
EUR-TAM-CDC	All quoted tenors	N/A	Per ISDA 2006	N
EUR-TEC10-CNO	All quoted tenors	N/A	Per ISDA 2006	N
EUR-TEC10-CNO- SwapMarker	All quoted tenors	N/A	Per ISDA 2006	N
EUR-TEC10-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
EUR-TEC5-CNO	All quoted tenors	N/A	Per ISDA 2006	N
EUR-TEC5-CNO- SwapMarker	All quoted tenors	N/A	Per ISDA 2006	N
EUR-TEC5-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
EUR-TMM-CDC- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
GBP USD-Basis Swaps-11:00-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
GBP-ISDA-Swap Rate	All quoted tenors	N/A	Per ISDA 2006	N
GBP-LIBOR-BBA	All quoted tenors	N/A	Per ISDA 2006	N
GBP-LIBOR-BBA- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
GBP-LIBOR-ISDA	All quoted tenors	N/A	Per ISDA 2006	N
GBP-LIBOR-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
GBP-Semi-Annual Swap Rate	All quoted tenors	N/A	Per ISDA 2006	N
GBP-Semi-Annual Swap Rate-11:00-ICAP	All quoted tenors	N/A	Per ISDA 2006	N

iBoxx Index Swaps

GBP-Semi-Annual Swap Rate-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
GBP-SONIA-OIS- 11:00-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
GBP-WMBA-RONIA- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
GBP-WMBA-SONIA- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N

Inflation Swaps

Summary:	This covers inflation swaps ("Inflation Swaps").
Limitations on Available Selections and Default	The terms under which an Inflation Swap may be traded
Settings:	are as specified in these terms and conditions or in the
	attached tables.
	For amounts or rates, the relevant term cannot be less
	than the specified Minimum, must represent an even
	Increment and cannot exceed the Maximum; for a date, the date cannot be earlier than Earliest nor later than
	Latest.
	For Business Days, the defaults shall be the locations
	specified for the relevant currency, any additional
	locations specified for the relevant Floating Rate
	Options.
	The parties may add additional locations from the
	Available Locations and may eliminate some or all of
	the other locations, so long as there is at least one
	location in which payment may be made. For these
	purposes "TARGET" is considered a location.
	In many cases there are normal "vanilla" terms on which
	the parties will transact. These are shown as "Default"
	and will apply unless the parties vary them.
	It should be noted that these contracts can be traded in a
	variety of currencies. Since each national market has its
	own peculiarities, the "Available Terms" and/or "Default
	Terms" may vary by currency.
	In some cases, the same contract might have different
	terms depending on the market in which it is traded (e.g.,
	London versus NY). In that case the default settings may vary by market.
Incorporated Standards:	This contract description incorporates by reference the
Theorporated Standards.	following industry standard documentation and
	standards:
	(a) 2006 ISDA Definitions
	(b) 2008 ISDA Inflation Derivatives Definitions,
	including Supplements 1 and 2 thereto and any other
	Supplements through Trade Date
	(c) ISDA OTC Taxonomies
	(d) FpML Location Codes
	For convenience, cortain terms are manual to their
	For convenience, certain terms are mapped to their FpML 5.5 equivalent.
Product Type/ISDA OTC Taxonomy:	1 pivits 3.3 equivalent.
ISDA OTC Asset Class:	Interest Rate
ISDA OTC Base Product:	IR Swap
ISDA OTC Sub-Product:	Inflation
Further Limitations:	None
Terms:	
Notional Amount ("notional"):	An amount in one of the Available Currencies (see
	below) agreed by the parties.
Effective Date ("effectiveDate"):	The date specified by the parties, adjusted in accordance

	with any applicable Business Day Convention.
	The parties may express the unadjusted Effective Date as
	a number of Business Days or Banking Days from the
	Trade Date ("relativeEffectiveDate").
Effective Date Business Days:	As specified by the parties from among the Available Business Days.
Effective Date Business Day Convention:	As specified by the parties from among the Available Business Day Conventions.
Termination Date ("terminationDate"):	The date specified by the parties, adjusted in accordance with any applicable Business Day Convention. The parties may express the unadjusted Termination Date as a number of days, months or years from the Effective Date ("relativeTerminationDate").
Termination Date Business Day Convention:	As specified by the parties from among the Available Business Day Conventions.
Fixed Amount:	
Fixed Rate Payer ("payerPartyReference"):	As specified by the parties.
Fixed Amount:	As specified by the parties (in lieu of all items other than Payment Date(s)).
Fixed Rate Payment Date ("unadjustedPaymentDate"):	As specified by the parties.
Payment Dates Business Days:	As specified by the parties from among the Available Business Days, subject to any Required Business Days.
Payment Dates Business Day Convention:	As specified by the parties from among the Available Business Day Conventions.
Floating Amount:	
Floating Rate Payer ("payerPartyReference"):	As specified by the parties.
Currency Amount ("notional Amount"):	As specified by the parties.
Period End Dates ("unadjustedCalculation Period Date"):	As specified by the parties.
first Period End Date:	As specified by the parties if there is a short initial Calculation Period.
Payment Dates ("unadjustedPaymentDate"):	As specified by the parties.
initial Floating Rate:	As specified by the parties.
Floating Rate ("floatingRate"):	Notwithstanding the 2006 Definitions, "Floating Rate" will equal:
	$\frac{Index_Final}{Index_Initial} - 1$
	rounded in accordance with the 2008 ISDA Inflation Derivatives Definitions and subject to the Negative Interest Rate Treatment.
Index:	As specified by the parties from among the Available Inflation Indices.
Index_Initial ("initialIndexLevel"):	As specified by the parties.
Index_Final:	The Index level for the Reference Month(s) specified by the parties in the Reference Year(s) specified by the parties.
Reference Month(s):	As specified by the parties.
Reference Year(s)	As specified by the parties.
Day Count Fraction:	1/1
Reset Dates ("resetDate"):	As specified by the parties.
Method of Averaging:	As specified by the parties.
Payment Dates Business Days:	As specified by the parties from among the Available Business Days, subject to any Required Business Days.

Payment Dates Business Day Convention:	As specified by the parties from among the Available
	Business Day Conventions.
Negative Interest Rates ("negativeInterestRateMethod"):	As selected by the parties from among the Available
	Treatments.
Related Bond:	The bond, if any, specified by the parties as such.
Fallback Bond ("fallbackBondApplicable"):	As selected by the parties if no Related Bond is selected.
Calculation Agent:	As agreed by the parties.

Fixed Floating Available Currencies and Required Business Days

Three Letter Currency Code (ISDA/ISO)	Currency Name (ISDA)	Basic Business Day Locations For Currency (FpML Codes)
AUD	Australian Dollar	AUSY
EUR	Euro	EUTA
GBP	Sterling	GBLO
ILS	Israeli Shekel	ILTA
USD	United States Dollars	USNY

Fixed Floating Available Business Day Conventions

ISDA Name
Following
Modified/Modified Following
No Adjustment
Preceding
FRN Convention/Eurodollar Convention

Fixed Floating Available Day Count Fractions

	ISDA Name
1/1	

Fixed Floating Default Effective Dates

Currency	Default Effective Date
All Currencies Other than CAD, GBP	Plus Two Banking Days
CAD, GBP	Plus Zero

Fixed Floating Earliest and Latest Effective and Termination Dates

Currency	Earliest Effective	Latest Effective	Earliest Termination	Latest Termination
	Date	Date	Date	Date
N/A	N/A	N/A	N/A	N/A

Fixed Floating Notional Amounts

Currency	Minimum	Increment	Maximum	Default
EUR	5,000,000	100,000	N/A	N/A
GBP	5,000,000	100,000	N/A	N/A
USD	10,000,000	1,000,000	N/A	N/A

Inflation Swap Indices

Index Name	Description
AUD-CPI	Australia: AUD – Non-revised Consumer Price Index (CPI)
AUS-CPI	Austria: AUS – Non-revised Consumer Price Index (CPI)
AUS-HICP	Austria: AUS – Non-revised Harmonised Indices of Consumer Prices (HICP)
BLG-CPI-GI	Belgium: BLG – Non-revised Consumer Price Index - General Index (CPI)
BLG-CPI-HI	Belgium: BLG – Non-revised Consumer Price Index - Health Index (CPI)
BLG-HICP	Belgium: BLG – Non-revised Harmonised Consumer Price Index (HICP)
DEM-CPI	Germany: DEM – Non-revised Consumer Price Index (CPI)
DEM-CPI-NRW	Germany: DEM – Non-revised Consumer Price Index for North Rhine-Westphalia
DEM-HICP	Germany: DEM – Non-revised Harmonised Consumer Price Index (HICP)
ESP-CPI	Spain: ESP – National-Non-revised Consumer Price Index (CPI)
ESP-HICP	Spain: ESP – Harmonised-Non-revised Consumer Price Index (HICP)
ESP-R-CPI	Spain: ESP – National-Revised Consumer Price Index (CPI).
ESP-R-HICP	Spain: ESP – Harmonised-Revised Consumer Price Index (HICP)
EUR-AI-CPI	European Union: EUR – All Items-Non-revised Consumer Price Index
EUR-AI-R-CPI	European Union: EUR – All Items–Revised Consumer Price Index
EUR-EXT-CPI	European Union: EUR – Excluding Tobacco-Non-revised Consumer Price Index
EUR-EXT-R- CPI	European Union: EUR – Excluding Tobacco–Revised Consumer Price Index
FRC-EXT-CPI	France: FRC – Excluding Tobacco-Non-Revised Consumer Price Index
FRC-HICP	France: FRC – Harmonised-Non-revised Consumer Price Index (HICP)
GRD-CPI	Greece: GRD – Non-revised Consumer Price Index (CPI)
GRD-HICP	Greece: GRD – Harmonised-Non-revised Consumer Price Index (HICP)
ILS-CPI	Israel: ILS – Non-revised Consumer Price Index (CPI)
IRL-CPI	Ireland: IRL – Non-revised Consumer Price Index (CPI)
IRL-HICP	Ireland: IRL – Harmonised-Non-revised Consumer Price Index (HICP)

ITL-BC-EXT- CPI	Italy: ITL – Inflation for Blue Collar Workers and Employees–Excluding Tobacco Consumer Price Index
ITL-BC-INT- CPI	Italy: ITL – Inflation for Blue Collar Workers and Employees-Including Tobacco Consumer Price Index
ITL-HICP	Italy: ITL – Non-revised Harmonised Consumer Price Index (HICP)
ITL-WC-EXT- CPI	Italy: ITL – Whole Community –Excluding Tobacco Consumer Price Index
ITL-WC-INT- CPI	Italy: ITL – Whole Community –Including Tobacco Consumer Price Index
LUX-CPI	Luxembourg: LUX – Non-revised Consumer Price Index (CPI)
LUX-HICP	Luxembourg: LUX – Harmonised-Non-revised Consumer Price Index (HICP)
NLG-CPI	Netherlands: NLG – Non-revised Consumer Price Index (CPI)
NLG-HICP	Netherlands: NLG – Harmonised-Non-revised Consumer Price Index (HICP)
POR-CPI	Portugal: POR – Non-revised Consumer Price Index (CPI)
POR-HICP	Portugal: POR – Harmonised-Non-revised Consumer Price Index (HICP)
UK-HICP	United Kingdom: GBP – Harmonised-Non-revised Consumer Price Index (HICP)
UK-RPI	United Kingdom: GBP – Non-revised Retail Price Index (UKRPI)
UK-RPIX	United Kingdom: GBP – Non-revised Retail Price Index Excluding Mortgage Interest Payments (UKRPIX)
USA-CPI-U	United States: USA – Non-revised Consumer Price Index – Urban (CPI-U)

Fixed Floating Requirements and Defaults (Excluding Optional Early Termination and Mandatory Early Termination)

Variable	Requirement	Default
Fallback Bond:		Applicable

Interest Rate Caps/Floors

Summary:	This covers interest rate caps and floors ("Interest Rate
	Caps/Floors").
Limitations on Available Selections and Default	The terms under which an Interest Rate Cap/Floor may
Settings:	be traded are as specified in these terms and conditions
	and in the attached tables.
	For amounts or rates, the relevant term cannot be less
	than the specified Minimum, must represent an even Increment and cannot exceed the Maximum; for a date,
	the date cannot be earlier than Earliest nor later than
	Latest.
	For Business Days, the defaults shall be the locations
	specified for the relevant currency, any additional
	locations specified for the relevant Floating Rate
	Options.
	The parties may add additional locations from the
	Available Locations and may eliminate some or all of
	the other locations, so long as there is at least one
	location in which payment may be made. For these
	purposes "TARGET" is considered a location.
	In many cases there are normal "vanilla" terms on which
	the parties will transact. These are shown as "Default" and will apply unless the parties vary them.
	It should be noted that these contracts can be traded in a
	variety of currencies. Since each national market has its
	own peculiarities, the "Available Terms" and/or "Default
	Terms" may vary by currency.
	In some cases, the same contract might have different
	terms depending on the market in which it is traded (e.g.,
	London versus NY). In that case the default settings may
	vary by market.
Incorporated Standards:	This contract description incorporates by reference the
	following industry standard documentation and
	standards: (a) 2006 ISDA Definitions
	(b) ISDA Settlement Matrix (if Optional Early
	Termination applies)
	(c) ISDA OTC Taxonomies
	(d) FpML Location Codes
	For convenience, certain terms are mapped to their
	FpML 5.5 equivalent.
Product Type/ISDA OTC Taxonomy:	Y D.
ISDA OTC Page Product	Interest Rate
ISDA OTC Base Product: ISDA OTC Sub-Product:	IR Swap Cap/Floor
Further Limitations:	None
Terms:	110110
Notional Amount ("notional"):	An amount in one of the Available Currencies (see
The second of th	below) agreed by the parties.
Effective Date ("effectiveDate"):	The date specified by the parties, adjusted in accordance
,	with any applicable Business Day Convention.
	The parties may express the unadjusted Effective Date as

	a number of Business Days or Banking Days from the
	Trade Date ("relativeEffectiveDate").
Effective Date Business Days:	As specified by the parties from among the Available Business Days.
Effective Date Business Day Convention:	As specified by the parties from among the Available Business Day Conventions.
Termination Date ("terminationDate"):	The date specified by the parties, adjusted in accordance with any applicable Business Day Convention. The parties may express the unadjusted Termination Date as a number of days, months or years from the Effective Date ("relativeTerminationDate").
Termination Date Business Day Convention:	As specified by the parties from among the Available Business Day Conventions.
Fixed Amount 1:	Dubiness Duy Conveniens
Fixed Rate Payer ("payerPartyReference"):	As specified by the parties.
Currency Amount ("notional Amount"):	As specified by the parties.
Fixed Rate Period End Dates ("unadjustedCalculation Period Date"):	As specified by the parties.
first Period End Date:	As specified by the parties if there is a short initial Calculation Period.
Fixed Rate Payment Dates ("unadjustedPaymentDate"):	As specified by the parties.
Day Count Fraction:	As specified by the parties.
Reset Dates ("resetDate"):	As specified by the parties.
Period End Dates Business Days:	As specified by the parties from among the Available Business Days.
Period End Dates Business Day Convention:	As specified by the parties from among the Available Business Day Conventions.
Payment Dates Business Days:	As specified by the parties from among the Available Business Days, subject to any Required Business Days.
Payment Dates Business Day Convention:	As specified by the parties from among the Available Business Day Conventions.
Floating Amount:	
Floating Rate Payer ("payerPartyReference"):	As specified by the parties.
Currency Amount ("notional Amount"):	As specified by the parties.
Period End Dates ("unadjustedCalculation Period Date"):	As specified by the parties.
first Period End Date:	As specified by the parties if there is a short initial Calculation Period.
Payment Dates ("unadjustedPaymentDate"):	As specified by the parties.
Cap Rate:	As specified by the parties.
Floor Rate:	As specified by the parties.
initial Floating Rate:	As specified by the parties.
Floating Rate Option ("floatingRateIndex"):	As specified by the parties.
Designated Maturity ('indexTenor'')	As specified by the parties.
Linear Interpolation:	For the Calculation Periods specified by the parties.
Shorter Designated Maturity for Linear Interpolation:	For a Calculation Period to which Linear Interpolation applies, as specified by the parties.
Longer Designated Maturity for Linear Interpolation:	For a Calculation Period to which Linear Interpolation applies, as specified by the parties.
Spread:	As specified by the parties.
Day Count Fraction:	As specified by the parties.
Reset Dates ("resetDate"):	As specified by the parties.
Method of Averaging:	As specified by the parties.
Compounding:	As specified by the parties.
Compositions.	115 specified by the parties.

Compounding Dates:	In the event Compounding is selected, as selected by the
C 1' M.4 . 1/C	parties.
Compounding Method (Compounding OR Flat	In the event Compounding is selected, as selected by the
Compounding):	parties.
Period End Dates Business Days:	As specified by the parties from among the Available Business Days.
Period End Dates Business Day Convention:	As specified by the parties from among the Available Business Day Conventions.
Payment Dates Business Days:	As specified by the parties from among the Available Business Days, subject to any Required Business Days.
Payment Dates Business Day Convention:	As specified by the parties from among the Available Business Day Conventions.
Reset Dates Business Days:	As specified by the parties from among the Available Business Days, subject to any Required Business Days.
Reset Dates Business Day Convention:	As specified by the parties from among the Available Business Day Conventions.
Initial Exchange:	
Initial Exchange Date:	As specified by the parties.
Fixed Rate Payer Initial Exchange Amount:	As specified by the parties.
Floating Payer Initial Exchange Amount:	As specified by the parties.
Interim Exchanges:	The specified by the parties.
Interim Exchange Dates:	As specified by the parties.
Fixed Rate Payer Interim Exchange Amount:	As specified by the parties.
Fixed Rate Payer Interim Exchange Amount:	As specified by the parties.
Final Exchanges:	As specified by the parties.
Final Exchange Date:	As specified by the parties.
Fixed Rate Payer Final Exchange Amount:	As specified by the parties. As specified by the parties.
Fixed Payer Final Exchange Amount:	As specified by the parties.
Optional Early Termination:	A 'C' 11 (1
Optional Early Termination:	As specified by the parties.
Option Style:	As specified by the parties.
Optional Early Termination Date:	As specified by the parties.
Seller:	As specified by the parties if only one party can terminate.
Buyer:	As specified by the parties, if only one party can terminate.
Seller's Agent:	As specified by the parties, if only one party can terminate.
Business Days for Payments:	As specified by the parties from among the Available Business Days, subject to any Required Business Days.
Exercise Business Days:	As specified by the parties.
Optional Early Termination Procedure for Exercise:	
Commencement Date:	As specified by the parties, if the Option Style is American.
Bermuda Option Exercise Dates:	As specified by the parties, if the Option Style is Bermuda.
Expiration Date:	As specified by the parties.
Expiration Time:	As specified by the parties.
Earliest Exercise Time:	As specified by the parties.
Latest Exercise Time:	As specified by the parties.
Exercise Business Day:	As specified by the parties.
Partial Exercise:	As specified by the parties, if Option Style is European.
Multiple Exercise:	As specified by the parties, if Option Style is European. As specified by the parties, if Option Style is American
Multiple Exercise.	or Bermuda.

Minimum Notional Amount:	As specified by the parties if Partial Exercise or Multiple
Manimum National Amanut	Exercise is specified.
Maximum Notional Amount:	As specified by the parties if Multiple Exercise is specified.
Integral Multiple:	As specified by the parties if Partial Exercise or Multiple Exercise is specified.
Optional Early Termination Settlement Terms:	
Cash Settlement:	As specified by the parties.
ISDA Settlement Matrix:	As specified by the parties, if Cash Settlement is applicable.
Cash Settlement Valuation Time:	If Cash Settlement is applicable, as specified by the parties, directly or via the ISDA Settlement Matrix.
Cash Settlement Valuation Date:	If Cash Settlement is applicable, as specified by the parties, directly or via the ISDA Settlement Matrix.
Valuation Business Days:	If Cash Settlement is applicable, as specified by the parties, directly or via the ISDA Settlement Matrix.
Cash Settlement Payment Date:	If Cash Settlement is applicable, as specified by the parties, directly or via the ISDA Settlement Matrix.
Cash Settlement Payment Date Business Days	If Cash Settlement is applicable, as specified by the
Convention:	parties, directly or via the ISDA Settlement Matrix.
Cash Settlement Method:	If Cash Settlement is applicable, as specified by the
	parties from Available Cash Settlement Methods,
	directly or via the ISDA Settlement Matrix.
Cash Settlement Currency:	If Cash Settlement is applicable, and "Cash Price" or
	"Cash Price—Alternate" apply, as specified by the
	parties from Available Cash Settlement Methods,
	directly or via the ISDA Settlement Matrix.
Settlement Rate:	If Cash Settlement is applicable, and "Par Yield Curve—
	Adjusted," "Par Yield Curve—Unadjusted" or "Zero
	Coupon Curve—Adjusted" apply, as specified by the
	parties from Available Cash Settlement Methods,
	directly or via the ISDA Settlement Matrix parties from
	Available Cash Settlement Methods, directly or via the
	ISDA Settlement Matrix.
Cash Settlement Reference Banks:	As specified by the parties.
Quotation Rate:	If Cash Settlement is applicable, as specified by the
	parties from among the Available Quotation Rates.
Calculation Agent:	As agreed by the parties.

Cap/Floor Available Currencies and Required Business Days

Three Letter Currency Code (ISDA/ISO)	Currency Name (ISDA)	Basic Business Day Locations For Currency (FpML Codes)
EUR	Euro	EUTA
GBP	Pound Sterling	GBLO
JPY	Japanese Yen	JPTO
MXN	Mexican Peso (New)	MXMC
SEK	Swedish Krona	SEST
USD	United States Dollars	USNY
ZAR	South African Rand	ZAJO

Cap/Floor Available Business Day Conventions

	ISDA Name
Following	
Modified/Modified Following	
No Adjustment	
Preceding	
FRN Convention/Eurodollar Convention	

Cap/Floor Available Day Count Fractions

ISDA Name
1/1
30/360, 360/360, Bond Basis
Actual/360
Actual/365 (Fixed), Act/365 (Fixed), A/365 (Fixed), A/365F
Actual/Actual, Actual/Actual (ISDA), Act/Act, Act/Act (ISDA)
Actual/Actual (ICMA), Act/Act, Act/Act (ICMA)

Cap/Floor Default Effective Dates

Currency	Default Effective Date
All Currencies Other than CAD, GBP, MXN	Plus Two Banking Days
MXN	Plus One Banking Day
CAD, GBP	Plus Zero

Cap/Floor Earliest and Latest Effective and Termination Dates

Currency	Earliest Effective	Latest Effective	Earliest Termination	Latest Termination
	Date	Date	Date	Date
N/A	N/A	N/A	N/A	N/A

Cap/Floor Notional Amounts

Currency	Minimum	Increment	Maximum	Default
EUR	5,000,000	100,000	N/A	N/A
GBP	25,000,000	100,000	N/A	N/A
JPY	2,500,000,000	100,000,000	N/A	N/A
MXN	10,000,000	1,000,000	N/A	N/A
SEK	5,000,000	100,000	N/A	N/A
USD	25,000,000	1,000,000	N/A	N/A
ZAR	5,000,000	100,000	N/A	N/A

Cap/Floor Floating Rate Options and Defaults

Floating Rate Option	Available Tenors	Default Tenor	Default Day Count Fraction	Additional Business Day Locations
EUR USD-Basis Swaps-11:00-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-10:00	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap	All quoted tenors	N/A	Per ISDA 2006	N

Rate-10:00-Bloomberg				
EUR-Annual Swap Rate-10:00-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-10:00- SwapMarker	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-11:00	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-11:00-Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-11:00-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-11:00- SwapMarker	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-3 Month	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-3 Month- SwapMarker	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EONIA- AVERAGE	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EONIA-OIS- 10:00-BGCANTOR	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EONIA-OIS- 10:00-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EONIA-OIS- 11:00-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EONIA-OIS- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EONIA-OIS- COMPOUND- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EONIA-Swap- Index	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EURIBOR- Act/365	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EURIBOR- Act/365-Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EURIBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EURIBOR- Reuters	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EURIBOR- Telerate	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EURONIA-OIS-	All quoted tenors	N/A	Per ISDA 2006	N

COMPOUND				
EUR-ISDA-EURIBOR Swap Rate-11:00	All quoted tenors	N/A	Per ISDA 2006	N
EUR-ISDA-EURIBOR Swap Rate-12:00	All quoted tenors	N/A	Per ISDA 2006	N
EUR-ISDA-LIBOR Swap Rate-10:00	All quoted tenors	N/A	Per ISDA 2006	N
EUR-ISDA-LIBOR Swap Rate-11:00	All quoted tenors	N/A	Per ISDA 2006	N
EUR-LIBOR-BBA	All quoted tenors	N/A	Per ISDA 2006	N
EUR-LIBOR-BBA- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
EUR-LIBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
EUR-TAM-CDC	All quoted tenors	N/A	Per ISDA 2006	N
EUR-TEC10-CNO	All quoted tenors	N/A	Per ISDA 2006	N
EUR-TEC10-CNO- SwapMarker	All quoted tenors	N/A	Per ISDA 2006	N
EUR-TEC10-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
EUR-TEC5-CNO	All quoted tenors	N/A	Per ISDA 2006	N
EUR-TEC5-CNO- SwapMarker	All quoted tenors	N/A	Per ISDA 2006	N
EUR-TEC5-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
EUR-TMM-CDC- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
GBP-LIBOR-BBA	All quoted tenors	N/A	Per ISDA 2006	N
GBP-WMBA-SONIA- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
JPY-LIBOR-BBA	All quoted tenors	N/A	Per ISDA 2006	N
JPY-TIBOR-17096	All quoted tenors	N/A	Per ISDA 2006	N
JPY-TIBOR-17097	All quoted tenors	N/A	Per ISDA 2006	N
MXN-TIIE-Banxico	All quoted tenors	N/A	Per ISDA 2006	N
SEK-Annual Swap Rate	All quoted tenors	N/A	Per ISDA 2006	N
SEK-Annual Swap Rate-SESWFI	All quoted tenors	N/A	Per ISDA 2006	N
SEK-SIOR-OIS- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
SEK-STIBOR- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
SEK-STIBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
SEK-STIBOR-SIDE	All quoted tenors	N/A	Per ISDA 2006	N
USD-Annual Swap	All quoted tenors	N/A	Per ISDA 2006	N

All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
	All quoted tenors	All quoted tenors N/A All quoted tenors N/A	All quoted tenors N/A Per ISDA 2006

USD-LIBOR-LIBO	All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
USD-LIBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
USD-OIS-11:00- BGCANTOR	All quoted tenors	N/A	Per ISDA 2006	N
USD-OIS-11:00-LON- ICAP	All quoted tenors	N/A	Per ISDA 2006	N
USD-OIS-11:00-NY- ICAP	All quoted tenors	N/A	Per ISDA 2006	N
USD-OIS-3:00- BGCANTOR	All quoted tenors	N/A	Per ISDA 2006	N
USD-OIS-3:00-NY- ICAP	All quoted tenors	N/A	Per ISDA 2006	N
USD-Prime-H.15	All quoted tenors	N/A	Per ISDA 2006	N
USD-Prime-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
USD-S&P Index-High Grade	All quoted tenors	N/A	Per ISDA 2006	N
USD-SIBOR-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
USD-SIBOR-SIBO	All quoted tenors	N/A	Per ISDA 2006	N
USD-SIFMA Municipal Swap Index	All quoted tenors	N/A	Per ISDA 2006	N
USD-TBILL-H.15	All quoted tenors	N/A	Per ISDA 2006	N
USD-TBILL-H.15- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
USD-TBILL- Secondary Market	All quoted tenors	N/A	Per ISDA 2006	N
USD-TIBOR-ISDC	All quoted tenors	N/A	Per ISDA 2006	N
USD-TIBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
USD-Treasury Rate- ICAP BrokerTec	All quoted tenors	N/A	Per ISDA 2006	N
USD-Treasury Rate- SwapMarker100	All quoted tenors	N/A	Per ISDA 2006	N
USD-Treasury Rate- SwapMarker99	All quoted tenors	N/A	Per ISDA 2006	N
USD-Treasury Rate- T19901	All quoted tenors	N/A	Per ISDA 2006	N
USD-Treasury Rate- T500	All quoted tenors	N/A	Per ISDA 2006	N
VND-Semi-Annual Swap Rate-11:00- BGCANTOR	All quoted tenors	N/A	Per ISDA 2006	N
VND-Semi-Annual Swap Rate-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N

ZAR-DEPOSIT- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
ZAR-DEPOSIT- SAFEX	All quoted tenors	N/A	Per ISDA 2006	N
ZAR-JIBAR-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
ZAR-JIBAR-SAFEX	All quoted tenors	N/A	Per ISDA 2006	N
ZAR-PRIME- AVERAGE	All quoted tenors	N/A	Per ISDA 2006	N
ZAR-PRIME- AVERAGE-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N

Cap/Floor Requirements and Defaults (Excluding Optional Early Termination and Mandatory Early Termination)

Variable	Requirement	Default
Effective Date Business Day		No Adjustment
Convention:		-
Termination Date Business Day		No Adjustment
Convention:		
Period End Dates:		Payment Dates
Payment Date Business Day		Modified Following
Convention:		
Linear Interpolation:		Applicable only to long or short stub
		periods
Designated Maturities for Linear		Tenors quoted next shorter and
Interpolation:		longer than the actual Calculation
		Period length
Compounding:		Inapplicable
Compounding Business Day	Same as Business Day Convention	
Convention:	for Period End Dates	
Method of Averaging:	Weighted Average or Unweighted Average	Unweighted Average
Compounding Method:	Compounding or Flat Compounding	Compounding
Initial Exchange Date:		Effective Date
Initial Exchange Date Business Day		Following
Convention:		
Interim Exchange Date Business		Modified Following
Day Convention:		
Final Exchange Date:		Termination Date
Final Exchange Date Business Day		Modified Following
Convention:		

Cap/Floor Requirements and Defaults (Optional Early Termination and Mandatory Early Termination)

Setting	Requirement	Default
Optional Early Termination:		Inapplicable
Mandatory Early Termination:		Inapplicable
Option Style:	American, Bermuda, European	
Cash Settlement:	Required for Mandatory Early	Applicable (i.e., Transaction is not
	Termination	"torn up for no value")

Optional Early Termination Date:	Cash Settlement Payment Date
Optional Early Termination Date	Following
Business Day Convention:	
Mandatory Early Termination Date	Modified Following
Business Day Convention:	_

Cap/Floor Requirements and Defaults (Optional Early Termination—Exercise)

Setting	Requirement	Default
Commencement Date:	American only	
Partial Exercise:		Inapplicable
Multiple Exercise:		Inapplicable
Exercise Business Day:		Banking Day for cash Settlement Currency (TARGET Settlement Day for EUR)
Latest Exercise Time:	On Expiration Date, the Expiration Time	Other than Expiration Date, the Expiration Time

Cap/Floor Requirements and Defaults (Cash Settlement)

Setting	Requirement/Choices	Default
Cash Settlement Amount:		
ISDA Settlement Matrix:		Applicable, if single currency swap with Currency included in Matrix
Cash Settlement Valuation Time:		
Cash Settlement Valuation Date:		Two Valuation Business Days before Mandatory/Optional Early Termination Date but same day for CAD, GBP or DKK with Floating Rate Option of "DKK-CIBOR-DKNA13" or "DKK-CIBOR-DKNA13" bloomberg"
Valuation Business Day:		Banking Days in locations per the Business Day Location Table, plus additional days required by for fixings under the Floating Rate Option(s)
Cash Settlement Payment Date Business Day Convention:		Following
Cash Settlement Method:	Cash Price Cash Price—Alternate Method Par Yield Curve—Adjusted Par Yield Curve—Unadjusted Zero Coupon Yield—Adjusted	
Cash Settlement Currency:		For single currency, same as Notional Amount, otherwise as specified in ISDA Master Agreement, or otherwise same as Notional Amount for Fixed Amount
Settlement Rate:	ISDA Source/Other Price Source/Reference Banks	

Interest Rate Caps/Floors

Cash Settlement Reference Banks:		Fallbacks per ISDA 2006 Definitions
Quotation Rate:	bid	
	ask	
	mid	
	Exercising Party Pays (Optional	
	Early Termination Only)	

<u>Interest Rate Swaps – ASX Cleared</u>

Summary:	This covers interest rate swaps cleared by ASX Clear
	(Futures) Pty Limited ("ASX") (such swaps, "Interest
	Rate Swaps – ASX Cleared").
Limitations on Available Selections and Default	The terms under which an Interest Rate Swap – ASX
Settings:	Cleared may be traded are as specified in these terms
	and conditions, which incorporate the ASX OTC
	Rulebook and the ASX OTC Handbook (collectively,
	the "ASX Rules"), in particular Schedule 1 to the ASX
	OTC Handbook (and any successor provisions).
	By electing to trade a Single Currency Fixed for
	Floating Interest Rate Swap – ASX Cleared,
	participants are representing that they are familiar
	with the ASX Rules and the limitations on
	transaction terms contained therein.
	In particular, participants represent that they are
	familiar with the limitations on transactions for US
	Persons set forth in Section 4.3 of the ASX OTC
T 10(1 1	Handbook (or any successor provisions).
Incorporated Standards:	This contract description incorporates by reference the
	ASX Rules as in effect from time to time.
	The ASX Rules themselves may incorporate certain
	additional standards, such as the 2006 ISDA Definitions.
	Be aware that the timing of effectiveness of
	amendments or supplements to the ISDA standards may vary between bilateral and ASX-cleared
	contracts, since ASX may reserve the right to select when and how such changes become effective.
Product Type/ISDA OTC Taxonomy:	when and how such changes become effective.
Product Type/ISDA OTC Taxonomy: ISDA OTC Asset Class:	
	when and how such changes become effective.
ISDA OTC Asset Class:	when and how such changes become effective. Interest Rate
ISDA OTC Asset Class: ISDA OTC Base Product:	when and how such changes become effective. Interest Rate IR Swap
ISDA OTC Asset Class: ISDA OTC Base Product: ISDA OTC Sub-Product(s):	when and how such changes become effective. Interest Rate IR Swap Fixed Float, OIS and Basis
ISDA OTC Asset Class: ISDA OTC Base Product: ISDA OTC Sub-Product(s): Further Limitations:	when and how such changes become effective. Interest Rate IR Swap Fixed Float, OIS and Basis
ISDA OTC Asset Class: ISDA OTC Base Product: ISDA OTC Sub-Product(s): Further Limitations: Terms:	Interest Rate IR Swap Fixed Float, OIS and Basis Must comply with the ASX Rules.
ISDA OTC Asset Class: ISDA OTC Base Product: ISDA OTC Sub-Product(s): Further Limitations: Terms: Definition Set:	when and how such changes become effective. Interest Rate IR Swap Fixed Float, OIS and Basis Must comply with the ASX Rules. The definition set (e.g., ISDA 2006, as amended)
ISDA OTC Asset Class: ISDA OTC Base Product: ISDA OTC Sub-Product(s): Further Limitations: Terms:	when and how such changes become effective. Interest Rate IR Swap Fixed Float, OIS and Basis Must comply with the ASX Rules. The definition set (e.g., ISDA 2006, as amended) binding on the parties in accordance with the ASX Rules. An amount in Currency determined by the parties
ISDA OTC Asset Class: ISDA OTC Base Product: ISDA OTC Sub-Product(s): Further Limitations: Terms: Definition Set:	when and how such changes become effective. Interest Rate IR Swap Fixed Float, OIS and Basis Must comply with the ASX Rules. The definition set (e.g., ISDA 2006, as amended) binding on the parties in accordance with the ASX Rules. An amount in Currency determined by the parties subject to limitations in the ASX Rules.
ISDA OTC Asset Class: ISDA OTC Base Product: ISDA OTC Sub-Product(s): Further Limitations: Terms: Definition Set:	when and how such changes become effective. Interest Rate IR Swap Fixed Float, OIS and Basis Must comply with the ASX Rules. The definition set (e.g., ISDA 2006, as amended) binding on the parties in accordance with the ASX Rules. An amount in Currency determined by the parties subject to limitations in the ASX Rules. This may vary from period to period to the extent
ISDA OTC Asset Class: ISDA OTC Base Product: ISDA OTC Sub-Product(s): Further Limitations: Terms: Definition Set:	when and how such changes become effective. Interest Rate IR Swap Fixed Float, OIS and Basis Must comply with the ASX Rules. The definition set (e.g., ISDA 2006, as amended) binding on the parties in accordance with the ASX Rules. An amount in Currency determined by the parties subject to limitations in the ASX Rules. This may vary from period to period to the extent permitted by the ASX Rules.
ISDA OTC Asset Class: ISDA OTC Base Product: ISDA OTC Sub-Product(s): Further Limitations: Terms: Definition Set:	Interest Rate IR Swap Fixed Float, OIS and Basis Must comply with the ASX Rules. The definition set (e.g., ISDA 2006, as amended) binding on the parties in accordance with the ASX Rules. An amount in Currency determined by the parties subject to limitations in the ASX Rules. This may vary from period to period to the extent permitted by the ASX Rules. The ASX Rules may limit the Currencies and Floating
ISDA OTC Asset Class: ISDA OTC Base Product: ISDA OTC Sub-Product(s): Further Limitations: Terms: Definition Set: Notional Amount:	Interest Rate IR Swap Fixed Float, OIS and Basis Must comply with the ASX Rules. The definition set (e.g., ISDA 2006, as amended) binding on the parties in accordance with the ASX Rules. An amount in Currency determined by the parties subject to limitations in the ASX Rules. This may vary from period to period to the extent permitted by the ASX Rules. The ASX Rules may limit the Currencies and Floating Rate Options for which variable notionals are permitted.
ISDA OTC Asset Class: ISDA OTC Base Product: ISDA OTC Sub-Product(s): Further Limitations: Terms: Definition Set:	when and how such changes become effective. Interest Rate IR Swap Fixed Float, OIS and Basis Must comply with the ASX Rules. The definition set (e.g., ISDA 2006, as amended) binding on the parties in accordance with the ASX Rules. An amount in Currency determined by the parties subject to limitations in the ASX Rules. This may vary from period to period to the extent permitted by the ASX Rules. The ASX Rules may limit the Currencies and Floating Rate Options for which variable notionals are permitted. One of the currencies permitted for the relevant
ISDA OTC Asset Class: ISDA OTC Base Product: ISDA OTC Sub-Product(s): Further Limitations: Terms: Definition Set: Notional Amount:	Interest Rate IR Swap Fixed Float, OIS and Basis Must comply with the ASX Rules. The definition set (e.g., ISDA 2006, as amended) binding on the parties in accordance with the ASX Rules. An amount in Currency determined by the parties subject to limitations in the ASX Rules. This may vary from period to period to the extent permitted by the ASX Rules. The ASX Rules may limit the Currencies and Floating Rate Options for which variable notionals are permitted. One of the currencies permitted for the relevant transaction type per the ASX Rules.
ISDA OTC Asset Class: ISDA OTC Base Product: ISDA OTC Sub-Product(s): Further Limitations: Terms: Definition Set: Notional Amount:	Interest Rate IR Swap Fixed Float, OIS and Basis Must comply with the ASX Rules. The definition set (e.g., ISDA 2006, as amended) binding on the parties in accordance with the ASX Rules. An amount in Currency determined by the parties subject to limitations in the ASX Rules. This may vary from period to period to the extent permitted by the ASX Rules. The ASX Rules may limit the Currencies and Floating Rate Options for which variable notionals are permitted. One of the currencies permitted for the relevant transaction type per the ASX Rules. As per the ASX Rules, which may require certain
ISDA OTC Asset Class: ISDA OTC Base Product: ISDA OTC Sub-Product(s): Further Limitations: Terms: Definition Set: Notional Amount:	Interest Rate IR Swap Fixed Float, OIS and Basis Must comply with the ASX Rules. The definition set (e.g., ISDA 2006, as amended) binding on the parties in accordance with the ASX Rules. An amount in Currency determined by the parties subject to limitations in the ASX Rules. This may vary from period to period to the extent permitted by the ASX Rules. The ASX Rules may limit the Currencies and Floating Rate Options for which variable notionals are permitted. One of the currencies permitted for the relevant transaction type per the ASX Rules. As per the ASX Rules, which may require certain Business Days be applicable on a per Currency or
ISDA OTC Asset Class: ISDA OTC Base Product: ISDA OTC Sub-Product(s): Further Limitations: Terms: Definition Set: Notional Amount:	Interest Rate IR Swap Fixed Float, OIS and Basis Must comply with the ASX Rules. The definition set (e.g., ISDA 2006, as amended) binding on the parties in accordance with the ASX Rules. An amount in Currency determined by the parties subject to limitations in the ASX Rules. This may vary from period to period to the extent permitted by the ASX Rules. The ASX Rules may limit the Currencies and Floating Rate Options for which variable notionals are permitted. One of the currencies permitted for the relevant transaction type per the ASX Rules. As per the ASX Rules, which may require certain Business Days be applicable on a per Currency or Floating Rate Option Basis and may otherwise limit the
ISDA OTC Asset Class: ISDA OTC Base Product: ISDA OTC Sub-Product(s): Further Limitations: Terms: Definition Set: Notional Amount: Currency: Business Days:	Interest Rate IR Swap Fixed Float, OIS and Basis Must comply with the ASX Rules. The definition set (e.g., ISDA 2006, as amended) binding on the parties in accordance with the ASX Rules. An amount in Currency determined by the parties subject to limitations in the ASX Rules. This may vary from period to period to the extent permitted by the ASX Rules. The ASX Rules may limit the Currencies and Floating Rate Options for which variable notionals are permitted. One of the currencies permitted for the relevant transaction type per the ASX Rules. As per the ASX Rules, which may require certain Business Days be applicable on a per Currency or Floating Rate Option Basis and may otherwise limit the available Business Day locations which can be elected.
ISDA OTC Asset Class: ISDA OTC Base Product: ISDA OTC Sub-Product(s): Further Limitations: Terms: Definition Set: Notional Amount: Currency: Business Days:	Interest Rate IR Swap Fixed Float, OIS and Basis Must comply with the ASX Rules. The definition set (e.g., ISDA 2006, as amended) binding on the parties in accordance with the ASX Rules. An amount in Currency determined by the parties subject to limitations in the ASX Rules. This may vary from period to period to the extent permitted by the ASX Rules. The ASX Rules may limit the Currencies and Floating Rate Options for which variable notionals are permitted. One of the currencies permitted for the relevant transaction type per the ASX Rules. As per the ASX Rules, which may require certain Business Days be applicable on a per Currency or Floating Rate Option Basis and may otherwise limit the available Business Day locations which can be elected. As per the ASX Rules.
ISDA OTC Asset Class: ISDA OTC Base Product: ISDA OTC Sub-Product(s): Further Limitations: Terms: Definition Set: Notional Amount: Currency: Business Days:	Interest Rate IR Swap Fixed Float, OIS and Basis Must comply with the ASX Rules. The definition set (e.g., ISDA 2006, as amended) binding on the parties in accordance with the ASX Rules. An amount in Currency determined by the parties subject to limitations in the ASX Rules. This may vary from period to period to the extent permitted by the ASX Rules. The ASX Rules may limit the Currencies and Floating Rate Options for which variable notionals are permitted. One of the currencies permitted for the relevant transaction type per the ASX Rules. As per the ASX Rules, which may require certain Business Days be applicable on a per Currency or Floating Rate Option Basis and may otherwise limit the available Business Day locations which can be elected.

Termination Date:	As agreed by the parties, subject to any minimum or maximum tenor in the ASX Rules.
Termination Date Business Day Convention:	As per the ASX Rules, and thus subject to limitations based on other terms of the transaction.
Stub Periods:	Permitted to the extent allowed under the ASX Rules.
Fixed Rate Payer Payment Dates:	For fixed-for-floating interest rate swaps, as per the ASX Rules.
Fixed Amount:	For fixed-for-floating interest rate swaps, as per the ASX Rules.
Fixed Rate:	As agreed by the parties, subject to any minimum or maximum rate and per-period variability permitted in the ASX Rules and any other restrictions in the ASX Rules.
Floating Rate Payer Payment Dates:	For the floating leg of a fixed-for-floating interest rate swap or for each floating leg of a basis swap, as per the ASX Rules.
Floating Amount:	For the floating leg of a fixed-for-floating interest rate swap or for each floating leg of a basis swap, as per the ASX Rules.
Floating Rate Option:	For the floating leg of a fixed-for-floating interest rate swap or for each floating leg of a basis swap, as determined by the parties, subject to the ASX Rules, which may provide a more limited list of available options for a Currency than does the Definition Set.
Designated Maturity:	For the floating leg of a fixed-for-floating interest rate swap or for each floating leg of a basis swap, as per the ASX Rules, which may provide a more limited set of Designated Maturities than does the related rate source page.
Spread:	For the floating leg of a fixed-for-floating interest rate swap or for each floating leg of a basis swap, as determined by the parties, subject to any minimum or maximum rate and per-period variability permitted by the ASX Rules and any other restrictions in the ASX Rules.
Reset Dates:	For the floating leg of a fixed-for-floating interest rate swap or for each floating leg of a basis swap, as per the ASX Rules.
Floating Rate Daycount Fraction:	For the floating leg of a fixed-for-floating interest rate swap or for each floating leg of a basis swap, as per the ASX Rules.
Floating Rate for Initial Calculation Period:	For the floating leg of a fixed-for-floating interest rate swap or for each floating leg of a basis swap, as per the ASX Rules.
Fixed Rate Payer:	For fixed-for-floating interest rate swaps, as determined by the parties.
Floating Rate Payer:	For the floating leg of a fixed-for-floating interest rate swap or for each floating leg of a basis swap, as determined by the parties.
Compounding:	As per the ASX Rules.
Payer for Additional Payment/Fees:	As determined by the parties, subject to any limitations in the ASX Rules.
Additional Payment/Fees:	As determined by the parties, subject to any limitations in the ASX Rules.
Payment Date for Additional Payment/Fees	As determined by the parties, subject to any limitations in the ASX Rules.

<u>Interest Rate Swaps – Eurex Cleared</u>

Summary:	This covers interest rate swaps cleared by Eurex Clearing AG ("Eurex") (such swaps, "Interest Rate Swaps – Eurex Cleared").
Limitations on Available Selections and Default Settings:	The terms under which an Interest Rate Swap – Eurex Cleared may be traded are as specified in these terms and conditions, which incorporate the Eurex Clearing Conditions (<i>Clearing-Bedingungen</i>) (collectively, the "Eurex Rules").
	By electing to trade an Interest Rate Swap – Eurex Cleared, participants are representing that they are familiar with the Eurex Rules and the limitations on transaction terms contained therein.
Incorporated Standards:	This contract description incorporates by reference the Eurex Rules as in effect from time to time.
	The Eurex Rules themselves may incorporate certain additional standards, such as the 2000 ISDA Definitions, the 2006 ISDA Definitions or the <i>Rahmenvertrag für Finanztermingeschäfte</i> ("DRV"). Be aware that the timing of effectiveness of amendments or supplements to the ISDA standards may vary between bilateral and Eurex-cleared contracts, since Eurex may reserve the right to select when and how such changes become effective. Also be aware that Eurex has elected to make the 2006 ISDA Definitions applicable to certain classes of transactions, regardless of the parties' election to use the 2000 ISDA Definitions.
Product Type/ISDA OTC Taxonomy:	
ISDA OTC Asset Class:	Interest Rate
ISDA OTC Base Product:	IR Swap
ISDA OTC Sub-Product(s):	Fixed Float, Inflation, OIS and Basis
Further Limitations:	Must comply with the Eurex Rules.
Terms:	
Definition Set:	The definition set (<i>e.g.</i> , ISDA 2000 Definitions, ISDA 2006 Definitions, each as amended, the DRV) binding on the parties in accordance with the Eurex Rules.
Notional Amount:	An amount in Currency determined by the parties subject to limitations in the Eurex Rules.
	This may vary from period to period to the extent permitted by the Eurex Rules.
	The Eurex Rules may limit the Floating Rate Options and other terms for which variable notionals are permitted.

Currency:	One of the currencies permitted for the relevant transaction type per the Eurex Rules.
Business Days:	As per the Eurex Rules, which may require certain Business Days be applicable on a per Currency or Floating Rate Option Basis and may otherwise limit the available Business Day locations which can be elected.
Business Day Convention:	As per the Eurex Rules.
Trade Date:	As per the Eurex Rules.
Effective Date:	As per the Eurex Rules.
Termination Date:	As agreed by the parties, subject to any minimum or maximum tenor in the Eurex Rules for the related type of transaction and Currency.
Termination Date Business Day Convention:	As per the Eurex Rules, and thus subject to limitations based on other terms of the transaction.
Stub Periods:	Permitted to the extent allowed under the Eurex Rules.
Fixed Rate Payer Payment Dates:	For fixed-for-floating interest rate swaps, as per the Eurex Rules.
Fixed Amount:	For fixed-for-floating interest rate swaps, as per the Eurex Rules.
Fixed Rate:	As agreed by the parties, subject to any minimum or maximum rate and per-period variability permitted in the Eurex Rules and any other restrictions in the Eurex Rules.
Floating Rate Payer Payment Dates:	For the floating leg of a fixed-for-floating interest rate swap or for each floating leg of a basis swap, as per the Eurex Rules.
Floating Amount:	For the floating leg of a fixed-for-floating interest rate swap or for each floating leg of a basis swap, as per the Eurex Rules.
Floating Rate Option:	For the floating leg of a fixed-for-floating interest rate swap or for each floating leg of a basis swap, as determined by the parties, subject to the Eurex Rules, which may provide a more limited list of available options for a Currency than does the Definition Set.
Designated Maturity:	For the floating leg of a fixed-for-floating interest rate swap or for each floating leg of a basis swap, as per the Eurex Rules, which may provide a more limited set of Designated Maturities than does the related rate source page.
Spread:	For the floating leg of a fixed-for-floating interest rate swap or for each floating leg of a basis swap, as determined by the parties, subject to any minimum or maximum rate and per-period variability permitted by the Eurex Rules and any other restrictions in the Eurex Rules.

Reset Dates:	For the floating leg of a fixed-for-floating interest rate swap or for each floating leg of a basis swap, as per the Eurex Rules.
Floating Rate Daycount Fraction:	For the floating leg of a fixed-for-floating interest rate swap or for each floating leg of a basis swap, as per the Eurex Rules.
Floating Rate for Initial Calculation Period:	For the floating leg of a fixed-for-floating interest rate swap or for each floating leg of a basis swap, as per the Eurex Rules.
Fixed Rate Payer:	For fixed-for-floating interest rate swaps, as determined by the parties.
Floating Rate Payer:	For the floating leg of a fixed-for-floating interest rate swap or for each floating leg of a basis swap, as determined by the parties.
Compounding:	As per the Eurex Rules.
Payer for Additional Payment/Fees:	As determined by the parties, subject to any limitations in the Eurex Rules.
Additional Payment/Fees:	As determined by the parties, subject to any limitations in the Eurex Rules.
Payment Date for Additional Payment/Fees:	As determined by the parties, subject to any limitations in the Eurex Rules.

<u>Interest Rate Swaps – JSCC Cleared</u>

Summary:	This covers interest rate swaps cleared by Japan Securities
	Clearing Corporation ("JSCC") (such swaps, "Interest Rate
	Swaps – JSCC Cleared").
Limitations on Available Selections and	The terms under which an Interest Rate Swap – JSCC Cleared
Default Settings:	may be traded are as specified in these terms and conditions,
	which incorporate the JSCC Interest Rate Swap Clearing
	Business Rules
	(金利スワップ取引清算業務に関する業務方法書) and the
	JSCC Handling Procedures of Interest Rate Swap Business
	Rules
	(金利スワップ取引清算業務に関する業務方法書の取扱い)
	(collectively, the "JSCC Rules").
	By electing to trade an Interest Rate Swap – JSCC Cleared,
	participants are representing that they are familiar with the
	JSCC Rules and the limitations on transaction terms
	contained therein.
	In particular, participants represent that they are familiar
	with the limitations on transactions for US Persons set forth
	in Article 47-2 of the JSCC Handling Procedures of Interest
	Rate Swap Business Rules (or any successor provisions).
Incorporated Standards:	This contract description incorporates by reference the JSCC
	Rules as in effect from time to time.
	The JSCC Rules themselves may incorporate certain additional
	standards, such as the 2000 ISDA Definitions or 2006 ISDA
	Definitions.
	Be aware that the timing of effectiveness of amendments or
	supplements to the ISDA standards may vary between
	bilateral and JSCC-cleared contracts, since JSCC may
	reserve the right to select when and how such changes become effective.
Product Type/ISDA OTC Taxonomy:	become effective.
ISDA OTC Asset Class:	Interest Rate
ISDA OTC Asset Class. ISDA OTC Base Product:	IR Swap
ISDA OTC Base Floduct. ISDA OTC Sub-Product(s):	Fixed Float, OIS and Basis
Further Limitations:	Must comply with the JSCC Rules.
Terms:	Must comply with the JSCC Rules.
Definition Set:	The definition set (e.g., ISDA 2000 or ISDA 2006, each as
Definition Set:	amended) binding on the parties in accordance with the JSCC
	Rules.
Notional Amount:	An amount in Currency determined by the parties subject to
Notional Amount.	limitations in the JSCC Rules.
	This may vary from period to period to the extent permitted by
	the JSCC Rules.
	The JSCC Rules may limit the Currencies and Floating Rate
	Options for which variable notionals are permitted.
Currency:	One of the currencies permitted for the relevant transaction type
	per the JSCC Rules.
Business Days:	As per the JSCC Rules, which may require certain Business
	Days be applicable on a per Currency or Floating Rate Option
	Days be applicable on a per Currency or Floating Rate Option Basis and may otherwise limit the available Business Day

Business Day Convention:	As per the JSCC Rules.
Trade Date:	As per the JSCC Rules.
Effective Date:	As per the JSCC Rules.
Termination Date:	As agreed by the parties, subject to any minimum or maximum
	tenor in the JSCC Rules.
Termination Date Business Day Convention:	As per the JSCC Rules, and thus subject to limitations based on
	other terms of the transaction.
Stub Periods:	Permitted to the extent allowed under the JSCC Rules.
Fixed Rate Payer Payment Dates:	For fixed-for-floating interest rate swaps, as per the JSCC
Thea rate rayer rayment Butes.	Rules.
Fixed Amount:	For fixed-for-floating interest rate swaps, as per the JSCC
	Rules.
Fixed Rate:	As agreed by the parties, subject to any minimum or maximum
	rate and per-period variability permitted in the JSCC Rules and
	any other restrictions in the JSCC Rules.
Floating Rate Payer Payment Dates:	For the floating leg of a fixed-for-floating interest rate swap or
6yy =	for each floating leg of a basis swap, as per the JSCC Rules.
Floating Amount:	For the floating leg of a fixed-for-floating interest rate swap or
· · · · · · · · · · · · · · · · · · ·	for each floating leg of a basis swap, as per the JSCC Rules.
Floating Rate Option:	For the floating leg of a fixed-for-floating interest rate swap or
Trowing Ture Option.	for each floating leg of a basis swap, as determined by the
	parties, subject to the JSCC Rules, which may provide a more
	limited list of available options for a Currency than does the
	Definition Set.
Designated Maturity:	For the floating leg of a fixed-for-floating interest rate swap or
2 conginuou manaminy.	for each floating leg of a basis swap, as per the JSCC Rules,
	which may provide a more limited set of Designated Maturities
	than does the related rate source page.
Spread:	For the floating leg of a fixed-for-floating interest rate swap or
-F	for each floating leg of a basis swap, as determined by the
	parties, subject to any minimum or maximum rate and per-
	period variability permitted by the JSCC Rules and any other
	restrictions in the JSCC Rules.
Reset Dates:	For the floating leg of a fixed-for-floating interest rate swap or
	for each floating leg of a basis swap, as per the JSCC Rules.
Floating Rate Daycount Fraction:	For the floating leg of a fixed-for-floating interest rate swap or
5 6	for each floating leg of a basis swap, as per the JSCC Rules.
Floating Rate for Initial Calculation Period:	For the floating leg of a fixed-for-floating interest rate swap or
5 6	for each floating leg of a basis swap, as per the JSCC Rules.
Fixed Rate Payer:	For fixed-for-floating interest rate swaps, as determined by the
,	parties.
Floating Rate Payer:	For the floating leg of a fixed-for-floating interest rate swap or
<i>a</i> y	for each floating leg of a basis swap, as determined by the
	parties.
Compounding:	As per the JSCC Rules.
Payer for Additional Payment/Fees:	As determined by the parties, subject to any limitations in the
,	JSCC Rules.
Additional Payment/Fees:	As determined by the parties, subject to any limitations in the
	JSCC Rules.
Payment Date for Additional Payment/Fees	As determined by the parties, subject to any limitations in the
,	JSCC Rules.
	DOCC TRAILOS.

IOS Index Contracts

Summary:	This covers Markit IOS Fixed for Floating Swap
	Transactions (the "Contracts").
Limitations on Available Selections and Default	The terms under which the Contracts may be traded are
Settings:	as specified in these terms and conditions.
	For amounts or rates, the relevant term cannot be less
	than the specified Minimum, must represent an even
	Increment and cannot exceed the Maximum; for a date,
	the date cannot be earlier than Earliest nor later than
	Latest.
	In many cases there are normal "vanilla" terms on which
	the parties will transact.
	These are shown as "Default" and will apply unless the
	parties vary them.
Incorporated Standards:	This contract description incorporates by reference the
	following industry standard documentation and
	standards:
	(a) 2006 ISDA Definitions
	(b) ISDA OTC Taxonomies
	(c) the Markit IOS Standard Terms Supplement (March
	12, 2010 version) or any subsequent Standard Terms
D I (TE /TODA OTEOTE	Supplement (the "Standard Terms")
Product Type/ISDA OTC Taxonomy:	Co. Pr
ISDA OTC Asset Class:	Credit
ISDA OTC Base Product:	Index
ISDA OTC Sub-Product:	IOS
ISDA OTC Transaction Type:	IOS
Further Limitations:	None
Terms:	A 'C' . 11 1' 1'
Effective Date:	As specified by the parties, subject to adjustment in
Scheduled Termination Date:	accordance with the Standard Terms.
Termination Date:	As agreed by the parties.
Notional Amount:	Per the Standard Terms.
	An amount is USD agreed by the parties.
Index:	One of the Markit IOS Index series, as specified by the parties from all then-available series (to the extent such
	series is not then a narrow-based index within the
	meaning of the CFTC's regulations).
Annex Date:	As agreed by the parties.
Index Provider:	Per the Standard Terms.
Fixed Rate Payer:	As agreed by the parties.
Floating Rate Payer:	As agreed by the parties. As agreed by the parties.
Period End Dates:	Per the Standard Terms.
Payment Dates:	Per the Standard Terms. Per the Standard Terms.
Calculation Agent:	As agreed by the parties or, if not so agreed, per the
Caicalation Agont.	Standard Terms.
Day Count Fraction:	Per the Standard Terms.
Business Days:	For any purpose, per the Standard Terms.
Business Days. Business Day Convention:	Per the Standard Terms.
Initial Payment:	Tor the Standard Terms.
Initial Payment:	Per the Standard Terms.
minum i ayincin.	1 of the Standard Terms.

Initial Payment Amount:	An amount in USD as specified by the parties.
Initial Payment Payer:	As specified by the parties.
Initial Payment Date:	Per the Standard Terms.
Settlement Payments:	
Mark to Market Amount Payment:	Per the Standard Terms.
Mark to Market Amount Payer:	Per the Standard Terms.
Mark to Market Amount:	Per the Standard Terms.
Financing Payment:	Per the Standard Terms.
Financing Payment Amount:	Per the Standard Terms.
Interest Payment:	Per the Standard Terms.
Interest Payment Amount:	Per the Standard Terms.
Net Payment:	Per the Standard Terms.
Net Payment Amount Payer:	Per the Standard Terms.
Net Payment Amount:	Per the Standard Terms.
Agency Coupon:	Per the Standard Terms.
Index LIBOR:	Per the Standard Terms.
Index Factor:	Per the Standard Terms.
Commencing Index Factor:	Per the Standard Terms.
Period End Index Factor:	Per the Standard Terms.
Index Price:	Per the Standard Terms.
Commencing Index Price:	Per the Standard Terms.
Period End Index Price:	Per the Standard Terms.
Event Affecting the Index:	
Events and Adjustments:	All are per the Standard Terms.

MBX Index Contracts

Summary:	This covers Markit MBX Fixed for Floating Swap
	Transactions (the "Contracts").
Limitations on Available Selections and Default	The terms under which the Contracts may be traded are
Settings:	as specified in these terms and conditions.
	For amounts or rates, the relevant term cannot be less
	than the specified Minimum, must represent an even
	Increment and cannot exceed the Maximum; for a date, the date cannot be earlier than Earliest nor later than
	Latest.
	In many cases there are normal "vanilla" terms on which
	the parties will transact.
	These are shown as "Default" and will apply unless the
	parties vary them.
Incorporated Standards:	This contract description incorporates by reference the
incorporated standards.	following industry standard documentation and
	standards:
	(a) 2006 ISDA Definitions;
	(b) ISDA OTC Taxonomies; and
	(c) the Markit MBX Standard Terms Supplement
	(September 12, 2010 version) or any subsequent
	Standard Terms Supplement (the "Standard
	Terms").
Product Type/ISDA OTC Taxonomy:	
ISDA OTC Asset Class:	Credit
ISDA OTC Base Product:	Index
ISDA OTC Sub-Product:	MBX
ISDA OTC Transaction Type:	MBX
Further Limitations:	None
Terms:	4 (0.11 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1
Effective Date:	As specified by the parties, subject to adjustment in
C 1 . 1 1 1 T	accordance with the Standard Terms.
Scheduled Termination Date:	As agreed by the parties.
Termination Date:	Per the Standard Terms.
Notional Amount: Index:	An amount is USD agreed by the parties.
index:	One of the Markit MBX Index series, as specified by the parties from all then-available series (to the extent such
	series is not then a narrow-based index within the
	meaning of the CFTC's regulations).
Annex Date:	As agreed by the parties.
Index Provider:	Per the Standard Terms.
Fixed Rate Payer:	As agreed by the parties.
Floating Rate Payer:	As agreed by the parties.
Period End Dates:	Per the Standard Terms.
Reset Dates:	Per the Standard Terms
Payment Dates:	Per the Standard Terms.
Calculation Agent:	As agreed by the parties or, if not so agreed, per the
	Standard Terms.
Day Count Fraction:	Per the Standard Terms.
Business Days:	For any purpose, per the Standard Terms.
Business Day Convention:	Per the Standard Terms.

Initial Payment:	
Initial Payment:	Per the Standard Terms.
Initial Payment Amount:	An amount in USD as specified by the parties.
Initial Payment Payer:	As specified by the parties.
Initial Payment Date:	Per the Standard Terms.
Settlement Payments:	
Mark to Market Amount Payment:	Per the Standard Terms.
Mark to Market Amount Payer:	Per the Standard Terms.
Mark to Market Amount:	Per the Standard Terms.
Financing Payment:	Per the Standard Terms.
Financing Payment Amount:	Per the Standard Terms.
Interest Payment:	Per the Standard Terms.
Interest Payment Amount:	Per the Standard Terms.
Principal Payment:	Per the Standard Terms.
Principal Payment Amount:	Per the Standard Terms.
Net Payment:	Per the Standard Terms.
Net Payment Amount Payer:	Per the Standard Terms.
Net Payment Amount:	Per the Standard Terms.
Agency Coupon:	Per the Standard Terms.
Index LIBOR:	Per the Standard Terms.
Index Factor:	Per the Standard Terms.
Commencing Index Factor:	Per the Standard Terms.
Period End Index Factor:	Per the Standard Terms.
Index Price:	Per the Standard Terms.
Commencing Index Price:	Per the Standard Terms.
Period End Index Price:	Per the Standard Terms.
Event Affecting the Index:	
Events and Adjustments:	All are per the Standard Terms.

Municipal Market Data Rate Lock Transactions

Summary:	This covers rate lock transactions indexed to the
·	Thomson Reuters Municipal Market Data ("MMD")
	AAA Curve ("MMD Rate Lock Transactions").
Limitations on Available Selections and Default	The terms under which a MMD Rate Lock Transaction
Settings:	may be traded are as specified in these terms and
	conditions and in the attached tables.
	For amounts or rates, the relevant term cannot be less
	than the specified Minimum, must represent an even
	Increment and cannot exceed the Maximum; for a date,
	the date cannot be earlier than Earliest nor later than
	Latest.
	For Business Days, the defaults shall be the locations
	specified.
	The parties may add additional locations from the
	Available Locations and may eliminate some or all of
	the other locations, so long as there is at least one
	location in which payment may be made. For these purposes "TARGET" is considered a location.
	In many cases there are normal "vanilla" terms on which
	the parties will transact.
	These are shown as "Default" and will apply unless the
	parties vary them.
Incorporated Standards:	This contract description incorporates by reference the
P	following industry standard documentation and
	standards:
	(a) 2006 ISDA Definitions
	(b) ISDA OTC Taxonomies
	(c) FpML Location Codes
	For convenience, certain terms are mapped to their
	FpML 5.5 equivalent.
Product Type/ISDA OTC Taxonomy:	Lawrence Date
ISDA OTC Asset Class:	Interest Rate
ISDA OTC Base Product: ISDA OTC Sub-Product:	IR Swap Exotic
Further Limitations:	None
Terms:	None
Notional Amount ("notional"):	An amount in USD agreed by the parties.
Effective Date ("effectiveDate"):	The date specified by the parties, adjusted in accordance
Effective Bate (effectiveBate).	with any applicable Business Day Convention.
	The parties may express the unadjusted Effective Date as
	a number of Business Days or Banking Days from the
	Trade Date ("relativeEffectiveDate").
Effective Date Business Days:	As specified by the parties from among the Available
	Business Days.
Effective Date Business Day Convention:	As specified by the parties from among the Available
	Business Day Conventions.
Termination Date ("terminationDate"):	The date specified by the parties, adjusted in accordance
	with any applicable Business Day Convention.
	The parties may express the unadjusted Termination
	Date as a number of days, months or years from the
	Effective Date ("relativeTerminationDate").

Municipal Market Data Rate Lock Transactions

Business Day Conventions. As specified by the parties. Fixed Amount: Fixed Rate Payer ("payerPartyReference"): Currency Amount ("notionalAmount"): Fixed Amount: DV01 × Fixed Rate × Currency Business Day Count for Exercised by the parties. As specified by the parties. Notwithstanding anything to the contrary contained in the 2006 ISDA Definitions, the Fixed Amount shall equal: DV01 × Fixed Rate × Currency Amount × Day Count Fraction Fixed Rate Payment Dates ("unadjustedPaymentDate"): Day Count Fraction: Intermination Date Ploating Anount: Floating Anount: Floating Anount ("notionalAmount"): As specified by the parties. As specified by the parties. Notwithstanding anything to the contrary contained in the 2006 ISDA Definitions, the Floating Amount shall equal: DV01 × Calculation Amount × (Floating Rate + Spread) × Floating Rate Day Count Fraction Payment Dates ("unadjustedPaymentDate"): Relevant Rate: The Relevant Rate for a Reset Date will be the level of the Thomson Reuters Municipal index for a tenor of the Designated Maturity which represents the offer-side of 5.00% coupon "AAA" rated state general obligation bonds based on institutional block size (\$2 million+) market activity in both the primary and secondary municipal bond market, as of at 3:00 p.m. eastern standard time as published on the Thomson Reuters TM3 page. Designated Maturity ('indexTenor'') As specified by the parties from among the available tenors. Zero Day Count Fraction: The second Business Day preceding the Floating Rate Payment Date. As specified by the parties from among the Available Business Days, subject to any Required Business Days.	Termination Date Business Day Convention:	As specified by the parties from among the Available
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	Reset Dates Business Day Convention:	As specified by the parties from among the Available
	Calculation Agent:	

Fixed Floating Available Currencies and Required Business Days

Three Letter Currency Code	Currency Name (ISDA)	Basic Business Day Locations
(ISDA/ISO)		For Currency (FpML Codes)
USD	United States Dollars	USNY

Municipal Market Data Rate Lock Transactions

Fixed Floating Available Business Day Conventions

	ISDA Name
Following	
Modified/Modified Following	
No Adjustment	
Preceding	
FRN Convention/Eurodollar Convention	

Notional Amounts

Currency	Minimum	Increment	Maximum	Default
USD	25,000,000	1,000,000	N/A	N/A

Natural Gas Date/Instrument Spread Contracts

Summary:	This covers "Natural Gas Date/Instrument Spread Contracts".	
	A natural-gas date/instrument spread contract is a cash-settled agreement	
	between two counterparties whereby one counterparty agrees to pay a	
	floating amount to the other counterparty on a given date, and then	
	receive a different floating amount from the other counterparty on a	
	different, later date.	
	The difference between the two floating amounts is the spread, which is	
	the quoted price for the contract.	
	The floating amounts are based on the notional quantity traded and the	
	price of natural gas a stated hub published by one of a series of industry.	
Publication Sources:	CGPR—Canadian Gas Price Reporter	
	Gas Daily—Platt's Gas Daily's Daily Report	
	IFERC—Platt's Inside FERC Gas Market Reporter	
	NGI—Natural Gas Intelligence's Bidweek Survey	
	The floating amount can be based on the price for a given period in a	
	given issue of the publication source (e.g., monthly based on the first	
	issue of the month) or an average of prices (e.g., average of weekly	
	bid prices for each weekly issue), as agreed by the parties.	
Reference Commodities:	AECO—Alberta Energy Co. (CGPR)	
	ALG—Algonquin Energy Co. (IFERC)	
	Chicago—Chicago City Gate (IFERC)	
	CIG—Colorado Interstate Gas, North Mainline (IFERC) DOM Deministry Transmission Go (IFERC)	
	DOM—Dominion Transmission Co. (IFERC) HOG. W. Gling of (IFERC)	
	HSC—Houston Ship Channel (IFERC)	
	Malin—Pacific Gas Transmission Co., Malin (IFERC)	
	Michigan—Michigan Consolidated Gas Company Citygate (IFERC)	
	NGPC Mid Con—Natural Gas Pipeline Co of America (IFERC)	
	Panhandle—Panhandle Eastern Pipeline Co. (IFERC)	
	Permian—El Paso Natural Gas Co. Permian Basin Pool (IFERC)	
	PG&E Citygate—PG&E Citygate (IFERC)	
	Rockies—Northwest Pipeline, Rocky Mountain Pool (IFERC)	
	San Juan— El Paso Natural Gas Co. San Juan Basin Pool (IFERC)	
	` '	
	Socal—Socal Citygate (IFERC) Suggest Northwest Piceline Suggest (IFERC)	
	Sumas—Northwest Pipeline, Sumas (IFERC) TOO Go by the Go Transis of Go Transis o	
	TCO—Columbia Gas Transmission Company (IFERC) TOTAL COLUMN TO THE TRANSMISSION COMPANY (IFERC)	
	TETCO M3—Texas Eastern Transmission Corp M3 Zone (IFERC)	
	Texok— Natural Gas Pipeline Co of Americak TexOK (IFERC)	
	Trans Z6 NY—Transcontinenal Gas Pipeline, Zone 6 (NY)	
	(IFERC)	
	Ventura—Northern Border Pipeline, Ventura (IFERC)	
	Waha—Waha Hub, West Texas (IFERC)	
Settlement Currency:	Currency in which payments are made between the two counterparties:	
	• USD	
	CAD (AECO only)	
Quoting Convention and Minimum	Notional amount, as agreed by counterparties.	
Increment:		
Minimum Size:	Notional amount, as agreed by counterparties.	
1	/ 2 / 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10	

Natural Gas Date/Instrument Spread Contracts

Notional Currency:	Currency in which payments are made between the two counterparties:
	• USD
	CAD (AECO only)
Trading Conventions:	Buy or Sell on the near leg and Buy or Sell on the far leg.
	These would be reversed so that if the first leg is buying the second leg
	must be selling, for instance.
Calculation Periods:	Two calculation periods – one for each leg of the spread.
	A single date or date range over which the reference price of the
	commodity will be calculated.
	If a date range the reference price will be averaged across the days,
	contracts or publication source issues as agreed by the counterparties.
Settlement Date(s):	Specified settlement or payment date when the floating amounts are
	exchanged.
Settlement Procedure:	Bilateral cash settlement performed in settlement currency.

Natural Gas – Financial Basis Swap Contracts

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Summary:	This covers "Natural Gas – Financial Basis Swap Contracts".
	A natural gas financial basis swap contract is a cash settled agreement between two
	counterparties whereby one counterparty agrees to pay a floating amount to the
	other counterparty on a given date(s), which floating amount is calculated based on
	the reported price for natural gas at a given hub, and in exchange, the second
	counterparty will pay a floating amount to the first counterparty on the same given
	date(s) based on the maturity price of a natural gas futures contract tied to a
	different hub.
	The floating amounts paid are determined based on the notional quantity and, in the case of the first floating amount, the price of natural gas a stated hub published by
	one of a series of industry publications and, in the case of the second floating
D-11'-4' C	amount, an applicable futures contract based on the reference commodity.
Publication Sources:	CGPR—Canadian Gas Price Reporter On Price Reporter
	Gas Daily—Platt's Gas Daily's Daily Report
	IFERC—Platt's Inside FERC Gas Market Reporter
	NGI—Natural Gas Intelligence's Bidweek Survey
	The floating amount can be based on the price for a given period in a given issue of
	the Publication Source (e.g., monthly based on the first issue of the month) or an
	average of prices (e.g., average of weekly bid prices for each weekly issue), as
	agreed by the parties.
Reference Commodities:	AECO—Alberta Energy Co. (CGPR)
	ALG—Algonquin Energy Co. (IFERC)
	Chicago—Chicago City Gate (IFERC)
	CIG—Colorado Interstate Gas, North Mainline (IFERC)
	DOM—Dominion Transmission Co. (IFERC)
	HSC—Houston Ship Channel (IFERC)
	Malin—Pacific Gas Transmission Co., Malin (IFERC)
	Michigan—Michigan Consolidated Gas Company Citygate (IFERC)
	NGPC Mid Con—Natural Gas Pipeline Co of America (IFERC)
	Panhandle—Panhandle Eastern Pipeline Co. (IFERC)
	Permian—El Paso Natural Gas Co. Permian Basin Pool (IFERC)
	PG&E Citygate—PG&E Citygate (IFERC)
	Rockies—Northwest Pipeline, Rocky Mountain Pool (IFERC)
	San Juan— El Paso Natural Gas Co. San Juan Basin Pool (IFERC)
	Socal—Socal Citygate (IFERC)
	Sumas—Northwest Pipeline, Sumas (IFERC)
	TCO—Columbia Gas Transmission Company (IFERC)
	 TETCO M3—Texas Eastern Transmission Corp M3 Zone (IFERC) Texok— Natural Gas Pipeline Co of Americak TexOK (IFERC)
	T GONG T 10 D 11 G CAND (TERRO)
	Ventura—Northern Border Pipeline, Ventura (IFERC) Walso Walso Walso Hall Wast Tawas (IFERC)
Contracts on Reference	Waha—Waha Hub, West Texas (IFERC) NYMEY Have Hall Not and Constituting Specific and Decision Specific an
	NYMEX Henry Hub Natural Gas (Index Swap Future) Last Day Settlement
Commodities:	For transactions where the settlement currency is CAD, this price will be converted
C-441	to CAD at then-current spot.
Settlement Currency:	Currency in which payments are made between the two counterparties:
	• USD
	CAD (AECO only)
Quoting Convention	Notional amount, as agreed by counterparties.

and Minimum	
Increment:	
Minimum Size:	Notional amount, as agreed by counterparties.
Notional Currency:	Currency in which the fixed and floating prices are quoted:
	• USD
	CAD (AECO only)
Trading Conventions:	Buy or Sell which refers to whether or not the non-futures based floating amount is
_	paid (buy) or received (sell).
Calculation Period:	A single date or date range over which the reference price of the commodity will be
	calculated.
	If a date range the reference price will be averaged across the days, contracts or
	Publication Source issues as agreed by the counterparties.
Trade Date:	The date on which counterparties enter into the contract.
Settlement Date(s):	Specified settlement or payment date(s) when the fixed payment amount and the
	floating payment amount are exchanged (can be netted).
Settlement Procedure:	Bilateral cash settlement performed in settlement currency.

Natural Gas – Fixed/Floating Swap Contracts

Summary:	This covers "Natural Gas – Fixed/Floating Swap Contracts".
	A fixed/floating natural gas swap contract is a cash settled agreement between
	two counterparties whereby one counterparty agrees to pay a fixed amount to
	the other counterparty on a given date, and in exchange the second counterparty
	will pay a floating amount to the first counterparty on the same given date.
	The fixed amount paid is determined based on the notional quantity traded and
	the price of the reference commodity.
	The floating amount paid is determined based on the notional quantity and the
	price of an applicable futures contract based on the reference commodity over
	an agreed future calculation period.
Reference Commodities:	Henry Hub Natural Gas
Commodities.	Waha Natural Gas
	 Permian Natural Gas Basis Swap
	-
Contracts on Reference	
Commodities:	NYMEX Henry Hub Natural Gas (Index Swap Future) NYMEX W. In Natural Gas Paris Support
Commodities:	NYMEX Waha Natural Gas Basis Swap
	NYMEX Permian Natural Gas Basis Swap
	ICE TTF Natural Gas (Monthly)
Settlement Currency:	Currency in which payments are made between the two counterparties:
	• USD (Other than TTF)
	• EUR (TTF)
Quoting Convention and	Notional amount, as agreed by counterparties
Minimum Increment:	
Minimum Size:	Notional amount, as agreed by counterparties
Notional Currency:	Currency in which the fixed and floating prices are quoted:
	• USD (Other than TTF)
	• EUR (TTF)
Trading Conventions:	Buy or Sell which refers to whether or not the fixed amount is paid (buy) or
	received (sell).
Calculation Periods:	A single date or date range over which the reference price of the commodity will
	be calculated.
	If a date range the reference price will be averaged across all days.
Trade Date:	The date on which counterparties enter into the contract.
Settlement Date(s):	Specified settlement or payment date when the fixed payment amount and the
	floating payment amount are exchanged (can be netted).
Settlement Procedure:	Bilateral cash settlement performed in settlement currency.
	The contracts settle on both the NYMEX Last Day and NYMEX Penultimate
	publications.

Natural Gas – Swing Swap Contracts

Summary:	This covers "Natural Gas – Swing Swap Contracts".
	A natural gas swing swap contract is a cash settled agreement between two
	counterparties whereby one counterparty agrees to pay a floating amount to the
	other counterparty on a given date(s), which floating amount is calculated
	based on the daily reported price for natural gas at a given hub, and in
	exchange the second counterparty will pay a floating amount to the first
	counterparty on the same given date(s) based on the price at the same hub
	reported for a different period (e.g., weekly or monthly).
	The floating amounts paid are determined based on the notional quantity and,
	in the case of the first floating amount, the daily price of natural gas a stated
	hub published by one of a series of industry publications and, in the case of the
	second floating amount, a price of natural gas the same hub published with
	respect to a different periodicity.
Publication Sources (Non-Daily):	CGPR—Canadian Gas Price Reporter
	IFERC—Platt's Inside FERC Gas Market Reporter
	NGI—Natural Gas Intelligence's Bidweek Survey
	The floating amount can be based on the price for a given period in a given
	issue of the Publication Source (e.g., monthly based on the first issue of the
	month) or an average of prices (e.g., average of weekly bid prices for each
Dublication Common (Dailer)	weekly issue), as agreed by the parties.
Publication Sources (Daily):	Gas Daily –Platt's Gas Daily Report ARGO AND GOOD CORPE OF
Reference Commodities and Non- Daily Publication Source:	AECO—Alberta Energy Co. (CGPR) ALC ALC ALC ALC ALC ALC ALC AL
Daily Publication Source:	ALG—Algonquin Energy Co. (IFERC) Clin Girls Grand (MEERC)
	Chicago—Chicago City Gate (IFERC) CIC Control of the Control
	CIG—Colorado Interstate Gas, North Mainline (IFERC) Colorado Interstate Gas, North Mainline (IFERC)
	DOM—Dominion Transmission Co. (IFERC)
	HSC—Houston Ship Channel (IFERC)
	Malin—Pacific Gas Transmission Co., Malin (IFERC)
	Michigan—Michigan Consolidated Gas Company Citygate (IFERC)
	NGPC Mid Con—Natural Gas Pipeline Co of America (IFERC)
	Panhandle—Panhandle Eastern Pipeline Co. (IFERC)
	Permian—El Paso Natural Gas Co. Permian Basin Pool (IFERC)
	PG&E Citygate—PG&E Citygate (IFERC)
	• Rockies—Northwest Pipeline, Rocky Mountain Pool (IFERC)
	San Juan— El Paso Natural Gas Co. San Juan Basin Pool (IFERC)
	Socal—Socal Citygate (IFERC)
	• Sumas—Northwest Pipeline, Sumas (IFERC)
	TCO—Columbia Gas Transmission Company (IFERC)
	• TETCO M3—Texas Eastern Transmission Corp M3 Zone (IFERC)
	Texok— Natural Gas Pipeline Co of Americak TexOK (IFERC)
	• Trans Z6 NY—Transcontinenal Gas Pipeline, Zone 6 (NY) (IFERC)
	• Ventura—Northern Border Pipeline, Ventura (IFERC)
	Waha—Waha Hub, West Texas (IFERC)
Settlement Currency:	Currency in which payments are made between the two counterparties:
	• USD
	CAD (AECO only)
Quoting Convention and	Notional amount, as agreed by counterparties.
Minimum Increment:	
Minimum Size:	Notional amount, as agreed by counterparties.

$Natural\ Gas-Swing\ Swap\ Contracts$

Notional Currency:	Currency in which the fixed and floating prices are quoted:
	• USD
	CAD (AECO only)
Trading Conventions:	Buy or Sell which refers to whether or not the non-daily price based floating
	amount is paid(buy) or received (sell).
Calculation Period:	The reference price may be averaged across the days, contracts or publication
	source issues as agreed by the counterparties.
Trade Date:	The date on which counterparties enter into the contract.
Settlement Date(s):	Specified settlement or payment date(s) when the fixed payment amount and
	the floating payment amount are exchanged (can be netted).
Settlement Procedure:	Bilateral cash settlement performed in settlement currency.

Non-Deliverable Swaps

Summary:	This covers non-deliverable single-currency swaps
	("Non-Deliverable Single-Currency Swaps") and non-
	deliverable cross-currency swaps ("Non-Deliverable
	Cross-Currency Swaps" and, together with Non-
	Deliverable Single-Currency Swaps, "Non-Deliverable
	Swaps").
Limitations on Available Selections and Default	The terms under which Non-Deliverable Single-
Settings:	Currency Swaps and Non-Deliverable Cross-Currency
	Swaps may be traded are as specified in these terms and
	conditions or in the attached tables.
	For amounts or rates, the relevant term cannot be less
	than the specified Minimum, must represent an even
	Increment and cannot exceed the Maximum; for a date,
	the date cannot be earlier than Earliest nor later than
	Latest.
	For Business Days, the defaults shall be the locations
	specified.
	The parties may add additional locations from the
	Available Locations and may eliminate some or all of
	the other locations, so long as there is at least one
	location in which payment may be made. For these purposes "TARGET" is considered a location.
	In many cases there are normal "vanilla" terms on which
	the parties will transact.
	These are shown as "Default" and will apply unless the
	parties vary them.
Incorporated Standards:	This contract description incorporates by reference the
	following industry standard documentation and
	standards:
	(a) 2006 ISDA Definitions (including Supplement 31
	thereto);
	(b) ISDA OTC Taxonomies;
	(c) FpML Location Codes;
	(d) the ISDA/EMTA 1998 FX and Currency Option Definitions ("1998 Definitions");
	(e) the EMTA Non-Deliverable Forward Templates;
	(f) the EMTA-ISDA Market Practice for Non-
	Deliverable CLP "Cámara" (CLP TNA) Interest
	Rate Swap Transactions ("CLP TNA Best
	Practices");
	(g) the Recommended EMTA-ISDA Market Practice
	for BRL CDI Non-Deliverable Interest Rate Swap
	Transactions (Amended March 13, 2009) ("BRL
	CDI Best Practices");
	(h) The current ISDA Revised Non-Deliverable Swap
	Transaction Standard Terms Supplement ("Asian
	STS"); and
	(i) The current ISDA Non-Deliverable Swap
	Transaction Fallback Matrix (the "Asian Matrix,"
	and, together with the Asian STS, the "Asian
	Terms").

	For convenience, certain terms are mapped to their
	FpML 5.5 equivalent.
Product Type/ISDA OTC Taxonomy:	
ISDA OTC Asset Class:	Interest Rate
ISDA OTC Base Product:	IR Swap
ISDA OTC Sub-Product:	Exotic
Further Limitations:	None
Terms:	
Settlement Currency:	With respect to Non-Deliverable Single-Currency
	Swaps, USD.
	With respect to any Non-Deliverable Cross-Currency Swap, for any currency pair selected by the parties from
	among those specified in the list of Available Currency
	Pairs, the currency specified as such in that list.
Index Currency:	With respect to any Non-Deliverable Single-Currency
index currency.	Swaps, the currency elected by the parties from among
	those specified in the list of Available Single Currencies.
	With respect to any Non-Deliverable Cross-Currency
	Swaps, for any currency pair selected by the parties from
	among those specified in the list of Available Currency
	Pairs, the currency specified as such in that list.
Effective Date ("effectiveDate"):	The date specified by the parties, adjusted in accordance
	with any applicable Business Day Convention.
	The parties may express the unadjusted Effective Date as
	a number of Business Days or Banking Days from the
Tree of D to D	Trade Date ("relativeEffectiveDate").
Effective Date Business Days:	As specified by the parties from among the Available
Effective Date Business Day Convention:	Business Days. As specified by the parties from among the Available
Effective Date Busiless Day Convention.	Business Day Conventions.
Termination Date ("terminationDate"):	The date specified by the parties, adjusted in accordance
	with any applicable Business Day Convention.
	The parties may express the unadjusted Termination
	Date as a number of days, months or years from the
	Effective Date ("relativeTerminationDate").
Termination Date Business Day Convention:	As specified by the parties from among the Available
	Business Day Conventions.
FX Rate:	The amount of Index Currency corresponding to one unit
	of the Settlement Currency.
	The FX Rate will be determined on the date determined
	as specified for the relevant Available Single Currency
	or Available Currency Pair and in accordance: (a) in the case of Index Currencies not identified as
	subject to Asian Terms, with the specified NDF
	Template and Rate Sources and Fallback Rates, treating
	the scheduled date of determination of the FX Rate as
	the "Valuation Date" under the NDF Template; and
	(b) in the case of Index Currencies identified as subject
	to Asian Terms, in accordance with the Asian Terms.
Fixed Amount:	
Fixed Rate Payer ("payerPartyReference"):	As specified by the parties.
Currency Amount ("notional"):	For any Non-Deliverable Single-Currency Swap
	Transaction or for any Non-Deliverable Cross-Currency
	Swap Transaction involving ARS or PEN, an amount in
	the Index Currency agreed by the parties.

	For any other Non-Deliverable Cross-Currency Swap
	Transaction, an amount in the Index Currency or
Eined America	Settlement Currency agreed by the parties.
Fixed Amount:	If the Currency Amount is denominated in the
	Settlement Currency, an amount calculated in
	accordance with the 2006 ISDA Definitions.
	If the Currency Amount is not denominated in the
	Settlement Currency and the Index Currency is not
	identified as being subject to Asian Terms, then
	notwithstanding anything to the contrary contained in
	the 2006 ISDA Definitions, the Fixed Amount shall
	equal an amount in the Settlement Currency equal to:
FX Rate \times Fixed Rate \times Curre	ency Amount × Day Count Fraction
	If the Currency Amount is not denominated in the
	Settlement Currency and the Index Currency is
	identified as being subject to Asian Terms, then the
	Fixed Amount shall be calculated in accordance with the
	Asian Terms.
Fixed Rate Period End Dates:	As specified by the parties, subject to adjustment in
	accordance with any Fixed Rate Payer Period End Date
	Business Day Convention.
Fixed Rate Payer Period End Date Business Days:	If a Fixed Rate Payer Period End Date Business Day
	Convention is applicable, as specified by the parties
	from among the Available Business Days.
Fixed Rate Payer Payment Date Day Convention:	As specified by the parties from among the Available
	Business Day Conventions.
	If "No Adjustment" is specified, then the Fixed Rate
	Payer Period End Dates will not be adjusted.
Fixed Rate Payment Dates:	As specified by the parties, subject to adjustment in
·	accordance with the Fixed Rate Payer Payment Date
	Business Day Convention.
Fixed Rate Payer Payment Date Business Days:	As specified by the parties from among the Available
	Business Days.
Fixed Rate Payer Payment Date Day Convention:	As specified by the parties from among the Available
	Business Day Conventions.
Day Count Fraction:	As specified by the parties from among the Available
	Day Count Fractions.
Floating Amount:	
Floating Rate Payer ("payerPartyReference"):	As specified by the parties.
Currency Amount ("notional"):	For any Non-Deliverable Single-Currency Swap
, ().	Transaction, an amount in the Index Currency agreed by
	the parties.
	For any Non-Deliverable Cross-Currency Swap, an
	amount in the Settlement Currency agreed by the parties.
	For any other Non-Deliverable Cross-Currency Swap, an
	amount agreed by the parties in whichever of the Index
	Currency or Settlement Currency is not the currency in
	which the Fixed Rate Payer Currency Amount is
	denominated.
Floating Amount:	If the Currency Amount is denominated in the
1 loaning Alliount.	Settlement Currency, an amount calculated in
	accordance with the 2006 ISDA Definitions.
	If the Currency Amount is denominated in BRL, then
	notwithstanding anything to the contrary contained in
	the 2006 ISDA Definitions, the Floating Amount shall

	T
	be calculated as set forth under Definition of BRL
	Floating Rate Option.
	If the Currency Amount is not denominated in the Settlement Currency or BRL and the Index Currency is
	not identified as being subject to Asian Terms, then notwithstanding anything to the contrary contained in
	the 2006 ISDA Definitions, the Floating Amount shall
	equal an amount in the Settlement Currency equal to:
FX Rate \times Currency Amount \times (Floating Rate	+ Spread) × Floating Rate Day Count Fraction
	If the Currency Amount is not denominated in the Settlement Currency and the Index Currency is identified as being subject to Asian Terms, then the Floating Amount shall be calculated in accordance with the Asian Terms.
Floating Rate Option:	For the relevant Currency, as selected by the parties
	from among the Available Floating Rate Options for
D' (1M) '(' 1 T W)	such Currency.
Designated Maturity ('indexTenor"):	As specified by the parties from among the available tenors.
Spread:	As specified by the parties.
Reset Dates ("resetDate"):	As specified by the parties.
Reset Dates Business Days:	As specified by the parties from among the Available
	Business Days, subject to any Required Business Days.
Reset Dates Business Day Convention:	As specified by the parties from among the Available Business Day Conventions.
Floating Rate Period End Dates:	As specified by the parties, subject to adjustment in accordance with any Floating Rate Payer Period End Date Business Day Convention.
Floating Rate Payer Period End Date Business Days:	If a Floating Rate Payer Period End Date Business Day Convention is applicable, as specified by the parties
	from among the Available Business Days.
Floating Rate Payer Payment Date Day Convention:	As specified by the parties from among the Available
	Business Day Conventions.
	If "No Adjustment" is specified, then the Floating Rate Payer Period End Dates will not be adjusted.
Floating Rate Payment Dates:	As specified by the parties, subject to adjustment in
Trouting Rate Tayment Dates.	accordance with the Floating Rate Payer Payment Date
	Business Day Convention.
Floating Rate Payer Payment Date Business Days:	As specified by the parties from among the Available Business Days.
Floating Rate Payer Payment Date Day Convention:	As specified by the parties from among the Available
6	Business Day Conventions.
Day Count Fraction:	As specified by the parties from among the Available
	Day Count Fractions.
Compounding:	As specified by the parties.
Method of Averaging:	As specified by the parties.
Final Exchange:	A (C. 11 d)
Final Exchange Date:	As specified by the parties.
Final Exchange Business Days:	As specified by the parties from among the Available Business Days.
Final Exchange Business Day Convention:	As specified by the parties from among the Available Business Day Conventions.
Fixed Rate Payer Final Exchange Amount:	If the Fixed Rate Payer Final Exchange Amount is
Theo rate Layer I mai Exchange Amount.	denominated in the Settlement Currency, the Fixed Rate Payer Final Exchange Amount.

	If the Fixed Rate Payer Final Exchange Amount is
	, , , , , , , , , , , , , , , , , , , ,
	denominated in the Index Currency and the Index
	Currency is not identified as being subject to Asian
	Terms, an amount in the Settlement Currency equal to:
FX Rate \times Cur	rency Amount
	If the Fixed Rate Payer Final Exchange Amount is not
	denominated in the Settlement Currency and the Index
	Currency is identified as being subject to Asian Terms,
	then the Fixed Rate Payer Final Exchange Amount shall
	be calculated in accordance with the Asian Terms.
Floating Rate Payer Final Exchange Amount:	If the Floating Rate Payer Final Exchange Amount is
	denominated in the Settlement Currency, the Floating
	Rate Payer Final Exchange Amount.
	If the Floating Rate Payer Final Exchange Amount is
	denominated in the Index Currency and the Index
	Currency is not identified as being subject to Asian
	Terms an amount in the Settlement Currency equal to:
FX Rate × Cur	rency Amount
	If the Floating Rate Payer Final Exchange Amount is not
	denominated in the Settlement Currency and the Index
	Currency is identified as being subject to Asian Terms,
	then the Floating Rate Payer Final Exchange Amount
	shall be calculated in accordance with the Asian Terms.

Non-Deliverable Swap Settlement Currencies and Required Business Days

Three Letter Currency Code	Currency Name (ISDA)	Basic Business Day Locations
(ISDA/ISO)		For Currency (FpML Codes)
USD	United States Dollars	USNY

Non-Deliverable Swap Available Currencies

Index Currency	NDF Template	Rate Source	Fallback Rate Source(s) (in order)	Determination Date	Business Days
INR	N/A	N/A	N/A	N/A	INMU
MYR	N/A	N/A	N/A	N/A	MYKL
THB	N/A	N/A	N/A	N/A	THBA

Non-Deliverable Cross-Currency Swap Available Currency Pairs

Index	Settlement	NDF	Rate Source	Fallback Rate	Determination	Business
Currency	Currency	Template		Source(s) (in	Date	Days
				order)		
ARS	USD	17 May 06	ARS03	ARS04	Payment – 2	ARBA
					BD	USNY
BRL	USD	17 May 06	BRL09	BRL12,	Payment – 2	USNY and
				BRL13	BD	any of
						BR{SP,RJ,
						BR}
CLP	USD	01 Aug 06	CLP10	CLP11	Payment – 2	CLSA
					BD	USNY
COP	USD	01 Aug 06	COP02	COP03	Payment – 2	USNY
					BD	COBO
PEN	USD	03 Dec 07	PEN05	PEN04	Payment – 2	USNY

			BD	PELI

Applicability of Asian Terms

Index Currency	Asian Terms
ARS	Not Applicable
BRL	Not Applicable
CLP	Not Applicable
COP	Not Applicable
INR	Applicable
MYR	Applicable
PEN	Not Applicable
THB	Applicable

Non-Deliverable Swap Floating Rate Options

Index Currency	Floating Rate Option	Defined In	Business Days
ARS	Not Applicable—	ARBA	
		USNY	
BRL	BRL-CDI-CETIP	See below	USNY and any of
			$BR{SP,RJ,BR}$
CLP	CLP-Indice Cámara	CLP TNA Best Practices	USNY
	Promedio (ICP)		CLSA
CLP	CLP-Unidad de Fomentos	See below	USNY
	(UF/CLF)		CLSA
COP	COP-IBR-OIS-	ISDA 2006	USNY
	COMPOUND		COBO
COP	COP-Unidad de Valor Real	See below	USNY
	(UVR)		COBO
INR	INR-FBIL-MIBOR-OIS-	ISDA 2006	INMU
	COMPOUND		
INR	INR-MITOR-OIS-	ISDA 2006	INMU
	COMPOUND		
MYR	MYR-KLIBOR-BNM	ISDA 2006	MYKL
PEN	Not Applicable—	Fixed Leg ONLY	USNY
			PELI
THB	THB-THBFIX-Reuters	ISDA 2006	THBA
USD	Any USD Floating Rate	See tpSEF's Fixed/Floating	See tpSEF's
	Option available under	Swap Listing	Fixed/Floating Swap
	tpSEF's Fixed/Floating		Listing
	Swap Listing		

Definition of BRL Floating Rate Option

Floating Amount:	Notwithstanding anything to the contrary	
Trouting Timount.		
FX Rate	\times Currency Amount $\times \left[\prod_{j=1}^{N} \left(1 + \frac{Relevant \ Rate_j}{252} \right) - 1 \right]^{252/N}$	
	Where:	
	<i>N</i> =number of Reset Dates in the Calculation Period	
	j=a particular Reset Date	
	<i>Relevant Rate</i> =the Relevant Rate for instance <i>j</i> of Reset Date	
BRL-CDI-CETIP:	For any Reset Date, the Overnight Brazilian Interbank Deposit	
	Rate Annualized, known as the average ("Media") of the	

BRL-CDI-Reference Dealers:	DIOVER- EXTRA Group as published by CETIP (<i>Câmara de Custódia e Liquidação</i>) (the "Overnight CDI Rate") for such date; provided that (i) such rate is published not later than 12:00 p.m. on the Brazil Business Day next following such Reset Date and (ii) any adjustments made by CETIP to such rate at any time later than the end of the business day on such Reset Date shall not be taken into account. If for any Reset Date there is no published Overnight CDI Rate (including as a result of the proviso above), CDI for the relevant Reset Date will be the overnight deposit rate published for such date by the BM&F in accordance with its rules (see http://www.bmf.com.br/portal/pages/boletim1/bd_manual/indica doreFinanceiros1.asp, or any successor page). If the BM&F does not publish such a rate for such date, CDI for the relevant Reset Date shall be determined jointly by the parties. If the parties do not agree on a determination of such rate within one Brazil Business Day following the relevant Reset Date, CDI shall be determined through a CDI Reference Dealer Poll as described herein. If CDI for a Reset Date is not so determined by a CDI Reference Dealer Poll, BRL-CDI-Reference Dealers shall apply. If applicable for a Reset Date as set forth above, the Calculation Agent shall conduct up to four dealer polls commencing on the Brazil Business Day following the relevant Reset Date, in each
	Brazil Business Day following the relevant Reset Date, in each case by requesting each of the CDI Reference Dealers to provide a quotation of the CDI. If at least four such quotations are obtained from CDI Reference Dealers in any such poll, the highest and lowest quotations will be disregarded and CDI for the relevant Reset Date will equal the arithmetic mean of the remaining quotations. If fewer than four such quotations are obtained from a poll, the Calculation Agent shall conduct additional such polls until four such quotations are obtained in any poll; provided that the Calculation Agent shall not conduct more than four polls in the aggregate (with not more than two polls on any day and with such polls conducted over not more than two Brazil Business Days). If four quotations are not obtained from any of such four polls,
CDI Reference Dealers:	CDI shall CDI shall not be determined by a CDI Reference Dealer Poll. At least six and not more than eight leading onshore dealers in
	the CDI market selected by the Calculation Agent.
Reset Dates ("resetDate"):	Each Scheduled Reset Date (as defined in the BRL CDI Best Practices).
Reset Dates Business Days:	As specified by the parties from among the Available BR Business Days.
Available BR Business Days:	Any of BR{SP,RJ, BR} and not otherwise declared a financial market holiday by the BM&F.

Definition of CLP-Unidad de Fomento (UF/CLF)

CLP- <i>Unidad de Fomento (UF/CLF)</i> :	For any Reset Date, the difference between the value of the
	unidad de fomento (UF/CLF) as certified by the Chilean Banco
	Central de Chile for the calendar day preceding such Reset Date

and the value of the <i>unidad de fomento (UF/CLF)</i> as certified by
the Chilean Banco Central de Chile for such Reset Date.
The Calculation Agent shall convert such difference to the
appropriate annualized percentage based on the terms of the
Floating Amount payable by reference to the CLP- <u>Unidad de</u>
Fomento (UF/CLF).
If for any Reset Date there is no published value of the <i>unidad</i>
de fomento (UF/CLF) as certified by the Chilean Banco Central
de Chile, the Calculation Agent shall determine the CLP- <u>Unidad</u>
<u>de Fomento (UF/CLF)</u> for such day.

Definition of COP-Unidad de Valor Real (UVR)

COP- <i>Unidad de Valor Real (UVR)</i> :	For any Reset Date, the difference between the value of the
	unidad de valor real (UVR) as certified by the Colombian
	Banco de Republica for the calendar day preceding such Reset
	Date and the value of <i>unidad de valor real (UVR)</i> as certified by
	the Colombian Banco de Republica for such Reset Date.
	The Calculation Agent shall convert such difference to the
	appropriate annualized percentage based on the terms of the
	Floating Amount payable by reference to the COP- <u>Unidad de</u>
	Valor Real (UVR).
	If for any Reset Date there is no published the difference
	between the value of the <i>unidad de valor real (UVR)</i> as certified
	by the Colombian Banco de Republica, the Calculation Agent
	shall determine the COP- <u>Unidad de Valor Real (UVR)</u> for such
	day.

Non-Deliverable Swap Available Day Count Fractions

ISDA Name		
1/1		
30/360, 360/360, Bond Basis		
Actual/360		
Actual/365 (Fixed), Act/365 (Fixed), A/365 (Fixed), A/365F		
Actual/Actual, Actual/Actual (ISDA), Act/Act, Act/Act (ISDA)		
Actual/Actual (ICMA), Act/Act, Act/Act (ICMA)		

Non-Deliverable Swap Available Business Day Conventions

	ISDA Name
Following	
Modified/Modified Following	
No Adjustment	
Preceding	
FRN Convention/Eurodollar Convention	

Non-Deliverable Single-Currency Swap Notional Amounts

Currency	Minimum	Increment
INR	5,000,000	100,000
MYR	5,000,000	100,000
RHB	5,000,000	100,000

Non-Deliverable Swaps

Non-Deliverable Cross-Currency Swap Notional Amounts

Currency	Minimum	Increment	
ARS	As implied by the USD minimum	As implied by the USD increment	
BRL	As implied by the USD minimum	As implied by the USD increment	
CLP	As implied by the USD minimum	As implied by the USD increment	
COP	As implied by the USD minimum	As implied by the USD increment	
PEN	As implied by the USD minimum	As implied by the USD increment	
USD	1,000,000	100,000	

Non-Deliverable Foreign Exchange Options

following industry standard documentation and standards: (a) the 1998 FX and Currency Option Definitions, as amended and supplemented from time to time, including the 2005 Barrier Option Supplement to the 1998 FX and Currency Option Definitions (the "1998 Definitions"); (b) the current EMTA Template Terms for Non-Deliverable Currency Option Transactions applicable to the Reference Currency and Settlement Currency (to the extent available for a particular Currency Pair) (available at: https://www.emta.org/ndftt.aspx); and (c) ISDA OTC Taxonomies. Contract Types: Each Non-Deliverable Foreign Exchange Option traded is bespoke and the terms agreed between the Buyer and Seller. All option strategies result in call options and/or put options executed with the following strategies traded as agreed between the parties: Vanilla: Outright Call / Put, Straddle, Strangle, Butterfly, Risk Reversal, Calendar (tenor) spread, Cross Currency Spread, Condor, Call Spread, Put Spread, Live Trading with no delta hedge. Exotic: Barriers, Baskets, Digitals (or Binary), Knockins, Knockouts, Reverse Knockins/Kockouts, No Touch, Double No Touch, Average Price, Worst of Options, Compound Options; trades may be with or without delta hedges and some structures may also be bilaterally negotiated with additional options as part of the package to form a vega hedge. Product Type/ISDA OTC Taxonomy:	Summary:	This covers "Non-Deliverable Foreign Exchange Options".	
amended and supplemented from time to time, including the 2005 Barrier Option Supplement to the 1998 FX and Currency Option Definitions (the "1998 EX and Currency Option Definitions"); (b) the current EMTA Template Terms for Non-Deliverable Currency Option Transactions applicable to the Reference Currency and Settlement Currency (to the extent available for a particular Currency Pair) (available at: https://www.emta.org/ndft.aspx); and (c) ISDA OTC Taxonomies. Contract Types: Each Non-Deliverable Foreign Exchange Option traded is bespoke and the terms agreed between the Buyer and Seller. All option strategies result in call options and/or put options executed with the following strategies traded as agreed between the parties: Vanilla: Outright Call / Put, Straddle, Strangle, Butterfly, Risk Reversal, Calendar (tenor) spread, Cross Currency Spread, Condor, Call Spread, Put Spread, Live Trading with no delta hedge. Exotic: Barriers, Baskets, Digitals (or Binary), Knockins, Knockouts, Reverse Knockins/Kockouts, No Touch, Double No Touch, Average Price, Worst of Options, Compound Options; trades may be with or without delta hedges and some structures may also be bilaterally negotiated with additional options as part of the package to form a vega hedge. Product Type/ISDA OTC Taxonomy: ISDA OTC Asset Class: Foreign Exchange SDA OTC Base Product: Vanilla Option, NDO, Simple Exotic or Complex Exotic Terms: Trade Date: The date the transaction is agreed between and becomes legally binding on the parties. The date the transaction is preceded by the parties. The Trade Date, unless otherwise specified by the parties. This applies only where the Currency Option Style is American. Buyer: As specified by the parties.	Incorporated Standards:		
Deliverable Currency Option Transactions applicable to the Reference Currency and Settlement Currency (to the extent available for a particular Currency Pair) (available at: https://www.emta.org/ndftt.aspx); and (c) ISDA OTC Taxonomies. Contract Types: Each Non-Deliverable Foreign Exchange Option traded is bespoke and the terms agreed between the Buyer and Seller. All option strategies result in call options and/or put options executed with the following strategies traded as agreed between the parties: Vanilla: Outright Call / Put, Straddle, Strangle, Butterfly, Risk Reversal, Calendar (tenor) spread, Cross Currency Spread, Condor, Call Spread, Put Spread, Live Trading with no delta hedge. Exotic: Barriers, Baskets, Digitals (or Binary), Knockins, Knockouts, Reverse Knockins/Kockouts, No Touch, Double No Touch, Average Price, Worst of Options, Compound Options; trades may be with or without delta hedges and some structures may also be bilaterally negotiated with additional options as part of the package to form a vega hedge. Product Type/ISDA OTC Taxonomy: ISDA OTC Asset Class: Foreign Exchange ISDA OTC Base Product: Vanilla Option, NDO, Simple Exotic or Complex Exotic Terms: Trade Date: The date the transaction is agreed between and becomes legally binding on the parties. This applies only where the Currency Option Style is American. Buyer: As specified by the parties.		amended and supplemented from time to time, including the 2005 Barrier Option Supplement to the 1998 FX and	
Contract Types: Each Non-Deliverable Foreign Exchange Option traded is bespoke and the terms agreed between the Buyer and Seller. All option strategies result in call options and/or put options executed with the following strategies traded as agreed between the parties: Vanilla: Outright Call / Put, Straddle, Strangle, Butterfly, Risk Reversal, Calendar (tenor) spread, Cross Currency Spread, Condor, Call Spread, Put Spread, Live Trading with no delta hedge. Exotic: Barriers, Baskets, Digitals (or Binary), Knockins, Knockouts, Reverse Knockins/Kockouts, No Touch, Double No Touch, Average Price, Worst of Options, Compound Options; trades may be with or without delta hedges and some structures may also be bilaterally negotiated with additional options as part of the package to form a vega hedge. Product Type/ISDA OTC Taxonomy: ISDA OTC Asset Class: Foreign Exchange ISDA OTC Base Product: Vanilla Option, NDO, Simple Exotic or Complex Exotic Terms: Trade Date: The date the transaction is agreed between and becomes legally binding on the parties. The Trade Date, unless otherwise specified by the parties. The Trade Date, unless otherwise specified by the parties. The Trade Date, unless otherwise specified by the parties. Seller: As specified by the parties.		Deliverable Currency Option Transactions applicable to the Reference Currency and Settlement Currency (to the extent available for a particular Currency Pair) (available	
bespoke and the terms agreed between the Buyer and Seller. All option strategies result in call options and/or put options executed with the following strategies traded as agreed between the parties: Vanilla: Outright Call / Put, Straddle, Strangle, Butterfly, Risk Reversal, Calendar (tenor) spread, Cross Currency Spread, Condor, Call Spread, Put Spread, Live Trading with no delta hedge. Exotic: Barriers, Baskets, Digitals (or Binary), Knockins, Knockouts, Reverse Knockins/Kockouts, No Touch, Double No Touch, Average Price, Worst of Options, Compound Options; trades may be with or without delta hedges and some structures may also be bilaterally negotiated with additional options as part of the package to form a vega hedge. Product Type/ISDA OTC Taxonomy: ISDA OTC Asset Class: Foreign Exchange ISDA OTC Base Product: Vanilla Option, NDO, Simple Exotic or Complex Exotic Terms: Trade Date: The date the transaction is agreed between and becomes legally binding on the parties. The Trade Date, unless otherwise specified by the parties. This applies only where the Currency Option Style is American. Buyer: As specified by the parties. Seller: As specified by the parties.		(c) ISDA OTC Taxonomies.	
Risk Reversal, Calendar (tenor) spread, Cross Currency Spread, Condor, Call Spread, Live Trading with no delta hedge. Exotic: Barriers, Baskets, Digitals (or Binary), Knockins, Knockouts, Reverse Knockins/Kockouts, No Touch, Double No Touch, Average Price, Worst of Options, Compound Options; trades may be with or without delta hedges and some structures may also be bilaterally negotiated with additional options as part of the package to form a vega hedge. Product Type/ISDA OTC Taxonomy: ISDA OTC Asset Class: Foreign Exchange ISDA OTC Base Product: Vanilla Option, NDO, Simple Exotic or Complex Exotic Terms: Trade Date: The date the transaction is agreed between and becomes legally binding on the parties. This applies only where the Currency Option Style is American. Buyer: As specified by the parties. Seller: As specified by the parties.	Contract Types:	bespoke and the terms agreed between the Buyer and Seller. All option strategies result in call options and/or put options executed with the following strategies traded	
Knockouts, Reverse Knockins/Kockouts, No Touch, Double No Touch, Average Price, Worst of Options, Compound Options; trades may be with or without delta hedges and some structures may also be bilaterally negotiated with additional options as part of the package to form a vega hedge. Product Type/ISDA OTC Taxonomy: ISDA OTC Asset Class: Foreign Exchange ISDA OTC Base Product: Vanilla Option, NDO, Simple Exotic or Complex Exotic Terms: Trade Date: The date the transaction is agreed between and becomes legally binding on the parties. Commencement Date: The Trade Date, unless otherwise specified by the parties. This applies only where the Currency Option Style is American. Buyer: As specified by the parties. Seller: As specified by the parties.		Risk Reversal, Calendar (tenor) spread, Cross Currency Spread, Condor, Call Spread, Put Spread, Live Trading	
ISDA OTC Asset Class: ISDA OTC Base Product: Vanilla Option, NDO, Simple Exotic or Complex Exotic Terms: Trade Date: The date the transaction is agreed between and becomes legally binding on the parties. Commencement Date: The Trade Date, unless otherwise specified by the parties. This applies only where the Currency Option Style is American. Buyer: As specified by the parties. Seller: As specified by the parties.		Knockouts, Reverse Knockins/Kockouts, No Touch, Double No Touch, Average Price, Worst of Options, Compound Options; trades may be with or without delta hedges and some structures may also be bilaterally negotiated with additional options as part of the package	
ISDA OTC Base Product: Vanilla Option, NDO, Simple Exotic or Complex Exotic Terms: Trade Date: The date the transaction is agreed between and becomes legally binding on the parties. Commencement Date: The Trade Date, unless otherwise specified by the parties. This applies only where the Currency Option Style is American. Buyer: As specified by the parties. Seller: As specified by the parties.	Product Type/ISDA OTC Taxonomy:		
Trade Date: The date the transaction is agreed between and becomes legally binding on the parties. Commencement Date: The Trade Date, unless otherwise specified by the parties. This applies only where the Currency Option Style is American. Buyer: As specified by the parties. Seller: As specified by the parties.	ISDA OTC Asset Class:	Foreign Exchange	
Trade Date: The date the transaction is agreed between and becomes legally binding on the parties. The Trade Date, unless otherwise specified by the parties. This applies only where the Currency Option Style is American. Buyer: As specified by the parties. Seller: As specified by the parties.	ISDA OTC Base Product:	Vanilla Option, NDO, Simple Exotic or Complex Exotic	
legally binding on the parties. Commencement Date: The Trade Date, unless otherwise specified by the parties. This applies only where the Currency Option Style is American. Buyer: As specified by the parties. Seller: As specified by the parties.	Terms:		
This applies only where the Currency Option Style is American. Buyer: As specified by the parties. Seller: As specified by the parties.	Trade Date:		
Seller: As specified by the parties.	Commencement Date:	This applies only where the Currency Option Style is	
1 7 1	Buyer:	As specified by the parties.	
Currency Option Style: As specified by the parties.	Seller:	As specified by the parties.	
	Currency Option Style:	As specified by the parties.	

	(An American option can be exercised any time up to and including the Expiration Date; a European option can only be exercised on the Expiration Date.)
Currency Option Type:	A Call with respect to the Call Currency and a Put with respect to the Put Currency; Binary in the case of a binary or digital option.
Call Currency:	The currency as specified by the parties from among those included in the list of available Currency Pairs.
	The Put Currency and Call Currency must represent a traded pair included in the list of available Currency Pairs.
Call Currency Amount:	As specified by the parties or, if not so specified, derived from the Put Currency Amount and Strike Price.
Put Currency:	The currency as specified by the parties from among those included in the list of available Currency Pairs.
	The Put Currency and Call Currency must represent a traded pair included in the list of available Currency Pairs.
Put Currency Amount:	As specified by the parties or, if not so specified, derived from the Call Currency Amount and Strike Price.
Strike Price:	As specified by the parties (if only one of the Put Currency or Call Currency is specified).
	If no Strike Price is specified and Automatic Exercise is applicable, the Strike Price will be calculated using the Put Currency and Call Currency in order to determine if the option is to be automatically exercised.
Reference Currency:	As specified by the parties.
Settlement Currency:	As specified by the parties.
Settlement Rate:	As specified by the parties or otherwise per the 1998 Definitions.
Settlement Rate Option:	As specified by the parties.
Expiration Date:	As specified by the parties.
Expiration Time:	The time in the location specified by the parities.
Latest Exercise Time:	The Expiration Time, unless otherwise specified by the parties. This applies only where the Currency Option Style is American.
Automatic Exercise:	Applicable, unless otherwise specified by the parties.
Settlement:	Non-Deliverable
Settlement Amount:	In the case of a digital or binary option, as specified by the parties.
Settlement Date:	As specified by the parties.
Valuation Date:	As specified by the parties.
Averaging Dates:	As specified by the parties.

Premium:	As specified by the parties.
Premium Payment Date:	As specified by the parties.
Barrier Event:	As specified by the parties.
Calculation Agent:	As specified by the parties.
Business Day:	As specified by the parties.
Business Day Convention:	As specified by the parties.
Disruption Events:	As specified by the parties.
Disruption Fallbacks:	As specified by the parties for each applicable Disruption Event or otherwise per the 1998 Definitions.

Non-Deliverable Foreign Exchange Option Available Currency Pairs

AUD/CNY	CNY/THB	IDR/PHP	MYR/CNH	THB/INR
AUD/IDR	CNY/TWD	IDR/THB	MYR/CNY	THB/KRW
AUD/INR	EUR/ARS	IDR/TWD	MYR/EUR	THB/MYR
AUD/KRW	EUR/BRL	INR/AUD	MYR/GBP	THB/PHP
AUD/MYR	EUR/CLP	INR/CAD	MYR/IDR	THB/TWD
AUD/PHP	EUR/CNY	INR/CHF	MYR/INR	TWD/AUD
AUD/TWD	EUR/COP	INR/CNH	MYR/JPY	TWD/CAD
BRL/JPY	EUR/IDR	INR/CNY	MYR/KRW	TWD/CHF
BRL/MXN	EUR/INR	INR/EUR	MYR/NZD	TWD/CNH
CAD/BRL	EUR/KRW	INR/GBP	MYR/PHP	TWD/CNY
CAD/CNY	EUR/KZT	INR/HKD	MYR/SGD	TWD/EUR
CAD/IDR	EUR/MYR	INR/IDR	MYR/TWD	TWD/GBP
CAD/INR	EUR/PEN	INR/JPY	NZD/CNY	TWD/HKD
CAD/KRW	EUR/PHP	INR/KRW	NZD/IDR	TWD/IDR
CAD/MYR	EUR/TWD	INR/NZD	NZD/INR	TWD/INR
CAD/PHP	EUR/UAH	INR/PHP	NZD/KRW	TWD/JPY
CAD/TWD	GBP/BRL	INR/SGD	NZD/MYR	TWD/KRW
CHF/BRL	GBP/CNY	INR/TWD	NZD/PHP	TWD/MYR
CHF/CNY	GBP/IDR	JPY/CNY	NZD/TWD	TWD/NZD
CHF/IDR	GBP/INR	JPY/IDR	PHP/AUD	TWD/PHP
CHF/INR	GBP/KRW	JPY/INR	PHP/CAD	TWD/SGD
CHF/KRW	GBP/MYR	JPY/KRW	PHP/CHF	TWD/THB
CHF/MYR	GBP/PHP	JPY/MYR	PHP/CNH	USD/ARS
CHF/PHP	GBP/TWD	JPY/PHP	PHP/CNY	USD/BRL
CHF/TWD	HKD/CNY	JPY/TWD	PHP/EUR	USD/CLP

Non-Deliverable Foreign Exchange Options

1				
CNH/IDR	HKD/IDR	KRW/AUD	PHP/GBP	USD/CNY
CNH/INR	HKD/INR	KRW/CAD	PHP/HKD	USD/COP
CNH/KRW	HKD/KRW	KRW/CHF	PHP/IDR	USD/EGP
CNH/MYR	HKD/MYR	KRW/CNH	PHP/INR	USD/GHS
CNH/PHP	HKD/PHP	KRW/CNY	PHP/JPY	USD/IDR
CNH/TWD	HKD/TWD	KRW/EUR	PHP/KRW	USD/INR
CNY/AUD	IDR/AUD	KRW/GBP	PHP/MYR	USD/KES
CNY/CAD	IDR/CAD	KRW/IDR	PHP/NZD	USD/KRW
CNY/CHF	IDR/CHF	KRW/INR	PHP/THB	USD/KZT
CNY/EUR	IDR/CNH	KRW/JPY	PHP/TWD	USD/MYR
CNY/GBP	IDR/CNY	KRW/MYR	SGD/CNY	USD/NGN
CNY/HKD	IDR/EUR	KRW/NZD	SGD/IDR	USD/PEN
CNY/IDR	IDR/GBP	KRW/PHP	SGD/INR	USD/PHP
CNY/INR	IDR/HKD	KRW/SGD	SGD/KRW	USD/RUB
CNY/JPY	IDR/INR	KRW/THB	SGD/MYR	USD/TWD
CNY/KRW	IDR/JPY	KRW/TWD	SGD/PHP	USD/UAH
CNY/MYR	IDR/KRW	MYR/AUD	SGD/TWD	USD/VND
CNY/NZD	IDR/MYR	MYR/CAD	THB/CNY	USD/ZMW
CNY/PHP	IDR/NZD	MYR/CHF	THB/IDR	

Non-Deliverable Forward Foreign Exchange Contracts

Summary:	A non-deliverable forward ("NDF") is an outright forward in which the counterparties settle the difference between the contracted NDF price or rate and the prevailing spot price or rate on an agreed notional amount in an agreed settlement currency.	
Reference Currency	AOA Angolan Kwanza	
(i.e., Non-Delivery Currency):	ARS Argentine Peso	
	BDT Bangladeshi Taka	
	BRL Brazilian Real	
	CLP Chilean Peso	
	COP Colombian Peso	
	CNY Chinese Renminbi	
	DZD Algerian Dinar	
	EGP Egyptian pound	
	GHS Ghanaian Cedi	
	GTQ Guatemalan quetzal	
	IDR Indonesian Rupiah	
	INR Indian Rupee	
	KES Kenyan Shilling	
	KRW South Korean Won	
	KZT Kazakh tenge	
	LKR Sri Lankan Rupee	
	MAD Moroccan Dirham	
	MUR Mauritian Rupee	
	MYR Malaysian Ringgit	
	MZN Mozambican Metical	
	NGN Nigerian Naira	
	PEN Peruvian nuevo sol	
	PHP Philippine Peso	
	PKR Pakistani Rupee	
	RUB Russian ruble	
	TND Tunisian Dinar	
	TWD Taiwan Dollar	
	TZS Tanzanian Shilling	

	UAH Ukrainian Hryvnia	
	UGX Ugandan Shilling	
	UYU Uruguayan peso	
	VEB Venezuelan bolívar	
	VND Vietnamese đồng	
	XAF Central African CFA Franc	
	XOF West African CFA Franc	
	ZMW Zambian Kwacha	
Settlement Currency:	AUD Australian Dollar	
	CAD Canadian Dollar	
	EUR Euro	
	GBP British Pound	
	JPY Japanese Yen	
	USD US Dollar	
	CHF Swiss Franc	
Quoting Convention and Minimum Increment:	Notional amount, as agreed by counterparties.	
Minimum Size:	Notional amount, as agreed by counterparties.	
Notional Currency:	Currency in which contract size is expressed, as agreed by counterparties.	
Trading Conventions:	Buy or Sell which refers to the contract size expressed in notional currency.	
Forward Rates:	Currency exchange rate expressed as the amount of reference currency per unit of settlement currency.	
Trade Date:	The date on which parties enter into the contract.	
Settlement Date:	Specified settlement or payment date, as agreed by counterparties.	
Fixing Date:	The date at which the difference between the prevailing market exchange rate and the agreed upon exchange rate is calculated.	
Settlement Procedure:	Bilateral settlement performed in settlement currency.	
Disruption Events:	Unless otherwise specified by the parties, as set forth in the EMTA Template Terms for Non-Deliverable FX Forward Transactions applicable to the Reference Currency and Settlement Currency:	
	http://www.emta.org/ndftt.aspx	

PO Index Contracts

Summary:	This covers Markit PO Fixed for Floating Swap	
	Transactions (the "Contracts").	
Limitations on Available Selections and Default	The terms under which the Contracts may be traded are	
Settings:	as specified in these terms and conditions.	
	For amounts or rates, the relevant term cannot be less	
	than the specified Minimum, must represent an even	
	Increment and cannot exceed the Maximum; for a date,	
	the date cannot be earlier than Earliest nor later than	
	Latest.	
	In many cases there are normal "vanilla" terms on which	
	the parties will transact.	
	These are shown as "Default" and will apply unless the	
	parties vary them.	
Incorporated Standards:	This contract description incorporates by reference the	
	following industry standard documentation and	
	standards:	
	(a) 2006 ISDA Definitions;	
	(b) ISDA OTC Taxonomies; and	
	(c) the Markit PO Standard Terms Supplement (June	
	12, 2010 version) or any subsequent Standard	
Duodust Type/ISDA OTC Tovenemy	Terms Supplement (the "Standard Terms").	
Product Type/ISDA OTC Taxonomy: ISDA OTC Asset Class:	Credit	
ISDA OTC Asset Class. ISDA OTC Base Product:	Index	
ISDA OTC Sub-Product:	PO	
ISDA OTC Sub-Product: ISDA OTC Transaction Type:		
Further Limitations:	PO	
Terms:	None	
Effective Date:	As specified by the parties, subject to adjustment in	
Effective Date.	accordance with the Standard Terms.	
Scheduled Termination Date:	As agreed by the parties.	
Termination Date:	Per the Standard Terms.	
Notional Amount:	An amount is USD agreed by the parties.	
Index:	One of the Markit PO Index series, as specified by the	
nidex.	parties from all then-available series (to the extent such	
	series is not then a narrow-based index within the	
	meaning of the CFTC's regulations).	
Annex Date:	As agreed by the parties.	
Index Provider:	Per the Standard Terms.	
Fixed Rate Payer:	As agreed by the parties.	
Floating Rate Payer:	As agreed by the parties. As agreed by the parties.	
Period End Dates:	Per the Standard Terms.	
Reset Dates:	Per the Standard Terms	
Payment Dates:	Per the Standard Terms.	
Calculation Agent:	As agreed by the parties or, if not so agreed, per the	
	Standard Terms.	
Day Count Fraction:	Per the Standard Terms.	
Business Days:	For any purpose, per the Standard Terms.	
Business Day Convention:	Per the Standard Terms.	
Initial Payment:		

Initial Payment:	Per the Standard Terms.	
Initial Payment Amount:	An amount in USD as specified by the parties.	
Initial Payment Payer:	As specified by the parties.	
Initial Payment Date:	Per the Standard Terms.	
Settlement Payments		
Mark to Market Amount Payment:	Per the Standard Terms.	
Mark to Market Amount Payer:	Per the Standard Terms.	
Mark to Market Amount:	Per the Standard Terms.	
Financing Payment:	Per the Standard Terms.	
Financing Payment Amount:	Per the Standard Terms.	
Principal Payment:	Per the Standard Terms.	
Principal Payment Amount:	Per the Standard Terms.	
Net Payment:	Per the Standard Terms.	
Net Payment Amount Payer:	Per the Standard Terms.	
Net Payment Amount:	Per the Standard Terms.	
Agency Coupon:	Per the Standard Terms.	
Index LIBOR:	Per the Standard Terms.	
Index Factor:	Per the Standard Terms.	
Commencing Index Factor:	Per the Standard Terms.	
Period End Index Factor:	Per the Standard Terms.	
Index Price:	Per the Standard Terms.	
Commencing Index Price:	Per the Standard Terms.	
Period End Index Price:	Per the Standard Terms.	
Event Affecting the Index:		
Events and Adjustments:	All are per the Standard Terms.	

Single Currency Fixed for Floating Interest Rate Swaps - CME Cleared

Summary:	This covers single currency fixed for floating interest	
	rate swaps cleared by the Chicago Mercantile Exchange Inc. ("CME").	
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Limitations on Available Selections and Default Settings:	The terms under which a Single Currency Fixed for Floating Interest Rate Swap/CME Cleared may be traded are as specified in these terms and conditions, which incorporate the CME Rulebook, in particular Chapters 900 and 901 (and any successor provisions) and the CME Cleared IRS Product Scope (or any successor). By electing to trade a Single Currency Fixed for Floating Interest Rate Swap/CME Cleared, participants are representing that they are familiar with the CME Rulebook and the limitations on transaction terms contained in it.	
Incorporated Standards:	This contract description incorporates by reference the CME Rulebook as in effect from time to time. The CME Rulebook itself may incorporate certain additional standards, such as the 2000 ISDA Definitions and 2006 ISDA Definitions. Be aware that the timing of effectiveness of amendments or supplements to the ISDA standards may vary between bilateral and CME contracts, since the CME may reserve the right to select when and how such changes become effective.	
Product Type/ISDA OTC Taxonomy:		
ISDA OTC Asset Class:	Interest Rate	
ISDA OTC Base Product:	IR Swap	
ISDA OTC Sub-Product(s):	Fixed Float and OIS	
Further Limitations:	Must comply with CME Clearing Requirements.	
Terms:		
Definition Set:	The definition set (<i>e.g.</i> , ISDA 2000/ISDA2006) elected by, or otherwise binding on, the parties in accordance with the CME Rulebook.	
Effective Date:	As per the CME Rulebook.	
Notional Amount:	An amount in Currency determined by the parties subject to limitations in the CME Rulebook. This may vary from period to period to the extent permitted by the CME Rulebook. The CME Rulebook may limit the Currencies and Floating Rate Options for which variable notionals are permitted.	
Currency:	One of the currencies permitted for the relevant transaction type per the CME Rulebook.	
Business Days:	As per the CME Rulebook, which may require certain Business Days be applicable on a per Currency or Floating Rate Option Basis and may otherwise limit the available Business Day locations which can be elected.	
Business Day Convention:	As per the CME Rulebook.	
Trade Date:	As per the CME Rulebook.	
Termination Date:	As agreed by the parties, subject to any minimum or	

Single Currency Fixed for Floating Interest Rate Swaps - CME Cleared

	maximum tenor in the CME Rulebook.	
Termination Date Business Day Convention:	As per the CME Rulebook, and thus subject to	
	limitations based on other terms of the transaction.	
Stub Periods:	Permitted to the extent allowed under the CME	
	Rulebook.	
Fixed Rate Payer Payment Dates:	As per the CME Rulebook.	
Fixed Amount:	As per the CME Rulebook, which may permit use of a	
	schedule.	
Fixed Rate:	As agreed by the parties, subject to any minimum or	
	maximum rate and per-period variability permitted in the	
	CME Rulebook.	
Floating Rate Payer Payment Dates:	As per the CME Rulebook.	
Floating Amount:	As per the CME Rulebook.	
Floating Rate Option:	As determined by the parties, subject to the CME	
	Rulebook, which may provide a more limited list of	
	available options for a Currency than does the Definition	
	Set.	
Designated Maturity:	As per the CME Rulebook, which may provide a more limited set of Designated Maturities than does the	
	related rate source page.	
Spread:	Subject to any minimum or maximum rate and per-	
	period variability permitted by the CME Rulebook.	
Reset Dates:	As the per CME Rulebook.	
Floating Rate Daycount Fraction:	As per the CME Rulebook.	
Floating Rate for Initial Calculation Period:	As per the CME Rulebook.	
Fixed Rate Payer:	As determined by the parties.	
Floating Rate Payer:	As determined by the parties.	
Compounding:	As per the CME Rulebook.	
Payer for Additional Payment/Fees:	As determined by the parties, subject to limitations in	
	the CME Rulebook.	
Additional Payment/Fees:	As determined by the parties, subject to limitations in	
	the CME Rulebook.	
Payment Date for Additional Payment/Fees	As determined by the parties, subject to limitations in	
	the CME Rulebook.	

Single Currency Fixed for Floating Interest Rate Swaps – LCH Cleared

Summary:	This covers single currency fixed for floating swaps	
	cleared by LCH.Clearnet ("LCH").	
Limitations on Available Selections and Default Settings:	The terms under which a Single Currency Fixed for Floating Interest Rate Swaps/LCH Cleared contract may be traded are as specified in these terms and conditions, which incorporate the LCH Rulebook, in particular Schedule 4A (or any successor provisions). By electing to trade a Single Currency Fixed for Floating Interest Rate Swap/LCH Cleared, participants are representing that they are familiar with the LCH Rulebook and the limitations on transaction terms contained in it.	
Incorporated Standards:	This contract description incorporates by reference the LCH Rulebook as in effect from time to time. The LCH Rulebook itself may incorporate certain additional standards, such as the 2000 ISDA Definitions and 2006 ISDA Definitions. Be aware that the timing of effectiveness of amendments or supplements to the ISDA standards may vary between bilateral and LCH contracts, since the LCH may reserve the right to select when and how such changes become effective.	
Product Type/ISDA OTC Taxonomy:		
ISDA OTC Asset Class:	Interest Rate	
ISDA OTC Base Product:	IR Swap	
ISDA OTC Sub-Product(s):	Fixed Float and OIS	
Further Limitations:	Must comply with LCH Clearing Requirements	
Terms:		
Definition Set:	The definition set (e.g., ISDA 2000/ISDA 2006) elected by, or otherwise binding on, the parties in accordance with the LCH Rulebook.	
Notional Amount:	An amount in Currency determined by the parties subject to limitations in the LCH Rulebook. This may vary from period to period to the extent permitted by the LCH Rulebook. The LCH Rulebook may limit the Currencies and Floating Rate Options for which variable notionals are permitted.	
Currency:	One of the currencies permitted for the relevant transaction type per the LCH Rulebook.	
Trade Date:	As per the LCH Rulebook.	
Effective Date:	As per the LCH Rulebook.	
Termination Date:	As agreed by the parties, subject to any minimum or maximum tenor in the LCH Rulebook.	
Payer for Additional Payment/Fees:	As determined by the parties, subject to limitations in the LCH Rulebook.	
Additional Payment/Fees:	As determined by the parties, subject to limitations in the LCH Rulebook	
Payment Date for Additional Payment/Fees	As determined by the parties, subject to limitations in the LCH Rulebook, which may limit the earliest or latest day on which such fees may be paid based on Currency or other factors.	

Single Currency Fixed for Floating Interest Rate Swaps – LCH Cleared

Business Days:	As per the LCH Rulebook, which may require certain Business Days be applicable on a per Currency or Floating	
	Rate Option Basis and may otherwise limit the available	
	Business Day locations which can be elected.	
Business Day Convention:	As per the LCH Rulebook.	
Stub Periods:	Permitted to the extent allowed under the LCH Rulebook.	
Fixed Rate Payer:	As determined by the parties.	
Fixed Rate Payer Payment Dates:	As per the LCH Rulebook.	
Fixed Amount:	As per the LCH Rulebook, which may permit use of a schedule.	
Fixed Rate:	As agreed by the parties, subject to any minimum or maximum rate and per-period variability permitted in the LCH Rulebook.	
Floating Rate Payer	As determined by the parties.	
Floating Rate Payer Payment Dates:	As per the LCH Rulebook.	
Floating Rate Payer Compounding Dates:	As per the LCH Rulebook.	
Floating Amount:	As per the LCH Rulebook.	
Floating Rate Option:	As determined by the parties, subject to the LCH	
	Rulebook, which may provide a more limited list of	
	available options for a Currency than does the Definition Set.	
Designated Maturity:	As per the LCH Rulebook, which may provide a more limited set of Designated Maturities than does the related rate source page.	
Spread:	Subject to any minimum or maximum rate and per-period variability permitted by the LCH Rulebook.	
Reset Dates:	As the per LCH Rulebook.	
Floating Rate Daycount Fraction:	As per the LCH Rulebook.	
Negative Interest Rates:	As per the LCH Rulebook, which may require use of a single method.	
Withholding and Tax:	As per the LCH Rulebook.	
Governing Law:	As per the LCH Rulebook, which may dictate the law applicable to the Transaction.	

U.S. Electricity – Fixed/Floating Swap Contracts

Summary:	This covers fixed-for-floating U.S. electricity swaps		
	("U.S. Electricity – Fixed/Floating Swap Contracts").		
Limitations on Available Selections and Default	The terms under which U.S. Electricity – Fixed/Floating		
Settings:	Swap Contracts may be traded are shown below or in the		
	attached tables.		
	For amounts or rates, the relevant term cannot be less		
	than the specified Minimum, must represent an even		
	Increment and cannot exceed the Maximum; for a date,		
	the date cannot be earlier than Earliest nor later than		
	Latest.		
	In many cases there are normal "vanilla" terms on which		
	the parties will transact.		
	These are shown as "Default" and will apply unless the		
T.,	parties vary them.		
Incorporated Standards:	This contract description incorporates by reference the		
	following industry standard documentation and standards:		
	2005 ISDA Commodity Derivatives Definitions		
	("Commodity Definitions")		
Product Type/ISDA OTC Taxonomy:	(Commodity Demittions)		
ISDA OTC Asset Class:	Commodity		
ISDA OTC Base Product:	Energy		
ISDA OTC Sub-Product:	Elec		
ISDA OTC Transaction type:	Swap		
Further Limitations:	None		
Terms:			
Trade Date:	As agreed by the parties.		
Effective Date:	The date specified by the parties, adjusted in accordance		
	with any applicable Business Day Convention.		
Effective Date Business Days:	USNY		
Effective Date Business Day Convention:	As specified by the parties from among the Available Business Day Conventions.		
Termination Date:	As specified by the parties.		
Termination Date Business Days:	USNY		
Termination Date Business Day Convention:	As specified by the parties from among the Available		
	Business Day Conventions.		
Commodity	As specified by the parties from among the Available		
	Commodities.		
Notional Quantity:	The sum of the Notional Quantities per Calculation Period.		
Notional Quantity per Calculation Period:	As specified by the parties on a per-Calculation-Period		
Les commons a constant	Basis.		
Settlement Periods:	If specified by the parties or if applicable to the relevant		
	Commodity Reference Price and specified herein.		
	Parties may specify one of the Available Set Tenors as a		
	Settlement Period or may specify another period.		

Applicable Days:	If applicable to the relevant Commodity Reference Price and specified therein or if applicable to the relevant Available Set Tenor and specified therein (i.e., Month). Applicable Days does not apply to Commodity	
	Reference Prices under the headings "ISDA Definition"	
	or "Exchange Definition".	
Duration:	Hourly	
Start Time(s)/End Time(s):	If specified by the parties or if applicable to the relevant Commodity Reference Price and specified herein.	
Payment Dates:	In relation to each Calculation Period, as specified by the parties, each such day being subject to adjustment in accordance with the Payment Date Business Day Convention.	
Payment Date Business Days:	USNY	
Payment Date Business Day Convention:	As specified by the parties.	
Fixed Amount:		
Fixed Price Payer:	As specified by the parties.	
Fixed Price or Fixed Amount:	As specified by the parties per Unit of the Commodity.	
Floating Amount:		
Floating Price Payer:	As specified by the parties.	
Applicable Spread:	As specified by the parties.	
Commodity Reference Price:	As specified by the parties from among the Available Commodity Reference Prices.	
Market Disruption:		
Market Disruption Events:	Unless otherwise specified by the parties, per the Commodity Definitions.	
Additional Market Disruption Events:	As specified by the parties.	
Consequences of Market Disruption Events:	Unless otherwise specified by the parties, per the Commodity Definitions.	
Disruption Fallbacks:	Unless otherwise specified by the parties, per the Commodity Definitions.	
Fallback Reference Price:	None, unless specified by the parties.	
Maximum Days of Disruption:	Unless otherwise specified by the parties, per the Commodity Definitions.	
Calculation Agent:	As agreed by the parties.	

U.S. Electricity – Fixed/Floating Swap Contracts Available Currencies and Required Business Days

Three Letter Currency Code	Currency Name (ISDA)	Basic Business Day Locations
(ISDA/ISO)		For Currency (FpML Codes)
USD	United States Dollars	USNY

U.S. Electricity – Fixed/Floating Swap Contracts Available Business Day Conventions

	ISDA Name
Following	
Modified/Modified Following	
Nearest	
Preceding	

Set Tenor	Settlement Period	
Month	The specified calendar month; if OFF PEAK/PEAK is	
	not specified, PEAK is assumed	
Season	Season	Days in Specified Year
	Winter	1 January through the last
		day of February in the
		specified year
	Spring	1 March through 30 April
		in the specified year
	Summer	1 July through 31 August
		in the specified year
Quarter	Quarter Number	Days in Specified Year
	Q1	1 January through 31
		March
	Q2	1 April through 30 June
	Q3	1 July through 30
		September
	Q4	1 October through 31
		December
Calendar Year	1 January through 31 December in the specified year	
Planning Year	1 June in the specified beginning calendar year through	
	31 May in the specified ending calendar year	

U.S. Electricity - Fixed/Floating Swap Contracts Available Commodity Reference Prices

ISDA Definitions

The following Commodity Reference Prices are as defined in Sub-Annex A to the Commodity Definitions.

Note that these Commodity Reference Prices relate to all hours in the Pricing Date (i.e., are "Around the Clock"); for the equivalent Peak and Off-Peak prices, see below.

ISDA Definition
ELECTRICITY-NYISO-ZONE A (WEST)-DAY AHEAD
ELECTRICITY-NYISO-ZONE G (HUD VL)-DAY AHEAD
ELECTRICITY-NYISO-ZONE J (N.Y.C.)-DAY AHEAD
ELECTRICITY-ISO NEW ENGLAND-MASS HUB-DAY AHEAD
ELECTRICITY-ISO NEW ENGLAND-NE MASS BOSTON-DAY AHEAD
ELECTRICITY-PJM-EASTERN HUB-DAY AHEAD
ELECTRICITY-PJM-PSEG-DAY AHEAD
ELECTRICITY-PJM-WESTERN HUB-DAY AHEAD

Exchange Definitions

The following Commodity Reference Prices are as defined in Sub-Annex A to the Commodity Definitions. **Note** that these Commodity Reference Prices relate to all hours in the Pricing Date (i.e., are "Around the Clock"); for the equivalent Peak and Off-Peak prices, see below.

ISDA Definition							
Commodity Reference Price	Relevant Commodity	Relevant Unit	Exchange	Currency	Specified Price		
ELECTRICITY	Electricity	MwH	ICE	USD 0.01	"ELECTRICIT		

-NP15 DAY					Y-CAISO-
AHEAD PEAK-					NP15-DAY
ICE					AHEAD"
ELECTRICITY	Electricity	MwH	ICE	USD 0.01	"ELECTRICIT
-NP15 DAY	-				Y-CAISO-
AHEAD PEAK-					NP15-DAY
ICE					AHEAD"
ELECTRICITY	Electricity	MwH	ICE	USD 0.01	"ELECTRICIT
-SP15 DAY					Y-CAISO-
AHEAD OFF					SP15-DAY
PEAK-ICE					AHEAD"
ELECTRICITY	Electricity	MwH	ICE	USD 0.01	"ELECTRICIT
-SP15 DAY					Y-CAISO-
AHEAD PEAK-					SP15-DAY
ICE					AHEAD"
ELECTRICITY	Electricity	MwH	ICE	USD 0.01	ELECTRICITY
-PALO VERDE					-PALO VERDE
OFF PEAK-ICE					OFF-PEAK-ICE
ELECTRICITY	Electricity	MwH	ICE	USD 0.01	ELECTRICITY
-PALO VERDE					-PALO VERDE
PEAK-ICE					PEAK-ICE
ELECTRICITY	Electricity	MwH	ICE	USD 0.01	ELECTRICITY
-MID C OFF					-MID C OFF-
PEAK-ICE					PEAK-ICE
ELECTRICITY	Electricity	MwH	ICE	USD 0.01	ELECTRICITY
-MID C PEAK-					-MID C PEAK-
ICE					ICE

Non-ISDA, Non-Exchange Definitions

For any of the Commodity Reference Prices below, the price for the Settlement Period specified for that Pricing Date will be that hour's Specified Price per MWh of electricity for delivery on an Applicable Day specified for that Commodity Reference Price, published by the specified Source on the specified Page under the specified Heading (or any successor Source, Page or Heading), that reports prices effective on such Applicable Day.

Commodity	Settlement	Source	Page	Heading
Reference Price	Period			
ELECTRICITY-	N/A	PJM	http://www.pjm.com/markets-and-	AEP DAYTON
PJM-AEP			operations/energy/day-ahead/lmpda.aspx	HUB, TotalLMP
DAYTON HUB-				
ATC DAY				
AHEAD				
ELECTRICITY-	Eastern Off	PJM	http://www.pjm.com/markets-and-	AEP DAYTON
PJM-AEP	Peak		operations/energy/day-ahead/lmpda.aspx	HUB, TotalLMP
DAYTON HUB-				
OFF PEAK				
DAY AHEAD				
ELECTRICITY-	Eastern	PJM	http://www.pjm.com/markets-and-	AEP DAYTON
PJM-AEP	Peak		operations/energy/day-ahead/lmpda.aspx	HUB, TotalLMP
DAYTON HUB-				
OFF PEAK				
DAY AHEAD				
ELECTRICITY-	N/A	PJM	http://www.pjm.com/markets-and-	AEP DAYTON
PJM-AEP			operations/energy/real-time/lmp.aspx	HUB, TotalLMP
DAYTON HUB-				

ATC				
REALTIME				
ELECTRICITY- PJM-AEP DAYTON HUB- OFF PEAK	Eastern Off Peak	РЈМ	http://www.pjm.com/markets-and- operations/energy/real-time/lmp.aspx	AEP DAYTON HUB, TotalLMP
REAL TIME ELECTRICITY- PJM-AEP DAYTON HUB- OFF PEAK	Eastern Peak	PJM	http://www.pjm.com/markets-and- operations/energy/real-time/lmp.aspx	AEP DAYTON HUB, TotalLMP
REAL TIME ELECTRICITY- PJM-COMED HUB-ATC DAY AHEAD	N/A	РЈМ	http://www.pjm.com/markets-and- operations/energy/day-ahead/lmpda.aspx	COMED, TotalLMP
ELECTRICITY- PJM-COMED HUB-OFF PEAK DAY AHEAD	Eastern Off Peak	РЈМ	http://www.pjm.com/markets-and- operations/energy/day-ahead/lmpda.aspx	COMED, TotalLMP
ELECTRICITY- PJM-COMED HUB-OFF PEAK DAY AHEAD	Eastern Peak	РЈМ	http://www.pjm.com/markets-and- operations/energy/day-ahead/lmpda.aspx	COMED, TotalLMP
ELECTRICITY- MISO- INDIANA HUB- ATC DAY AHEAD	N/A	MISO	https://www.misoenergy.org/Library/Ma rketReports/Pages/MarketReports.aspx (Report Type: Day-Ahead, Report: Name: Day Ahead Pricing (pdf))	Indiana Hub, LMP Prices (\$ per MW)
ELECTRICITY- MISO- INDIANA HUB- OFF PEAK DAY AHEAD	Eastern Off Peak	MISO	https://www.misoenergy.org/Library/Ma rketReports/Pages/MarketReports.aspx (Report Type: Day-Ahead, Report: Name: Day Ahead Pricing (pdf))	Indiana Hub, LMP Prices (\$ per MW)
ELECTRICITY- MISO- INDIANA HUB- PEAK DAY AHEAD	Eastern Peak	MISO	https://www.misoenergy.org/Library/Ma rketReports/Pages/MarketReports.aspx (Report Type: Day-Ahead, Report: Name: Day Ahead Pricing (pdf))	Indiana Hub, LMP Prices (\$ per MW)
ELECTRICITY- MISO- INDIANA HUB- ATC REAL TIME	N/A	MISO	https://www.misoenergy.org/Library/MarketReports/Pages/MarketReports.aspx (Report Type: Real -Time, Report: Real-Time Pricing (pdf))	Indiana Hub, LMP Prices (\$ per MW)
ELECTRICITY- MISO- INDIANA HUB- OFF PEAK REAL TIME	Eastern Off Peak	MISO	https://www.misoenergy.org/Library/MarketReports/Pages/MarketReports.aspx (Report Type: Real -Time, Report: Real-Time Pricing (pdf))	Indiana Hub, LMP Prices (\$ per MW)
ELECTRICITY- MISO- INDIANA HUB- PEAK REAL	Eastern Peak	MISO	https://www.misoenergy.org/Library/MarketReports/Pages/MarketReports.aspx (Report Type: Real -Time, Report: Real-Time Pricing (pdf))	Indiana Hub, LMP Prices (\$ per MW)

TIME				
ELECTRICITY- MISO- MICHIGAN HUB-ATC DAY AHEAD	N/A	MISO	https://www.misoenergy.org/Library/MarketReports/Pages/MarketReports.aspx (Report Type: Day-Ahead, Report: Name: Day Ahead Pricing (pdf))	Michigan Hub, LMP Prices (\$ per MW)
ELECTRICITY- MISO- MICHIGAN HUB-OFF PEAK DAY AHEAD	Central Off Peak	MISO	https://www.misoenergy.org/Library/MarketReports/Pages/MarketReports.aspx (Report Type: Day-Ahead, Report: Name: Day Ahead Pricing (pdf))	Michigan Hub, LMP Prices (\$ per MW)
ELECTRICITY- MISO- MICHIGAN HUB-PEAK DAY AHEAD	Central Peak	MISO	https://www.misoenergy.org/Library/MarketReports/Pages/MarketReports.aspx (Report Type: Day-Ahead, Report: Name: Day Ahead Pricing (pdf))	Michigan Hub, LMP Prices (\$ per MW)
ELECTRICITY- MISO- NORTHERN ILLINOIS HUB- ATC DAY AHEAD	N/A	РЈМ	http://www.pjm.com/markets-and- operations/energy/day-ahead/lmpda.aspx	N ILLINOIS HUB, TotalLMP
ELECTRICITY- MISO- NORTHERN ILLINOIS HUB- OFF PEAK DAY AHEAD	Central Off Peak	PJM	http://www.pjm.com/markets-and- operations/energy/day-ahead/lmpda.aspx	N ILLINOIS HUB, TotalLMP
ELECTRICITY- MISO- NORTHERN ILLINOIS HUB- PEAK DAY AHEAD	Central Peak	PJM	http://www.pjm.com/markets-and- operations/energy/day-ahead/lmpda.aspx	N ILLINOIS HUB, TotalLMP
ELECTRICITY- MISO- NORTHERN ILLINOIS HUB- ATC REAL TIME	N/A	PJM	http://www.pjm.com/markets-and- operations/energy/real-time/lmp.aspx	N ILLINOIS HUB, TotalLMP
ELECTRICITY- MISO- NORTHERN ILLINOIS HUB- OFF PEAK REAL TIME	Central Off Peak	PJM	http://www.pjm.com/markets-and- operations/energy/real-time/lmp.aspx	N ILLINOIS HUB, TotalLMP
ELECTRICITY- MISO- NORTHERN ILLINOIS HUB- PEAK REAL TIME	Central Peak	РЈМ	http://www.pjm.com/markets-and- operations/energy/real-time/lmp.aspx	N ILLINOIS HUB, TotalLMP
ELECTRICITY- ISO NEW	N/A	ISO NE	http://www.iso- ne.com/markets/hst rpts/hstRpts.do?cate	.Z.CONNECTICUT , Locational

ENGLAND- CONNECTICU T ZONE-ATC			gory=Hourly Report Type: Hourly Data; Report Day- Ahead LMPs (March 2003 - Present)	Marginal Pricing \$/MWh
DAY AHEAD ELECTRICITY- ISO NEW ENGLAND- CONNECTICU T ZONE-OFF PEAK DAY	Eastern Off Peak	ISO NE	http://www.iso- ne.com/markets/hst_rpts/hstRpts.do?cate gory=Hourly Report Type: Hourly Data; Report Day- Ahead LMPs (March 2003 - Present)	.Z.CONNECTICUT , Locational Marginal Pricing \$/MWh
AHEAD ELECTRICITY- ISO NEW ENGLAND- CONNECTICU T ZONE-PEAK DAY AHEAD	Eastern Peak	ISO NE	http://www.iso- ne.com/markets/hst_rpts/hstRpts.do?cate gory=Hourly Report Type: Hourly Data; Report Day- Ahead LMPs (March 2003 - Present)	.Z.CONNECTICUT , Locational Marginal Pricing \$/MWh
ELECTRICITY- ISO NEW ENGLAND- MAINE ZONE- ATC DAY AHEAD	N/A	ISO NE	http://www.iso- ne.com/markets/hst_rpts/hstRpts.do?cate gory=Hourly Report Type: Hourly Data; Report Day- Ahead LMPs (March 2003 - Present)	.Z.MAINE, Locational Marginal Pricing \$/MWh
ELECTRICITY- ISO NEW ENGLAND- MAINE ZONE- OFF PEAK DAY AHEAD	Eastern Off Peak	ISO NE	http://www.iso- ne.com/markets/hst_rpts/hstRpts.do?cate gory=Hourly Report Type: Hourly Data; Report Day- Ahead LMPs (March 2003 - Present)	.Z.MAINE, Locational Marginal Pricing \$/MWh
ELECTRICITY- ISO NEW ENGLAND- MAINE ZONE- PEAK DAY AHEAD	Eastern Peak	ISO NE	http://www.iso- ne.com/markets/hst_rpts/hstRpts.do?cate gory=Hourly Report Type: Hourly Data; Report Day- Ahead LMPs (March 2003 - Present)	.Z.MAINE, Locational Marginal Pricing \$/MWh
ELECTRICITY- ISO NEW ENGLAND- MAINE ZONE- ATC DAY AHEAD	N/A	ISO NE	http://www.iso- ne.com/markets/hst_rpts/hstRpts.do?cate gory=Hourly Report Type: Hourly Data; Report Day- Ahead LMPs (March 2003 - Present)	.Z.MAINE, Locational Marginal Pricing \$/MWh
ELECTRICITY- ISO NEW ENGLAND- MAINE ZONE- OFF PEAK DAY AHEAD	Eastern Off Peak	ISO NE	http://www.iso- ne.com/markets/hst_rpts/hstRpts.do?cate gory=Hourly Report Type: Hourly Data; Report Day- Ahead LMPs (March 2003 - Present)	.Z.MAINE, Locational Marginal Pricing \$/MWh
ELECTRICITY- ISO NEW ENGLAND- MAINE ZONE- PEAK DAY AHEAD	Eastern Peak	ISO NE	http://www.iso- ne.com/markets/hst_rpts/hstRpts.do?cate gory=Hourly Report Type: Hourly Data; Report Day- Ahead LMPs (March 2003 - Present)	.Z.MAINE, Locational Marginal Pricing \$/MWh
ELECTRICITY- ISO NEW	See ISDA De	efinition		

ENGLAND-				
MASS HUB-				
ATC DAY				
AHEAD		1		T
ELECTRICITY-	Eastern Off	ISO NE	http://www.iso-	.H.INTERNAL_HU
ISO NEW	Peak		ne.com/markets/hst rpts/hstRpts.do?cate	B, Locational
ENGLAND-			gory=Hourly	Marginal Pricing
MASS HUB-			Report Type: Hourly Data; Report Day-	\$/MWh
OFF PEAK			Ahead LMPs (March 2003 - Present)	
DAY AHEAD				
ELECTRICITY-	Eastern	ISO NE	http://www.iso-	.H.INTERNAL_HU
ISO NEW	Peak		ne.com/markets/hst_rpts/hstRpts.do?cate	B, Locational
ENGLAND-			gory=Hourly	Marginal Pricing
MASS HUB-			Report Type: Hourly Data; Report Day-	\$/MWh
PEAK DAY			Ahead LMPs (March 2003 - Present)	
AHEAD			,	
ELECTRICITY-	N/A	ISO NE	http://www.iso-	.Z.SEMASS,
ISO NEW	14/21	ISONE	ne.com/markets/hst rpts/hstRpts.do?cate	Locational Marginal
ENGLAND-			gory=Hourly	Pricing \$/MWh
SEMASS			Report Type: Hourly Data; Report Day-	Tricing φ/141 vv ii
ZONE-DAY			Ahead LMPs (March 2003 - Present)	
AHEAD			Allead Livir's (iviaicii 2003 - Fieselit)	
ELECTRICITY-	Eastern Off	ISO NE	http://www.iso-	.Z.SEMASS,
ISO NEW	Peak	ISONE		Locational Marginal
ENGLAND-	Реак		ne.com/markets/hst_rpts/hstRpts.do?cate gory=Hourly	Pricing \$/MWh
				Pricing \$/MWII
SEMASS			Report Type: Hourly Data; Report Day-	
ZONE-OFF			Ahead LMPs (March 2003 - Present)	
PEAK DAY				
AHEAD		700 NE		7.073.4.00
ELECTRICITY-	Eastern	ISO NE	http://www.iso-	.Z.SEMASS,
ISO NEW	Peak		ne.com/markets/hst_rpts/hstRpts.do?cate	Locational Marginal
ENGLAND-			gory=Hourly	Pricing \$/MWh
SEMASS			Report Type: Hourly Data; Report Day-	
ZONE-PEAK			Ahead LMPs (March 2003 - Present)	
DAY AHEAD				
ELECTRICITY-	See ISDA De	efinition		
ISO NEW				
ENGLAND-				
NEMASSBOST				
ZONE-DAY				
AHEAD		T		
ELECTRICITY-	Eastern Off	ISO NE	http://www.iso-	.Z.NEMASSBOST,
ISO NEW	Peak		ne.com/markets/hst rpts/hstRpts.do?cate	Locational Marginal
ENGLAND-	1		gory=Hourly	Pricing \$/MWh
NEMASSBOST			Report Type: Hourly Data; Report Day-	
ZONE-OFF			Ahead LMPs (March 2003 - Present)	
PEAK DAY	1			
AHEAD				
ELECTRICITY-	Eastern	ISO NE	http://www.iso-	.Z.NEMASSBOST,
ISO NEW	Peak		ne.com/markets/hst rpts/hstRpts.do?cate	Locational Marginal
ENGLAND-			gory=Hourly	Pricing \$/MWh
NEMASSBOST			Report Type: Hourly Data; Report Day-	J 1
ZONE-PEAK			Ahead LMPs (March 2003 - Present)	
DAY AHEAD				
ELECTRICITY-	N/A	ISO NE	http://www.iso-	.Z.WCMASS,
	·	. <u> </u>		

ISO NEW ENGLAND- WCMASS ZONE-DAY AHEAD			ne.com/markets/hst_rpts/hstRpts.do?cate gory=Hourly Report Type: Hourly Data; Report Day- Ahead LMPs (March 2003 - Present)	Locational Marginal Pricing \$/MWh
ELECTRICITY- ISO NEW ENGLAND- WCMASS ZONE-OFF PEAK DAY AHEAD	Eastern Off Peak	ISO NE	http://www.iso- ne.com/markets/hst_rpts/hstRpts.do?cate gory=Hourly Report Type: Hourly Data; Report Day- Ahead LMPs (March 2003 - Present)	.Z.WCMASS, Locational Marginal Pricing \$/MWh
ELECTRICITY- ISO NEW ENGLAND- WCMASS ZONE-PEAK DAY AHEAD	Eastern Peak	ISO NE	http://www.iso- ne.com/markets/hst_rpts/hstRpts.do?cate gory=Hourly Report Type: Hourly Data; Report Day- Ahead LMPs (March 2003 - Present)	.Z.WCMASS, Locational Marginal Pricing \$/MWh
ELECTRICITY- PJM- ATLANTIC ZONE-ATC DAY AHEAD	N/A	PJM	http://www.pjm.com/markets-and- operations/energy/day-ahead/lmpda.aspx	AECO ZONE, TotalLMP
ELECTRICITY- PJM- ATLANTIC ZONE-OFF PEAK DAY AHEAD	Eastern Off Peak	PJM	http://www.pjm.com/markets-and- operations/energy/day-ahead/lmpda.aspx	AECO ZONE, TotalLMP
ELECTRICITY- PJM- ATLANTIC ZONE-PEAK DAY AHEAD	Eastern Peak	PJM	http://www.pjm.com/markets-and- operations/energy/day-ahead/lmpda.aspx	AECO ZONE, TotalLMP
ELECTRICITY- PJM- BALTIMORE GAS AND ELECTRIC ZONE-ATC DAY AHEAD	N/A	PJM	http://www.pjm.com/markets-and- operations/energy/day-ahead/lmpda.aspx	BGE ZONE, TotalLMP
ELECTRICITY- PJM- BALTIMORE GAS AND ELECTRIC ZONE-OFF PEAK DAY AHEAD	Eastern Off Peak	PJM	http://www.pjm.com/markets-and- operations/energy/day-ahead/lmpda.aspx	BGE ZONE, TotalLMP
ELECTRICITY- PJM- BALTIMORE GAS AND ELECTRIC ZONE-PEAK	Eastern Peak	РЈМ	http://www.pjm.com/markets-and- operations/energy/day-ahead/lmpda.aspx	BGE ZONE, TotalLMP

DAY AHEAD		1	1	1
	27/4	DD /		DDI ZONE
ELECTRICITY-	N/A	PJM	http://www.pjm.com/markets-and-	DPL ZONE,
PJM-DPL			operations/energy/day-ahead/lmpda.aspx	TotalLMP
ZONE-ATC				
DAY AHEAD				
ELECTRICITY-	Eastern Off	PJM	http://www.pjm.com/markets-and-	DPL ZONE,
PJM-DPL	Peak		operations/energy/day-ahead/lmpda.aspx	TotalLMP
ZONE-OFF				
PEAK DAY				
AHEAD				
ELECTRICITY-	Eastern	PJM	http://www.pjm.com/markets-and-	DPL ZONE,
PJM-DPL	Peak		operations/energy/day-ahead/lmpda.aspx	TotalLMP
ZONE-PEAK				
DAY AHEAD				
ELECTRICITY-	See ISDA De	efinition		
PJM-EASTERN				
HUB-ATC DAY				
AHEAD				
ELECTRICITY-	Eastern	PJM	http://www.pjm.com/markets-and-	EASTERN HUB,
PJM-EASTERN	Off-Peak		operations/energy/day-ahead/lmpda.aspx	TotalLMP
HUB-OFF	JII I CUIN		operations onergy day unoud imputitispy	- Juni Livii
PEAK DAY				
AHEAD				
ELECTRICITY-	Eastern	PJM	http://www.pjm.com/markets-and-	EASTERN HUB,
PJM-EASTERN	Peak	FJIVI	operations/energy/day-ahead/Impda.aspx	TotalLMP
HUB- PEAK	reak		operations/energy/day-anead/impda.aspx	TotalLivir
DAY AHEAD	NT/A	DIM	1.4//	ICDL ZONE
ELECTRICITY-	N/A	PJM	http://www.pjm.com/markets-and-	JCPL ZONE,
PJM-JCPL			operations/energy/day-ahead/lmpda.aspx	TotalLMP
ZONE-ATC				
DAY AHEAD		DD (YORK GOVE
ELECTRICITY-	Eastern Off	PJM	http://www.pjm.com/markets-and-	JCPL ZONE,
PJM-JCPL	Peak		operations/energy/day-ahead/lmpda.aspx	TotalLMP
ZONE-OFF				
PEAK DAY				
AHEAD				
ELECTRICITY-	Eastern	PJM	http://www.pjm.com/markets-and-	JCPL ZONE,
PJM-JCPL	Peak		operations/energy/day-ahead/lmpda.aspx	TotalLMP
ZONE-PEAK				
DAY AHEAD				
ELECTRICITY-	N/A	PJM	http://www.pjm.com/markets-and-	METED ZONE,
PJM-METED			operations/energy/day-ahead/lmpda.aspx	TotalLMP
ZONE-ATC				
DAY AHEAD				
ELECTRICITY-	Eastern	PJM	http://www.pjm.com/markets-and-	METED ZONE,
PJM-METED	Off-Peak		operations/energy/day-ahead/lmpda.aspx	TotalLMP
ZONE-OFF				
PEAK DAY				
AHEAD				
ELECTRICITY-	Eastern	PJM	http://www.pjm.com/markets-and-	METED ZONE,
PJM-METED	Peak		operations/energy/day-ahead/lmpda.aspx	TotalLMP
ZONE-PEAK				
DAY AHEAD				
ELECTRICITY-	N/A	PJM	http://www.pjm.com/markets-and-	PECO ZONE,
PJM-PECO	1		operations/energy/day-ahead/lmpda.aspx	TotalLMP
	t .	ı	The state of the s	,

ZONE-ATC				
DAY AHEAD	Г	DD /	1	DECO ZONE
ELECTRICITY-	Eastern	PJM	http://www.pjm.com/markets-and-	PECO ZONE,
PJM-PECO	Off-Peak		operations/energy/day-ahead/lmpda.aspx	TotalLMP
ZONE-OFF				
PEAK DAY				
AHEAD				
ELECTRICITY-	Eastern	PJM	http://www.pjm.com/markets-and-	PECO ZONE,
PJM-PECO	Peak		operations/energy/day-ahead/lmpda.aspx	TotalLMP
ZONE-PEAK				
DAY AHEAD				
ELECTRICITY-	N/A	PJM	http://www.pjm.com/markets-and-	PEPCO ZONE,
PJM-PEPCO			operations/energy/day-ahead/lmpda.aspx	TotalLMP
ZONE-ATC				
DAY AHEAD				
ELECTRICITY-	Eastern	PJM	http://www.pjm.com/markets-and-	PEPCO ZONE,
PJM-PEPCO	Off-Peak		operations/energy/day-ahead/lmpda.aspx	TotalLMP
ZONE-OFF			<u></u>	
PEAK DAY				
AHEAD				
ELECTRICITY-	Eastern	PJM	http://www.pjm.com/markets-and-	PEPCO ZONE,
PJM-PEPCO	Peak	1 3141	operations/energy/day-ahead/lmpda.aspx	TotalLMP
ZONE-PEAK	1 cak		operations/energy/day-anead/impda.aspx	TotalLivii
DAY AHEAD				
ELECTRICITY-	N/A	PJM	http://www.pjm.com/markets-and-	PPL ZONE,
PJM-PPL	IN/A	PJIVI		TotalLMP
ZONE-ATC			operations/energy/day-ahead/lmpda.aspx	TotalLMP
DAY AHEAD	Г	DDA		DDI ZONE
ELECTRICITY-	Eastern	PJM	http://www.pjm.com/markets-and-	PPL ZONE,
PJM-PPL	Off-Peak		operations/energy/day-ahead/lmpda.aspx	TotalLMP
ZONE-OFF				
PEAK DAY				
AHEAD		201		PDV GOVE
ELECTRICITY-	Eastern	PJM	http://www.pjm.com/markets-and-	PPL ZONE,
PJM-PPL	Peak		operations/energy/day-ahead/lmpda.aspx	TotalLMP
ZONE-PEAK				
DAY AHEAD				
ELECTRICITY-	N/A	PJM	http://www.pjm.com/markets-and-	PPL ZONE,
PJM-PPL			operations/energy/day-ahead/lmpda.aspx	TotalLMP
ZONE-ATC				
DAY AHEAD				
ELECTRICITY-	Eastern	PJM	http://www.pjm.com/markets-and-	PPL ZONE,
PJM-PPL	Off-Peak		operations/energy/day-ahead/lmpda.aspx	TotalLMP
ZONE-OFF				
PEAK DAY				
AHEAD				
ELECTRICITY-	Eastern	PJM	http://www.pjm.com/markets-and-	PPL ZONE,
PJM-PPL	Peak		operations/energy/day-ahead/lmpda.aspx	TotalLMP
ZONE-PEAK				
DAY AHEAD				
ELECTRICITY-	See ISDA D	efinition	•	l .
PJM-PSEG				
ZONE-ATC				
DAY AHEAD				
ELECTRICITY-	Eastern	PJM	http://www.pjm.com/markets-and-	PSEG ZONE,
LLLCINICII I-	Lastelli	1 J141	intp.// w w w.pjm.com/markets-anu-	I DEG ZONE,

PJM-PSEG ZONE-OFF	Off-Peak		operations/energy/day-ahead/lmpda.aspx	TotalLMP
PEAK DAY AHEAD				
ELECTRICITY- PJM-PSEG ZONE-PEAK DAY AHEAD	Eastern Peak	РЈМ	http://www.pjm.com/markets-and- operations/energy/day-ahead/lmpda.aspx	PSEG ZONE, TotalLMP
ELECTRICITY- PJM-WEST- ATC DAY AHEAD	See ISDA Do	efinition		
ELECTRICITY- PJM-WEST- OFF PEAK DAY AHEAD	Eastern Off-Peak	PJM	http://www.pjm.com/markets-and- operations/energy/day-ahead/lmpda.aspx	WESTERN HUB, TotalLMP
ELECTRICITY- PJM-WEST- PEAK DAY AHEAD	Eastern Peak	PJM	http://www.pjm.com/markets-and- operations/energy/day-ahead/lmpda.aspx	WESTERN HUB, TotalLMP
ELECTRICITY- PJM-WEST HUB-ATC REALTIME	N/A	PJM	http://www.pjm.com/markets-and- operations/energy/real-time/lmp.aspx	WESTERN HUB HUB, TotalLMP
ELECTRICITY- PJM-WEST HUB-OFF PEAK REAL TIME	Eastern Off Peak	PJM	http://www.pjm.com/markets-and- operations/energy/real-time/lmp.aspx	WESTERN HUB HUB, TotalLMP
ELECTRICITY- PJM-WEST HUB-OFF PEAK REAL TIME	Eastern Peak	РЈМ	http://www.pjm.com/markets-and- operations/energy/real-time/lmp.aspx	WESTERN HUB HUB, TotalLMP
ELECTRICITY- NYISO-NY ZONE A-ATC DAY AHEAD	See ISDA Do	efinition		
ELECTRICITY- NYISO-NY ZONE A-OFF PEAK DAY AHEAD	Eastern Off Peak	NYISO	http://www.nyiso.com/public/markets operations/market_data/pricing_data/index.jsp (Report Type: Day-Ahead Market LBMP/Zonal)	WEST, LBMP (\$/MWHr)
ELECTRICITY- NYISO-NY ZONE A- PEAK DAY AHEAD	Eastern Peak	NYISO	http://www.nyiso.com/public/markets_o perations/market_data/pricing_data/inde x.jsp (Report Type: Day-Ahead Market LBMP/Zonal)	WEST, LBMP (\$/MWHr)
ELECTRICITY- NYISO-NY ZONE A-ATC DAY AHEAD	ATC	NYISO	http://www.nyiso.com/public/markets o perations/market data/pricing data/inde x.jsp (Report Type: Day-Ahead Market LBMP/Zonal)	WEST, LBMP (\$/MWHr)
ELECTRICITY- NYISO-NY	Eastern Off Peak	NYISO	http://www.nyiso.com/public/markets o perations/market_data/pricing_data/inde	WEST, LBMP (\$/MWHr)

	ı			1
ZONE A-OFF PEAK DAY			x.jsp (Report Type: Day-Ahead Market LBMP/Zonal)	
AHEAD ELECTRICITY- NYISO-NY ZONE A- PEAK DAY AHEAD	Eastern Peak	NYISO	http://www.nyiso.com/public/markets o perations/market_data/pricing_data/inde x.jsp (Report Type: Day-Ahead Market	CENTRL, LBMP (\$/MWHr)
ELECTRICITY- NYISO-NY ZONE C-ATC DAY AHEAD	ATC	NYISO	LBMP/Zonal) http://www.nyiso.com/public/markets_o perations/market_data/pricing_data/inde x.jsp (Report Type: Day-Ahead Market LBMP/Zonal)	CENTRL, LBMP (\$/MWHr)
ELECTRICITY- NYISO-NY ZONE C-OFF PEAK DAY AHEAD	Eastern Off Peak	NYISO	http://www.nyiso.com/public/markets o perations/market data/pricing data/inde x.jsp (Report Type: Day-Ahead Market LBMP/Zonal)	CENTRL, LBMP (\$/MWHr)
ELECTRICITY- NYISO-NY ZONE C- PEAK DAY AHEAD	Eastern Peak	NYISO	http://www.nyiso.com/public/markets o perations/market_data/pricing_data/inde x.jsp (Report Type: Day-Ahead Market LBMP/Zonal)	CENTRL, LBMP (\$/MWHr)
ELECTRICITY- NYISO-NY ZONE G-ATC DAY AHEAD	See ISDA De	efinition		
ELECTRICITY- NYISO-NY ZONE G-OFF PEAK DAY AHEAD	Eastern Off Peak	NYISO	http://www.nyiso.com/public/markets_operations/market_data/pricing_data/index.jsp (Report Type: Day-Ahead Market LBMP/Zonal)	HUD VL, LBMP (\$/MWHr)
ELECTRICITY- NYISO-NY ZONE G- PEAK DAY AHEAD	Eastern Peak	NYISO	http://www.nyiso.com/public/markets_o perations/market data/pricing data/inde x.jsp (Report Type: Day-Ahead Market LBMP/Zonal)	HUD VL, LBMP (\$/MWHr)
ELECTRICITY- NYISO-NY ZONE H-ATC DAY AHEAD	See ISDA Definition			
ELECTRICITY- NYISO-NY ZONE H-OFF PEAK DAY AHEAD	Eastern Off Peak	NYISO	http://www.nyiso.com/public/markets o perations/market_data/pricing_data/inde x.jsp (Report Type: Day-Ahead Market LBMP/Zonal)	N.Y.C., LBMP (\$/MWHr)
ELECTRICITY- NYISO-NY ZONE H- PEAK DAY AHEAD	Eastern Peak	NYISO	http://www.nyiso.com/public/markets o perations/market data/pricing data/inde x.jsp (Report Type: Day-Ahead Market LBMP/Zonal)	N.Y.C., LBMP (\$/MWHr)
ELECTRICITY- CAISO-NP 15 ATC	the ELECTR Commodity	ICITY-NP15- Reference Pric	nodity Definitions, will be calculated as the very PEAK-ICE and ELECTRICITY-NP15- OF es for the relevant period, weighted on the beaut period which are peak and off-peak respe	F-PEAK-ICE asis of the number of

	off peak having the meaning specified in the definition of the Commodity Reference Price by the Exchange).	
ELECTRICITY-	Notwithstanding the Commodity Definitions, will be calculated as the weighted average of	
CAISO-SP 15	the ELECTRICITY-SP15- PEAK-ICE and ELECTRICITY-SP15- OFF-PEAK-ICE	
ATC	Commodity Reference Prices for the relevant period, weighted on the basis of the number of	
	hourly periods in the relevant period which are peak and off-peak respectively (with peak and	
	off peak having the meaning specified in the definition of the Commodity Reference Price by	
	the Exchange).	
ELECTRICITY-	Notwithstanding the Commodity Definitions, will be calculated as the weighted average of	
PALO VERDE	the ELECTRICITY-PALO VERDE PEAK-ICE and ELECTRICITY-PALO VERDE OFF-	
ATC-ICE	PEAK-ICE Commodity Reference Prices for the relevant period, weighted on the basis of the	
	number of hourly periods in the relevant period which are peak and off-peak respectively	
	(with peak and off peak having the meaning specified in the definition of the Commodity	
	Reference Price by the Exchange)	
ELECTRICITY-	Notwithstanding the Commodity Definitions, will be calculated as the weighted average of	
MID C ATC-	the ELECTRICITY-MID C PEAK-ICE and ELECTRICITY-MID C OFF-PEAK-ICE	
ICE	Commodity Reference Prices for the relevant period, weighted on the basis of the number of	
	hourly periods in the relevant period which are peak and off-peak respectively (with peak and	
	off peak having the meaning specified in the definition of the Commodity Reference Price by	
	the Exchange)	

U.S. Electricity – Fixed/Floating Swap Contracts Specified Time Periods

	Non-FERC Holidays (all times are	FERC Holidays
	Hours Ending and use 24-hour	
	clock)	
California Off Peak	Excludes 0700 through 2200 Pacific	Includes all hours on FERC
Camonna On Feak	Prevailing Time	Holidays
California Peak	Includes 0700 through 2200 Pacific	Excludes all hours on FERC
Camornia Peak	Prevailing Time	Holidays
Eastern Off Peak ¹	Excludes 0800 through 2300 Eastern	Includes all hours on FERC
	Prevailing Time	Holidays
Eastern Peak	Includes 0800 through 2300 Eastern	Excludes all hours on FERC
	Prevailing Time	Holidays

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 $^{^{1}}$ Times for Commodity Reference Prices reported for Central Timezone (e.g., Illinois, Michigan) will be converted to their Eastern time equivalents

USD Equity Basket Swap (Broad Based)

Summary:	This covers equity total-return swaps on broad-based
	baskets of equities traded in USD.
	For purposes of relevant CFTC and SEC regulations, such
	basket shall be on a broad-based index.
Limitations on Available Selections and Default	The terms under which USD Equity Basket Swap (Broad
Settings:	Based) may be traded are shown below or in the attached
	tables.
	For amounts or rates, the relevant term cannot be less
	than the specified Minimum, must represent an even
	Increment and cannot exceed the Maximum; for a date,
	the date cannot be earlier than Earliest nor later than Latest.
	For Business Days, the defaults shall be the locations
	specified for the relevant currency, any additional
	locations specified for the relevant Floating Rate Options.
	In many cases there are normal "vanilla" terms on which
	the parties will transact.
	These are shown as "Default" and will apply unless the
	parties vary them.
	In some cases, the same contract might have different
	terms depending on the market in which it is traded $(e.g.,$
	London versus NY).
Incorporated Standards:	In that case the default settings may vary by market. This contract description incorporates by reference the
incorporated Standards:	following industry standard documentation and standards:
	(a) 2006 ISDA Definitions;
	(b) 2002 ISDA Equity Derivatives Definitions; and
	(c) Annex SS to 2004 Americas Interdealer Master Equity
	Derivatives Confirmation (except that references therein
	to the 2000 ISDA Definitions shall be deemed references
	to the 2006 ISDA Definitions).
	For convenience, certain terms are mapped to their FpML
Duodust Tymo/ISDA OTC Toyonomy	5.5 equivalent.
Product Type/ISDA OTC Taxonomy: ISDA OTC Asset Class:	Equity
ISDA OTC Base Product:	Swap
ISDA OTC Sub-Product:	Price Return Basic Performance
ISDA OTC Transaction type:	Basket
Further Limitations:	None
Terms:	
Type of Transaction:	Share Basket Swap Transaction
Trade Date:	As agreed by the parties.
Notional Amount ("notional"):	An amount in USD agreed by the parties.
Effective Date ("effectiveDate"):	Per Annex SS, unless otherwise agreed by the parties.
Effective Date Business Days:	As specified by the parties from among the Available Business Days.
Effective Date Business Day Convention:	As specified by the parties from among the Available
Effective Date Dusiness Day Convention.	Business Day Conventions.
Termination Date ("terminationDate"):	Per Annex SS, unless otherwise specified by the parties.
Basket:	As specified by the parties in compliance with the rules
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	and regulations of the CFTC and SEC applicable to
	broad-based indices.
Exchange(s):	As specified by the parties with respect to each Share
	comprised in the Basket.
Related Exchanges:	Per Annex SS, unless otherwise agreed by the parties.
Hedging Party:	As specified by the parties.
Determining Party:	As specified by the parties.
Equity Amounts:	
Equity Amount Payer ("payerPartyReference"):	As specified by the parties.
Equity Notional Amount:	As specified by the parties.
Equity Notional Reset:	Per Annex SS.
Type of Return:	Total Return
Initial Price:	As specified by the parties and adjusted in accordance
	with Annex SS.
Final Price:	As per Annex SS unless otherwise agreed by the parties.
Valuation Time:	As per Annex SS unless otherwise agreed by the parties.
Valuation Date:	As specified by the parties.
Floating Amount:	
Floating Rate Payer ("payerPartyReference"):	As specified by the parties.
Notional Amount ("notional Amount"):	As per Annex SS.
Payment Dates:	As per Annex SS, unless otherwise agreed by the parties.
Floating Rate Option ("floatingRateIndex"):	As per Annex SS, unless otherwise agreed by the parties.
Designated Maturity ('indexTenor")	As specified by the parties.
Spread:	As specified by the parties.
Day Count Fraction:	Actual/360
Reset Date ("resetDate"):	As specified by the parties.
Payment Dates Business Days:	As specified by the parties. As specified by the parties.
Business Days (Other Than Payment Dates):	As specified by the parties. As specified by the parties.
Business Day Convention (Other Than Payment	As per Annex SS, unless otherwise specified by the
Dates): Settlement Terms:	parties.
	Amaliachla
Cash Settlement:	Applicable
Settlement Currency:	USD
Dividends:	A A CC 1 4 ' 11 4 '
Dividend Payment Date(s):	As per Annex SS unless otherwise agreed by the parties.
Dividend Period:	As per Annex SS unless otherwise agreed by the parties.
Dividend Amount:	As per Annex SS unless otherwise agreed by the parties.
Relevant Dividend:	If type of return is "Total Return" as per Annex SS unless otherwise agreed by the parties.
Reinvestment of Dividends:	Inapplicable
Dividend Recovery:	As per Annex SS unless otherwise agreed by the parties.
Adjustment Events:	
Method of Adjustment:	As per Annex SS unless otherwise agreed by the parties.
Options Exchange:	As agreed by the parties if "Options Exchange
1	Adjustment" is applicable.
Consequences of Merger Events:	
Share-for-Share:	As per Annex SS unless otherwise agreed by the parties.
Share-for-Other:	As per Annex SS unless otherwise agreed by the parties.
Share-for-Combined:	As per Annex SS unless otherwise agreed by the parties.
Options Exchange:	As agreed by the parties if "Options Exchange
	Adjustment" is applicable.
Consequences of Tender Offers:	
Tender Offer:	As per Annex SS, unless otherwise agreed by the parties.
Share-for-Share	As agreed by the parties if Tender Offer is applicable.

Share-for-Other:	As agreed by the parties if Tender Offer is applicable.
Share-for-Combined:	As agreed by the parties if Tender Offer is applicable.
Options Exchange:	As agreed by the parties if "Options Exchange
	Adjustment" is applicable.
Composition of Combined Consideration:	Per Annex SS unless otherwise agreed by the parties.
Nationalization, Insolvency or Delisting:	Per Annex SS unless otherwise agreed by the parties.
Additional Disruption Events:	
Change in Law:	As per Annex SS, unless otherwise agreed by the parties.
Insolvency Filing:	As per Annex SS, unless otherwise agreed by the parties.
Hedging Disruption:	As per Annex SS.
Increased Cost of Hedging:	As per Annex SS unless otherwise agreed by the parties.
Loss of Stock Borrow:	Inapplicable
Increased Cost of Stock Borrow:	Inapplicable
Non-Reliance:	As per Annex SS unless otherwise agreed by the parties.
Agreements and Acknowledgements Regarding	As per Annex SS.
Hedging Activities:	
Additional Acknowledgements:	As per Annex SS unless otherwise agreed by the parties.
Index Disclaimer:	As per Annex SS unless otherwise agreed by the parties.
Mutual Early Termination Right:	As agreed by the parties.
Interest Breakage Cost:	If Mutual Early Termination Right is applicable, as
	specified by the parties.
Calculation Agent:	As agreed by the parties.

Equity Index Available Business Day Conventions

ISDA Name
Following
Modified/Modified Following
No Adjustment
Preceding
FRN Convention/Eurodollar Convention

Equity Index Earliest and Latest Effective and Termination Dates

Currency	Earliest Effective	Latest Effective Date	Earliest Termination	Latest Termination
	Date		Date	Date
N/A	N/A	N/A	N/A	One Year from
				Effective Date

Equity Index Notional Amounts

Currency	Minimum	Increment	Maximum	Default
USD	10,000,000	1,000,000	N/A	N/A

Equity Index Requirements and Defaults

Date	Requirement	Default
Designated Maturities for Linear		Tenors quoted next shorter and
Interpolation		longer than the actual Calculation
		Period length

EXHIBIT III

tpSEF Rulebook – Appendix B (Marked)

tpSEF Inc. Swap Specifications

Effective December <u>515</u>, 2020

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AECO XW6 Options

Summary:	This covers AECO XW6 Options ("AECO XW6 Options").
Limitations on Available Selections and Default Settings:	The terms under which AECO XW6 Options covered by this filing may be traded are shown below and in the attached tables.
Incorporated Standards:	This contract description incorporates by reference the following industry standard documentation and standards: 2005 ISDA Commodity Derivatives Definitions ("Commodity Definitions")
Product Type/ISDA OTC Taxonomy:	
ISDA OTC Asset Class:	Commodity
ISDA OTC Base Product:	Energy
ISDA OTC Transaction Type:	Swap
ISDA OTC Settlement Type	Cash
Terms:	
Trade Date:	As agreed by the parties.
Commodity:	Natural gas
Total Notional Quantity:	As agreed by the parties.
Notional Quantity (Daily)	As agreed by the parties.
Calculation Period(s):	As agreed by the parties.
Option Style:	European, American, as agreed by the parties.
Option Type:	
Buyer:	As specified by the parties.
Seller:	As specified by the parties.
Commodity Reference Price:	Natural Gas - NGX AB-NIT Month Ahead Index 7A (Canadian Dollar/Gigajoule)-Canadian Gas Price Reporter
Business Days:	As specified by the parties.
Business Day Convention:	Following business day
Pricing Date(s):	As specified by the parties.
Strike Price:	As specified by the parties.
Expiration Date:	As specified by the parties.
Expiration Time:	As specified by the parties.
Latest Exercise Time:	As specified by the parties.
Automatic Exercise:	Applicable
Cash Settlement:	Applicable
Settlement Date:	As specified by the parties.
Calculation Agent:	As specified by the parties.
Settlement Amount:	As specified by the parties.
Settlement Date:	As specified by the parties.
Valuation Date:	As specified by the parties.
Averaging Dates:	As specified by the parties.
Premium:	As specified by the parties.
Premium Payment Date:	As specified by the parties.
Market Disruption Events:	Unless otherwise specified by the parties, per the
- · · · · · · · · · · · · · · · · · · ·	Commodity Definitions.
Consequences of Market Disruption Events:	Unless otherwise specified by the parties, per the Commodity Definitions.

Disruption Fallbacks:	Unless otherwise specified by the parties, per the
	Commodity Definitions.
Maximum Days of Disruption:	Unless otherwise specified by the parties, per the
	Commodity Definitions.

Agricultural Options

Summary:	This covers uncleared agricultural options ("Agricultural
	Options").
Limitations on Available Selections and Default	The terms under which Agricultural Options may be
Settings:	traded are shown below and in the attached tables.
Incorporated Standards:	This contract description incorporates by reference the
	following industry standard documentation and
	standards:
	2005 ISDA Commodity Derivatives Definitions
	("Commodity Definitions")
Product Type/ISDA OTC Taxonomy:	
ISDA OTC Asset Class:	Commodity
ISDA OTC Base Product:	Agricultural
ISDA OTC Settlement type:	Cash
Further Limitations:	None
Terms:	
Trade Date:	As agreed by the parties.
Commodity:	As specified by the parties from among the Available Commodities.
Notional Quantity:	The sum of the Notional Quantities per Calculation Period.
Notional Quantity per Calculation Period:	For an Asian Option, as specified by the parties on a per- Calculation-Period Basis.
Calculation Period(s):	For an Asian Option, as specified by the parties.
Calculation Period Business Days:	None, unless specified by the parties.
Calculation Period Business Day Convention:	For an Asian Option, as specified by the parties from
·	among the Available Business Day Conventions.
Option Style:	As specified by the parties from among the Available
	Option Styles.
Option Type:	As specified by the parties from among the Available
	Option Types.
Buyer:	As specified by the parties.
Seller:	As specified by the parties.
Commodity Reference Price:	As specified by the parties from among the Available
	Commodity Reference Prices.
Business Day:	As specified by the parties.
Pricing Date(s):	As specified by the parties.
Method of Averaging:	For Asian Options, as specified by the parties or
	otherwise per the Commodity Definitions.
Strike Price per Unit:	As specified by the parties.
Total Premium:	As specified by the parties.
Premium Payment Date(s):	As specified by the parties, subject to adjustment in accordance with the Business Day Convention.
Premium Payment Date Business Days:	Per the Available Currencies, plus such additional Business Days as the parties specify.
Premium Payment Date Business Day Convention:	As specified by the parties from among the Available Business Day Conventions or otherwise per the Commodity Definitions.

Procedure for Exercise:	
Exercise Period:	For an American Option, the period of days and the
	times on such days specified by the parties.
	For any other Option Style, the times on the Expiration
	Date or Potential Exercise Date specified by the parties.
Potential Exercise Dates:	For a Bermuda Option, the days specified by the parties.
Expiration Date:	As specified by the parties.
Expiration Time:	As specified by the parties.
Automatic Exercise:	Applicable, unless otherwise specified by the parties.
Written Confirmation:	As specified by the parties.
Seller's Notice Information:	As specified by the Seller.
Market Disruption:	
Market Disruption Events:	Unless otherwise specified by the parties, per the
	Commodity Definitions.
Additional Market Disruption Events:	As specified by the parties.
Consequences of Market Disruption Events:	Unless otherwise specified by the parties, per the
	Commodity Definitions.
Disruption Fallbacks:	Unless otherwise specified by the parties, per the
	Commodity Definitions.
Fallback Reference Price:	None, unless specified by the parties.
Maximum Days of Disruption:	Unless otherwise specified by the parties, per the
	Commodity Definitions.
Cash Settlement Terms:	
Cash Settlement:	Applicable
Settlement Dates:	As specified by the parties, subject to adjustment in
	accordance with the Business Day Convention.
Calculation Agent:	As agreed by the parties.

Agricultural Option Available Currencies and Required Business Days

Three Letter Currency Code (ISDA/ISO)	Currency Name (ISDA)	Basic Business Day Locations For Currency (FpML Codes)
USD	United States Dollars	USNY
EUR	Euro	EUTA
GBP	Sterling	GBLO

Agricultural Options Available Business Day Conventions

	ISDA Name	
Following		
Modified/Modified Following		
Nearest		
Preceding		

Agricultural Option Available Option Style

	ISDA Name	
American		
European		
Bermuda		
Asian		

Agricultural Options Available Commodity Reference Prices

ISDA Definitions

The following Commodity Reference Prices are as defined in Sub-Annex A to the Commodity Definitions.

ISDA Definition
COCOA-GBP-EURONEXT
COCOA-NYBOT ¹
COFFEE ARABICA-NYBOT ¹
COFFEE ROBUSTA-EURONEXT
CORN-CBOT
COTTON NO. 2-NYBOT ¹
FROZEN CONCENTRATED ORANGE JUICE NO. 1-NYBOT ¹
LEAN HOGS-CME
MILK-CLASS III-CME
MILK-CLASS IV-CME
SOYBEAN-CBOT
SOYBEAN MEAL-CBOT
SOYBEAN OIL-CBOT
SUGAR #11 (WORLD)-NYBOT ¹
WHEAT-CBOT
WHEAT HRM-KCBOT
WHITE SUGAR-EURONEXT

Exchange Definitions

The following Commodity Reference Prices are as defined in the Commodity Price Reference Framework in Sub-Annex A to the Commodity Definitions.

ISDA Definition					
Commodity Reference	Relevant Commodity	Relevant Unit	Exchange	Currency	Specified Price
Price	_				
BUTTER-CME	Butter	Pound	CME Globex	USD 0.01	Settlement Price
CHEESE-CME	Cheese	Pound	CME Globex	USD 0.01	Settlement Price
CRUDE PALM	Crude Palm Oil	Metric Ton	CME Globex	USD 0.01	Settlement Price
OIL-CME					
DRY WHEY-	Dry Whey	Pound	CME Globex	USD 0.01	Settlement Price
CME					
HARD RED	Wheat	Bushel	Minneapolis	USD 0.01	Settlement Price
SPRING			Grain Exchange		
WHEAT-					
MGEX					
MILLING	Wheat	Tonne	EURONEXT	EUR 0.01	Settlement Price
WHEAT-			LIFFE		
EURONEXT					
NONFAT DRY	Non-Fat Dry	Pound	CME Globex	USD 0.01	Settlement Price
MILK-CME	Milk				
RAPESEED-	Rapeseed	Tonne	EURONEXT	EUR 0.01	Settlement Price
EURONEXT			LIFFE		

 $^{^{1}\}mbox{The New York Board of Trade (NYBOT)}$ was renamed ICE Futures US in 2007.

Basis Swaps

Summary:	This covers basis swaps ("Basis Swaps").		
Limitations on Available Selections and Default	The terms under which a Basis Swap may be traded are		
Settings:	as specified in these terms and conditions and in the		
	attached tables.		
	For amounts or rates, the relevant term cannot be less than the specified Minimum, must represent an even		
	Increment and cannot exceed the Maximum; for a date,		
	the date cannot be earlier than Earliest nor later than		
	Latest.		
	For Business Days, the defaults shall be the locations		
	specified for the relevant currency, any additional		
	locations specified for the relevant Floating Rate Options.		
	Options.		
	The parties may add additional locations from the		
	Available Locations and may eliminate some or all of		
	the other locations, so long as there is at least one		
	location in which payment may be made. For these		
	purposes "TARGET" is considered a location.		
	In many cases there are normal "vanilla" terms on which		
	the parties will transact. These are shown as "Default"		
	and will apply unless the parties vary them.		
	It should be noted that these contracts can be traded in a		
	variety of currencies. Since each national market has its own peculiarities, the "Available Terms" and/or "Default		
	Terms' may vary by currency.		
	a community constraints.		
	In some cases, the same contract might have different		
	terms depending on the market in which it is traded $(e.g.,$		
	London versus NY). In that case the default settings may		
Incorporated Standards:	vary by market. This contract description incorporates by reference the		
incorporated Standards.	following industry standard documentation and		
	standards:		
	(a) 2006 ISDA Definitions		
	(b) ISDA Settlement Matrix (if Optional Early		
	Termination applies)		
	(c) ISDA OTC Taxonomies(d) FpML Location Codes		
	(a) I pivil Location Codes		
	For convenience, certain terms are mapped to their		
	FpML 5.5 equivalent.		
Product Type/ISDA OTC Taxonomy:			
ISDA OTC Asset Class:	Interest Rate		
ISDA OTC Sub Product:	IR Swap		
ISDA OTC Sub-Product: Further Limitations:	Basis		
rurinet Littitations.	None		

Terms:	
Notional Amount ("notional"):	An amount in one of the Available Currencies (see
,	below) agreed by the parties.
Effective Date ("effectiveDate"):	The date specified by the parties, adjusted in accordance
	with any applicable Business Day Convention.
	The parties may express the unadjusted Effective Date as
	a number of Business Days or Banking Days from the
	Trade Date ("relativeEffectiveDate").
Effective Date Business Days:	As specified by the parties from among the Available
	Business Days.
Effective Date Business Day Convention:	As specified by the parties from among the Available
	Business Day Conventions.
Termination Date ("terminationDate"):	The date specified by the parties, adjusted in accordance
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	with any applicable Business Day Convention.
	The parties may express the unadjusted Termination
	Date as a number of days, months or years from the
	Effective Date ("relativeTerminationDate").
Termination Date Business Day Convention:	As specified by the parties from among the Available
Termination Base Business Buy Convention.	Business Day Conventions.
Floating Amount 1 ("FA1"):	Zusiness Zuj Contentions.
FA1 Payer ("payerPartyReference"):	As specified by the parties.
FA1 Currency Amount ("notional Amount"):	As specified by the parties.
FA1 Period End Dates ("unadjustedCalculation Period	As specified by the parties.
Date"):	This specified by the parties.
FA1 first Period End Date:	As specified by the parties if there is a short initial
Titi institution bita bute.	Calculation Period.
FA1 Payment Dates ("unadjustedPaymentDate"):	As specified by the parties.
FA1 initial Floating Rate:	As specified by the parties.
FA1 Floating Rate Option ("floatingRateIndex"):	As specified by the parties.
FA1 Designated Maturity ('indexTenor''):	As specified by the parties.
FA1 Linear Interpolation:	For the Calculation Periods specified by the parties.
FA1 Shorter Designated Maturity for Linear	For a Calculation Period to which Linear Interpolation
Interpolation:	applies, as specified by the parties.
FA1 Longer Designated Maturity for Linear	For a Calculation Period to which Linear Interpolation
Interpolation:	applies, as specified by the parties.
FA1 Spread:	As specified by the parties.
FA1 Day Count Fraction:	As specified by the parties.
FA1 Reset Dates ("resetDate"):	As specified by the parties.
FA1 Method of Averaging:	As specified by the parties.
FA1 Compounding:	As specified by the parties. As specified by the parties.
FA1 Compounding Dates:	In the event Compounding is selected, as selected by the
TAT Compounding Dates.	parties.
FA1 Compounding Method (Compounding OR Flat	In the event Compounding is selected, as selected by the
Compounding):	parties.
FA1 Period End Dates Business Days:	As specified by the parties from among the Available
1 AT 1 CHOOLEHO Dates Dusilless Days.	Business Days.
FA1 Period End Dates Business Day Convention:	As specified by the parties from among the Available
1 AT 1 CHOOLEHO Dates Dustiless Day Convention.	Business Day Conventions.
FA1 Payment Dates Business Days:	As specified by the parties from among the Available
TALL ayment Dates Dusiness Days.	Business Days, subject to any Required Business Days
FA1 Payment Dates Business Day Convention:	As specified by the parties from among the Available
TALL ayment Dates Dusiness Day Convention.	Business Day Conventions.
EA1 Daget Dates Business Dayer	As specified by the parties from among the Available
FA1 Reset Dates Business Days:	Business Days, subject to any Required Business Days.
	Dushiess Days, subject to any Required Bushiess Days.

FA1 Reset Dates Business Day Convention:	As specified by the parties from among the Available
	Business Day Conventions.
Floating Amount 2 ("FA2"):	
FA2 Payer ("payerPartyReference"):	As specified by the parties.
FA2 Currency Amount ("notional Amount"):	As specified by the parties.
FA2 Period End Dates ("unadjustedCalculation Period	As specified by the parties.
Date"):	
FA2 first Period End Date:	As specified by the parties if there is a short initial
	Calculation Period.
FA2 Payment Dates ("unadjustedPaymentDate"):	As specified by the parties.
FA2 initial Floating Rate:	As specified by the parties.
FA2 Floating Rate Option ("floatingRateIndex"):	As specified by the parties.
FA2 Designated Maturity ("indexTenor"):	As specified by the parties.
FA2 Linear Interpolation:	For the Calculation Periods specified by the parties.
FA2 Shorter Designated Maturity for Linear	For a Calculation Period to which Linear Interpolation
Interpolation:	applies, as specified by the parties.
FA2 Longer Designated Maturity for Linear	For a Calculation Period to which Linear Interpolation
Interpolation:	applies, as specified by the parties.
FA2 Spread:	As specified by the parties.
FA2 Day Count Fraction:	As specified by the parties.
FA2 Reset Dates ("resetDate"):	As specified by the parties.
FA2 Method of Averaging:	As specified by the parties.
FA2 Compounding:	As specified by the parties.
FA2 Compounding Dates:	In the event Compounding is selected, as selected by the
	parties.
FA2 Compounding Method (Compounding OR Flat	In the event Compounding is selected, as selected by the
Compounding):	parties.
FA2 Period End Dates Business Days:	As specified by the parties from among the Available
, and the second	Business Days.
FA2 Period End Dates Business Day Convention:	As specified by the parties from among the Available
·	Business Day Conventions.
FA2 Payment Dates Business Days:	As specified by the parties from among the Available
	Business Days, subject to any Required Business Days.
FA2 Payment Dates Business Day Convention:	As specified by the parties from among the Available
	Business Day Conventions.
FA2 Reset Dates Business Days:	As specified by the parties from among the Available
·	Business Days, subject to any Required Business Days.
FA2 Reset Dates Business Day Convention:	As specified by the parties from among the Available
·	Business Day Conventions.
Mark-to-Market Currency Swap:	
Mark-to-Market Currency Swap:	As specified by the parties, if the Currency Amounts are
	in different Currencies.
Variable Currency Payer:	As specified by the parties if the transaction is a Mark-
	to-Market Currency Swap.
Constant Currency Payer:	As specified by the parties if the transaction is a Mark-
	to-Market Currency Swap.
Currency Exchange Rate:	As specified by the parties if the transaction is a Mark-
	to-Market Currency Swap and ISDA MTM Matrix is not
	applicable.
ISDA MTM Matrix:	As specified by the parties if the transaction is a Mark-
	to-Market Currency Swap.
Initial Exchange:	
Initial Exchange Date:	As specified by the parties.
FA1 Payer Initial Exchange Amount:	As specified by the parties.
	· · · · ·

FA2 Payer Initial Exchange Amount:	As specified by the parties.
Interim Exchanges:	
Interim Exchange Dates:	As specified by the parties.
FA1 Payer Interim Exchange Amount:	As specified by the parties.
FA2 Payer Interim Exchange Amount:	As specified by the parties.
Final Exchanges:	
Final Exchange Date:	As specified by the parties.
FA1 Payer Final Exchange Amount:	As specified by the parties.
FA2 Payer Final Exchange Amount:	As specified by the parties.
Optional Early Termination:	
Optional Early Termination:	As specified by the parties.
Option Style:	As specified by the parties.
Optional Early Termination Date:	As specified by the parties.
Seller:	As specified by the parties if only one party can
	terminate.
Buyer:	As specified by the parties, if only one party can
y	terminate.
Seller's Agent:	As specified by the parties, if only one party can
~	terminate.
Business Days for Payments:	As specified by the parties from among the Available
2 doiness 2 dys 101 1 dy mems.	Business Days, subject to any Required Business Days.
Exercise Business Days:	As specified by the parties.
Optional Early Termination Procedure for Exercise:	The specified by the parties.
Commencement Date:	As specified by the parties, if the Option Style is
Commencement Bute.	American.
Bermuda Option Exercise Dates:	As specified by the parties, if the Option Style is
Bernidda Option Exercise Bates.	Bermuda.
Expiration Date:	As specified by the parties.
Expiration Time:	As specified by the parties.
Earliest Exercise Time:	As specified by the parties.
Latest Exercise Time:	As specified by the parties.
Exercise Business Day:	As specified by the parties.
Partial Exercise:	As specified by the parties, if Option Style is European.
Multiple Exercise:	As specified by the parties, if Option Style is American
Withit Exercise.	or Bermuda.
Minimum Notional Amount:	As specified by the parties if Partial Exercise or Multiple
Willimani Notional Amount.	Exercise is specified.
Maximum Notional Amount:	As specified by the parties if Multiple Exercise is
Waxiiiuiii Notioliai Allioulit.	specified.
Integral Multiple:	As specified by the parties if Partial Exercise or Multiple
integral Wultiple.	Exercise is specified.
Optional Early Termination Settlement Terms:	Dieletse is specified.
Cash Settlement:	As specified by the parties.
ISDA Settlement Matrix:	As specified by the parties, if Cash Settlement is
ISDA SCHICHCH MAHIX.	applicable to a single currency Transaction.
ISDA Cross Currency Sattlement Matrix	As specified by the parties, if Cash Settlement is
ISDA Cross Currency Settlement Matrix:	1 1 1
	applicable to a cross currency Transaction whose currencies are listed as a "currency pair" in the Cross
	* *
Coch Sattlement Valuation Times	Currency Settlement Matrix.
Cash Settlement Valuation Time:	If Cash Settlement is applicable, as specified by the
Coch Sattlement Valuation Date:	parties, directly or via the ISDA Settlement Matrix.
Cash Settlement Valuation Date:	If Cash Settlement is applicable, as specified by the
	parties, directly or via the ISDA Settlement Matrix.

Valuation Business Days:	If Cash Settlement is applicable, as specified by the
	parties, directly or via the ISDA Settlement Matrix.
Cash Settlement Payment Date:	If Cash Settlement is applicable, as specified by the
	parties, directly or via the ISDA Settlement Matrix.
Cash Settlement Payment Date Business Days	If Cash Settlement is applicable, as specified by the
Convention:	parties, directly or via the ISDA Settlement Matrix.
Cash Settlement Method:	If Cash Settlement is applicable, as specified by the
	parties from Available Cash Settlement Methods,
	directly or via the ISDA Settlement Matrix.
Cash Settlement Currency:	If Cash Settlement is applicable, and "Cash Price" or
•	"Cash Price—Alternate" apply, as specified by the
	parties from Available Cash Settlement Methods,
	directly or via the ISDA Settlement Matrix.
Settlement Rate:	If Cash Settlement is applicable, and "Par Yield Curve—
	Adjusted," "Par Yield Curve—Unadjusted" or "Zero
	Coupon Curve—Adjusted" apply, as specified by the
	parties from Available Cash Settlement Methods,
	directly or via the ISDA Settlement Matrix parties from
	Available Cash Settlement Methods, directly or via the
	ISDA Settlement Matrix.
Cash Settlement Reference Banks:	As specified by the parties, if Settlement Rate is
	applicable.
Cash Settlement Reference Banks:	If Cash Settlement is applicable, as specified by the
	parties.
Quotation Rate:	If Cash Settlement is applicable, as specified by the
	parties from among the Available Quotation Rates.
Calculation Agent:	As agreed by the parties.

Basis Available Currencies and Required Business Days

Three Letter Currency Code	Currency Name (ISDA)	Basic Business Day Locations
(ISDA/ISO)		For Currency (FpML Codes)
AUD	Australian Dollar	AUSY
CAD	Canadian Dollar	CATO
CHF	Swiss Franc	CHZU
CLP	Chilean Peso	CLSA
CZK	Czech Koruna	CZPR
DKK	Danish Krone	DKCO
EUR	Euro	EUTA
GBP	Sterling	GBLO
HKD	Hong Kong Dollar	НКНК
HUF	Hungarian Forint	HUBU
JPY	Japanese Yen	JPTO
MXN	New Mexican Peso	MXMC
NOK	Norwegian Krone	NOOS
NZD	New Zealand Dollar	NZAU and NZWE
PLN	Polish Zloty	PLWA
SEK	Swedish Krona	SEST
SGD	Singapore Dollar	SGSI
TRY	Turkish Lira	TRIS
USD	United States Dollars	USNY
ZAR	South African Rand	ZAJO

Basis Available Business Day Conventions

	ISDA Name
Following	
Modified/Modified Following	
No Adjustment	
Preceding	
FRN Convention/Eurodollar Convention	

Basis Available Day Count Fractions

ISDA Name	
1/1	
30/360, 360/360, Bond Basis	
Actual/360	
Actual/365 (Fixed), Act/365 (Fixed), A/365 (Fixed), A/365F	
Actual/Actual, Actual/Actual (ISDA), Act/Act, Act/Act (ISDA)	
Actual/Actual (ICMA), Act/Act, Act/Act (ICMA)	

Basis Default Effective Dates

Currency	Default Effective Date
All Currencies Other than CAD, GBP, MXN, ZAR	Plus Two Banking Days
MXN	Plus One Banking Day
CAD, GBP, ZAR	Plus Zero

Basis Earliest and Latest Effective and Termination Dates

Currency	Earliest Effective	Latest Effective	Earliest Termination	Latest Termination
	Date	Date	Date	Date
N/A	N/A	N/A	N/A	N/A

Basis Notional Amounts

Currency	Minimum	Increment	Maximum	Default
AUD	5,000,000	100,000	N/A	N/A
CAD	25,000,000	1,000,000	N/A	N/A
CHF	5,000,000	100,000	N/A	N/A
CLP	5,000,000	100,000	N/A	N/A
CZK	5,000,000	100,000	N/A	N/A
DKK	5,000,000	100,000	N/A	N/A
EUR	5,000,000	100,000	N/A	N/A
GBP	5,000,000	100,000	N/A	N/A
HKD	5,000,000	100,000	N/A	N/A
HUF	5,000,000	100,000	N/A	N/A
JPY	5,000,000	100,000	N/A	N/A
MXN	10,000,000	1,000,000	N/A	N/A
NOK	5,000,000	100,000	N/A	N/A
NZD	5,000,000	100,000	N/A	N/A
PLN	5,000,000	100,000	N/A	N/A
SEK	5,000,000	100,000	N/A	N/A
SGD	5,000,000	100,000	N/A	N/A
TRY	5,000,000	100,000	N/A	N/A
USD	5,000,000	100,000	N/A	N/A

ZAR	5,000,000	100,000	N/A	N/A

Basis Floating Rate Options and Defaults

Floating Rate Option	Available Tenors	Default Tenor	Default Day Count Fraction	Additional Business Day Locations
AUD-AONIA-OIS- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
AUD-AONIA-OIS- COMPOUND- SwapMarker	All quoted tenors	N/A	Per ISDA 2006	N
AUD-BBR- AUBBSW	All quoted tenors	N/A	Per ISDA 2006	N
AUD-BBR-BBSW	All quoted tenors	N/A	Per ISDA 2006	N
AUD-BBR-BBSW- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
AUD-BBR-BBSY (BID)	All quoted tenors	N/A	Per ISDA 2006	N
AUD-BBR-ISDC	All quoted tenors	N/A	Per ISDA 2006	N
AUD-LIBOR-BBA	All quoted tenors	N/A	Per ISDA 2006	N
AUD-LIBOR-BBA- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
AUD-LIBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
AUD-Quarterly Swap Rate-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
AUD-Quarterly Swap Rate-ICAP-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
AUD-Semi-annual Swap Rate-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
AUD-Semi-Annual Swap Rate-ICAP- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
AUD-Swap Rate- Reuters	All quoted tenors	N/A	Per ISDA 2006	N
CAD-BA-CDOR	All quoted tenors	N/A	Per ISDA 2006	N
CAD-BA-CDOR- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
CAD-BA-ISDD	All quoted tenors	N/A	Per ISDA 2006	N
CAD-BA-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
CAD-BA-Reuters	All quoted tenors	N/A	Per ISDA 2006	N
CAD-BA-Telerate	All quoted tenors	N/A	Per ISDA 2006	N
CAD-CORRA-OIS- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
CAD-ISDA-Swap Rate	All quoted tenors	N/A	Per ISDA 2006	N

Floating Rate Option	Available Tenors	Default Tenor	Default Day Count Fraction	Additional Business Day Locations
CAD-LIBOR-BBA	All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
CAD-LIBOR-BBA- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
CAD-LIBOR-BBA- SwapMarker	All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
CAD-LIBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
CAD-REPO-CORRA	All quoted tenors	N/A	Per ISDA 2006	N
CAD-TBILL-ISDD	All quoted tenors	N/A	Per ISDA 2006	N
CAD-TBILL- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
CAD-TBILL-Reuters	All quoted tenors	N/A	Per ISDA 2006	N
CAD-TBILL-Telerate	All quoted tenors	N/A	Per ISDA 2006	N
CHF USD-Basis Swaps-11:00-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
CHF-Annual Swap Rate	All quoted tenors	N/A	Per ISDA 2006	N
CHF-Annual Swap Rate-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
CHF-ISDAFIX-Swap Rate	All quoted tenors	N/A	Per ISDA 2006	N
CHF-LIBOR-BBA	All quoted tenors	N/A	Per ISDA 2006	N
CHF-LIBOR-BBA- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
CHF-LIBOR-ISDA	All quoted tenors	N/A	Per ISDA 2006	N
CHF-LIBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
CHF-OIS-11:00- ICAP	All quoted tenors	N/A	Per ISDA 2006	N
CHF-TOIS-OIS- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
CLP-CLICP- Bloomberg	All quoted tenors	N/A	A/360	N
CLP-Unidad de Fomento (UF/CLF)	All quoted tenors	N/A	A/360	N
CZK-PRIBOR-PRBO	All quoted tenors	N/A	A/360	N
DKK-CIBOR- DKNA13	All quoted tenors	N/A	Per ISDA 2006	N
DKK-CIBOR- DKNA13-Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
DKK-CIBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
DKK-CIBOR2-	All quoted tenors	N/A	Per ISDA 2006	N

Floating Rate Option	Available Tenors	Default Tenor	Default Day Count Fraction	Additional Business Day Locations
DKNA13				
DKK-CITA- DKNA14- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
DKK-DKKOIS-OIS- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
EUR USD-Basis Swaps-11:00-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-10:00	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-10:00- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-10:00-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-10:00- SwapMarker	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-11:00	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-11:00- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-11:00-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-11:00- SwapMarker	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-3 Month	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-3 Month- SwapMarker	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EONIA- AVERAGE	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EONIA-OIS- 10:00-BGCANTOR	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EONIA-OIS- 10:00-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EONIA-OIS- 11:00-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EONIA-OIS- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N

EUR-EURIBOR- All quoted tenors N/A Per ISDA 2006 N Bloomberg EUR-EONIA-Swap- Index All quoted tenors N/A Per ISDA 2006 N EUR-EURIBOR- Act 365 EUR-EURIBOR- Redictrace Banks EUR-EURIBOR- Redictrace Banks EUR-EURIBOR- Telerate EUR-EURIBOR- Telerate EUR-EURONIA- OIS-COMPOUND EUR-ISDA EUR-EURONIA- OIS-COMPOUND EUR-ISDA EUR-IDDA EUR-IDDA EUR-IDDA EUR-IDDA EUR-IDDA EUR-IDDA EUR-IDDA All quoted tenors N/A Per ISDA 2006 N EUR-IDDA EUR-IDDA EUR-IDDA All quoted tenors N/A Per ISDA 2006 N EUR-IDDA EUR-IDDA EUR-IDDA All quoted tenors N/A Per ISDA 2006 N EUR-IDDA EUR-IDDA All quoted tenors N/A Per ISDA 2006 N EUR-IDDA EUR-IDDA EUR-IDDA All quoted tenors N/A Per ISDA 2006 N EUR-IDDA EUR-IDDA EUR-IDDA All quoted tenors N/A Per ISDA 2006 N EUR-IDDA EUR-IDDA EUR-IDDA All quoted tenors N/A Per ISDA 2006 N EUR-IDDA EUR-IDDA EUR-IDDA All quoted tenors N/A Per ISDA 2006 N EUR-IDDA EUR-IDOR EUR-IDOR All quoted tenors N/A Per ISDA 2006 N EUR-IDOR EUR-IDOR EUR-IDOR All quoted tenors N/A Per ISDA 2006 N EUR-IDOR EUR-IDOR All quoted tenors N/A Per ISDA 2006 N EUR-IDOR EUR-IDOR EUR-IDOR All quoted tenors N/A Per ISDA 2006 N EUR-IDOR EUR-IDOR All quoted tenors N/A Per ISDA 2006 N EUR-TECIO-CNO SwapMarker EUR-TECIO-CNO All quoted tenors N/A Per ISDA 2006 N EUR-TECIO-CNO All quoted tenors N/A Per ISDA 2006 N EUR-TECIO-CNO SwapMarker EUR-TECS- COMPOUND All quoted tenors N/A Per ISDA 2006 N EUR-TECS- Reference Banks EUR-TEM-CDC COMPOUND All quoted tenors N/A Per ISDA 2006 N EUR-IDOR Reference Banks EUR-TEM-CDC COMPOUND All quoted tenors N/A Per ISDA 2006 N EUR-IDOR Reference Banks EUR-TEM-CDC COMPOUND All quoted tenors N/A Per ISDA 2006 N EUR-IDOR Reference Banks EUR-TEM-CDC	Floating Rate Option	Available Tenors	Default Tenor	Default Day Count Fraction	Additional Business Day Locations
Index All quoted tenors N/A Per ISDA 2006 N EUR-EURIBOR- Act/365 All quoted tenors N/A Per ISDA 2006 N EUR-EURIBOR- Act/365 Bloomberg All quoted tenors N/A Per ISDA 2006 N EUR-EURIBOR- Reference Banks All quoted tenors N/A Per ISDA 2006 N EUR-EURIBOR- Reference Banks All quoted tenors N/A Per ISDA 2006 N EUR-EURIBOR- Reterence Banks All quoted tenors N/A Per ISDA 2006 N EUR-EURIBOR- Telerate All quoted tenors N/A Per ISDA 2006 N EUR-EURONIA- OIS-COMPOUND All quoted tenors N/A Per ISDA 2006 N EUR-ISDA- EURIBOR- STATE ALL TOO EURIBOR Swap Rate-11:00 EUR-ISDA-LIBOR Swap Rate-10:00 All quoted tenors N/A Per ISDA 2006 N EUR-ISDA-LIBOR Swap Rate-11:00 EUR-ISDA-LIBOR All quoted tenors N/A Per ISDA 2006 N EUR-ISDA-LIBOR Swap Rate-11:00 All quoted tenors N/A Per ISDA 2006 N EUR-ISDA-LIBOR Swap Rate-11:00 All quoted tenors N/A Per ISDA 2006 N EUR-ISDA-LIBOR Swap Rate-11:00 All quoted tenors N/A Per ISDA 2006 N EUR-ISDA-LIBOR Swap Rate-11:00 All quoted tenors N/A Per ISDA 2006 N EUR-ISDA-LIBOR Swap Rate-11:00 All quoted tenors N/A Per ISDA 2006 N EUR-LIBOR-BBA All quoted tenors N/A Per ISDA 2006 N EUR-LIBOR-BBA All quoted tenors N/A Per ISDA 2006 N EUR-LIBOR-BBA All quoted tenors N/A Per ISDA 2006 N EUR-LIBOR- Reference Banks All quoted tenors N/A Per ISDA 2006 N EUR-TECIO-CNO All quoted tenors N/A Per ISDA 2006 N EUR-TECIO-CNO All quoted tenors N/A Per ISDA 2006 N EUR-TECIO-CNO All quoted tenors N/A Per ISDA 2006 N EUR-TECIO-CNO All quoted tenors N/A Per ISDA 2006 N EUR-TECIO-CNO All quoted tenors N/A Per ISDA 2006 N EUR-TECIO-CNO All quoted tenors N/A Per ISDA 2006 N EUR-TECIO-CNO All quoted tenors N/A Per ISDA 2006 N EUR-TECIO-CNO All quoted tenors N/A Per ISDA 2006 N EUR-TECIO-CNO All quoted tenors N/A Per ISDA 2006 N EUR-TECIO-CNO All quoted tenors N/A Per ISDA 2006 N EUR-TECIO-CNO All quoted tenors N/A Per ISDA 2006 N EUR-TECIO-CNO All quoted tenors N/A Per ISDA 2006 N EUR-TECIO-CNO All quoted tenors N/A Per ISDA 2006 N EUR-TECIO-CNO All quoted tenors N/A Per ISDA 2006 N EUR-TECIO-	COMPOUND-	All quoted tenors	N/A	Per ISDA 2006	N
Act/365 All quoted tenors N/A Per ISDA 2006 N EUR-EURIBOR- Act/365-Bloomberg EUR-EURIBOR- Reference Banks EUR-EURIBOR- Reuters All quoted tenors All quoted tenors N/A Per ISDA 2006 N Reuters EUR-EURIBOR- Reuters All quoted tenors N/A Per ISDA 2006 N Reuters EUR-EURIBOR- Reuters All quoted tenors N/A Per ISDA 2006 N EUR-EURIBOR- Reuters All quoted tenors N/A Per ISDA 2006 N EUR-EURIBOR- Reuters All quoted tenors N/A Per ISDA 2006 N EUR-ISDA 2006 N EUR-TECIO-CNO All quoted tenors N/A Per ISDA 2006 N EUR-TECIO-CNO All quoted tenors N/A Per ISDA 2006 N EUR-TECIO-CNO All quoted tenors N/A Per ISDA 2006 N EUR-TECIO-CNO All quoted tenors N/A Per ISDA 2006 N EUR-TECIO-CNO All quoted tenors N/A Per ISDA 2006 N EUR-TECIO-CNO All quoted tenors N/A Per ISDA 2006 N EUR-TECIO-CNO All quoted tenors N/A Per ISDA 2006 N EUR-TECS-CNO All quoted tenors N/A Per ISDA 2006 N EUR-TECS-CNO All quoted tenors N/A Per ISDA 2006 N EUR-TECS-CNO All quoted tenors N/A Per ISDA 2006 N EUR-TECS-CNO All quoted tenors N/A Per ISDA 2006 N EUR-TECS-CNO All quoted tenors N/A Per ISDA 2006 N EUR-TECS-CNO All quoted tenors N/A Per ISDA 2006 N EUR-TECS-CNO All quoted tenors N/A Per ISDA 2006 N EUR-TECS-CNO All quoted tenors N/A Per ISDA 2006 N EUR-TECS-CNO All quoted tenors N/A Per ISDA 2006 N EUR-TECS-CNO All quo	-	All quoted tenors	N/A	Per ISDA 2006	N
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Swap Rate-11:00 EUR-LIBOR-BBA All quoted tenors N/A Per ISDA 2006 N EUR-LIBOR-BBA- Bloomberg All quoted tenors N/A Per ISDA 2006 N EUR-LIBOR- Ber ISDA 2006 N EUR-LIBOR- Reference Banks All quoted tenors N/A Per ISDA 2006 N EUR-TAM-CDC All quoted tenors N/A Per ISDA 2006 N EUR-TEC10-CNO All quoted tenors N/A Per ISDA 2006 N EUR-TEC10-CNO- SwapMarker All quoted tenors N/A Per ISDA 2006 N EUR-TEC10- Reference Banks All quoted tenors N/A Per ISDA 2006 N EUR-TEC5-CNO All quoted tenors N/A Per ISDA 2006 N EUR-TEC5-CNO All quoted tenors N/A Per ISDA 2006 N EUR-TEC5-CNO All quoted tenors N/A Per ISDA 2006 N EUR-TEC5-CNO SwapMarker All quoted tenors N/A Per ISDA 2006 N EUR-TEC5-CNO SwapMarker All quoted tenors N/A Per ISDA 2006 N EUR-TEC5- Reference Banks All quoted tenors N/A Per ISDA 2006 N EUR-TEC5- Reference Banks All quoted tenors N/A Per ISDA 2006 N EUR-TEC5- Reference Banks All quoted tenors N/A Per ISDA 2006 N EUR-TEC5- Reference Banks All quoted tenors N/A Per ISDA 2006 N EUR-TEC5- Reference Banks All quoted tenors N/A Per ISDA 2006 N	1	All quoted tenors	N/A	Per ISDA 2006	N
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Reference Banks All quoted tenors N/A Per ISDA 2006 N EUR-TEC5-CNO All quoted tenors N/A Per ISDA 2006 N EUR-TEC5-CNO-SwapMarker All quoted tenors N/A Per ISDA 2006 N EUR-TEC5-Reference Banks All quoted tenors N/A Per ISDA 2006 N EUR-TMM-CDC-COMPOUND All quoted tenors N/A Per ISDA 2006 N		All quoted tenors	N/A	Per ISDA 2006	N
EUR-TEC5-CNO-SwapMarker All quoted tenors N/A Per ISDA 2006 N EUR-TEC5- Reference Banks All quoted tenors N/A Per ISDA 2006 N EUR-TMM-CDC- COMPOUND All quoted tenors N/A Per ISDA 2006 N		All quoted tenors	N/A	Per ISDA 2006	N
SwapMarker EUR-TEC5- Reference Banks EUR-TMM-CDC- COMPOUND All quoted tenors N/A Per ISDA 2006 N Per ISDA 2006 N Per ISDA 2006 N	EUR-TEC5-CNO	All quoted tenors	N/A	Per ISDA 2006	N
Reference Banks EUR-TMM-CDC- COMPOUND All quoted tenors N/A Per ISDA 2006 N Per ISDA 2006 N		All quoted tenors	N/A	Per ISDA 2006	N
COMPOUND All quoted tenors N/A Per ISDA 2006 N		All quoted tenors	N/A	Per ISDA 2006	N
GBP USD-Basis All quoted tenors N/A Per ISDA 2006 N		All quoted tenors	N/A	Per ISDA 2006	N
	GBP USD-Basis	All quoted tenors	N/A	Per ISDA 2006	N

Floating Rate Option	Available Tenors	Default Tenor	Default Day Count Fraction	Additional Business Day Locations
Swaps-11:00-ICAP				
GBP-ISDA-Swap Rate	All quoted tenors	N/A	Per ISDA 2006	N
GBP-LIBOR-BBA	All quoted tenors	N/A	Per ISDA 2006	N
GBP-LIBOR-BBA- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
GBP-LIBOR-ISDA	All quoted tenors	N/A	Per ISDA 2006	N
GBP-LIBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
GBP-Semi-Annual Swap Rate	All quoted tenors	N/A	Per ISDA 2006	N
GBP-Semi-Annual Swap Rate-11:00- ICAP	All quoted tenors	N/A	Per ISDA 2006	N
GBP-Semi-Annual Swap Rate-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
GBP-SONIA-OIS- 11:00-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
GBP-WMBA- RONIA- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
GBP-WMBA- SONIA- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
HKD-HIBOR- HIBOR-Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
HKD-HIBOR- HIBOR	All quoted tenors	N/A	Per ISDA 2006	N
HKD-HIBOR-HKAB	All quoted tenors	N/A	Per ISDA 2006	N
HKD-HIBOR- HKAB-Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
HKD-HIBOR-ISDC	All quoted tenors	N/A	Per ISDA 2006	N
HKD-HIBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
HKD-HONIX-OIS- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
HKD-ISDA-Swap Rate-11:00	All quoted tenors	N/A	Per ISDA 2006	N
HKD-ISDA-Swap Rate-4:00	All quoted tenors	N/A	Per ISDA 2006	N
HKD-Quarterly- Annual Swap Rate- 11:00-BGCANTOR	All quoted tenors	N/A	Per ISDA 2006	N
HKD-Quarterly- Annual Swap Rate-	All quoted tenors	N/A	Per ISDA 2006	N

Floating Rate Option	Available Tenors	Default Tenor	Default Day Count Fraction	Additional Business Day Locations
4:00-BGCANTOR				
HKD-Quarterly- Annual Swap Rate- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
HUF-BUBOR- Reuters	All quoted tenors	N/A	Per ISDA 2006	N
JPY USD-Basis Swaps-11:00-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
JPY-BBSF- Bloomberg-10:00	All quoted tenors	N/A	Per ISDA 2006	N
JPY-BBSF- Bloomberg-15:00	All quoted tenors	N/A	Per ISDA 2006	N
JPY-ISDA-Swap Rate-10:00	All quoted tenors	N/A	Per ISDA 2006	N
JPY-ISDA-Swap Rate-15:00	All quoted tenors	N/A	Per ISDA 2006	N
JPY-LIBOR-BBA	All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
JPY-LIBOR-BBA- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
JPY-LIBOR- FRASETT	All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
JPY-LIBOR-ISDA	All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
JPY-LIBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
JPY-MUTANCALL- TONAR	All quoted tenors	N/A	Per ISDA 2006	N
JPY-OIS-11:00-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
JPY-TIBOR-17096	All quoted tenors	N/A	Per ISDA 2006	N
JPY-TIBOR-17097	All quoted tenors	N/A	Per ISDA 2006	N
JPY-TIBOR-TIBM (10 Banks)	All quoted tenors	N/A	Per ISDA 2006	N
JPY-TIBOR-TIBM (5 Banks)	All quoted tenors	N/A	Per ISDA 2006	N
JPY-TIBOR-TIBM (All Banks)	All quoted tenors	N/A	Per ISDA 2006	N
JPY-TIBOR-TIBM (All Banks)- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
JPY-TIBOR-TIBM- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
JPY-TIBOR- ZTIBOR	All quoted tenors	N/A	Per ISDA 2006	N
JPY-TONA-OIS- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N

Floating Rate Option	Available Tenors	Default Tenor	Default Day Count Fraction	Additional Business Day Locations
JPY-TSR-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
JPY-TSR-Reuters- 10:00	All quoted tenors	N/A	Per ISDA 2006	N
JPY-TSR-Reuters- 15:00	All quoted tenors	N/A	Per ISDA 2006	N
JPY-TSR-Telerate- 10:00	All quoted tenors	N/A	Per ISDA 2006	N
JPY-TSR-Telerate- 15:00	All quoted tenors	N/A	Per ISDA 2006	N
MXN-TIIE-Banxico	All quoted tenors	N/A	Per ISDA 2006	N
MXN-TIIE-Banxico- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
MXN-TIIE- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
MXN-Unidades de Inversión (UDI)	N/A	N/A	See below	N
NOK-NIBOR-NIBR	All quoted tenors	N/A	Per ISDA 2006	N
NOK-NIBOR-NIBR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
NOK-NIBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
NZD-BBR-BID	All quoted tenors	N/A	Per ISDA 2006	N
NZD-BBR-FRA	All quoted tenors	N/A	Per ISDA 2006	N
NZD-BBR-ISDC	All quoted tenors	N/A	Per ISDA 2006	N
NZD-BBR-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
NZD-BBR-Telerate	All quoted tenors	N/A	Per ISDA 2006	N
NZD-NZIONA-OIS- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
NZD-Swap Rate- ICAP	All quoted tenors	N/A	Per ISDA 2006	N
NZD-Swap Rate- ICAP-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
PLN-WIBOR_WIBO	All quoted tenors	N/A	Per ISDA 2006	N
SEK-Annual Swap Rate-SESWFI	All quoted tenors	N/A	Per ISDA 2006	N
SEK-SIOR-OIS- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
SEK-STIBOR- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
SEK-STIBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
SEK-STIBOR-SIDE	All quoted tenors	N/A	Per ISDA 2006	N

Swap Rate-11-00-BGCANTOR SGD-Semi-Annual Swap Rate-ICAP SGD-Semi-Annual Swap Rate-ICAP Reference Banks SGD-Semi-Annual Swap Rate-ICAP- Reference Banks SGD-Semi-Annual Swap Rate-ICAP- Reference Banks SGD-Semi-Annual Swap Rate-Reference Banks SGD-Semi-Annual Swap Rate-Reference Banks SGD-SIBOR- Reference Banks SGD-SIBOR- Reference Banks SGD-SIBOR- Reference Banks All quoted tenors N/A Per ISDA 2006 N Reference Banks SGD-SIBOR- Reference Banks SGD-SIBOR- Reference Banks All quoted tenors N/A Per ISDA 2006 N SGD-SIBOR-Reuters SGD-SONAR-OIS- COMPOUND SGD-SONAR-OIS- VWAP- COMPOUND All quoted tenors N/A Per ISDA 2006 N SGD-SOR-Reference Banks All quoted tenors N/A Per ISDA 2006 N SGD-SOR-Reference Banks All quoted tenors N/A Per ISDA 2006 N SGD-SOR-Reference Banks All quoted tenors N/A Per ISDA 2006 N SGD-SOR-Reference Banks All quoted tenors N/A Per ISDA 2006 N SGD-SOR-Reference Banks All quoted tenors N/A Per ISDA 2006 N SGD-SOR-Reference Banks All quoted tenors N/A Per ISDA 2006 N SGD-SOR-Reference Banks All quoted tenors N/A Per ISDA 2006 N SGD-SOR-WAP All quoted tenors N/A Per ISDA 2006 N SGD-SOR-WAP All quoted tenors N/A Per ISDA 2006 N SGD-SOR-WAP Reference Banks TRY-TRYIBOR- Reference Banks All quoted tenors N/A Per ISDA 2006 N SGD-SOR-WAP All quoted tenors N/A Per ISDA 2006 N SGD-SOR-WAP All quoted tenors N/A Per ISDA 2006 N SGD-SOR-WAP All quoted tenors N/A Per ISDA 2006 N SGD-SOR-WAP All quoted tenors N/A Per ISDA 2006 N SGD-SOR-WAP All quoted tenors N/A Per ISDA 2006 N SGD-SOR-WAP All quoted tenors N/A Per ISDA 2006 N SGD-SOR-WAP All quoted tenors N/A Per ISDA 2006 N SGD-SOR-WAP All quoted tenors N/A Per ISDA 2006 N SGD-SOR-WAP All quoted tenors N/A Per ISDA 2006 N SGD-SOR-WAP All quoted tenors N/A Per ISDA 2006 N SGD-SOR-WAP All quoted tenors N/A Per ISDA 2006 N SGD-SOR-WAP All quoted tenors N/A Per ISDA 2006 N SGD-SOR-WAP All quoted tenors N/A Per ISDA 2006 N SGD-SOR-WAP All quoted tenors N/A Per ISDA 2006 N SGD-SOR-WAP All quoted tenors N/A Per ISDA 2006 N SGD-SOR-WAP All qu	Floating Rate Option	Available Tenors	Default Tenor	Default Day Count Fraction	Additional Business Day Locations
Swap Rate-ICAP All quoted tenors N/A Per ISDA 2006 N SGD-Semi-Annual Swap Rate-ICAP- Reference Banks SGD-SIBOR- Reference Banks SGD-SIBOR- Reference Banks SGD-SIBOR- Reference Banks SGD-SIBOR- Reference Banks All quoted tenors N/A Per ISDA 2006 N Reference Banks SGD-SIBOR- Reference Banks SGD-SIBOR-Reuters All quoted tenors N/A Per ISDA 2006 N SGD-SIBOR-Reuters All quoted tenors N/A Per ISDA 2006 N SGD-SIBOR-Reuters All quoted tenors N/A Per ISDA 2006 N SGD-SOBAR-OIS- COMPOUND All quoted tenors N/A Per ISDA 2006 N SGD-SORAR-OIS- COMPOUND SGD-SOR-Reuters All quoted tenors N/A Per ISDA 2006 N SGD-SOR-Reuters All quoted tenors N/A Per ISDA 2006 N SGD-SOR-Reuters All quoted tenors N/A Per ISDA 2006 N SGD-SOR-Reuters All quoted tenors N/A Per ISDA 2006 N SGD-SOR-Reuters All quoted tenors N/A Per ISDA 2006 N SGD-SOR-VWAP All quoted tenors N/A Per ISDA 2006 N SGD-SOR-VWAP Reference Banks All quoted tenors N/A Per ISDA 2006 N SGD-SOR-WAP Reference Banks All quoted tenors N/A Per ISDA 2006 N SGD-SOR-WAP Reference Banks All quoted tenors N/A Per ISDA 2006 N SGD-SOR-WAP Reference Banks All quoted tenors N/A Per ISDA 2006 N SGD-SOR-WAP Reference Banks All quoted tenors N/A Per ISDA 2006 N SGD-SOR-WAP Reference Banks All quoted tenors N/A Per ISDA 2006 N Rescuers All quoted tenors N/A Per ISDA 2006 N Rescuers All quoted tenors N/A Per ISDA 2006 N Rescuers All quoted tenors N/A Per ISDA 2006 N Rescuers All quoted tenors N/A Per ISDA 2006 N Rescuers All quoted tenors N/A Per ISDA 2006 N Rescuers All quoted tenors N/A Per ISDA 2006 N Rescuers All quoted tenors N/A Per ISDA 2006 N Rescuers All quoted tenors N/A Per ISDA 2006 N Rescuers All quoted tenors N/A Per ISDA 2006 N Rescuers All quoted tenors N/A Per ISDA 2006 N Rescuers All quoted tenors N/A Per ISDA 2006 N Rescuers All quoted tenors N/A Per ISDA 2006 N Rescuers All quoted tenors N/A Per ISDA 2006 N Rescuers All	SGD-Semi-Annual Swap Rate-11:00- BGCANTOR	All quoted tenors	N/A	Per ISDA 2006	N
Swap Rate-ICAP- Reference Banks SGD-Semi-Annual Swap Rate-Reference Banks SGD-SIBOR- Reference Banks SGD-SIBOR- Reference Banks All quoted tenors N/A Per ISDA 2006 N SGD-SIBOR- Reference Banks SGD-SIBOR-Reuters All quoted tenors N/A Per ISDA 2006 N SGD-SIBOR-Reuters All quoted tenors N/A Per ISDA 2006 N SGD-SONAR-OIS- COMPOUND All quoted tenors N/A Per ISDA 2006 N SGD-SONAR-OIS- COMPOUND SGD-SONAR-OIS- COMPOUND SGD-SOR-Reference Banks All quoted tenors N/A Per ISDA 2006 N SGD-SOR-Reference Banks All quoted tenors N/A Per ISDA 2006 N SGD-SOR-Reuters All quoted tenors N/A Per ISDA 2006 N SGD-SOR-Reuters All quoted tenors N/A Per ISDA 2006 N SGD-SOR-Reuters All quoted tenors N/A Per ISDA 2006 N SGD-SOR-Reuters All quoted tenors N/A Per ISDA 2006 N SGD-SOR-VWAP SGD-SOR-VWAP All quoted tenors N/A Per ISDA 2006 N SGD	SGD-Semi-Annual Swap Rate-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
Swap Rate-Reference Banks SGD-SIBOR- Reference Banks All quoted tenors N/A Per ISDA 2006 N Reference Banks SGD-SIBOR- Reference Banks All quoted tenors N/A Per ISDA 2006 N ROBERSTOR Reuters All quoted tenors N/A Per ISDA 2006 N ROBERSTOR Reuters All quoted tenors N/A Per ISDA 2006 N ROBERSTOR Reuters ROBERSTOR Reuters N/A Per ISDA 2006 N ROBERSTOR Reuters ROBERSTOR REUTERSTOR R	SGD-Semi-Annual Swap Rate-ICAP- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
Reference Banks All quoted tenors N/A Per ISDA 2006 N SGD-SIBOR-Reuters All quoted tenors N/A Per ISDA 2006 N SGD-SONAR-OIS- COMPOUND All quoted tenors N/A Per ISDA 2006 N SGD-SONAR-OIS- COMPOUND SGD-SONAR-OIS- COMPOUND SGD-SOR-Reference Banks All quoted tenors N/A Per ISDA 2006 N N SGD-SOR-Reference Banks N/A Per ISDA 2006 N SGD-SOR-Reference Banks N/A Per ISDA 2006 N SGD-SOR-Reuters All quoted tenors N/A Per ISDA 2006 N SGD-SOR-Reuters All quoted tenors N/A Per ISDA 2006 N SGD-SOR-Telerate All quoted tenors N/A Per ISDA 2006 N SGD-SOR-VWAP All quoted tenors N/A Per ISDA 2006 N SGD-SOR-VWAP Reference Banks All quoted tenors N/A Per ISDA 2006 N SGD-SOR-VWAP Reference Banks All quoted tenors N/A Per ISDA 2006 N Reterince Banks All quoted tenors N/A Per ISDA 2006 N SGD-SOR-VWAP Reference Banks All quoted tenors N/A Per ISDA 2006 N N SGD-SOR-VWAP All quoted tenors N/A Per ISDA 2006 N N SGD-SOR-VWAP Reference Banks All quoted tenors N/A Per ISDA 2006 N N SGD-SOR-VWAP All quoted tenors N/A Per ISDA 2006 N SGD-SOR-VWAP Reference All quoted tenors N/A Per ISDA 2006 N SGD-SOR-VWAP Reference All quoted tenors N/A Per ISDA 2006 N SGD-SOR-VWAP Reference All quoted tenors N/A Per ISDA 2006 N SGD-SOR-VWAP Reference All quoted tenors N/A Per ISDA 2006 N SGD-SOR-VWAP Reference Dealers All quoted tenors N/A Per ISDA 2006 N SGD-SOR-VWAP Reference Dealers All quoted tenors N/A Per ISDA 2006 N SGD-SOR-VWAP Reference Dealers All quoted tenors N/A Per ISDA 2006 N SGD-SOR-VWAP Reference Dealers All quoted tenors N/A Per ISDA 2006 N SGD-SOR-VWAP Reference Dealers All quoted tenors N/A Per ISDA 2006 N SGD-SOR-VWAP Reference Dealers All quoted tenors N/A Per ISDA 2006 N SGD-SOR-VWAP Reference Dealers All quoted tenors N/A Per ISDA 2006 N Reference Dealers All quoted tenors N/A Per ISDA 2006 N Reference Dealers All quoted tenors N/A Per ISDA 2006 N Reference	SGD-Semi-Annual Swap Rate-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
SGD-SIBOR-Telerate All quoted tenors N/A Per ISDA 2006 N SGD-SONAR-OIS- COMPOUND All quoted tenors N/A Per ISDA 2006 N SGD-SONAR-OIS- VWAP- COMPOUND SGD-SOR-Reference Banks All quoted tenors N/A Per ISDA 2006 N SGD-SOR-Reference Banks All quoted tenors N/A Per ISDA 2006 N SGD-SOR-Reterence All quoted tenors N/A Per ISDA 2006 N SGD-SOR-Telerate All quoted tenors N/A Per ISDA 2006 N SGD-SOR-VWAP All quoted tenors N/A Per ISDA 2006 N SGD-SOR-VWAP All quoted tenors N/A Per ISDA 2006 N SGD-SOR-VWAP- Reference Banks All quoted tenors N/A Per ISDA 2006 N SGD-SOR-VWAP- Reference Banks All quoted tenors N/A Per ISDA 2006 N SGD-SOR-VWAP- Reference Banks All quoted tenors N/A Per ISDA 2006 N SGD-SOR-VWAP- Reference Banks All quoted tenors N/A Per ISDA 2006 N SGD-SOR-VWAP- Reference Banks All quoted tenors N/A Per ISDA 2006 N SGD-SOR-VWAP- Reference Banks All quoted tenors N/A Per ISDA 2006 N SGD-SOR-VWAP- Reference Banks All quoted tenors N/A Per ISDA 2006 N SGD-SOR-VWAP- Reference Banks All quoted tenors N/A Per ISDA 2006 N SGD-SOR-VWAP- Reference Banks All quoted tenors N/A Per ISDA 2006 N SGD-SOR-VWAP- Reterior All quoted tenors N/A Per ISDA 2006 N SGD-SOR-VWAP- Reterior All quoted tenors N/A Per ISDA 2006 N SGD-SOR-VWAP- Reference Banks All quoted tenors N/A Per ISDA 2006 N SGD-SOR-VWAP- Reference Banks All quoted tenors N/A Per ISDA 2006 N SGD-SOR-VWAP- Reference Banks All quoted tenors N/A Per ISDA 2006 N SGD-SOR-VWAP- Reference Banks All quoted tenors N/A Per ISDA 2006 N SGD-SOR-VWAP- Reference Banks All quoted tenors N/A Per ISDA 2006 N SGD-SOR-VWAP- Reference Banks All quoted tenors N/A Per ISDA 2006 N SGD-SOR-VWAP- Reference Banks All quoted tenors N/A Per ISDA 2006 N SGD-SOR-VWAP- Reference Banks All quoted tenors N/A Per ISDA 2006 N SGD-SOR-VWAP- Reference Banks All quoted tenors N/A Per ISDA 2006 N SGD-SOR-VWAP- Reference Banks All quoted tenors N/A Per ISDA 2006 N SGD-SOR-VWAP- Reference Banks All quoted tenors N/A Per ISDA 2006 N SGD-SOR-VWAP- Reference Banks All quoted tenors N/A Per ISDA 2006 N SGD-SOR-VW	SGD-SIBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
SGD-SONAR-OIS- COMPOUND All quoted tenors N/A Per ISDA 2006 N SGD-SONAR-OIS- VWAP- All quoted tenors N/A Per ISDA 2006 N SGD-SOR-Reference Banks All quoted tenors N/A Per ISDA 2006 N SGD-SOR-Reference Banks All quoted tenors N/A Per ISDA 2006 N SGD-SOR-Reuters All quoted tenors N/A Per ISDA 2006 N SGD-SOR-Telerate All quoted tenors N/A Per ISDA 2006 N SGD-SOR-VWAP All quoted tenors N/A Per ISDA 2006 N SGD-SOR-VWAP All quoted tenors N/A Per ISDA 2006 N SGD-SOR-VWAP Reference Banks All quoted tenors N/A Per ISDA 2006 N REUTER TRY-TRYIBOR- Reuters All quoted tenors N/A Per ISDA 2006 N USD-Annual Swap Rate-11:00- BGCANTOR USD-BA-H.15 All quoted tenors N/A Per ISDA 2006 N USD-BA-Reference Pealers All quoted tenors N/A Per ISDA 2006 N USD-BMA Municipal Swap Index USD-CD-H.15 All quoted tenors N/A Per ISDA 2006 N USD-CD-Reference Dealers All quoted tenors N/A Per ISDA 2006 N USD-CD-Reference Dealers All quoted tenors N/A Per ISDA 2006 N USD-CMS-Reference All quoted tenors N/A Per ISDA 2006 N USD-CMS-Reference Banks-ICAP SwapPX All quoted tenors N/A Per ISDA 2006 N Per ISDA 200	SGD-SIBOR-Reuters	All quoted tenors	N/A	Per ISDA 2006	N
COMPOUND All quoted tenors N/A Per ISDA 2006 N SGD-SONAR-OIS- VWAP- COMPOUND SGD-SOR-Reference Banks All quoted tenors N/A Per ISDA 2006 N SGD-SOR-Reference Banks SGD-SOR-Reuters All quoted tenors N/A Per ISDA 2006 N SGD-SOR-Telerate All quoted tenors N/A Per ISDA 2006 N SGD-SOR-Telerate All quoted tenors N/A Per ISDA 2006 N SGD-SOR-VWAP Reference Banks All quoted tenors N/A Per ISDA 2006 N SGD-SOR-VWAP Reference Banks All quoted tenors N/A Per ISDA 2006 N SGD-SOR-VWAP Reference Banks All quoted tenors N/A Per ISDA 2006 N SGD-SOR-VWAP Reference Banks All quoted tenors N/A Per ISDA 2006 N SGD-SOR-VWAP Reference Banks All quoted tenors N/A Per ISDA 2006 N SGD-SOR-VWAP Reference Dalers N/A Per ISDA 2006 N SGD-SOR-VWAP Reference Dalers N/A Per ISDA 2006 N SGD-SOR-VWAP Reference Dealers N SGD-SOR-VWAP Reference Dealers N/A Per ISDA 2006 N SGD-SOR-VWAP Reference Dealers N SOR-WAP Reference Dealers N/A Per ISDA 2006 N	SGD-SIBOR-Telerate	All quoted tenors	N/A	Per ISDA 2006	N
VWAP- COMPOUND SGD-SOR-Reference Banks All quoted tenors N/A Per ISDA 2006 N SGD-SOR-Reiference Banks All quoted tenors N/A Per ISDA 2006 N SGD-SOR-Reuters All quoted tenors N/A Per ISDA 2006 N SGD-SOR-Telerate All quoted tenors N/A Per ISDA 2006 N SGD-SOR-VWAP All quoted tenors N/A Per ISDA 2006 N SGD-SOR-VWAP- Reference Banks All quoted tenors N/A Per ISDA 2006 N TRY-TRYIBOR- Reuters All quoted tenors N/A Per ISDA 2006 N SGD-SOR-VWAP- Reference Banks All quoted tenors N/A Per ISDA 2006 N USD-Annual Swap Rate-11:00- BGCANTOR USD-BA-H.15 All quoted tenors N/A Per ISDA 2006 N USD-BA-Reference Dealers All quoted tenors N/A Per ISDA 2006 N USD-BA-Reference Dealers All quoted tenors N/A Per ISDA 2006 N USD-CD-Reference Dealers All quoted tenors N/A Per ISDA 2006 N USD-CD-Reference Dealers All quoted tenors N/A Per ISDA 2006 N USD-CD-Reference Dealers All quoted tenors N/A Per ISDA 2006 N USD-CD-Reference Dealers All quoted tenors N/A Per ISDA 2006 N USD-CD-Reference Dealers All quoted tenors N/A Per ISDA 2006 N USD-CMS-Reference Banks All quoted tenors N/A Per ISDA 2006 N N Per ISDA 2006 N P	SGD-SONAR-OIS- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
Banks All quoted tenors N/A Per ISDA 2006 N SGD-SOR-Reuters All quoted tenors N/A Per ISDA 2006 N SGD-SOR-Telerate All quoted tenors N/A Per ISDA 2006 N SGD-SOR-VWAP All quoted tenors N/A Per ISDA 2006 N SGD-SOR-VWAP Reference Banks All quoted tenors N/A Per ISDA 2006 N TRY-TRYIBOR- Reuters All quoted tenors N/A Per ISDA 2006 N REuters N/A Per ISDA 2006 N USD-Annual Swap Rate-11:00- All quoted tenors N/A Per ISDA 2006 N BGCANTOR USD-BA-H.15 All quoted tenors N/A Per ISDA 2006 N USD-BA-Reference All quoted tenors N/A Per ISDA 2006 N USD-BA-Reference Dealers N/A Per ISDA 2006 N USD-BMA Municipal Swap All quoted tenors N/A Per ISDA 2006 N USD-CD-H.15 All quoted tenors N/A Per ISDA 2006 N USD-CD-H.15 All quoted tenors N/A Per ISDA 2006 N USD-CD-Reference All quoted tenors N/A Per ISDA 2006 N USD-CD-Reference All quoted tenors N/A Per ISDA 2006 N USD-CD-Reference All quoted tenors N/A Per ISDA 2006 N USD-CD-Reference All quoted tenors N/A Per ISDA 2006 N USD-CD-Reference All quoted tenors N/A Per ISDA 2006 N USD-CD-Reference All quoted tenors N/A Per ISDA 2006 N USD-CMS-Reference Banks All quoted tenors N/A Per ISDA 2006 N Hall quoted tenors N/A Per ISDA 2006 N Hall quoted tenors N/A Per ISDA 2006 N USD-CMS-Reference All quoted tenors N/A Per ISDA 2006 N Hall quoted tenors N/A Per ISDA 2006 N	SGD-SONAR-OIS- VWAP- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
SGD-SOR-Telerate All quoted tenors N/A Per ISDA 2006 N SGD-SOR-VWAP All quoted tenors N/A Per ISDA 2006 N SGD-SOR-VWAP All quoted tenors N/A Per ISDA 2006 N SGD-SOR-VWAP-Reference Banks All quoted tenors N/A Per ISDA 2006 N SGD-SOR-VWAP-Reference Banks All quoted tenors N/A Per ISDA 2006 N SGD-SOR-VWAP-Reference Banks All quoted tenors N/A Per ISDA 2006 N SGD-SOR-VWAP-Reference All quoted tenors N/A Per ISDA 2006 N SGD-SOR-VWAP-Reference All quoted tenors N/A Per ISDA 2006 N SGD-SOR-VWAP-Reference All quoted tenors N/A Per ISDA 2006 N SGD-SOR-VWAP-Reference All quoted tenors N/A Per ISDA 2006 N SGD-SOR-VWAP-Reference All quoted tenors N/A Per ISDA 2006 N SGD-SOR-SEFERENCE All quoted tenors N/A Per ISDA 2006 N SGD-SOR-SEFERENCE All quoted tenors N/A Per ISDA 2006 N SGD-SOR-SEFERENCE All quoted tenors N/A Per ISDA 2006 N SGD-SOR-SEFERENCE All quoted tenors N/A Per ISDA 2006 N SGD-SOR-SEFERENCE All quoted tenors N/A Per ISDA 2006 N SGD-SOR-SEFERENCE All quoted tenors N/A Per ISDA 2006 N SGD-SOR-SEFERENCE All quoted tenors N/A Per ISDA 2006 N SGD-SOR-SEFERENCE All quoted tenors N/A Per ISDA 2006 N SGD-SOR-SEFERENCE All quoted tenors N/A Per ISDA 2006 N SGD-SOR-SEFERENCE All quoted tenors N/A Per ISDA 2006 N SGD-SOR-SEFERENCE All quoted tenors N/A Per ISDA 2006 N SGD-SOR-SEFERENCE All quoted tenors N/A Per ISDA 2006 N SGD-SOR-SEFERENCE All quoted tenors N/A Per ISDA 2006 N SGD-SOR-SEFERENCE All quoted tenors N/A Per ISDA 2006 N SGD-SOR-SEFERENCE All quoted tenors N/A Per ISDA 2006 N SGD-SOR-SEFERENCE All quoted tenors N/A Per ISDA 2006 N	SGD-SOR-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
SGD-SOR-VWAP All quoted tenors N/A Per ISDA 2006 N SGD-SOR-VWAP- Reference Banks All quoted tenors N/A Per ISDA 2006 N TRY-TRYIBOR- Reuters All quoted tenors N/A Per ISDA 2006 N USD-Annual Swap Rate-11:00- All quoted tenors N/A Per ISDA 2006 N BGCANTOR USD-BA-H.15 All quoted tenors N/A Per ISDA 2006 N USD-BA-Reference Dealers All quoted tenors N/A Per ISDA 2006 N USD-BMA Municipal Swap All quoted tenors N/A Per ISDA 2006 N USD-CD-H.15 All quoted tenors N/A Per ISDA 2006 N USD-CD-H.15 All quoted tenors N/A Per ISDA 2006 N USD-CD-Reference All quoted tenors N/A Per ISDA 2006 N USD-CD-Reference All quoted tenors N/A Per ISDA 2006 N USD-CD-Reference All quoted tenors N/A Per ISDA 2006 N USD-CMS-Reference All quoted tenors N/A Per ISDA 2006 N USD-CMS-Reference All quoted tenors N/A Per ISDA 2006 N USD-CMS-Reference All quoted tenors N/A Per ISDA 2006 N USD-CMS-Reference All quoted tenors N/A Per ISDA 2006 N USD-CMS-Reference All quoted tenors N/A Per ISDA 2006 N USD-CMS-Reference All quoted tenors N/A Per ISDA 2006 N USD-CMS-Reference All quoted tenors N/A Per ISDA 2006 N USD-CMS-Reference All quoted tenors N/A Per ISDA 2006 N USD-CMS-Reference All quoted tenors N/A Per ISDA 2006 N	SGD-SOR-Reuters	All quoted tenors	N/A	Per ISDA 2006	N
SGD-SOR-VWAP- Reference Banks All quoted tenors N/A Per ISDA 2006 N TRY-TRYIBOR- Reuters All quoted tenors N/A Per ISDA 2006 N Reuters Reuters N/A Per ISDA 2006 N Reuters Reuters N/A Per ISDA 2006 N Reuters Reuters Reuters N/A Per ISDA 2006 N Reuters Reuters Reuters Reuters Reuters Reuters Reuters Reuters N/A Per ISDA 2006 N Reuters Reute	SGD-SOR-Telerate	All quoted tenors	N/A	Per ISDA 2006	N
Reference Banks All quoted tenors N/A Per ISDA 2006 N TRY-TRYIBOR- Reuters All quoted tenors N/A Per ISDA 2006 N Reuters N/A Per ISDA 2006 N Reterence Dealers N/A Per ISDA 2006 N Reterence Dealers N/A Per ISDA 2006 N Reterence Dealers All quoted tenors N/A Per ISDA 2006 N Reterence Dealers All quoted tenors N/A Per ISDA 2006 N	SGD-SOR-VWAP	All quoted tenors	N/A	Per ISDA 2006	N
Reuters All quoted tenors N/A Per ISDA 2006 N USD-Annual Swap Rate-11:00- All quoted tenors N/A Per ISDA 2006 N BGCANTOR USD-BA-H.15 All quoted tenors N/A Per ISDA 2006 N USD-BA-Reference Dealers All quoted tenors N/A Per ISDA 2006 N USD-BMA Municipal Swap All quoted tenors N/A Per ISDA 2006 N USD-CD-H.15 All quoted tenors N/A Per ISDA 2006 N USD-CD-Reference Dealers All quoted tenors N/A Per ISDA 2006 N USD-CD-Reference All quoted tenors N/A Per ISDA 2006 N USD-CMS-Reference Banks All quoted tenors N/A Per ISDA 2006 N USD-CMS-Reference All quoted tenors N/A Per ISDA 2006 N USD-CMS-Reference All quoted tenors N/A Per ISDA 2006 N Per ISDA 2006 N N Per ISDA 2006 N	SGD-SOR-VWAP- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
Rate-11:00- All quoted tenors N/A Per ISDA 2006 N BGCANTOR USD-BA-H.15 All quoted tenors N/A Per ISDA 2006 N USD-BA-Reference Dealers All quoted tenors N/A Per ISDA 2006 N USD-BMA Municipal Swap All quoted tenors N/A Per ISDA 2006 N Index USD-CD-H.15 All quoted tenors N/A Per ISDA 2006 N USD-CD-Reference Dealers All quoted tenors N/A Per ISDA 2006 N USD-CD-Reference All quoted tenors N/A Per ISDA 2006 N USD-CMS-Reference Banks N/A Per ISDA 2006 N Per ISDA 2006 N N N N N Per ISDA 2006 N N N N N N N N N N N N N	TRY-TRYIBOR- Reuters	All quoted tenors	N/A	Per ISDA 2006	N
USD-BA-Reference Dealers All quoted tenors N/A Per ISDA 2006 N USD-BMA Municipal Swap All quoted tenors N/A Per ISDA 2006 N Index USD-CD-H.15 All quoted tenors N/A Per ISDA 2006 N USD-CD-Reference Dealers All quoted tenors N/A Per ISDA 2006 N USD-CMS-Reference Banks All quoted tenors N/A Per ISDA 2006 N N USD-CMS-Reference Banks All quoted tenors N/A Per ISDA 2006 N	USD-Annual Swap Rate-11:00- BGCANTOR	All quoted tenors	N/A	Per ISDA 2006	N
Dealers All quoted tenors N/A Per ISDA 2006 N USD-BMA Municipal Swap All quoted tenors N/A Per ISDA 2006 N Index USD-CD-H.15 All quoted tenors N/A Per ISDA 2006 N USD-CD-Reference Dealers All quoted tenors N/A Per ISDA 2006 N USD-CMS-Reference Banks All quoted tenors N/A Per ISDA 2006 N USD-CMS-Reference Banks N/A Per ISDA 2006 N	USD-BA-H.15	All quoted tenors	N/A	Per ISDA 2006	N
Municipal Swap All quoted tenors Index USD-CD-H.15 All quoted tenors N/A Per ISDA 2006 N USD-CD-Reference Dealers All quoted tenors N/A Per ISDA 2006 N Per ISDA 2006 N Per ISDA 2006 N USD-CMS-Reference Banks All quoted tenors N/A Per ISDA 2006 N	USD-BA-Reference Dealers	All quoted tenors	N/A	Per ISDA 2006	N
USD-CD-Reference Dealers All quoted tenors N/A Per ISDA 2006 N USD-CMS-Reference Banks All quoted tenors N/A Per ISDA 2006 N Per ISDA 2006 N Per ISDA 2006 N USD-CMS-Reference Banks-ICAP SwapPX All quoted tenors N/A Per ISDA 2006 N	USD-BMA Municipal Swap Index	All quoted tenors	N/A	Per ISDA 2006	N
Dealers All quoted tenors N/A Per ISDA 2006 N USD-CMS-Reference Banks N/A Per ISDA 2006 N USD-CMS-Reference Banks-ICAP SwapPX All quoted tenors N/A Per ISDA 2006 N	USD-CD-H.15	All quoted tenors	N/A	Per ISDA 2006	N
Banks All quoted tenors N/A Per ISDA 2006 N USD-CMS-Reference Banks-ICAP SwapPX All quoted tenors N/A Per ISDA 2006 N	USD-CD-Reference Dealers	All quoted tenors	N/A	Per ISDA 2006	N
Banks-ICAP SwapPX All quoted tenors N/A Per ISDA 2006 N	USD-CMS-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
USD-CMS-Reuters All quoted tenors N/A Per ISDA 2006 N	USD-CMS-Reference Banks-ICAP SwapPX	All quoted tenors	N/A	Per ISDA 2006	N
	USD-CMS-Reuters	All quoted tenors	N/A	Per ISDA 2006	N

Floating Rate Option	Available Tenors	Default Tenor	Default Day Count Fraction	Additional Business Day Locations
USD-CMS-Telerate	All quoted tenors	N/A	Per ISDA 2006	N
USD-CMT-T7051	All quoted tenors	N/A	Per ISDA 2006	N
USD-CMT-T7052	All quoted tenors	N/A	Per ISDA 2006	N
USD-COF11- FHLBSF	All quoted tenors	N/A	Per ISDA 2006	N
USD-COF11-Reuters	All quoted tenors	N/A	Per ISDA 2006	N
USD-COF11-Telerate	All quoted tenors	N/A	Per ISDA 2006	N
USD-CP-H.15	All quoted tenors	N/A	Per ISDA 2006	N
USD-CP-Reference Dealers	All quoted tenors	N/A	Per ISDA 2006	N
USD-Federal Funds- H.15	All quoted tenors	N/A	Per ISDA 2006	N
USD-Federal Funds- H.15-Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
USD-Federal Funds- H.15-OIS- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
USD-Federal Funds- Reference Dealers	All quoted tenors	N/A	Per ISDA 2006	N
USD-Federal Funds- SOFR	All quoted tenors	<u>N/A</u>	<u>Per ISDA 2006</u>	<u>N</u>
USD-FFCB-DISCO	All quoted tenors	N/A	Per ISDA 2006	N
USD-ISDA-Swap Rate	All quoted tenors	N/A	Per ISDA 2006	N
USD-ISDA-Swap Rate-3:00	All quoted tenors	N/A	Per ISDA 2006	N
USD-ISDAFIX3- Swap Rate	All quoted tenors	N/A	Per ISDA 2006	N
USD-ISDAFIX3- Swap Rate-3:00	All quoted tenors	N/A	Per ISDA 2006	N
USD-LIBOR-BBA	All quoted tenors	N/A	Per ISDA 2006	N
USD-LIBOR-BBA- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
USD-LIBOR-ISDA	All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
USD-LIBOR-LIBO	All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
USD-LIBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
USD-OIS-11:00- BGCANTOR	All quoted tenors	N/A	Per ISDA 2006	N
USD-OIS-11:00- LON-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
USD-OIS-11:00-NY- ICAP	All quoted tenors	N/A	Per ISDA 2006	N

Floating Rate Option	Available Tenors	Default Tenor	Default Day Count Fraction	Additional Business Day Locations
USD-OIS-3:00- BGCANTOR	All quoted tenors	N/A	Per ISDA 2006	N
USD-OIS-3:00-NY- ICAP	All quoted tenors	N/A	Per ISDA 2006	N
USD-Prime-H.15	All quoted tenors	N/A	Per ISDA 2006	N
USD-Prime- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
USD-S&P Index- High Grade	All quoted tenors	N/A	Per ISDA 2006	N
USD-SIBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
USD-SIBOR-SIBO	All quoted tenors	N/A	Per ISDA 2006	N
USD-SIFMA Municipal Swap Index	All quoted tenors	N/A	Per ISDA 2006	N
USD-SOFR- COMPOUND	All quoted tenors	N/A	Prior to publication of a supplement to ISDA 2006 including USD- SOFR-COMPOUND, not applicable and thereafter, per ISDA 2006	No
USD-TBILL-H.15	All quoted tenors	N/A	Per ISDA 2006	N
USD-TBILL-H.15- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
USD-TBILL- Secondary Market	All quoted tenors	N/A	Per ISDA 2006	N
USD-TIBOR-ISDC	All quoted tenors	N/A	Per ISDA 2006	N
USD-TIBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
USD-Treasury Rate- ICAP BrokerTec	All quoted tenors	N/A	Per ISDA 2006	N
USD-Treasury Rate- SwapMarker100	All quoted tenors	N/A	Per ISDA 2006	N
USD-Treasury Rate- SwapMarker99	All quoted tenors	N/A	Per ISDA 2006	N
USD-Treasury Rate- T19901	All quoted tenors	N/A	Per ISDA 2006	N
USD-Treasury Rate- T500	All quoted tenors	N/A	Per ISDA 2006	N
ZAR-JIBAR-SAFEX	All quoted tenors	N/A	Per ISDA 2006	N

Definition of CLP-Unidad de Fomento (UF/CLF)

CLP-Unidad de Fomento (UF/CLF)	For any Reset Date, the difference between the value of the <i>unidad o</i>	
	fomento (UF/CLF) as certified by the Chilean Banco Central de Chile	
	for the calendar day preceding such Reset Date and the value of the	

unidad de fomento (UF/CLF) as certified by the Chilean Banco Central
de Chile for such Reset Date.
The Calculation Agent shall convert such difference to the appropriate
annualized percentage based on the terms of the Floating Amount
payable by reference to the CLP- <i>Unidad de Fomento</i> (UF/CLF).
If for any Reset Date there is no published value of the <i>unidad de</i>
fomento (UF/CLF) as certified by the Chilean Banco Central de Chile,
the Calculation Agent shall determine the CLP-Unidad de Fomento
(UF/CLF) for such day.

Definition of MXN-Unidades de Inversión (UDI)

MXN-Unidades de Inversión (UDI)	For any Reset Date, the difference between the value of the <i>unidad de inversión</i> (UDI) as published by the Mexican <i>Banco de México</i> for the calendar day preceding such Reset Date and the value of the <i>unidad de inversión</i> (UDI) as published by the Mexican <i>Banco de México</i> for such Reset Date. The Calculation Agent shall convert such difference to the appropriate annualized percentage based on the terms of the Floating Amount payable by reference to the CLP MXN- <i>Unidades de Inversión</i> (UDI). If for any Reset Date there is no published value of the MXN- <i>Unidades de Inversión</i> (UDI) as certified by the Mexican <i>Banco de México</i> , the Calculation Agent shall determine the CLP MXN-
	Unidades de Inversión (UDI) for such day.

Basis Requirements and Defaults (Excluding Optional Early Termination and Mandatory Early Termination)

Variable	Requirement	Default
Effective Date Business Day		No Adjustment
Convention:		
Termination Date Business Day		No Adjustment
Convention:		
Period End Dates:		Payment Dates
Payment Date Business Day		Modified Following
Convention:		
Linear Interpolation:		Applicable only to long or short stub periods
Designated Maturities for Linear		Tenors quoted next shorter and
Interpolation:		longer than the actual Calculation Period length
Compounding:		Inapplicable
Compounding Business Day	Same as Business Day Convention	паррпсавіе
Convention:	for Period End Dates	
Method of Averaging:	Weighted Average or Unweighted	Unweighted Average
Wichiod of Averaging.	Average of Offweighted	Onweighted Average
Compounding Method:	Straight Compounding, Flat	
	Compounding, Spread Exclusive	
	Compounding	
ISDA MTM Matrix		Applicable (to Mark-to-Market
		Cross Currency Swaps)
Initial Exchange Date:		Effective Date
Initial Exchange Date Business Day		Following
Convention:		
Interim Exchange Date Business		Modified Following

Day Convention:	
Final Exchange Date:	Termination Date
Final Exchange Date Business Day	Modified Following
Convention:	

Definition of USD-SOFR-COMPOUND

From and after the date on which ISDA publishes a supplement to ISDA 2006 containing a definition of USD-SOFR-COMPOUND, per ISDA 2006.

Prior to such date:

"USD-SOFR-COMPOUND" means that the rate for a Reset Date, calculated in accordance with the formula set forth below in this subparagraph, will be the rate of return of a daily compound interest investment (it being understood that the reference rate for the calculation of interest is SOFR). Upon the occurrence of a USD-SOFR-COMPOUND Index Cessation Event, the rate for each day in a Calculation Period occurring on or after the USD-SOFR-COMPOUND Index Cessation Effective Date will be determined as if references to SOFR were references to the rate (inclusive of any spreads or adjustments) formally designated, nominated or recommended as the replacement for SOFR by the Federal Reserve Board or a committee officially endorsed or convened by the Federal Reserve Board for purposes of designating, nominating or recommending a replacement for SOFR (which rate may be produced by the Federal Reserve Bank of New York or another administrator). If no such rate is formally designated, nominated or recommended within one U.S. Government Securities Business Day of the USD-SOFR-COMPOUND Index Cessation Event, the rate for each day in a Calculation Period occurring on or after the USD-SOFR-COMPOUND Index Cessation Effective Date will be determined as if references to SOFR were references to OBFR. If at the time of the USD-SOFR-COMPOUND Index Cessation Event, publication of OBFR has been permanently or indefinitely discontinued, it has been publicly announced that OBFR will be permanently or indefinitely discontinued as of a specific date or there has been a public statement by a regulator or other official sector entity prohibiting the use of OBFR (which statement applies to, but need not be limited to, Swap Transactions, including existing Swap Transactions), then the rate for each day in a Calculation Period occurring on or after the USD-SOFR-COMPOUND Index Cessation Effective Date will be determined as if references to SOFR were references to the FOMC Target Rate.

"USD-SOFR-COMPOUND" will be calculated as follows, and the resulting percentage will be rounded, if necessary, in accordance with the method set forth in Section 8.1(a):

$$\left[\prod_{i=1}^{d_0} \left(1 + \frac{\text{SOFR}_i \times \mathbf{n}_i}{360} \right) - 1 \right] \times \frac{360}{d}$$

where:

"d₀", for any Calculation Period, is the number of U.S. Government Securities Business Days in the relevant Calculation Period;

"i" is a series of whole numbers from one to d_0 , each representing the relevant U.S. Government Securities Business Days in chronological order from, and including, the first U.S. Government Securities Business Day in the relevant Calculation Period;

"SOFR" is the daily Secured Overnight Financing Rate provided by the Federal Reserve Bank of New York, as the administrator of the benchmark, (or a successor administrator) on the Federal Reserve's Website;

"SOFR_i", for any day "i" in the relevant Calculation Period, is a reference rate equal to SOFR in respect of that day as published on or about 8:00 a.m., New York City time, on the U.S. Government Securities Business Day immediately following that day "i". If, by 5:00 p.m., New York City time, on the U.S. Government Securities Business Day immediately following any day "i", SOFR in respect of such day "i" has not been published and a

USD-SOFR-COMPOUND Index Cessation Event has not occurred, then SOFR_i for that day "i" will be SOFR as published in respect of the first preceding U.S. Government Securities Business Day for which SOFR was published on the Federal Reserve's Website;

"n_i" is the number of calendar days in the relevant Calculation Period on which the rate is SOFR_i;

"d" is the number of calendar days in the relevant Calculation Period;

"USD-SOFR-COMPOUND Index Cessation Event" means the occurrence of one or more of the following events:

- (a) a public statement by the Federal Reserve Bank of New York (or a successor administrator of SOFR) announcing that it has ceased or will cease to provide SOFR permanently or indefinitely, provided that, at that time, there is no successor administrator that will continue to provide SOFR;
- (b) the publication of information which reasonably confirms that the Federal Reserve Bank of New York (or a successor administrator of SOFR) has ceased or will cease to provide SOFR permanently or indefinitely, provided that, at that time, there is no successor administrator that will continue to provide SOFR; or
- (c) a public statement by a regulator or other official sector entity prohibiting the use of SOFR that applies to, but need not be limited to, Swap Transactions, including existing Swap Transactions;

"USD-SOFR-COMPOUND Index Cessation Effective Date" means, in respect of a USD-SOFR-COMPOUND Index Cessation Event, the date on which the Federal Reserve Bank of New York (or a successor administrator of SOFR) ceases to publish SOFR or the date as of which SOFR may no longer be used; and

"OBFR" is the daily Overnight Bank Funding Rate as provided by the Federal Reserve Bank of New York, as the administrator of the benchmark, (or a successor administrator) on the Federal Reserve's Website.

"FOMC Target Rate" is the short-term interest rate target set by the Federal Open Markets Committee and published on the Federal Reserve's Website or, if the Federal Open Markets Committee does not target a single rate, the midpoint of the short-term interest rate target range set by the Federal Open Markets Committee and published on the Federal Reserve's Website (calculated as the arithmetic average of the upper bound of the target range and the lower bound of the target range, rounded, if necessary, in accordance with the method set forth in Section 8.1(c))

"Federal Reserve's Website" means the website of the Board of Governors of the Federal Reserve System at http://www.federalreserve.gov, or any Successor Source.

Basis Requirements and Defaults (Optional Early Termination and Mandatory Early Termination)

Setting	Requirement	Default
Optional Early Termination:		Inapplicable
Mandatory Early Termination:		Inapplicable
Option Style:	American, Bermuda, European	
Cash Settlement:	Required for Mandatory Early	Applicable (i.e., Transaction is not
	Termination	"torn up for no value")
Optional Early Termination Date:		Cash Settlement Payment Date
Optional Early Termination Date		Following
Business Day Convention:		
Mandatory Early Termination Date		Modified Following

Business Day Convention:	

Basis Requirements and Defaults (Optional Early Termination—Exercise)

Setting	Requirement	Default
Commencement Date:	American only	
Partial Exercise:		Inapplicable
Multiple Exercise:		Inapplicable
Exercise Business Day:		Banking Day for cash Settlement
		Currency (TARGET Settlement Day
		for EUR)
Latest Exercise Time:	On Expiration Date, the Expiration	Other than Expiration Date, the
	Time	Expiration Time

Basis Requirements and Defaults (Cash Settlement)

Setting	Requirement/Choices	Default
Cash Settlement Amount:		
ISDA Cross Currency Settlement Matrix:		Applicable, if cross currency swap with currency pair included in Matrix
ISDA Settlement Matrix:		Applicable, if single currency swap with Currency included in Matrix
Cash Settlement Valuation Time:		
Cash Settlement Valuation Date:		Two Valuation Business Days before Mandatory/Optional Early Termination Date but one Valuation Business Day before Mandatory/Optional Early Termination Date for MXN and same day for CAD, GBP or DKK with Floating Rate Option of "DKK-CIBOR-DKNA13" or "DKK-CIBOR-DKNA13-Bloomberg"
Valuation Business Day:		Banking Days in locations per the Business Day Location Table, plus additional days required by for fixings under the Floating Rate Option(s)
Cash Settlement Payment Date Business Day Convention:		Following
Cash Settlement Method:	Cash Price Cash Price—Alternate Method Collateralized Cash Price Par Yield Curve—Adjusted Par Yield Curve—Unadjusted Zero Coupon Yield—Adjusted	
Cash Settlement Currency:		For single currency, same as Notional Amount, otherwise as specified in ISDA Master Agreement, or otherwise same as Notional Amount for Fixed Amount

Settlement Rate:	ISDA Source/Other Price	
	Source/Reference Banks	
Cash Settlement Reference Banks:		Fallbacks per ISDA 2006
		Definitions
Quotation Rate:	bid	
	ask	
	mid	
	Exercising Party Pays (Optional	
	Early Termination Only)	

Basis Swaps – CME Cleared

Summary:	This covers single-currency floating-for-floating
	("basis") swaps cleared by Chicago Mercantile
	Exchange Inc. ("CME").
Limitations on Available Selections and Default	The terms under which a Basis Swap/CME Cleared
Settings:	may be traded are as specified in these terms and
	conditions and which incorporate the CME Rulebook,
	in particular Chapters 900 and 901 (and any successor
	provisions) and the CME Cleared IRS Product Scope (or any successor).
	By electing to trade a Basis Swap/CME Cleared,
	participants are representing that they are familiar
	with the CME Rulebook and the limitations on
	transaction terms contained in it.
Incorporated Standards:	This contract description incorporates by reference the
r	CME Rulebook as in effect from time to time.
	The CME Rulebook itself may incorporate certain
	additional standards, such as the 2006 ISDA
	Definitions. Be aware that the timing of effectiveness
	of amendments or supplements to the ISDA
	standards may vary between bilateral and CME
	contracts, since the CME may reserve the right to
7.	select when and how such changes become effective.
Product Type/ISDA OTC Taxonomy:	
ISDA OTC Asset Class:	Interest Rate
ISDA OTC Base Product:	IR Swap
ISDA OTC Sub-Product(s):	Basis
Further Limitations:	Must comply with CME Clearing Requirements.
Terms: Definition Set:	The definition set (e.g., ISDA 2000/ISDA2006) elected
Definition Set.	by, or otherwise binding on, the parties in accordance
	with the CME Rulebook.
Effective Date:	As per the CME Rulebook.
Notional Amount:	An amount in Currency determined by the parties
	subject to limitations in the CME Rulebook.
	This may vary from period to period to the extent
	permitted by the CME Rulebook.
	The CME Rulebook may limit the Currencies and
	Floating Rate Options for which variable notionals are
	permitted.
Currency:	One of the currencies permitted for the relevant
	transaction type per the CME Rulebook.
Business Days:	As per the CME Rulebook, which may require certain
	Business Days be applicable on a per Currency or
	Floating Rate Option Basis and may otherwise limit the
D : D C :	available Business Day locations which can be elected.
Business Day Convention:	As per the CME Rulebook.
Trade Date:	As per the CME Rulebook.
T	Accessed to the control of the contr
Termination Date:	As agreed by the parties, subject to any minimum or
	maximum tenor in the CME Rulebook.

Termination Date Business Day Convention:	As per the CME Rulebook, and thus subject to
·	limitations based on other terms of the transaction.
Stub Periods:	Permitted to the extent allowed under the CME
	Rulebook.
Floating Rate Payer 1 Floating Rate Payer Payment Dates:	As per the CME Rulebook.
Floating Rate Payer 1 Floating Amount:	As per the CME Rulebook.
Floating Rate Payer 1 Floating Rate Option:	As determined by the parties, subject to the CME
	Rulebook, which may provide a more limited list of
	available options for a Currency than does the
	Definition Set.
Floating Rate Payer 1 Designated Maturity:	As per the CME Rulebook, which may provide a more
	limited set of Designated Maturities than does the
	related rate source page.
Floating Rate Payer 1 Spread:	Subject to any minimum or maximum rate and per-
Election Data David Data	period variability permitted by the CME Rulebook.
Floating Rate Payer 1 Reset Dates:	As the per CME Rulebook.
Floating Rate Payer 1 Floating Rate Daycount Fraction:	As per the CME Rulebook.
Floating Rate Payer 1 Compounding:	As per the CME Rulebook.
Floating Rate Payer 1 Averaging Method:	As per the CME Rulebook.
Floating Rate Payer 1 Initial Floating Rate:	As per the CME Rulebook.
Floating Rate Payer 2 Floating Rate Payer Payment Dates:	As per the CME Rulebook.
Floating Rate Payer 2 Floating Amount:	As per the CME Rulebook.
Floating Rate Payer 2 Floating Rate Option:	As determined by the parties, subject to the CME
	Rulebook, which may provide a more limited list of
	available options for a Currency than does the
	Definition Set.
Floating Rate Payer 2 Designated Maturity:	As per the CME Rulebook, which may provide a more
	limited set of Designated Maturities than does the
	related rate source page.
Floating Rate Payer 2 Spread:	Subject to any minimum or maximum rate and per-
Floring Data Data 2 Data 2	period variability permitted by the CME Rulebook.
Floating Rate Payer 2 Reset Dates:	As the per CME Rulebook.
Floating Rate Payer 2 Floating Rate Daycount Fraction:	As per the CME Rulebook.
Floating Rate Payer 2 Compounding:	As per the CME Rulebook.
Floating Rate Payer 2 Averaging Method	As per the CME Rulebook.
Floating Rate Payer 2 Initial Floating Rate	As per the CME Rulebook. As determined by the parties.
Floating Rate 1 Floating Rate Payer: Floating Rate 2 Floating Rate Payer	
Payer for Additional Payment/Fees:	As determined by the parties. As determined by the parties, subject to limitation in the
	CME Rulebook.
Additional Payment/Fees:	As determined by the parties, subject to limitation in the CME Rulebook.
Payment Date for Additional Payment/Fees	As determined by the parties, subject to limitation in the
2 agricult Date 101 11dditional 1 agricult 1 cos	CME Rulebook.

Basis Swaps – LCH Cleared

Summary:	This covers single-currency floating-for-floating
Summary.	("basis") cleared by LCH.Clearnet ("LCH").
Limitations on Available Selections and Default	The terms under which a Basis Swap/LCH Cleared may
Settings:	be traded are as specified in these terms and conditions
~~~~ <u>~</u>	and which incorporate the LCH Rulebook, in particular
	Schedule 4A (or any successor provisions).
	By electing to trade a Basis Swap/LCH Cleared,
	participants are representing that they are familiar
	with the LCH Rulebook and the limitations on
	transaction terms contained in it.
Incorporated Standards:	This contract description incorporates by reference the
•	LCH Rulebook as in effect from time to time.
	The LCH Rulebook itself may incorporate certain
	additional standards, such as the 2000 ISDA Definitions
	and 2006 ISDA Definitions. Be aware that the timing
	of effectiveness of amendments or supplements to
	the ISDA standards may vary between bilateral and
	LCH contracts, since the LCH may reserve the right
	to select when and how such changes become
	effective.
Product Type/ISDA OTC Taxonomy:	
ISDA OTC Asset Class:	Interest Rate
ISDA OTC Base Product:	IR Swap
ISDA OTC Sub-Product:	Basis
Further Limitations:	Must comply with LCH Clearing Requirements.
Terms:	
Definition Set:	The definition set (e.g., ISDA 2000/ISDA2006) elected
	by, or otherwise binding on, the parties in accordance
N	with the LCH Rulebook.
Notional Amount:	An amount in Currency determined by the parties
	subject to limitations in the LCH Rulebook.
	This may vary from period to period to the extent
	permitted by the LCH Rulebook.
	The LCH Rulebook may limit the Currencies and
	Floating Rate Options for which variable notionals are permitted.
Curranav	
Currency:	One of the currencies permitted for the relevant transaction type per the LCH Rulebook.
Trade Date:	As per the LCH Rulebook.
Effective Date:	As per the LCH Rulebook.  As per the LCH Rulebook.
Termination Date:	As agreed by parties, subject to any minimum or
Tommulon Duc.	maximum tenor in the LCH Rulebook.
Payer for Additional Payment/Fees:	As determined by the parties, subject to limitations in
2 47 222 1 144 110 114 1 47 110 114 1 000.	the LCH Rulebook.
Additional Payment/Fees:	As determined by the parties, subject to limitations in
	the LCH Rulebook.
Payment Date for Additional Payment/Fees:	As determined by the parties, subject to limitations in
2 a, mont Date 101 Haditional Laymond 1 cos.	the LCH Rulebook, which may limit the earliest or
	latest day on which such fees may be paid based on
	Currency or other factors.

Business Days:	As per the LCH Rulebook, which may require certain
	Business Days be applicable on a per Currency or
	Floating Rate Option Basis and may otherwise limit the
	available Business Day locations which can be elected.
Business Day Convention:	As per the LCH Rulebook.
Stub Periods:	Permitted to the extent allowed under the LCH
	Rulebook.
Floating Rate Payer 1:	As determined by the parties.
Floating Rate Payer 1 Payment Dates:	As per the LCH Rulebook.
Floating Rate Payer 1 Compounding Dates:	As per the LCH Rulebook.
Floating Rate Payer 1 Floating Rate Option:	As determined by the parties, subject to LCH Rulebook,
	which may provide a more limited list of available
	options for a Currency than does the Definition Set.
Floating Rate Payer 1 Designated Maturity:	As per the LCH Rulebook, which may provide a more
	limited set of Designated Maturities than does the
	related rate source page.
Floating Rate Payer 1 Spread:	Subject to any minimum or maximum rate and per-
	period variability permitted by the LCH Rulebook.
Floating Rate Payer 1 Reset Dates:	As the per LCH Rulebook.
Floating Rate Payer 1 Floating Rate Daycount Fraction:	As per the LCH Rulebook.
Floating Rate Payer 2:	As determined by the parties.
Floating Rate Payer 2 Payment Dates:	As per the LCH Rulebook.
Floating Rate Payer 2 Compounding Dates:	As per the LCH Rulebook.
Floating Rate Payer 2 Floating Rate Option:	As determined by the parties, subject to LCH Rulebook,
	which may provide a more limited list of available
	options than are available for a Currency than does the
	Definition Set.
Floating Rate Payer 2 Designated Maturity:	As per the LCH Rulebook, which may provide a more
	limited set of Designated Maturities than does the
	related rate source page.
Floating Rate Payer 2 Spread:	Subject to any minimum or maximum rate and per-
S and a system of the system o	period variability permitted by the LCH Rulebook.
Floating Rate Payer 2 Reset Dates:	As the per LCH Rulebook.
Floating Rate Payer 2 Floating Rate Daycount Fraction:	As per the LCH Rulebook.
Negative Interest Rates:	As per the LCH Rulebook, which may require use of a
	single method.
Withholding and Tax:	As per the LCH Rulebook.
Governing Law:	As per the LCH Rulebook, which may dictate the law
Covering Law.	applicable to the Transaction.
L	applicable to the Transaction.

Summary:	This covers uncleared BCOM WTI Crude Oil Exotic Options ("Exotic Options").
Incorporated Standards:	This contract description incorporates by reference the following industry standard documentation and standards:
	(a) 2005 ISDA Commodity Derivatives Definitions ("Commodity Definitions");
	(b) the 1998 FX and Currency Option Definitions, as amended and supplemented from time to time, including the 2005 Barrier Option Supplement to the 1998 FX and Currency Option Definitions (the "1998 Definitions"); and
	(c) ISDA OTC Taxonomies.
Limitations on Available Selections and Default Settings:	Each Exotic Option traded is bespoke and the terms agreed between the Buyer and Seller. All option strategies result in call options and/or put options executed with the following strategies traded as agreed between the parties:
	Knockout, Double Knockout, Knockin, One Touch, No Touch, Double One Touch, Double No Touch
Product Type/ISDA OTC Taxonomy:	
ISDA OTC Asset Class:	Commodity
ISDA OTC Base Product:	Energy
ISDA OTC Sub-Product(s):	Oil
Further Limitations:	Exotic
Terms:	
Trade Date:	The date the transaction is agreed to between the parties and becomes legally binding on the parties
Commodity:	As specified by the parties from among the Available Commodities.
Option Style:	As specified by the parties from among the Available Option Styles.
Option Type:	As specified by the parties from among the Available Option Types.
Buyer:	As specified by the parties.
Seller:	As specified by the parties.
Commodity Reference Price:	As specified by the parties from among the Available Commodity Reference Prices.

Business Day:	As specified by the parties.
Business Day Convention:	As specified by the parties.
Pricing Date(s):	As specified by the parties.
Strike Price:	As specified by the parties.
Expiration Date:	As specified by the parties.
Expiration Time:	As specified by the parities.
Latest Exercise Time:	As specified by the parties.
Automatic Exercise:	As specified by the parties.
Business Days for Exercise Date:	For American Options, as specified by the parties.
Cash Settlement:	Applicable
Settlement Dates:	As specified by the parties from among the Available Business Day Convention.
Calculation Agent:	As agreed by the parties.
Settlement Amount:	In the case of a digital or binary option, as specified by the parties.
Settlement Date:	As specified by the parties.
Valuation Date:	As specified by the parties.
Averaging Dates:	As specified by the parties.
Premium:	As specified by the parties.
Premium Payment Date:	As specified by the parties.
Barrier Event:	As specified by the parties.
Calculation Agent:	As specified by the parties.
Market Disruption Events:	Unless otherwise specified by the parties, per the Commodity Definitions.
Disruption Fallbacks:	Unless otherwise specified by the parties, per the Commodity Definitions.

#### Exotic Option Available Option Type

Knockout			
Double Knockout			
Knockin			
One Touch			
No Touch			
Double One Touch			
Double No Touch	_	_	

## Exotic Option Available Option Style

Style	Description	Default
American	Can be exercised on any Exercise	Yes
	Business Day from and including	

	the Commencement Date to and	
	including the Expiration Date.	
European	Can be exercised only on the	No
	Expiration Date.	

## Exotic Option Available Commodity Reference Prices

Abbr	Name
BCOMCL	BCOM WTI Crude Oil ER
BCOMCLC	BCOM WTI Crude Oil Capped ER

# BRL CDI Deliverable and Non-Deliverable Interest Rate Swap Contracts and Physically-Settled Swaptions

G	TI.'
Summary:	This covers BRL CDI Deliverable and Non-Deliverable
	Interest Rate Swap Contracts and Physically-Settled Swaptions Thereon (the "Contracts").
	Non-Deliverable Contracts are paid in USD, and
	Deliverable Contracts are paid in BRL.
Limitations on Available Selections and Default	The terms under which the Contracts may be traded are
Settings:	as specified in these terms and conditions and in the
Settings.	attached tables.
	For amounts or rates, the relevant term cannot be less
	than the specified Minimum, must represent an even
	Increment and cannot exceed the Maximum; for a date,
	the date cannot be earlier than Earliest nor later than
	Latest.
	For Business Days, the defaults shall be the locations
	specified.
	The parties may add additional locations from the
	Available Locations and may eliminate some or all of
	the other locations, so long as there is at least one
	location in which payment may be made. For these
	purposes "TARGET" is considered a location.
	In many cases there are normal "vanilla" terms on which
	the parties will transact. These are shown as "Default"
	and will apply unless the parties vary them.
Incorporated Standards:	This contract description incorporates by reference the
	following industry standard documentation and
	standards:
	(a) 2006 ISDA Definitions (b) ISDA OTC Taxonomies
	(c) FpML Location Codes
	(d) the Recommended EMTA-ISDA Market Practice for
	BRL CDI Non-Deliverable Interest Rate Swap
	Transactions (Amended March 13, 2009) ("BRL CDI
	Best Practices")
	(e) the EMTA BRL/USD NDF Template dated May 17,
	2006 (the "NDF Template")
	For convenience, certain terms are mapped to their
	FpML 5.5 equivalent.
Product Type/ISDA OTC Taxonomy:	
ISDA OTC Asset Class:	Interest Rate
ISDA OTC Base Product:	IR Swap
ISDA OTC Sub-Product:	Exotic
Further Limitations:	None
Terms:	TO 1. CO 11 d
Effective Date ("effectiveDate"):	The date specified by the parties, adjusted in accordance
	with any applicable Business Day Convention.
	The parties may express the unadjusted Effective Date as
	a number of Business Days or Banking Days from the
Effective Date Duciness De	Trade Date ("relativeEffectiveDate").
Effective Date Business Days:	As specified by the parties from among the Available
	Business Days.

Effective Date Business Day Convention:	As specified by the parties from among the Available
	Business Day Conventions.
Termination Date ("terminationDate"):	The date specified by the parties, adjusted in accordance with any applicable Business Day Convention.  The parties may express the unadjusted Termination Date as a number of days, months or years from the Effective Date ("relativeTerminationDate").
Termination Date Business Days:	In the case of a Non-Deliverable Contract, USNY and the BR Business Day selected by the parties, unless there is an Unscheduled Holiday (as defined in the NDF Template) following the Trade Date, in which case USNY only.  In the case of a Deliverable Contract, the BR Business Day selected by the parties.
Tamainatian Data Business Day Commetican	
Termination Date Business Day Convention:  Fx Factor:	Following In the case of a Non-Deliverable Contract, rate determined in accordance with the NDF Template, treating the Business Day preceding the day of calculation of the relevant Fixed Amount or Floating Amount as the "Valuation Date" thereunder. (Under the NDF Template, this will result in use of the BRL PTAX (BRL09) rate in the first instance.) In the case of a Deliverable Contract, 1.0.
Fixed Amount:	
Fixed Rate Payer ("payerPartyReference"):	As specified by the parties.
Notional Amount ("notional Amount"):	The Trade Date Present Value Notional Amount specified by the parties.  If the parties do not specify a Notional Amount or a Trade Date Present Value Notional Amount but specify a Termination Date Future Value Notional Amount, then the Notional Amount will be the Trade Date present value of the Termination Date Future Value Notional Amount discounted at the Fixed Rate.
Future Value Notional Amount:	An amount in BRL as specified by the parties (or determined based on the Trade Date Present Value Notional Amount specified by them), subject to the Minimum Notional Amount and Increment specified below.
Trade Date Present Value Notional Amount:	An amount in BRL as specified by the parties; such amount shall be subject to the Minimum Notional Amount and Increment implied by the Future Value Notional Amount.
Fixed Rate:	As specified by the parties.
Fixed Amount:	Notwithstanding anything to the contrary contained in the 2006 ISDA Definitions, the Fixed Amount shall equal:  Votional Amount $\times$ (1 + Fixed Rate)  Calculation Days/252
Calculation Days:	As defined in the BRL CDI Best Practices.
Fixed Rate Payment Dates ("unadjustedPaymentDate"):	The Termination Date.
Day Count Fraction:	1/1
Floating Amount:	
Floating Rate Payer ("payerPartyReference"):	As specified by the parties.
Currency Amount ("notionalAmount"):	Same as the Fixed Rate Payer Payment Amount.

Floating Amount:	Notwithstanding anything to the contrary contained in
	the 2006 ISDA Definitions, the Floating Amount shall
	equal:
	Notional Amount $\times$ Floating Rate
Payment Dates ("unadjustedPaymentDate"):	The Termination Date.
Floating Rate:	Notwithstanding anything to the contrary contained in the 2006 ISDA Definitions, the Floating Amount shall equal:
$FX Factor \times \prod_{j=1}^{N} (1 + Relevant Rate_j)^{1/252}$	
	Where: N=number of Reset Dates in the Calculation Period j=a particular Reset Date Relevant Rate=the Relevant Rate for instance j of Reset Date
Relevant Rate:	CDI-Rate (as defined in the attachment).
Designated Maturity ('indexTenor"):	As specified by the parties from among the available tenors.
Spread:	Zero
Day Count Fraction:	1/1
Reset Dates ("resetDate"):	Each Scheduled Reset Date (as defined in the BRL CDI Best Practices).
Reset Dates Business Days:	As specified by the parties from among the Available BR Business Days.
Floating Rate Payment Dates:	The Termination Date.
Calculation Agent:	As agreed by the parties.
Swaption Terms:	
Option Style:	European
Seller:	As specified by the parties.
Buyer:	As specified by the parties.
Seller's Agent: Premium:	As specified by the parties.  In the case of a Non-Deliverable Contract, an amount in
Premium.	USD specified by the parties.  In the case of a Deliverable Contract, an amount in USD
	specified by the parties.
Premium Payment Date:	As specified by the parties.
Business Day Convention for Premium Payment Dates:	Following
Business Days for Payments:	In the case of a Non-Deliverable Contract, USNY and the BR Business Day selected by the parties, unless there is an Unscheduled Holiday (as defined in the NDF Template) following the Trade Date, in which case USNY only.  In the case of a Deliverable Contract, the BR Business Day selected by the parties.
Exercise Business Days:	As specified by the parties from among the BR Business Days.
Swaption Procedure for Exercise:	24,0
General:	The parties may enter into swaptions with respect to which a BRL CDI Swap is the Underlying Swap Transaction.
Expiration Date:	As specified by the parties.
Expiration Time:	As specified by the parties.
Partial Exercise:	As specified by the parties.

Minimum Notional Amount:	As specified by the parties and expressed as Termination
	Date Future Value Notional Amount.
Maximum Notional Amount:	As specified by the parties and expressed as Termination
	Date Future Value Notional Amount.
Integral Multiple:	As specified by the parties and expressed as Termination
	Date Future Value Notional Amount.
Automatic Exercise:	As specified by the parties.
Threshold:	As specified by the parties if Automatic Exercise is
	applicable.
Fallback Exercise:	As specified by the parties (if required).
G d G d A	
Swaption Settlement Terms:	
Physical Settlement:	Applicable

## BRL CDI Currencies and Required Business Days

Three Letter Currency Code	Currency Name (ISDA)	Basic Business Day Locations
(ISDA/ISO)		For Currency (FpML Codes)
USD	United States Dollars	USNY
BRL	Brazilian Reai	Any of BR{SP, RJ, BR} and not
		otherwise declared a financial
		market holiday by the BM&F

## BRL CDI Available Business Day Conventions

ISDA Name
Following
Modified/Modified Following
No Adjustment
Preceding
FRN Convention/Eurodollar Convention

#### **BRL CDI Floating Rate Options**

BRL-CDI-CETIP:	For any Reset Date, the Overnight Brazilian Interbank Deposit
	Rate Annualized, known as the average ("Media") of the
	DIOVER- EXTRA Group as published by CETIP ( <i>Câmara de</i>
	Custódia e Liquidação) (the "Overnight CDI Rate") for such
	date; provided that (i) such rate is published not later than 12:00
	p.m. on the Brazil Business Day next following such Reset Date
	and (ii) any adjustments made by CETIP to such rate at any time
	later than the end of the business day on such Reset Date shall
	not be taken into account.
	If for any Reset Date there is no published Overnight CDI Rate
	(including as a result of the proviso above), CDI for the relevant
	Reset Date will be the overnight deposit rate published for such
	date by the BM&F in accordance with its rules (see
	http://www.bmf.com.br/portal/pages/boletim1/bd_manual/indica
	doreFinanceiros1.asp, or any successor page). If the BM&F
	does not publish such a rate for such date, CDI for the relevant
	Reset Date shall be determined jointly by the parties. If the
	parties do not agree on a determination of such rate within one
	Brazil Business Day following the relevant Reset Date, CDI
	shall be determined through a CDI Reference Dealer Poll as
	described herein. If CDI for a Reset Date is not so determined

	by a CDI Reference Dealer Poll, BRL-CDI-Reference Dealers
	shall apply.
BRL-CDI-Reference Dealers:	If applicable for a Reset Date as set forth above, the Calculation
	Agent shall conduct up to four dealer polls commencing on the
	Brazil Business Day following the relevant Reset Date, in each
	case by requesting each of the CDI Reference Dealers to
	provide a quotation of the CDI. If at least four such quotations
	are obtained from CDI Reference Dealers in any such poll, the
	highest and lowest quotations will be disregarded and CDI for
	the relevant Reset Date will equal the arithmetic mean of the
	remaining quotations. If fewer than four such quotations are
	obtained from a poll, the Calculation Agent shall conduct
	additional such polls until four such quotations are obtained in
	any poll; provided that the Calculation Agent shall not conduct
	more than four polls in the aggregate (with not more than two
	polls on any day and with such polls conducted over not more
	than two Brazil Business Days). If four quotations are not
	obtained from any of such four polls, CDI shall CDI shall not be
	determined by a CDI Reference Dealer Poll.
CDI Reference Dealers:	At least six and not more than eight leading onshore dealers in
	the CDI market selected by the Calculation Agent.

## BRL CDI Notionals

Currency	Minimum	Increment	Maximum	Default
	(expressed as	(expressed as		
	Termination Date	Termination Date		
	Future Value	Future Value		
	Notional Amount)	Notional Amount)		
BRL (Termination	BRL 5,000,000	BRL 5,000,000	N/A	N/A
Date Future Value				
Notional Amount)				
BRL (Trade Date	As implied by Termination Date Future Value Notional Amount			
Present Value				
Notional Amount)				
USD	As implied by BRL Termination Date Future Value Notional Amount			

# **Bullion Options**

Summary:	This covers uncleared bullion options ("Bullion
	Options").
Limitations on Available Selections and Default	The terms under which Bullion Options may be traded
Settings:	are shown below and in the attached tables.
Incorporated Standards:	This contract description incorporates by reference the
	following industry standard documentation and
	standards:
	2000 ISDA Definitions
	2005 ISDA Commodity Derivatives Definitions
	("Commodity Definitions"), including Sub-Annex B
Due do at Torre /ICD & OTC Torres or con-	thereto.
Product Type/ISDA OTC Taxonomy:	Commo liter
ISDA OTC Asset Class:	Commodity
ISDA OTC S 1 Post 1	Metals
ISDA OTC Sub-Product:	Precious
ISDA OTC Scales and transcript	Option
ISDA OTC Settlement type:	Cash or Physical
Further Limitations:	None
Tends Detail	As agreed by the neutice
Trade Date:	As agreed by the parties.
Bullion:	As specified by the parties from among the Available
Number of Ounces:	Bullion.
Number of Ounces:	As specified by the parties. For any type of Bullion, the
	meaning of "Ounce" will be as specified for that Bullion in the list of Available Bullion unless otherwise agreed
	by the parties.
Bullion Option Style:	As specified by the parties from among the Available
Bullion Option Style.	Bullion Option Styles.
Bullion Option Type:	As specified by the parties from among the Available
Bullion Option Type.	Bullion Option Types.
Bullion Option Seller:	As specified by the parties.
Bullion Option Buyer:	As specified by the parties.
Bullion Strike Price:	As specified by the parties as a number of units of the
Bullion Surke Trice.	one of the Available Currencies.
Bullion Premium:	As specified by the parties as a number of units of the
	one of the Available Currencies.
Bullion Premium Payment Date:	As specified by the parties.
Bullion Premium Payment Date Business Days	Per the Available Currencies, plus such additional
, , , , , , , , , , , , , , , , , , ,	Business Days as the parties specify.
Bullion Premium Payment Date Business Day	As specified by the parties from among the Available
Convention:	Business Day Conventions or otherwise per the
	Commodity Definitions.
Bullion Business Day:	Shall have the meaning specified in the Commodity
_	Definitions, save that the reference to "New York"
	therein shall be deemed to be a reference to the relevant
	financial center for the Applicable Currency in which the
	Bullion Strike Price is denominated.
Method of Averaging:	For Asian Options, as specified by the parties or
	otherwise per the Commodity Definitions.
Procedure for Exercise:	

D 11: E : D : 1	E A ' C(1 D II' O (' 1 ' 1 C
Bullion Exercise Period:	For an American Style Bullion Option, the period of
	days and the times on such days specified by the parties.
	For any other Bullion Option Style, the times on the
	Expiration Date or Potential Exercise Date specified by
	the parties.
Bullion Potential Exercise Dates:	For a Bermuda Style Bullion Option, the days specified
	by the parties.
Bullion Expiration Date:	As specified by the parties.
Bullion Expiration Time:	For a European Style Bullion Option, as specified by the parties.
Bullion Settlement Date:	In accordance with Section 10.4(b)(xvii) of the
	Commodity Definitions, unless specified by the parties.
Seller's Notice Information:	As specified by the Seller.
Automatic Exercise:	Applicable, unless otherwise specified by the parties.
In-the-Moniness for Automatic Exercise:	In the case of a Bullion Option for which Automatic
	Exercise is, or is deemed to be, applicable, and to which
	Settlement by Delivery is applicable, one percent of the
	Bullion Strike Price (as specified in Section
	10.4(c)(ii)(B)(x) of the Commodity Definitions) or such
	other amount as specified by the parties.
Price Source for Automatic Exercise:	In the case of a Bullion Option for which Automatic
	Exercise is, or is deemed to be, applicable, and to which
	Settlement by Delivery is applicable, the Seller's bid or
	offer price (as specified in Section 10.4(c)(ii)(B) of the
	Commodity Definitions) unless otherwise specified by
	the parties.
Written Confirmation:	As specified by the parties.
Settlement:	As specified by the parties from among the Available
	Settlement Types; provided, however, that Cash
	Settlement will only be available for Available
	Currencies for which it is specified as such.
Additional Provisions for Tax:	None, unless specified by the parties in accordance with
	Section 10.11 of the Commodity Definitions.
Market Disruption:	, and the second
Market Disruption Events:	Unless otherwise specified by the parties, per the
	Commodity Definitions.
Additional Market Disruption Events:	As specified by the parties.
Disruption Fallbacks:	Unless otherwise specified by the parties, per the
	Commodity Definitions.
Fallback Reference Price:	None, unless specified by the parties.
Maximum Days of Disruption:	Unless otherwise specified by the parties, per the
	Commodity Definitions.
Provisions Relating to Cash Settlement:	,
Commodity Reference Price:	As specified by the parties from among the Available
	Commodity Reference Price.
Bullion Transaction Settlement Date:	As specified by the parties.
Provisions Relating to Settlement by Delivery:	, , , , , , , , , , , , , , , , , , , ,
Delivery Location:	Per the Delivery Loco specified in the Available Bullion
	below.
Consequences of Bullion Settlement Disruption Events:	Cancellation and Payment unless the parties agree that
1	Negotiation is applicable.
Miscellaneous:	S
Discharge and Termination:	Section 10.4(c)(iv) of the Commodity Definitions will
	apply if specified by the parties, unless the Bullion
	Option Transaction is an Allocated Transaction.
	Option Transaction is an Allocated Transaction.

Novation Netting:	For Bullion Options subject to Settlement by Delivery
	and is not an Allocated Transaction, as agreed by the
	parties on a "Type of Obligation" or "Matched Pair"
	basis.
Calculation Agent:	As agreed by the parties.

#### Bullion Option Available Currencies and Required Business Days

Three Letter Currency Code	Currency Name (ISDA)	Basic Business Day	Available Settlement
(ISDA/ISO)		Locations For Currency	Type
		(FpML Codes)	
AUD	Australian Dollar	AUSY	Physical Only
CHF	Swiss Franc	CHZU	Physical Only
EUR	Euro	EUTA	Cash or Physical
GBP	Sterling	GBLO	Cash or Physical
JPY	Japanese Yen	JATO	Physical Only
USD	United States Dollars	USNY	Cash or Physical

#### Bullion Options Available Bullion Business Day Conventions

ISDA Name
Following
Modified/Modified Following
Nearest
Preceding

#### Bullion Option Available Bullion Option Style

	ISDA Name	
American		
European		
Bermuda		

#### Bullion Option Available Bullion Option Type

	ISDA Name	
Bullion Put Option		
Bullion Call Option		
Bermuda		

#### Bullion Options Available Bullion

Metal	Ounce	Delivery Loco/Rules
Gold	Fine troy ounce	London/LBMA
Palladium	Troy ounce	Zurich/LPPM or London/LPPM
Platinum	Troy ounce	Zurich/LPPM or London/LPPM
Silver	Troy ounce	London/LBMA

The following Commodity Reference Prices are as defined in Sub-Annex A to the Commodity Definitions.

ISDA Definition
GOLD-A.M. FIX
GOLD-P.M. FIX
PALLADIUM-A.M. FIX

PALLADIUM-P.M. FIX	
PLATINUM-A.M. FIX	
PLATINUM-P.M. FIX	
SILVER-FIX	

For any Available Currency other than USD and any Bullion Option to which Cash Settlement is applicable, the Commodity Reference Price shall be per Sub-Annex A, save that the reference to U.S. Dollars shall be replaced by a reference to the relevant Available Currency.

# CDS - ABX Indices (Broad Based) Contracts

a	TEL: 1: 1 C 1: 1 11 1 A DAY
Summary:	This covers credit default swaps on broad-based ABX
	indices ("CDS – ABX Indices (Broad Based)
	Contracts").
Limitations on Available Selections and Default	The terms under which CDS – ABX Indices (Broad
Settings:	Based) Contracts may be traded are shown below or in
	the attached table(s) or the Relevant Annexes
	promulgated by the index sponsor and referenced below
	or in the attached table(s), as such Relevant Annexes
	may be amended from time to time by the Index
	Sponsor.
	NO ABX INDEX WILL BE TRADED ON THE SEF
	ONCE IT HAS CEASED TO BE A BROAD BASED
	INDEX UNDER CFTC REGULATIONS.
Incorporated Standards:	This contract description incorporates by reference the
<b>F</b>	following industry standard documentation and
	standards:
	(a) 2003 ISDA Credit Derivatives Definitions, as
	published by the International Swaps and Derivatives
	Association, Inc. (the "Credit Derivatives Definitions"),
	NOT including supplements thereto; and
	(b) the ABX Transactions Standard Terms Supplement,
	as published by CDS IndexCo LLC on July 19, 2006
	(the "ABX Standard Terms").
Product Type/ISDA OTC Taxonomy:	(the ABA Standard Terms ).
ISDA OTC Asset Class:	Credit
ISDA OTC Asset Class.  ISDA OTC Base Product:	Index
ISDA OTC Sub-Product:	ABX
ISDA OTC Sub-Floduct.  ISDA OTC Transaction type:	ABX.HE
Further Limitations:	None
Terms:	None
Index:	The ABX Index selected by the parties from among the
index.	Available ABX Indices.
	NO ABX INDEX WILL BE TRADED ON THE SEF
	ONCE IT HAS CEASED TO BE A BROAD BASED
	INDEX UNDER CFTC REGULATIONS.
Annex Date:	As specified for the applicable Index on the list of
Allica Date.	Available ABX Indices.
Trade Date:	As agreed by the parties.
Effective Date:	The Trade Date (unless otherwise specified by the
Effective Date.	parties).
Scheduled Termination Date:	The "Legal Final Maturity Date of the Index" specified
Scheduled Termination Date:	in the Relevant Annex.
Floating Data Davor	As specified by the parties.
Floating Rate Payer:	
Fixed Rate Payer:	As specified by the parties.
Aggregate Floating Rate Payer Calculation Amount:	An amount is USD specified by the parties.
Fixed Rate:	A number of basis points equal to the "Applicable
	Coupon" as specified for the applicable Index on the
	Relevant Annex.
Initial Payment Payer:	As selected by the parties.

Initial Payment Amount:	As specified by the parties. Notwithstanding anything to
	the contrary contained in the ABX Standard Terms, the
	Initial Payment Amount shall be paid by the Initial
	Payment Payer on the date that is three Business Days
	following the Trade Date, unless otherwise specified by
	the parties.

#### Available ABX Indices for CDS - ABX Indices (Broad Based) Contracts

Index	Relevant Annex
ABX.HE.A.06-1	http://www.markit.com/assets/en/docs/products/data/indices/credit-index-annexes/ABX.HE.A.06-1.pdf
ABX.HE.AA.06-1	http://www.markit.com/assets/en/docs/products/data/indices/credit-index-annexes/ABX.HE.AA.06-1.pdf
ABX.HE.AAA.06-1	http://www.markit.com/assets/en/docs/products/data/indices/credit-index-annexes/ABX.HE.AAA.06-1.pdf
ABX.HE.AA.06-2	http://www.markit.com/assets/en/docs/products/data/indices/credit-index-annexes/ABX.HE.AA.06-2.pdf
ABX.HE.AAA.06-2	http://www.markit.com/assets/en/docs/products/data/indices/credit-index-annexes/ABX.HE.AAA.06-2.pdf
ABX.HE.AAA.07-1	http://www.markit.com/assets/en/docs/products/data/indices/credit-index-annexes/ABX.HE.AAA.07-1.pdf
ABX.HE.AAA.07-2	http://www.markit.com/assets/en/docs/products/data/indices/credit-index-annexes/ABX.HE.AAA.07-2.pdf
ABX.HE.PENAAA.06-2	http://www.markit.com/assets/en/docs/products/data/indices/credit-index-annexes/ABX.HE.PENAAA.06-2.pdf
ABX.HE.PENAAA.07-1	http://www.markit.com/assets/en/docs/products/data/indices/credit-index-annexes/ABX.HE.PENAAA.07-1.pdf
ABX.HE.PENAAA.07-2	http://www.markit.com/assets/en/docs/products/data/indices/credit-index-annexes/ABX.HE.PENAAA.07-2.pdf

NO ABX INDEX WILL BE TRADED ON THE SEF ONCE IT HAS CEASED TO BE A BROAD BASED INDEX UNDER CFTC REGULATIONS.

#### CDS Index Contract – Emerging Markets Swaps and Swaptions

Summary:	This covers "CDS Index Contract – Emerging Markets
<i>y</i> -	Swaps and Swaptions" contracts $-i.e.$ , an agreement to
	buy or sell protection on a broad-based basket of
	emerging markets sovereign entities.
Index:	CDX.EM: Series 12 through current, so long as such
	Index is not a narrow-based Index.
Currency:	USD
Quoting Convention and Minimum Increment:	As agreed by counterparties.
Minimum Size:	As agreed by counterparties.
Trading Conventions:	Buy = Buy Protection, the buyer of protection pays a
	premium to the seller in case of a credit event
	occurring. Credit events include Bankruptcy and Failure
	to Pay.
	Sell = Sell Protection, the seller of protection receives
	the premium payments from the protection buyer. The
	Seller owns the credit risk of the instrument.
Comment Comment	Investment Grade indices are traded on spread.
Swap Conventions:	Fixed coupon payments are calculated at a spread of 500 bps and exchanged on a quarterly basis.
Swap Tenor:	As agreed by the parties, subject to Applicable Law.
Effective Date:	The date on which parties begin calculating accrued
Effective Date.	obligations such as fixed payments. Also known as the
	start date of the swap.
Maturity Date:	The final date on which the obligations no longer
	accrue and the final payment occurs.
Trade Types:	The following swap types may be executed on tpSEF
	Inc.:
	Outrights
	Roll Trades
	Curve Trades
Settlement:	Contingent payment - Payments related to credit event
	settlement will be determined pursuant to the 2009
	ISDA Credit Derivatives Determination Committees
	and Auction Settlement Supplement (i.e., the Big Bang
	and Little Bang Protocols).
	Fixed Quarterly cash payments - reflected in basis points and paid by the protection buyer to the protection
	seller.
	Upfront payment - The upfront payment is a portion of
	the payments, expressed in percentage points of the
	notional, which is present valued and paid immediately
	to the seller.
Swaptions on the Above:	
Swaptions:	The SEF is also listing Physically-Settled Swaptions on
	the Index on the terms described herein.
Swaption Option Style:	European; the Swaptions may be exercised only on
	expiration.
Swaption Tenor:	The tenor of the Swaptions will be selected by the
	parties and will be no shorter than three months and no
	longer than three months less than the Swap Tenor.

# CDS Index Contract – Emerging Markets Swaps and Swaptions

Settlement:	The Swaption will be Physically Settled and, if
	exercised, will result in the parties entering into a swap
	on the Index on the terms described herein.
ISDA Definitions (2003 v. 2014 Credit Derivatives	
Definitions):	TODA 1 11:1 12014 C 1: D : .:
2003 Definitions:	ISDA has published 2014 Credit Derivatives
	Definitions, which alter the treatment accorded certain
	events, particularly as relates to sovereigns and
	financials and certain "orphan" CDS (Reference
	Entities with no deliverable obligations).
Index Sponsor:	Markit, which sponsors the Index, has published
	information on treatment of both legacy and future
	indices.
	The parties should consult Markit's documentation to
	determine the exact treatment. It is the SEF's
	understanding that, in general, all CDS index trades will convert to the 2014 Definitions, with individual
	components being excluded if they would be impacted
	by the differences between the two.
Cleared Transactions:	Transactions intended to be cleared will use the
	Definitions required by the relevant DCO selected by
	the parties.
	The parties should consult the relevant DCO's
	documentation to determine the exact treatment. It is
	the SEFs understanding that the DCOs will be
	converting all trades to the 2014 definitions, with
	individual component excluded as describe above.
Choice of Definitions:	The parties can elect which Definitions to use as part of
	their Confirmation process. However, this may limit
	clearability and result in creation of a bespoke Index
	transaction.

#### CDS Index Contract – European Crossover 5Y Swaps and Swaptions

Summary:	This covers "CDS Index Contract – European
	Crossover 5Y Swaps and Swaptions". The European
	Crossover index comprises 50 equally weighted credit
	default swaps on the most liquid sub-investment grade
	European corporate entities.
Index:	ITRAXX.EUROPE CROSSOVER: Series 10 to
	current.
Currency:	EUR
<b>Quoting Convention and Minimum Increment:</b>	As agreed by counterparties.
Minimum Size:	As agreed by counterparties.
Trading Conventions:	Buy = Buy Protection, the buyer of protection pays a
	premium to the seller in case of a credit event occurring.
	Sell = Sell Protection, the seller of protection receives
	the premium payments from the protection buyer. The
	Seller owns the credit risk of the instrument.
Swap Conventions:	European crossover indices are traded on spread.
_	Fixed coupon payments are calculated at a spread of
	500 bps and exchanged on a quarterly basis.
Swap Tenor:	5Y
Effective Date:	The date on which parties begin calculating accrued
	obligations such as fixed payments. Also known as the
	start date of the swap.
Maturity Date:	The final date on which the obligations no longer accrue
·	and the final payment occurs.
Trade Types:	The following swap types may be executed on the
	tpSEF Inc.:
	Outrights
	Roll Trades
	Curve Trades
Settlement:	Contingent payment - Payments related to credit event
	settlement will be determined pursuant to the 2009
	ISDA Credit Derivatives Determination Committees
	and Auction Settlement Supplement, (i.e., the Big Bang
	Protocol).
	Fixed Quarterly cash payments - reflected in basis
	points and paid by the protection buyer to the protection
	seller.
	Upfront fee payment - The upfront fee is a portion of
	the payments, expressed in percentage points of the
	notional, which is present valued and paid immediately
	to the seller.
Swaptions on the Above:	
Swaptions:	The SEF is also listing Physically-Settled Swaptions on
	the Index on the terms described herein.
Swaption Option Style:	European; the Swaptions may be exercised only on
	expiration.
Swaption Tenor:	The tenor of the Swaptions will be selected by the
	parties and will be no shorter than three months and no
	longer than three months less than the Swap Tenor.

# CDS Index Contract – European Crossover 5Y Swaps and Swaptions

Settlement:	The Swaption will be Physically Settled and, if
	exercised, will result in the parties entering into a swap
	on the Index on the terms described herein.
ISDA Definitions (2003 v. 2014 Credit Derivatives Definitions):	
2003 Definitions:	ISDA has published 2014 Credit Derivatives
	Definitions, which alter the treatment accorded certain
	events, particularly as relates to sovereigns and
	financials and certain "orphan" CDS (Reference
	Entities with no deliverable obligations).
Index Sponsor:	Markit, which sponsors the Index, has published
-	information on treatment of both legacy and future
	indices.
	The parties should consult Markit's documentation to
	determine the exact treatment. It is the SEF's
	understanding that, in general, all CDS index trades will
	convert to the 2014 Definitions, with individual
	components being excluded if they would be impacted
	by the differences between the two.
Cleared Transactions:	Transactions intended to be cleared will use the
	Definitions required by the relevant DCO selected by
	the parties.
	The parties should consult the relevant DCO's
	documentation to determine the exact treatment. It is the
	SEFs understanding that the DCOs will be converting
	all trades to the 2014 definitions, with individual
CI : CD C:::	component excluded as describe above.
Choice of Definitions:	The parties can elect which Definitions to use as part of
	their Confirmation process. However, this may limit
	clearability and result in creation of a bespoke Index
	transaction.

#### CDS Index Contract – European HiVol 5Y Swaps and Swaptions

Summary:	This covers "CDS Index Contract – European HiVol 5Y
	Swaps and Swaptions" $-i.e.$ , an agreement to buy or
	sell protection on a basket comprised of 30 equally
	weighted credit default swaps on the widest spread non-
	financial European corporate entities.
Index:	ITRAXX.EUROPE HIVOL: Series 10 to current.
Currency:	EUR
<b>Quoting Convention and Minimum Increment:</b>	As agreed by counterparties.
Minimum Size:	As agreed by counterparties.
Trading Conventions:	Buy = Buy Protection, the buyer of protection pays a
	premium to the seller in case of a credit event occurring.
	Sell = Sell Protection, the seller of protection receives
	the premium payments from the protection buyer. The
	Seller owns the credit risk of the instrument.
Swap Conventions:	European crossover indices are traded on spread.
	Fixed coupon payments are calculated at a spread of
	100 bps and exchanged on a quarterly basis.
Swap Tenor:	5Y
Effective Date:	The date on which parties begin calculating accrued
	obligations such as fixed payments. Also known as the
75 ( 1/  P) (	start date of the swap.
Maturity Date:	The final date on which the obligations no longer accrue
m 1 m	and the final payment occurs.
Trade Types:	The following swap types may be executed on the
	tpSEF Inc.:
	Outrights
	Roll Trades
	Curve Trades
Settlement:	Contingent payment - Payments related to credit event
	settlement will be determined pursuant to the 2009
	ISDA Credit Derivatives Determination Committees
	and Auction Settlement Supplement, ( <i>i.e.</i> , the Big Bang Protocol).
	Fixed Quarterly cash payments - reflected in basis
	points and paid by the protection buyer to the protection
	seller.
	Upfront fee payment - The upfront fee is a portion of
	the payments, expressed in percentage points of the
	notional, which is present valued and paid immediately
	to the seller.
Swaptions on the Above:	
Swaptions:	The SEF is also listing Physically-Settled Swaptions on
•	the Index on the terms described herein.
Swaption Option Style:	European; the Swaptions may be exercised only on
	expiration.
Swaption Tenor:	The tenor of the Swaptions will be selected by the
•	parties and will be no shorter than three months and no
	longer than three months less than the Swap Tenor.

### CDS Index Contract – European HiVol 5Y Swaps and Swaptions

Settlement:	The Swaption will be Physically Settled and, if
	exercised, will result in the parties entering into a swap
	on the Index on the terms described herein.
ISDA Definitions (2003 v. 2014 Credit Derivatives Definitions):	
2003 Definitions:	ISDA has published 2014 Credit Derivatives
	Definitions, which alter the treatment accorded certain
	events, particularly as relates to sovereigns and
	financials and certain "orphan" CDS (Reference
	Entities with no deliverable obligations).
Index Sponsor:	Markit, which sponsors the Index, has published
-	information on treatment of both legacy and future
	indices.
	The parties should consult Markit's documentation to
	determine the exact treatment. It is the SEF's
	understanding that, in general, all CDS index trades will
	convert to the 2014 Definitions, with individual
	components being excluded if they would be impacted
	by the differences between the two.
Cleared Transactions:	Transactions intended to be cleared will use the
	Definitions required by the relevant DCO selected by
	the parties.
	The parties should consult the relevant DCO's
	documentation to determine the exact treatment. It is the
	SEFs understanding that the DCOs will be converting
	all trades to the 2014 definitions, with individual
CI : CD C:::	component excluded as describe above.
Choice of Definitions:	The parties can elect which Definitions to use as part of
	their Confirmation process. However, this may limit
	clearability and result in creation of a bespoke Index
	transaction.

#### CDS Index Contract – European IG 5Y Swaps and Swaptions

Summary:	This covers "CDS Index Contract – European IG 5Y
Summiy.	Swaps and Swaptions" $-i.e.$ , an agreement to buy or
	sell protection on a basket of liquid European based
	entities with an investment grade credit rating.
Index:	ITRAXX.EUROPE: Series 10 to current.
Currency:	EUR
<b>Quoting Convention and Minimum Increment:</b>	As agreed by counterparties.
Minimum Size:	As agreed by counterparties.
Trading Conventions:	Buy = Buy Protection, the buyer of protection pays a
	premium to the seller in case of a credit event occurring.
	Sell = Sell Protection, the seller of protection receives
	the premium payments from the protection buyer. The
	Seller owns the credit risk of the instrument.
Swap Conventions:	European IG indices are traded on spread.
	Fixed coupon payments are calculated at a spread of
	100 bps and exchanged on a quarterly basis.
Swap Tenor:	5Y
Effective Date:	The date on which parties begin calculating accrued
	obligations such as fixed payments. Also known as the
M-4	start date of the swap.
Maturity Date:	The final date on which the obligations no longer accrue and the final payment occurs.
Trade Types:	The following swap types may be executed on the
Trade Types.	tpSEF Inc.:
	• Outrights
	Roll Trades
	• Curve Trades
Settlement:	Contingent payment - Payments related to credit event
Settlement.	settlement will be determined pursuant to the 2009
	ISDA Credit Derivatives Determination Committees
	and Auction Settlement Supplement, (i.e., the Big Bang
	Protocol).
	Fixed Quarterly cash payments - reflected in basis
	points and paid by the protection buyer to the protection
	seller.
	Upfront fee payment - The upfront fee is a portion of
	the payments, expressed in percentage points of the
	notional, which is present valued and paid immediately
	to the seller.
Swaptions on the Above:	THE OFFICE A STATE OF THE CONTROL OF
Swaptions:	The SEF is also listing Physically-Settled Swaptions on
Swention Ontion Styles	the Index on the terms described herein.
Swaption Option Style:	European; the Swaptions may be exercised only on expiration.
Swaption Tenor:	The tenor of the Swaptions will be selected by the
Swaphon Tohor.	parties and will be no shorter than three months and no
	longer than three months less than the Swap Tenor.
Settlement:	The Swaption will be Physically Settled and, if
Settlement.	exercised, will result in the parties entering into a swap
	on the Index on the terms described herein.
	on the fidex on the terms described herein.

ISDA Definitions (2003 v. 2014 Credit Derivatives	
<b>Definitions</b> ):	
2003 Definitions:	ISDA has published 2014 Credit Derivatives Definitions, which alter the treatment accorded certain events, particularly as relates to sovereigns and financials and certain "orphan" CDS (Reference Entities with no deliverable obligations).
Index Sponsor:	Markit, which sponsors the Index, has published information on treatment of both legacy and future indices.  The parties should consult Markit's documentation to determine the exact treatment. It is the SEF's understanding that, in general, all CDS index trades will convert to the 2014 Definitions, with individual components being excluded if they would be impacted by the differences between the two.
Cleared Transactions:	Transactions intended to be cleared will use the Definitions required by the relevant DCO selected by the parties.  The parties should consult the relevant DCO's documentation to determine the exact treatment. It is the SEFs understanding that the DCOs will be converting all trades to the 2014 definitions, with individual component excluded as describe above.
Choice of Definitions:	The parties can elect which Definitions to use as part of their Confirmation process. However, this may limit clearability and result in creation of a bespoke Index transaction.

#### CDS Index Contract – European IG 10Y Swaps and Swaptions

Summary:	This covers "CDS Index Contract – European IG 10Y
	Swaps and Swaptions" $-i.e.$ , an agreement to buy or
	sell protection on a basket of liquid European based
	entities with an investment grade credit rating.
Index:	ITRAXX.EUROPE: Series 7 to current.
Currency:	EUR
<b>Quoting Convention and Minimum Increment:</b>	As agreed by counterparties.
Minimum Size:	As agreed by counterparties.
Trading Conventions:	Buy = Buy Protection, the buyer of protection pays a
	premium to the seller in case of a credit event occurring.
	Sell = Sell Protection, the seller of protection receives
	the premium payments from the protection buyer. The
	Seller owns the credit risk of the instrument.
Swap Conventions:	European IG indices are traded on spread.
	Fixed coupon payments are calculated at a spread of
G m	100 bps and exchanged on a quarterly basis.
Swap Tenor:	10Y
Effective Date:	The date on which parties begin calculating accrued
	obligations such as fixed payments. Also known as the
75 ( t) D (	start date of the swap.
Maturity Date:	The final date on which the obligations no longer accrue
T 1. T	and the final payment occurs.
Trade Types:	The following swap types may be executed on the
	tpSEF Inc.:
	Outrights
	Roll Trades
G viz	Curve Trades
Settlement:	Contingent payment - Payments related to credit event
	settlement will be determined pursuant to the 2009 ISDA Credit Derivatives Determination Committees
	and Auction Settlement Supplement, ( <i>i.e.</i> , the Big Bang Protocol).
	Fixed Quarterly cash payments - reflected in basis
	points and paid by the protection buyer to the protection
	seller.
	Upfront fee payment - The upfront fee is a portion of
	the payments, expressed in percentage points of the
	notional, which is present valued and paid immediately
	to the seller.
Swaptions on the Above:	
Swaptions:	The SEF is also listing Physically-Settled Swaptions
	on the Index on the terms described herein.
Swaption Option Style:	European; the Swaptions may be exercised only on
	expiration.
Swaption Tenor:	The tenor of the Swaptions will be selected by the
	parties and will be no shorter than three months and no
	longer than three months less than the Swap Tenor.

### CDS Index Contract – European IG 10Y Swaps and Swaptions

Settlement:	The Swaption will be Physically Settled and, if exercised, will result in the parties entering into a swap on the Index on the terms described herein.
ISDA Definitions (2003 v. 2014 Credit Derivatives Definitions):	
2003 Definitions:	ISDA has published 2014 Credit Derivatives Definitions, which alter the treatment accorded certain events, particularly as relates to sovereigns and financials and certain "orphan" CDS (Reference Entities with no deliverable obligations).
Index Sponsor:	Markit, which sponsors the Index, has published information on treatment of both legacy and future indices.  The parties should consult Markit's documentation to determine the exact treatment. It is the SEF's understanding that, in general, all CDS index trades will convert to the 2014 Definitions, with individual components being excluded if they would be impacted by the differences between the two.
Cleared Transactions:	Transactions intended to be cleared will use the Definitions required by the relevant DCO selected by the parties.  The parties should consult the relevant DCO's documentation to determine the exact treatment. It is the SEFs understanding that the DCOs will be converting all trades to the 2014 definitions, with individual component excluded as describe above.
Choice of Definitions:	The parties can elect which Definitions to use as part of their Confirmation process. However, this may limit clearability and result in creation of a bespoke Index transaction.

#### CDS Index Contract – North America Investment Grade and High Yield Swaps and Swaptions

Contract Overview:	An agreement to buy or sell protection on a basket of liquid North America based entities with a high yield credit rating (CDX.NA.HY, CDX.NA.HY.B and CDX.NA.HY.BB) or an investment grade credit rating (CDX.NA.IG).
Index:	CDX.NA.HY: Series 8 to current.
	CDX.NA.HY.B: Series 8 to current.
	CDX.NA.HY.BB: Series 8 to current.
	CDX.NA.IG: Series 8 to current.
Currency:	USD
Quoting Convention and Minimum Increment:	As agreed by counterparties.
Minimum Size:	As agreed by counterparties.
Trading Conventions:	Buy = Buy Protection, the buyer of protection pays a premium to the seller in case of a credit event occurring. Credit events include Bankruptcy, Failure to Pay and Restructuring.
	Sell = Sell Protection, the seller of protection receives the premium payments from the protection buyer. The Seller owns the credit risk of the instrument.
	High Yield indices such as the CDX.NA.HY are traded on price.
	Investment Grade indices such as the CDX.NA.IG are traded on spread.
Swap Conventions:	For CDX.NA.HY, CDX.NA.HY.B and CDX.NA.HY.BB, fixed coupon payments are calculated at a spread of 500 bps and exchanged on a quarterly basis.
	For CDX.NA.IG, fixed coupon payments are calculated at a spread of 100 bps and exchanged on a quarterly basis.
Swap Tenor:	3Y, 5Y, 7Y and 10Y or as otherwise agreed by the parties.
Tranching:	Transactions may have only one tranche, where all losses are allocated to the protection seller, starting with the first dollar of loss and ending only when the entire notional of the transaction has been exhausted or the Transaction itself expires.
	Transactions may also be tranched in a way in which losses are allocated to the protection seller only after a certain amount of losses have occurred on the Index (the "attachment point") and cease being allocated to the protection seller after a certain additional amount of

	losses have occurred on the point").	Index (the "detachment
	In the case of tranched transactions in the CDX.NA.HY, CDX.NA.HY.B or CDX.NA.HY.BB, the tranches include:	
	Attachment Point	Detachment Point
	0	10%
	0	15%
	10%	15%
	15%	25%
	25%	35%
	35%	100%
	In the case of tranched transactions in the CDX.NA.IG, the tranches include:	
	Attachment Point	<b>Detachment Point</b>
	0	3%
	3%	7%
	7%	10%
	7%	15%
	10%	15%
	15%	30%
	15%	100%
	In addition to the customary above, the parties may agree detachment points.	
Effective Date:	The date on which parties begin calculating accrued obligations such as fixed payments. Also known as the start date of the swap.	
Maturity Date:	The final date on which the obligations no longer accrue and the final payment occurs.	
Trade Types:	The following swap types may be executed on the SEF:	
	• Outrights	
	Roll Trades	
	Curve Trades	
Settlement:	Contingent payment - Paym settlement will be determine ISDA Definitions (see below	ed pursuant to the relevant
	Fixed Quarterly cash payme points and paid by the protest seller.	

	Upfront fee payment - The upfront fee is a portion of the payments, expressed in percentage points of the notional, which is present valued and paid immediately to the seller.
Swaptions on the Above	
Swaptions:	The SEF is also listing Physically-Settled Swaptions on each of the CDX.NA.HY, CDX.NA.HY.B, CDX.NA.HY.BB and CDX.NA.IG on the terms described herein.
Swaption Option Style:	European; the Swaptions may be exercised only on expiration.
Swaption Tenor:	The tenor of the Swaptions will be selected by the parties and will be no shorter than three months and no longer than three months less than the Swap Tenor.
Settlement:	The Swaption will be Physically Settled and, if exercised, will result in the parties entering into a swap on the Index on the terms described herein.
Tranching:	Swaptions may be written on tranched or untranched transactions.
ISDA Definitions (2003 v. 2014 Credit Derivatives Definitions)	
2014/2003 Definitions:	ISDA has published 2014 Credit Derivatives Definitions, which alter the treatment accorded certain events, particularly as relates to sovereigns and financials and certain "orphan" CDS (Reference Entities with no deliverable obligations).
Index Sponsor:	IHS Markit Ltd, which sponsors the Index, has published information on treatment of both legacy and future indices.
	The parties should consult IHS Markit Ltd's documentation to determine the exact treatment. It is the SEF's understanding that, in general, all CDS index trades will convert to the 2014 Definitions, with individual components being excluded if they would be impacted by the differences between the two.
Cleared Transactions:	Transactions intended to be cleared will use the Definitions required by the relevant DCO selected by the parties.
	The parties should consult the relevant DCO's documentation to determine the exact treatment. It is the SEFs understanding that the DCOs will be converting all trades to the 2014 definitions, with individual component excluded as describe above.
Choice of Definitions:	The parties can elect which Definitions to use as part of their Confirmation process. However, this may limit clearability and result in creation of a bespoke Index transaction.

#### CDS Index Contracts - CMBX

Summary:	This covers uncleared credit default swaps on IHS Markit Ltd's "CMBX Indices" ("CDS Index Contracts – CMBX"). The terms under which CDS Index Contracts – CMBX may be traded are shown below.
Contract Overview:	An agreement to buy or sell protection on one of the IHS Markit Ltd CMBX Indices listed under the heading "Index" immediately below. Each such index is composed of twenty-five (25) equally-weighted reference obligations that are tranches of commercial mortgage-backed securities offerings that meet the relevant eligibility criteria published by IHS Markit Ltd from time to time.
Index:	CMBX.NA.AAA: Series 6 to current.
	CMBX.NA.AS: Series 6 to current.
	CMBX.NA.AA: Series 6 to current.
	CMBX.NA.A: Series 6 to current.
	CMBX.NA.BBB-: Series 6 to current.
	CMBX.NA.BB: Series 6 to current.
Currency:	USD
Quoting Convention and Minimum Increment:	As agreed by counterparties.
Minimum Size:	As agreed by counterparties.
Trading Conventions:	Buy = Buy Protection, the buyer of protection pays a premium to the seller and receives a payment from the seller of protection in the case of a credit event occurring.
	Sell = Sell Protection, the seller of protection receives the premium payments from the protection buyer and makes a payment to the buyer of protection in the case of a credit event occurring. The Seller owns the credit risk of the instrument.
	The indices are traded on spread.
Swap Conventions:	Fixed coupon payments are calculated at the applicable spread specified below:
	• CMBX.NA.AAA: 50 bps
	• CMBX.NA.AS: 100 bps
	• CMBX.NA.AA: 150 bps
	• CMBX.NA.A: 200 bps
	• CMBX.NA.BBB-: 300 bps
	• CMBX.NA.BB: 500 bps
	Fixed coupon payments are exchanged on a monthly basis.

Swap Tenor:	As agreed by counterparties, subject to applicable law.
Effective Date:	The date (to be agreed by the counterparties) on which parties begin calculating accrued obligations such as fixed payments. Also known as the start date of the swap.
Maturity Date:	The final date (to be agreed by the counterparties) on which the obligations no longer accrue and the final payment occurs.
Trade Types:	The following swap types may be executed on tpSEF Inc.:
	<ul><li>Outrights</li><li>Roll Trades</li></ul>
Settlement:	Contingent Payment: Payments related to credit event settlement will be determined pursuant to the 2014 ISDA Credit Derivatives Definitions as published by the International Swaps and Derivatives Association, Inc. Such payments are paid by the protection seller to the protection buyer.
	<u>Fixed Monthly Cash Payments</u> : Reflected in basis points and paid by the protection buyer to the protection seller.
	<u>Upfront Fee Payment</u> : The upfront fee is a portion of the payments, expressed in percentage points of the notional, which is present valued and paid at the inception of the Contract by the protection buyer to the protection seller.

#### CDS Index Contracts – iTraxx Australia

an agreement to buy or sell protection on an index composed of twenty five (25) liquid Australian entities with investment grade credit ratings that trade in the CDS market or have significant domestic bond issuance is published by IHS Markit Ltd. from time to time.
Ггахх [®] Australia Index: Series 30 to current.
JSD
s agreed by counterparties.
s agreed by counterparties.
tuy = Buy Protection, the buyer of protection pays a remium to the seller in case of a credit event occurring.
ell = Sell Protection, the seller of protection receives ne premium payments from the protection buyer. The eller owns the credit risk of the instrument.
he indices are traded on spread.
ixed coupon payments are calculated at a spread of 100 ps and exchanged on a quarterly basis.
s agreed by counterparties, subject to Applicable Law.
The date (to be agreed by the counterparties) on which arties begin calculating accrued obligations such as xed payments. Also known as the start date of the wap.
The final date (to be agreed by the counterparties) on which the obligations no longer accrue and the final ayment occurs.
the following swap types may be executed on tpSEF ac.:  Outrights Roll Trades
Curve Trades
Contingent Payment: Payments related to credit event ettlement will be determined pursuant to the 2014 ISDA credit Derivatives Definitions as published by the international Swaps and Derivatives Association, Inc. <u>Sixed Quarterly Cash Payments</u> : Reflected in basis oints and paid by the protection buyer to the protection
: 1

#### CDS Index Contracts – iTraxx Australia

<u>Upfront Fee Payment</u> : The upfront fee is a portion of the payments, expressed in percentage points of the notional, which is present valued and paid at the inception of the
Contract by the protection buyer to the protection seller.

### CDS Index Contracts – iTraxx Japan

Summary:	This covers uncleared credit default swaps on IHS Markit Ltd's "Markit iTraxx® Japan Index" ("CDS Index Contracts – iTraxx Japan"). The terms under which CDS Index Contracts – iTraxx Japan may be traded are shown below.
Contract Overview:	An agreement to buy or sell protection on an index composed of forty (40) Japanese entities with investment grade credit ratings that trade in the CDS market as published by IHS Markit Ltd. from time to time.
Index:	Markit iTraxx® Japan Index: Series 30 to current.
Currency:	JPY
Quoting Convention and Minimum Increment:	As agreed by counterparties.
Minimum Size:	As agreed by counterparties.
Trading Conventions:	Buy = Buy Protection, the buyer of protection pays a premium to the seller in case of a credit event occurring.
	Sell = Sell Protection, the seller of protection receives the premium payments from the protection buyer. The Seller owns the credit risk of the instrument.
	The indices are traded on spread.
Swap Conventions:	Fixed coupon payments are calculated at a spread of 100 bps and exchanged on a quarterly basis.
Swap Tenor:	As agreed by counterparties, subject to Applicable Law.
Effective Date:	The date (to be agreed by the counterparties) on which parties begin calculating accrued obligations such as fixed payments. Also known as the start date of the swap.
Maturity Date:	The final date (to be agreed by the counterparties) on which the obligations no longer accrue and the final payment occurs.
Trade Types:	The following swap types may be executed on tpSEF Inc.:  Outrights Roll Trades Curve Trades
Settlement:	Contingent Payment: Payments related to credit event settlement will be determined pursuant to the 2014 ISDA Credit Derivatives Definitions as published by the International Swaps and Derivatives Association, Inc.  Fixed Quarterly Cash Payments: Reflected in basis points and paid by the protection buyer to the protection seller.

### $CDS\ Index\ Contracts-iTraxx\ Japan$

<u>Upfront Fee Payment</u> : The upfront fee is a portion of the payments, expressed in percentage points of the notional,
which is present valued and paid at the inception of the Contract by the protection buyer to the protection seller.

#### CDS Index Contracts – ITRXAEJ.IG (iTraxx® Asia ex-Japan Investment Grade)

Cummonus	This covers "CDS Index Contracts – ITRXAEJ.IG
Summary:	
	(iTraxx® Asia ex-Japan Investment Grade)" – <i>i.e.</i> , an agreement to buy or sell protection on a broad-based
	basket of investment grade Asian corporate and
	sovereign/agency issuers (excluding Japanese issuers).
Index:	ITRXAEJ.IG (iTraxx® Asia ex-Japan Investment
	Grade): Series 14 through current, so long as such Index
	is not a narrow-based Index.
Currency:	USD
<b>Quoting Convention and Minimum Increment:</b>	As agreed by counterparties.
Minimum Size:	As agreed by counterparties.
Trading Conventions:	Buy = Buy Protection, the buyer of protection pays a
	premium to the seller in case of a credit event occurring.
	Credit events include Bankruptcy and Failure to Pay.
	Sell = Sell Protection, the seller of protection receives
	the premium payments from the protection buyer. The
	Seller owns the credit risk of the instrument.
	Investment Grade indices are traded on spread.
Swap Conventions:	Fixed coupon payments are calculated at a spread of
•	100 bps and exchanged on a quarterly basis.
Swap Tenor:	As agreed by the parties, subject to Applicable Law.
Effective Date:	The date on which parties begin calculating accrued
	obligations such as fixed payments. Also known as the
	start date of the swap.
Maturity Date:	The final date on which the obligations no longer
	accrue and the final payment occurs.
Trade Types:	The following swap types may be executed on tpSEF
	Inc.:
	Outrights
	Roll Trades
	• Curve Trades
Settlement:	Contingent payment - Payments related to credit event
Settlement.	settlement will be determined pursuant to the 2003
	ISDA Credit Derivatives Definitions, as modified by
	the 2009 ISDA Credit Derivatives Determination
	Committees and Auction Settlement Supplement (i.e.,
	the Big Bang and Little Bang Protocols) and the ISDA
	2014 Credit Derivatives Protocol (for Series 21 and
	prior) and the ISDA 2014 Definitions (for Series 22 and
	later).
	Fixed Quarterly cash payments - reflected in basis
	points and paid by the protection buyer to the protection
	seller.
	Upfront payment - The upfront payment is a portion of
	the payments, expressed in percentage points of the
	notional, which is present valued and paid immediately
	to the seller.

#### CDS Index Contracts – MCDX Index

Summary:	This covers uncleared credit default swaps on IHS Markit Ltd's MCDX Index ("CDS Index Contracts – MCDX Index"). The terms under which CDS Index Contracts – MCDX Index may be traded are shown below.
Contract Overview:	Until October 2018, an agreement to buy or sell protection on a broad-based index composed of fifty (50) municipal credits.
	Beginning with MCDX.NA Series 31 in October 2018, an agreement to buy or sell protection on a broad-based index composed of twenty (20) municipal credits.
Index:	MCDX: all series
Currency:	USD
Quoting Convention and Minimum Increment:	As agreed by counterparties.
Minimum Size:	As agreed by counterparties.
Trading Conventions:	Buy = Buy Protection, the buyer of protection pays a premium to the seller in case of a credit event occurring. Credit events include "Bankruptcy" and "Failure to Pay."
	Sell = Sell Protection, the seller of protection receives the premium payments from the protection buyer. The Seller owns the credit risk of the instrument.
	MCDX indices are traded on spread.
Swap Conventions:	Fixed coupon payments are calculated at a spread of 100 bps coupon and exchanged on a quarterly basis at 75% recovery.
Swap Tenor:	3 years, 5 years, 10 years
Effective Date:	The date (to be agreed by the counterparties) on which parties begin calculating accrued obligations such as fixed payments. Also known as the start date of the swap.
Maturity Date:	The final date (to be agreed by the counterparties) on which the obligations no longer accrue and the final payment occurs.
Trade Types:	The following swap types may be executed on tpSEF Inc.:  Outrights Roll Trades
	Curve Trades

Settlement:	Contingent Payment: Payments related to credit event settlement will be determined pursuant to the 2003 ISDA Credit Derivatives Definitions, as modified by the 2009 ISDA Credit Derivatives Determinations Committees and Auction Settlement Supplement thereto.
	<u>Fixed Quarterly Cash Payments</u> : Reflected in basis points and paid by the protection buyer to the protection seller.
	<u>Upfront Fee Payment</u> : The upfront fee is a portion of the payments, expressed in percentage points of the notional, which is present valued and paid immediately to the seller.

#### **Commodity Index Swaps**

Summary:	This covers commodity index swaps (each, a
	"Commodity Index Swap").
Incorporated Standards:	This contract description incorporates by reference the
•	following industry standard documentation and
	standards:
	2005 ISDA Commodity Derivatives Definitions
	("Commodity Definitions")
Product Type/ISDA OTC Taxonomy:	
ISDA OTC Asset Class:	Commodity
ISDA OTC Base Product:	Index
ISDA OTC Transaction type:	Swap
ISDA OTC Settlement type:	Cash
Terms:	
Trade Date:	The date on which the contract is entered into.
Effective Date:	As specified by the parties.
Termination Date:	As specified by the parties.
Commodity:	The index specified by the parties from among the
•	indices listed in the table below titled "Commodity Index
	Swap Available Indices."
Total Notional Quantity:	The sum of the Notional Quantities per Calculation
•	Period.
Notional Quantity per Calculation Period:	As specified by the parties on a per-Calculation-Period
	Basis.
Calculation Periods:	As specified by the parties.
Payment Dates:	In relation to each Calculation Period, as specified by the
	parties.
Business Day Convention:	As specified by the parties.
Fixed Amount:	
Fixed Price Payer:	As specified by the parties.
Fixed Price or Fixed Amount:	As specified by the parties, expressed as a rate or overall.
Floating Amount:	
Floating Price Payer:	As specified by the parties.
Floating Price:	In relation to each Calculation Period, the level of the
	specified Available Commodity Index at the end of the
	such Calculation Period less the level of the specified
	Available Commodity Index at the start of the such
	Calculation Period, the result of which is divided by the
	level of the specified Available Commodity Index at the
	start of the such Calculation Period.
Market Disruption:	
Market Disruption Events:	Unless otherwise specified by the parties, per the
	Commodity Definitions.
Additional Market Disruption Events:	As specified by the parties.
Consequences of Market Disruption Events:	Unless otherwise specified by the parties, per the
	Commodity Definitions.
Disruption Fallbacks:	Unless otherwise specified by the parties, per the
	Commodity Definitions.
Fallback Reference Price:	None, unless specified by the parties.
Maximum Days of Disruption:	Unless otherwise specified by the parties, per the
	Commodity Definitions.

	Minimum and Incremental Price:	The minimum price is \$10,000,000 and the minimum
		incremental price is \$1,000,000.
Γ	Calculation Agent:	As agreed by the parties.

#### Commodity Index Swap Available Commodity Indices

Abbr	Name		
BCOM	BCOM ER		
BCOMF1	BCOM F1 ER		
BCOMF2	BCOM F2 ER		
BCOMF3	BCOM F3 ER		
BCOMF4	BCOM F4 ER		
BCOMF5	BCOM F5 ER		
BCOMF6	BCOM F6 ER		
BCOMAG	BCOM Agriculture ER		
BCOMEN	BCOM Energy ER		
BCOMGR	BCOM Grains ER		
BCOMIN	BCOM Industrial Metals ER		
BCOMLI	BCOM Livestock ER		
ВСОМРЕ	BCOM Petroleum ER		
BCOMPR	BCOM Precious Metals ER		
BCOMSO	BCOM Softs ER		
BCOMXAG	BCOM ex-Agriculture ER		
BCOMXAL	BCOM ex-Agriculture and Livestock ER		
BCOMXE	BCOM ex-Energy ER		
BCOMXGR	BCOM ex-Grains ER		
BCOMXIM	BCOM ex-Industrial Metals ER		
BCOMXLI	BCOM ex-Livestock ER		
BCOMXPE	BCOM ex-Petroleum ER		
BCOMXPM	BCOM ex-Precious Metals ER		
BCOMXSO	BCOM ex-Softs ER		
BCOMAL	BCOM Aluminum ER		
BCOMCO	BCOM Brent Crude ER		
BCOMCC	BCOM Cocoa ER		
BCOMKC	BCOM Coffee ER		
BCOMHG	BCOM Copper ER		
BCOMCN	BCOM Corn ER		
BCOMCT	BCOM Cotton ER		
BCOMFC	BCOM Feeder Cattle ER		
BCOMGO	BCOM Gas Oil ER		
BCOMGC	BCOM Gold ER		
ВСОМНО	BCOM Heating Oil ER		
ВСОМРВ	BCOM Lead ER		
BCOMLH	BCOM Lean Hogs ER		
BCOMLC	BCOM Live Cattle ER		

Abbr	Name	
BCOMNG	BCOM Natural Gas ER	
BCOMNI	BCOM Nickel ER	
BCOMOJ	BCOM Orange Juice ER	
BCOMPA	BCOM Palladium ER	
BCOMPL	BCOM Platinum ER	
BCOMSI	BCOM Silver ER	
BCOMSM	BCOM Soybean Meal ER	
BCOMSM1	Bloomberg Soybean Meal Subindex 1 Month Forward	
ВСОМВО	BCOM Soybean Oil ER	
BCOMSY	BCOM Soybeans ER	
BCOMSB	BCOM Sugar ER	
BCOMSN	BCOM Tin ER	
BCOMRB	BCOM Unleaded Gas ER	
BCOMWH	BCOM Wheat ER	
BCOMKW	BCOM Kansas Wheat ER	
BCOMCL	BCOM WTI Crude Oil ER	
BCOMZS	BCOM Zinc ER	
BCOMAU	BCOM AUD ER	
BCOMEU	BCOM EUR ER	
BCOMGB	BCOM GBP ER	
BCOMCH	BCOM CHF ER	
BCOMJY	BCOM JPY ER	
BCOMALC	BCOM Aluminum Capped ER	
BCOMKCC	BCOM Coffee Capped ER	
BCOMHGC	BCOM Copper Capped ER	
BCOMCLC	BCOM WTI Crude Oil Capped ER	
BCOMCNC	BCOM Corn Capped ER	
BCOMLCC	BCOM Cattle Capped ER	
BCOMCTC	BCOM Cotton Capped ER	
BCOMGCC	BCOM Gold Capped ER	
BCOMLHC	BCOM Lean Hogs Capped ER	
ВСОМНОС	BCOM Heating Oil Capped ER	
BCOMKWC	BCOM Kansas Wheat Capped ER	
BCOMCOC	BCOM Brent Crude Capped ER	
BCOMNGC	BCOM Natural Gas Capped ER	
BCOMNIC	BCOM Nickel Capped ER	
BCOMSYC	BCOM Soybeans Capped ER	
BCOMBOC	BCOM Soybean Oil Capped ER	
BCOMSIC	BCOM Silver Capped ER	
BCOMSBC	BCOM Sugar Capped ER	
BCOMSMC	BCOM Soybean Meal Capped ER	
BCOMRBC	BCOM Unleaded Gas Capped ER	

Abbr	Name
BCOMWHC	BCOM Wheat Capped ER
BCOMZSC	BCOM Zinc Capped ER
BCOMTR	BCOM TR
BCOMF1T	BCOM F1 TR
BCOMF2T	BCOM F2 TR
BCOMF3T	BCOM F3 TR
BCOMF4T	BCOM F4 TR
BCOMF5T	BCOM F5 TR
BCOMF6T	BCOM F6 TR
BCOMRS	BCOM Roll Select
DJCICN	Dow Jones Commodity Index Corn
DJCISB	Dow Jones Commodity Index Sugar
DJCILC	Dow Jones Commodity Index Live Cattle
DJCIAW	Dow Jones Commodity Index All Wheat
SPGCCI	S&P GSCI
SPGCBO	S&P GSCI Soybean Oil
SPGCBR	S&P GSCI Brent Crude
SPGCCC	S&P GSCI Cocoa
SPGCCL	S&P GSCI Crude Oil
SPGCCN	S&P GSCI Corn
SPGCCT	S&P GSCI Cotton
SPGCFC	S&P GSCI Feeder Cattle
SPGCGC	S&P GSCI Gold
SPGCGO	S&P GSCI Gasoline
SPGCHG	S&P GSCI North American Copper
SPGCHO	S&P GSCI Heating Oil
SPGCHU	S&P GSCI Unleaded Gasoline
SPGCIA	S&P GSCI Aluminum
SPGCIC	S&P GSCI Copper
SPGCIK	S&P GSCI Nickel
SPGCIL	S&P GSCI Lead
SPGCIN	S&P GSCI Industrial Metals
SPGCIZ	S&P GSCI Zinc
SPGCKC	S&P GSCI Coffee
SPGCKW	S&P GSCI Kansas Wheat
SPGCLC	S&P GSCI Live Cattle
SPGCLH	S&P GSCI Lean Hogs
SPGCNG	S&P GSCI Natural Gas
SPGCPA	S&P GSCI Palladium
SPGCPL	S&P GSCI Platinum
SPGCSB	S&P GSCI Sugar
SPGCSI	S&P GSCI Silver

Abbr	Name	
SPGCSO	S&P GSCI Soybeans	
SPGCWH	S&P GSCI Wheat	
SPGSES	S&P GSCI Enhanced Commodity	
SPGSSM	S&P GSCI Soybean Meal	
SPGCCIP	S&P GSCI ER	
SPGCBRP	S&P GSCI Brent Crude ER	
SPGCCCP	S&P GSCI Cocoa ER	
SPGCCLP	S&P GSCI Crude Oil ER	
SPGCCNP	S&P GSCI Corn ER	
SPGCCTP	S&P GSCI Cotton ER	
SPGCENP	S&P GSCI Energy ER	
SPGCFCP	S&P GSCI Feeder Cattle ER	
SPGCGCP	S&P GSCI Gold ER	
SPGCGOP	S&P GSCI Gasoil ER	
SPGCHGP	S&P GSCI North American Copper ER	
SPGCHOP	S&P GSCI Heating Oil ER	
SPGCHUP	S&P GSCI Unleaded Gasoline ER	
SPGCIAP	S&P GSCI Aluminum ER	
SPGCICP	S&P GSCI Copper ER	
SPGCIKP	S&P GSCI Nickel ER	
SPGCILP	S&P GSCI Lead ER	
SPGCINP	S&P GSCI Industrial Metals ER	
SPGCNGP	S&P GSCI Natural Gas ER	
SG3MCI	S&P GSCI 3 Month Forward	

# **Deliverable Foreign Exchange Options**

Summary:	This covers "Deliverable Foreign Exchange Options".
Incorporated Standards:	This contract description incorporates by reference the following industry standard documentation and standards:
	(a) the 1998 FX and Currency Option Definitions, as amended and supplemented from time to time, including the 2005 Barrier Option Supplement to the 1998 FX and Currency Option Definitions (the "1998 Definitions"); and
	(b) ISDA OTC Taxonomies.
Contract Types:	Each Deliverable Foreign Exchange Option traded is bespoke and the terms agreed between the Buyer and Seller. All option strategies result in call options and/or put options executed with the following strategies traded as agreed between the parties:
	Vanilla: Outright Call / Put, Straddle, Strangle, Butterfly, Risk Reversal, Calendar (tenor) spread, Cross Currency Spread, Condor, Call Spread, Put Spread, Live Trading with no delta hedge.
	Exotic: Barriers, Baskets, Digitals (or Binary), Knockins, Knockouts, Reverse Knockins/Kockouts, No Touch, Double No Touch, Average Price, Worst of Options, Compound Options; trades may be with or without delta hedges and some structures may also be bilaterally negotiated with additional options as part of the package to form a vega hedge.
Product Type/ISDA OTC Taxonomy:	
ISDA OTC Asset Class:	Foreign Exchange
ISDA OTC Base Product:	Vanilla Option, Simple Exotic or Complex Exotic
Terms:	
Trade Date:	The date the transaction is agreed between and becomes legally binding on the parties.
Commencement Date:	The Trade Date, unless otherwise specified by the parties. This applies only where the Currency Option Style is American.
Buyer:	As specified by the parties.
Seller:	As specified by the parties.
Currency Option Style:	As specified by the parties.
	(An American option can be exercised any time up to and including the Expiration Date; a European option can only be exercised on the Expiration Date.)

The currency as specified by the parties from among those included in the list of available Currency Pairs.  The Put Currency and Call Currency must represent a traded pair included in the list of available Currency Pairs.  Call Currency Amount:  As specified by the parties or, if not so specified, derived from the Put Currency Amount and Strike Price.  Put Currency:  The currency as specified by the parties from among those included in the list of available Currency Pairs.  The Put Currency and Call Currency must represent a traded pair included in the list of available Currency Pairs.  Put Currency Amount:  As specified by the parties or, if not so specified, derived from the Call Currency and Call Currency must represent a traded pair included in the list of available Currency Pairs.  Put Currency Amount:  As specified by the parties or, if not so specified, derived from the Call Currency and Call Currency most represent a traded pair included in the list of available Currency Pairs.  Put Currency Amount:  As specified by the parties or, if not so specified, derived from the Call Currency and Call Currency must represent a traded pair included in the list of available Currency fairs.  Strike Price:  As specified by the parties of the Put Currency and Call Currency is specified.  Reference Currency:  As specified by the parties of the Active Price will be calculated using the Put Currency and Call Currency in order to determine if the option is to be automatically exercised.  Reference Currency:  As specified by the parties.  Settlement Rate:  As specified by the parties.  Settlement Rate Option:  As specified by the parties or otherwise per the 1998 Definitions.  Settlement Rate Option:  As specified by the parties.  Expiration Time:  The time in the location specified by the parties.  Expiration Time:  The Expiration Time, unless otherwise specified by the parties.  This applies only where the Currency Option Sylve is American.  Automatic Exercise:  Applicable, unless otherwise specified by the parties.  Se	Currency Option Type:	A Call with respect to the Call Currency and a Put with respect to the Put Currency; Binary in the case of a binary or digital option.
traded pair included in the list of available Currency Pairs.  Call Currency Amount:  As specified by the parties or, if not so specified, derived from the Put Currency Amount and Strike Price.  Put Currency:  The currency as specified by the parties from among those included in the list of available Currency Pairs.  The Put Currency and Call Currency must represent a traded pair included in the list of available Currency Pairs.  Put Currency Amount:  As specified by the parties or, if not so specified, derived from the Call Currency Amount and Strike Price.  Strike Price:  As specified by the parties (if only one of the Put Currency or Call Currency is specified). If no Strike Price is specified and Automatic Exercise is applicable, the Strike Price will be calculated using the Put Currency and Call Currency in order to determine if the option is to be automatically exercised.  Reference Currency:  As specified by the parties.  Settlement Currency:  As specified by the parties.  Settlement Rate:  As specified by the parties or otherwise per the 1998 Definitions.  Settlement Rate Option:  As specified by the parties.  Expiration Date:  As specified by the parties.  Latest Exercise Time:  The time in the location specified by the parties.  Latest Exercise Time:  The Expiration Time, unless otherwise specified by the parties.  Settlement:  Applicable, unless otherwise specified by the parties.  Settlement:  Deliverable or Cash Settlement  Settlement Amount:  In the case of a digital or binary option, as specified by the parties.  Settlement Amount:  As specified by the parties.  As specified by the parties.  Settlement Date:  As specified by the parties.  Settlement Date:  As specified by the parties.  As specified by the parties.	Call Currency:	
from the Put Currency Amount and Strike Price.  Put Currency:  The Currency as specified by the parties from among those included in the list of available Currency pairs. The Put Currency and Call Currency must represent a traded pair included in the list of available Currency Pairs.  Put Currency Amount:  As specified by the parties or, if not so specified, derived from the Call Currency Amount and Strike Price.  Strike Price:  As specified by the parties (if only one of the Put Currency or Call Currency is specified).  If no Strike Price is specified and Automatic Exercise is applicable, the Strike Price will be calculated using the Put Currency and Call Currency in order to determine if the option is to be automatically exercised.  Reference Currency:  As specified by the parties.  Settlement Currency:  As specified by the parties.  Settlement Rate:  As specified by the parties or otherwise per the 1998 Definitions.  Settlement Rate Option:  As specified by the parties.  Expiration Date:  As specified by the parties.  Latest Exercise Time:  The time in the location specified by the parties.  Latest Exercise Time:  The Expiration Time, unless otherwise specified by the parties.  Latest Exercise Time:  The Expiration Time, unless otherwise specified by the parties.  Automatic Exercise:  Applicable, unless otherwise specified by the parties.  Settlement Amount:  In the case of a digital or binary option, as specified by the parties.  Settlement Amount:  As specified by the parties.		traded pair included in the list of available Currency
those included in the list of available Currency Pairs. The Put Currency and Call Currency must represent a traded pair included in the list of available Currency Pairs.  Put Currency Amount:  As specified by the parties or, if not so specified, derived from the Call Currency Amount and Strike Price.  Strike Price:  As specified by the parties (if only one of the Put Currency or Call Currency is specified).  If no Strike Price is specified and Automatic Exercise is applicable, the Strike Price will be calculated using the Put Currency and Call Currency in order to determine if the option is to be automatically exercised.  Reference Currency:  As specified by the parties.  Settlement Currency:  As specified by the parties.  Settlement Rate:  As specified by the parties or otherwise per the 1998 Definitions.  Settlement Rate Option:  As specified by the parties.  Expiration Date:  As specified by the parties.  Latest Exercise Time:  The time in the location specified by the parties.  Latest Exercise Time:  The Expiration Time, unless otherwise specified by the parties.  The Expiration Time, unless otherwise specified by the parties.  Automatic Exercise:  Applicable, unless otherwise specified by the parties.  Settlement:  Deliverable or Cash Settlement  Settlement Amount:  In the case of a digital or binary option, as specified by the parties.  Settlement Date:  As specified by the parties.	Call Currency Amount:	
traded pair included in the list of available Currency Pairs.  Put Currency Amount:  As specified by the parties or, if not so specified, derived from the Call Currency Amount and Strike Price.  Strike Price:  As specified by the parties (if only one of the Put Currency or Call Currency is specified).  If no Strike Price is specified and Automatic Exercise is applicable, the Strike Price will be calculated using the Put Currency and Call Currency in order to determine if the option is to be automatically exercised.  Reference Currency:  As specified by the parties.  Settlement Currency:  As specified by the parties.  Settlement Rate:  As specified by the parties or otherwise per the 1998 Definitions.  Settlement Rate Option:  As specified by the parties.  Expiration Date:  As specified by the parties.  Latest Exercise Time:  The time in the location specified by the parties.  Latest Exercise Time:  The Expiration Time, unless otherwise specified by the parties.  Automatic Exercise:  Applicable, unless otherwise specified by the parties.  Settlement:  Deliverable or Cash Settlement  Settlement Amount:  In the case of a digital or binary option, as specified by the parties.  Settlement Date:  As specified by the parties.  As specified by the parties.  Valuation Date:  As specified by the parties.  As specified by the parties.  As specified by the parties.  Averaging Dates:  As specified by the parties.	Put Currency:	
Strike Price:  As specified by the parties (if only one of the Put Currency or Call Currency is specified).  If no Strike Price is specified and Automatic Exercise is applicable, the Strike Price will be calculated using the Put Currency and Call Currency in order to determine if the option is to be automatically exercised.  Reference Currency:  As specified by the parties.  Settlement Currency:  As specified by the parties.  Settlement Rate:  As specified by the parties or otherwise per the 1998 Definitions.  Settlement Rate Option:  As specified by the parties.  Expiration Date:  As specified by the parties.  The time in the location specified by the parties.  Latest Exercise Time:  The Expiration Time, unless otherwise specified by the parties. This applies only where the Currency Option Style is American.  Automatic Exercise:  Applicable, unless otherwise specified by the parties.  Settlement:  Deliverable or Cash Settlement  Settlement Amount:  In the case of a digital or binary option, as specified by the parties.  Settlement Date:  As specified by the parties.		traded pair included in the list of available Currency
Currency or Call Currency is specified).  If no Strike Price is specified and Automatic Exercise is applicable, the Strike Price will be calculated using the Put Currency and Call Currency in order to determine if the option is to be automatically exercised.  Reference Currency:  As specified by the parties.  Settlement Currency:  As specified by the parties.  Settlement Rate:  As specified by the parties or otherwise per the 1998 Definitions.  Settlement Rate Option:  As specified by the parties.  Expiration Date:  As specified by the parties.  Expiration Time:  The time in the location specified by the parties.  Latest Exercise Time:  The Expiration Time, unless otherwise specified by the parties. This applies only where the Currency Option Style is American.  Automatic Exercise:  Applicable, unless otherwise specified by the parties.  Settlement:  Deliverable or Cash Settlement  Settlement Amount:  In the case of a digital or binary option, as specified by the parties.  Settlement Date:  As specified by the parties.  Valuation Date:  As specified by the parties.	Put Currency Amount:	
applicable, the Strike Price will be calculated using the Put Currency and Call Currency in order to determine if the option is to be automatically exercised.  Reference Currency: As specified by the parties.  Settlement Currency: As specified by the parties.  Settlement Rate: As specified by the parties or otherwise per the 1998 Definitions.  Settlement Rate Option: As specified by the parties.  Expiration Date: As specified by the parties.  Expiration Time: The time in the location specified by the parties.  Latest Exercise Time: The Expiration Time, unless otherwise specified by the parties. This applies only where the Currency Option Style is American.  Automatic Exercise: Applicable, unless otherwise specified by the parties.  Settlement: Deliverable or Cash Settlement  Settlement Amount: In the case of a digital or binary option, as specified by the parties.  Settlement Date: As specified by the parties.  Valuation Date: As specified by the parties.	Strike Price:	
Settlement Currency:  Settlement Rate:  As specified by the parties or otherwise per the 1998 Definitions.  Settlement Rate Option:  As specified by the parties.  Expiration Date:  As specified by the parties.  Expiration Time:  The time in the location specified by the parities.  Latest Exercise Time:  The Expiration Time, unless otherwise specified by the parties. This applies only where the Currency Option Style is American.  Automatic Exercise:  Applicable, unless otherwise specified by the parties.  Settlement:  Deliverable or Cash Settlement  Settlement Amount:  In the case of a digital or binary option, as specified by the parties.  Settlement Date:  As specified by the parties.  Valuation Date:  As specified by the parties.		applicable, the Strike Price will be calculated using the Put Currency and Call Currency in order to determine if
Settlement Rate:  As specified by the parties or otherwise per the 1998 Definitions.  Settlement Rate Option:  As specified by the parties.  Expiration Date:  As specified by the parties.  Expiration Time:  The time in the location specified by the parties.  Latest Exercise Time:  The Expiration Time, unless otherwise specified by the parties. This applies only where the Currency Option Style is American.  Automatic Exercise:  Applicable, unless otherwise specified by the parties.  Settlement:  Deliverable or Cash Settlement  Settlement Amount:  In the case of a digital or binary option, as specified by the parties.  Settlement Date:  As specified by the parties.  Valuation Date:  As specified by the parties.	Reference Currency:	As specified by the parties.
Settlement Rate Option:  As specified by the parties.  Expiration Date:  As specified by the parties.  Expiration Time:  The time in the location specified by the parties.  Latest Exercise Time:  The Expiration Time, unless otherwise specified by the parties. This applies only where the Currency Option Style is American.  Automatic Exercise:  Applicable, unless otherwise specified by the parties.  Settlement:  Deliverable or Cash Settlement  Settlement Amount:  In the case of a digital or binary option, as specified by the parties.  Settlement Date:  As specified by the parties.  Valuation Date:  As specified by the parties.  As specified by the parties.  Premium:  As specified by the parties.	Settlement Currency:	As specified by the parties.
Expiration Date:  As specified by the parties.  Expiration Time:  The time in the location specified by the parities.  Latest Exercise Time:  The Expiration Time, unless otherwise specified by the parties. This applies only where the Currency Option Style is American.  Automatic Exercise:  Applicable, unless otherwise specified by the parties.  Settlement:  Deliverable or Cash Settlement  Settlement Amount:  In the case of a digital or binary option, as specified by the parties.  Settlement Date:  As specified by the parties.  Valuation Date:  As specified by the parties.  As specified by the parties.  Premium:  As specified by the parties.	Settlement Rate:	
Expiration Time:  Latest Exercise Time:  The time in the location specified by the parities.  Latest Exercise Time:  The Expiration Time, unless otherwise specified by the parties. This applies only where the Currency Option Style is American.  Automatic Exercise:  Applicable, unless otherwise specified by the parties.  Settlement:  Deliverable or Cash Settlement  In the case of a digital or binary option, as specified by the parties.  Settlement Date:  As specified by the parties.  Valuation Date:  As specified by the parties.  As specified by the parties.  Premium:  As specified by the parties.	Settlement Rate Option:	As specified by the parties.
Latest Exercise Time:  The Expiration Time, unless otherwise specified by the parties. This applies only where the Currency Option Style is American.  Automatic Exercise:  Applicable, unless otherwise specified by the parties.  Deliverable or Cash Settlement  Settlement Amount:  In the case of a digital or binary option, as specified by the parties.  Settlement Date:  As specified by the parties.  Valuation Date:  As specified by the parties.  As specified by the parties.  Premium:  As specified by the parties.	Expiration Date:	As specified by the parties.
parties. This applies only where the Currency Option Style is American.  Automatic Exercise: Applicable, unless otherwise specified by the parties.  Settlement: Deliverable or Cash Settlement  Settlement Amount: In the case of a digital or binary option, as specified by the parties.  Settlement Date: As specified by the parties.  Valuation Date: As specified by the parties.  Averaging Dates: As specified by the parties.  Premium: As specified by the parties.	Expiration Time:	The time in the location specified by the parities.
Settlement:  Deliverable or Cash Settlement  Settlement Amount:  In the case of a digital or binary option, as specified by the parties.  Settlement Date:  As specified by the parties.  Valuation Date:  As specified by the parties.  As specified by the parties.  As specified by the parties.  Premium:  As specified by the parties.	Latest Exercise Time:	parties. This applies only where the Currency Option
Settlement Amount:  In the case of a digital or binary option, as specified by the parties.  Settlement Date:  As specified by the parties.  Valuation Date:  As specified by the parties.  Averaging Dates:  As specified by the parties.  Premium:  As specified by the parties.	Automatic Exercise:	Applicable, unless otherwise specified by the parties.
the parties.  Settlement Date: As specified by the parties.  Valuation Date: As specified by the parties.  Averaging Dates: As specified by the parties.  Premium: As specified by the parties.	Settlement:	Deliverable or Cash Settlement
Valuation Date:  As specified by the parties.  Averaging Dates:  As specified by the parties.  Premium:  As specified by the parties.	Settlement Amount:	
Averaging Dates:  As specified by the parties.  Premium:  As specified by the parties.	Settlement Date:	As specified by the parties.
Premium: As specified by the parties.	Valuation Date:	As specified by the parties.
1 7 1	Averaging Dates:	As specified by the parties.
Premium Payment Date: As specified by the parties.	Premium:	As specified by the parties.
	Premium Payment Date:	As specified by the parties.

Barrier Event:	As specified by the parties.
Calculation Agent:	As specified by the parties.
Business Day:	As specified by the parties.
Business Day Convention:	As specified by the parties.
Disruption Events:	As specified by the parties.
Disruption Fallbacks:	As specified by the parties for each applicable Disruption Event or otherwise per the 1998 Definitions.

#### Deliverable Foreign Exchange Option Available Currency Pairs

AUD/CAD	CNH/AUD	EUR/SAR	JPY/CNH	THB/HKD
AUD/CHF	CNH/CAD	EUR/SEK	JPY/HKD	THB/JPY
AUD/CNH	CNH/EUR	EUR/SGD	JPY/SGD	THB/NZD
AUD/HKD	CNH/GBP	EUR/THB	JPY/THB	THB/SGD
AUD/JPY	CNH/HKD	EUR/TRY	MXN/JPY	TRY/JPY
AUD/MXN	CNH/JPY	EUR/USD	NOK/JPY	USD/AED
AUD/NOK	CNH/NZD	EUR/ZAR	NOK/SEK	USD/BHD
AUD/NZD	CNH/SGD	GBP/AUD	NZD/CAD	USD/CAD
AUD/SEK	CNH/THB	GBP/CAD	NZD/CHF	USD/CHF
AUD/SGD	EUR/AED	GBP/CHF	NZD/CNH	USD/CNH
AUD/THB	EUR/AUD	GBP/CNH	NZD/HKD	USD/CZK
AUD/USD	EUR/BHD	GBP/HKD	NZD/JPY	USD/DKK
AUD/ZAR	EUR/CAD	GBP/JPY	NZD/NOK	USD/HKD
CAD/CHF	EUR/CHF	GBP/MXN	NZD/SEK	USD/HUF
CAD/CNH	EUR/CNH	GBP/NOK	NZD/SGD	USD/ILS
CAD/HKD	EUR/CZK	GBP/NZD	NZD/THB	USD/ISK
CAD/JPY	EUR/DKK	GBP/SEK	NZD/USD	USD/JPY
CAD/MXN	EUR/GBP	GBP/SGD	SEK/JPY	USD/KWD
CAD/NOK	EUR/HKD	GBP/THB	SGD/AUD	USD/MXN
CAD/SEK	EUR/HUF	GBP/TRY	SGD/CAD	USD/NOK
CAD/SGD	EUR/ILS	GBP/USD	SGD/CNH	USD/OMR
CAD/THB	EUR/ISK	GBP/ZAR	SGD/EUR	USD/PLN
CHF/CNH	EUR/JPY	HKD/AUD	SGD/GBP	USD/QAR
CHF/HKD	EUR/KWD	HKD/CAD	SGD/HKD	USD/RON
CHF/JPY	EUR/MXN	HKD/CHF	SGD/JPY	USD/RUB
CHF/MXN	EUR/NOK	HKD/CNH	SGD/NZD	USD/SAR

# Deliverable Foreign Exchange Options

CHF/NOK	EUR/NZD	HKD/EUR	SGD/THB	USD/SEK
CHF/PLN	EUR/OMR	HKD/GBP	THB/AUD	USD/SGD
CHF/SEK	EUR/PLN	HKD/JPY	THB/CHF	USD/THB
CHF/SGD	EUR/QAR	HKD/NZD	THB/CNH	USD/TRY
CHF/THB	EUR/RON	HKD/SGD	THB/EUR	USD/ZAR
CHF/TRY	EUR/RUB	HKD/THB	THB/GBP	ZAR/JPY

#### **Equity Index Swaps**

Summary:	This covers equity index swaps (each, an "Equity Index Swap").
Limitations on Available Selections and Default Settings:	The terms under which an Equity Index Swap may be traded are shown below or in the attached tables.
	For amounts or rates, the relevant term cannot be less than the specified Minimum, must represent an even Increment and cannot exceed the Maximum; for a date, the date cannot be earlier than Earliest nor later than Latest.
	For Business Days, the defaults shall be the locations specified for the relevant currency, any additional locations specified for the relevant Floating Rate Options.
	The parties may add additional locations from the Available Locations and may eliminate some or all of the other locations, so long as there is at least one location in which payment may be made.
	For these purposes "TARGET" is considered a location.
	In many cases there are normal "vanilla" terms on which the parties will transact. These are shown as "Default" and will apply unless the parties vary them.
	It should be noted that these contracts can be traded in a variety of currencies. Since each national market has its own peculiarities, the "Available Terms" and/or "Default Terms" may vary by currency.
	In some cases, the same contract might have different terms depending on the market in which it is traded ( <i>e.g.</i> , London versus NY). In that case the default settings may vary by market.
Incorporated Standards:	This contract description incorporates by reference the following industry standard documentation and standards:
	(a) 2006 ISDA Definitions (b) 2002 ISDA Equity Derivatives Definitions ("Equity Definitions")
	(c) Annex IS to 2009 Americas Master Equity Derivatives Confirmation, to 2007 European Master Equity Derivatives Confirmation Agreement (for EMEA indices, as indicated on the Equity Index Available
	Indices attached) or to Second Revised 2005 AEJ Interdealer Master Equity Derivatives Confirmation Agreement (for AEJ indices, as indicated on the Equity Index Available Indices attached)

	(d) the Revised ISDA AEJ Reference Price Source
	Matrix (June 25, 2009, or as updated effective prior to
	the Trade Date) ("AEJ Source")
	For convenience, certain terms are mapped to their
	FpML 5.5 equivalent.
Product Type/ISDA OTC Taxonomy:	1 pivil 3.3 equivalent.
ISDA OTC Asset Class:	Equity
ISDA OTC Base Product:	Swap
ISDA OTC Sub-Product:	Price Return Basic Performance
ISDA OTC Transaction type:	Single Index
Further Limitations:	None
Terms:	TVOICE
Trade Date:	As agreed by the parties.
Strike Date:	For a Forward Starting Transaction, as agreed by the
	parties (only for EMEA Indices).
Forward Starting:	As per Annex IS (only for EMEA Indices).
Notional Amount ("notional"):	An amount in one of the Available Currencies (see below) agreed by the parties.
Effective Date ("effectiveDate"):	(i) The date specified by the parties, adjusted in
Effective Date ( effectiveDate ).	accordance with any applicable Business Day
	Convention, or (ii) in the case of AEJ Indices, per Annex
	IS.
Effective Date Business Days:	As specified by the parties from among the Available
	Business Days (except for AEJ Indices).
Effective Date Business Day Convention:	As specified by the parties from among the Available Business Day Conventions (except for AEJ Indices).
Termination Date ("terminationDate"):	Per Annex IS, unless otherwise specified by the parties.
Index:	As specified by the parties from among the Available Indices.
Number of Index Units:	As specified by the parties or, if not so specified,
	determined by Annex IS (except for AEJ Indices).
Index Unit:	Per Annex IS (except for AEJ Indices and EMEA Indices).
Exchange(s):	(i) Per Annex IS, unless otherwise specified by the
	parties, or (ii) in the case of AEJ Indices, as specified by the parties.
Multiple Exchange Index Annex/Component Security	Per Annex IS (EMEA Indices only).
Index Annex:	Tot Timor to (Little Findices only).
Related Exchanges:	(i) Per Annex IS, unless otherwise specified by the
	parties, or (ii) in the case of AEJ Indices, as specified by
	the parties.
Hedging Party:	(i) As specified by the parties, or (ii) in the case of AEJ
	Indices, per Annex IS.
Determining Party:	(i) As specified by the parties, or (ii) in the case of AEJ
	Indices, per Annex IS.
Equity Amounts:	1
Equity Amount Payer ("payerPartyReference"):	As specified by the parties.
Equity Notional Amount:	As specified by the parties.
Equity Notional Reset:	As per Annex IS.
Type of Return:	(i) As specified by the parties, or (ii) in the case of AEJ
	Indices, per Annex IS unless specified by the parties.
Initial Price Election:	As specified by the parties (in the case of an EMEA
	Index only).

Initial Price:	As specified by the parties and (other than in the case of AEJ Indices) adjusted in accordance with Annex IS.
Final Price Election:	As specified by the parties (in the case of an EMEA
Final File Election:	Index only).
Final Price:	(i) As per Annex IS, or (ii) in the case of AEJ Indices, as
	specified by the parties or, if not so specified, per the
	Equity Definitions.
Valuation Time:	(i) As per Annex IS, or (ii) in the case of AEJ Indices, as
	specified by the parties or, if not so specified, per the
	Equity Definitions.
Valuation Dates:	As specified by the parties.
Averaging Dates:	In the case of AEJ Indices, as and if specified by the
	parties.
Floating Amount:	
Floating Rate Payer ("payerPartyReference"):	As specified by the parties.
Notional Amount ("notional Amount"):	(i) As per Annex IS, or (ii) in the case of AEJ Indices, as
	specified by the parties or, if not so specified, per the
	Equity Definitions.
Payment Dates:	As per Annex IS, unless otherwise specified by the
	parties.
Initial Floating Rate:	As specified by the parties.
Floating Rate Option ("floatingRateIndex"):	As specified by the parties.
Designated Maturity ("indexTenor"):	As specified by the parties.
Linear Interpolation:	For the Calculation Periods specified by the parties to the
	extent permitted by Annex IS.
Shorter Designated Maturity for Linear Interpolation:  Longer Designated Maturity for Linear Interpolation:	For a Calculation Period to which Linear Interpolation
	applies, as specified by the parties.
	For a Calculation Period to which Linear Interpolation
	applies, as specified by the parties.
Spread:	As specified by the parties.
Day Count Fraction:	As specified by the parties.
Reset Dates ("resetDate"):	As per Annex IS.
Payment Dates Business Days:	As per Annex IS.
Business Days (Other Than Payment Dates):	As specified by the parties.
Business Day Convention (Other Than Payment Dates):	As per Annex IS, unless otherwise specified by the
	parties.
Compounding:	As specified by the parties (EMEA Indices only).
Compounding Dates:	As specified by the parties if Compounding is applicable
	(EMEA Indices only).
Futures Price Valuation: Futures Price Valuation:	(i) As nor Annoy IC unless otherwise specified by the
Futures Price Valuation:	(i) As per Annex IS, unless otherwise specified by the
	parties, or (ii) in the case of AEJ Indices, as specified by the parties or, if not so specified, per the Equity
	Definitions.
Exchange-traded Contract:	As specified in the Transaction Supplement.
Adjustment to Section 6.8 of the Equity Definitions:	As per Annex IS (other than in the case of AEJ Indices).
Settlement Terms:	125 per rainiex 15 (outer than in the case of ALS indices).
Cash Settlement:	As per Annex IS.
Settlement Currency:	(i) As per Annex IS, or (ii) in the case of AEJ Indices, as
	agreed by the parties.
FX Rate:	As agreed by the parties or as specified by the parties
	from among the Available FX Rates.
	among and 11; among 111 fames.

Dividends:	
Dividend Payment Date(s):	If type of return is "Total Return" (i) as per Annex IS
Dividend Fayinent Date(s).	unless otherwise agreed by the parties, or (ii) in the case
	of AEJ Indices, as agreed by the parties or, absent such
	agreement, per the Equity Definitions.
Dividend Period:  Dividend Amount:  Relevant Dividend:	If type of return is "Total Return" (i) as per Annex IS, or
	(ii) in the case of AEJ Indices, as agreed by the parties
	or, absent such agreement, per the Equity Definitions.
	If type of return is "Total Return" (i) as per Annex IS, or
	(ii) in the case of AEJ Indices, as agreed by the parties
	or, absent such agreement, per the Equity Definitions.
	If type of return is "Total Return" (i) as per Annex IS, or
	(ii) in the case of AEJ Indices, as agreed by the parties
	or, absent such agreement, per the Equity Definitions.
Reinvestment of Dividends:	If type of return is "Total Return" (i) as per Annex IS, or
	(ii) in the case of AEJ Indices, as agreed by the parties.
Dividend Recovery:	If type of return is "Total Return" (i) as per Annex IS, or
	(ii) in the case of AEJ Indices, as agreed by the parties
	or, absent such agreement, per the Equity Definitions.
Declared Cash Dividend Percentage:	If type of return is "Total Return" (i) as per Annex IS
	unless otherwise agreed by the parties, (ii) in the case of
	AEJ Indices, as and if agreed by the parties, or (iii) in the
	case of EMEA Indices, as agreed by the parties.
Declared Cash Equivalent Dividend Percentage:	If type of return is "Total Return" (i) as per Annex IS
Declared Cash Equivalent Dividend Tereentage.	unless otherwise agreed by the parties, or (ii) in the case
	of AEJ Indices, as and if agreed by the parties.
Indox Adjustment Events	of AEJ findices, as and it agreed by the parties.
Index Adjustment Events:  Index Cancellation:	As per Annex IS.
Index Modification:	As per Annex IS.  As per Annex IS.
Index Disruption:	As per Annex IS.  As per Annex IS.
Additional Disruption Events:	As per Aimex 15.
	(') A
Change in Law:	(i) As agreed by the parties from among the provisions in
	Annex IS, or (ii) in the case of AEJ Indices, as per
Y 1 700	Annex IS unless otherwise agreed by the parties.
Insolvency Filing:	(i) As per Annex IS, or (ii) in the case of AEJ Indices, as
	agreed by the parties or, absent such agreement, per the
	Equity Definitions.
Hedging Disruption:	(i) As agreed by the parties from among the provisions in
	Annex IS, or (ii) in the case of AEJ Indices, as per
	Annex IS (as applicable to the relevant country of
	underlier) unless otherwise agreed by the parties.
Increased Cost of Hedging:	(i) As agreed by the parties from among the provisions in
	Annex IS, or (ii) in the case of AEJ Indices, as agreed by
	the parties or, absent such agreement, per the Equity
	Definition.
Consequences of Hedging Disruption:	(i) As agreed by the parties from among the provisions in
	Annex IS, or (ii) in the case of AEJ Indices, as agreed by
	the parties or, absent such agreement, per the Equity
	Definition
Loss of Stock Rorrow	Definition.  (i) As per Appey IS, upless otherwise specified by the
Loss of Stock Borrow:	(i) As per Annex IS, unless otherwise specified by the
Loss of Stock Borrow:	(i) As per Annex IS, unless otherwise specified by the parties, or (ii) in the case of AEJ Indices, as agreed by
Loss of Stock Borrow:	(i) As per Annex IS, unless otherwise specified by the

Increased Cost of Stock Borrow:	(i) As per Annex IS, unless otherwise specified by the parties, or (ii) in the case of AEJ Indices, as agreed by the parties or, absent such agreement, per the Equity Definition.
Cancellation Amount:	(i) As agreed by the parties from among the provisions in Annex IS, or (ii) in the case of AEJ Indices, as agreed by the parties or, absent such agreement, per the Equity Definition.
Non-Reliance:	As per Annex IS.
Agreements and Acknowledgements Regarding Hedging Activities:	As per Annex IS.
Additional Acknowledgements:	As per Annex IS.
Index Disclaimer:	As per Annex IS.
Optional Early Termination:	(i) As agreed by the parties from among the provisions in Annex IS, or (ii) in the case of AEJ Indices, inapplicable.
Break Funding Recovery:	If Optional Early Termination is applicable, as specified by the parties.
Break Fee:	As specified by the parties in the case of EMEA Indices.
Calculation Agent:	(i) As agreed by the parties, or (ii) in the case of AEJ Indices, per Annex IS unless otherwise agreed by the parties.

## Equity Index Available Currencies and Required Business Days

Three Letter Currency Code (ISDA/ISO)	Currency Name (ISDA)	Basic Business Day Locations For Currency (FpML Codes)
AUD	Australian Dollar	AUSY
CAD	Canadian Dollar	CATO
EUR	Euro	EUTA
GBP	Sterling	GBLO
HKD	Hong Kong Dollar	НКНК
JPY	Japanese Yen	JPTO
KRW	Korean Won	KRSE
SEK	Swedish Krona	SEST
USD	United States Dollars	USNY

## Equity Index Available Business Day Conventions

ISDA Name
Following
Modified/Modified Following
No Adjustment
Preceding
FRN Convention/Eurodollar Convention

### Equity Index Available Indices

Abbr	Name
AEX	AEX Index (EMEA)
AMZX	Alerian MLP Index Total Return
AMZIXVWAP	Alerian MLP Infrastructure Index Total Return VWAP
AS51	S&P/ASX 200 (AEJ)
BEL20	BEL20 Index (EMEA)
CAC	Cotation Assistée en Continu 40 (EMEA)

DAX	Deutscher Aktien Index (EMEA)
DJITR	Dow Jones Industrial Average Total Return
DJUSRE	Dow Jones U.S. Real Estate Index
EWTRGSPC	REUTERS – REU - S&P EW 500 INDEX
FTSEMIB	FTSE MIB Index (EMEA)
GCUDCA	MSCI Daily TR Gross Small Cap Canada USD
GCUDUS	MSCI Daily Total Return Gross Small Cap USA USD
GDDLCA	MSCI Canada Index CAD Total Return (Gross Dividends)
GDDLCA	MSCI Canada Index CAD Total Return (Gross Dividends)  MSCI Canada Index USD Daily Total Return (Gross Dividends)
	MSCI EAFE Index Total Return (Gross Dividends)
GDDUEAFE	MSCI North American Index USD Total Return (Gross Dividends)
GDDUNA	
GDDUUS	MSCI US Index Total Return (Gross Dividends)
HSCEI	Hang Seng China Enterprises Index (AEJ)
HSI	Hang Seng Index (AEJ)
IBEX	IBEX 35 Index(EMEA)
IBOV	BOVESPA Index
IXBTR	S&P 500 Material Select Sector Total Return
IXCPR	Communication Services Select Sector Index
IXCTR	Communication Services Select Sector Index TR
IXETR	S&P 500 Energy Select Sector Total Return
IXITR	S&P 500 Industrials Select Sector Total Return
IXMTR	S&P 500 Financials Select Sector Total Return
IXRTR	S&P 500 Consumer Staples Select Sector Total Return
IXTTR	S&P 500 Technology Select Sector Total Return
IXUTR	S&P 500 Utilities Select Sector Total Return
IXVTR	S&P 500 Health Care Select Sector Total Return
IXYTR	S&P 500 Consumer Discretionary Select Sector Total Return
KOSPI	Korea Composite Stock Price Index (AEJ)
M1CNA	MSCI China A Inclusion USD Index (Net)
MEXBOL	Mexican IPC Index (Indice de Precios y Cotizaciones)
MSLUELAN	MSCI Emerging Markets Latin America Small Cap Index (USD) (Net Dividends)
NDDLCA	MSCI Canada Index CAD Total Return (Net Dividends)
NDDUEAFE	MSCI EAFE Net Total Return USD Index
NDDUNA	MSCI North American Index USD Total Return (Net Dividends)
NDDUUS	MSCI US Index Total Return (Net Dividends)
NDDUJN	MSCI Japan Index Total Return (Net Dividends)
NDEUMXF	MSCI Mexico Index USD Total Return (Net Dividends)
NDEUSCH	MSCI Chile Index Total Return (Net Dividends)
NDEUSCO	MSCI Colombia Index Total Return (Net Dividends)
NDEUSPR	MSCI Peru Index Total Return (Net Dividends)
NDUEBRAF	MSCI Brazil Index USD Total Return (Net Dividends)
NDUEEGFL	MSCI Emerging Markets Latin America USD
NDX	NASDAQ-100
NKY	Nikkei 225 Index (AEJ)
OEXT	S&P 100 Total Return
OMX	OMX Stockholm 30 (EMEA)
RGUSFL	Russell 1000 Financial
RU10GRTR	Russell 1000 Growth Total Return
RU10INTR	Russell 1000 Total Return
RU10VATR	Russell 1000 Value Total Return
RU20GRTR	Russell 2000 Growth Total Return
RU20INTR	Russell 2000 Growth Total Return
	Russell 2000 Value Total Return
RU20VATR	Kussen 2000 value 10tai Ketuni

SP5LVIT	S&P 500 Low Volatility Total Return Index
SPSIBITR	S&P Biotechnology Select Industry Total Return Index
SPSIOP	S&P Oil & Gas Exploration & Production Select Industry Index
SPTRCOND	S&P 500 Consumer Discretionary Sector Total Return Index
SPTRCONS	S&P 500 Consumer Staples Sector Total Return Index
SPTRENRS	S&P 500 Energy Sector Total Return Index
SPTRFINL	S&P 500 Financials Sector Total Return Index
SPTRHLTH	S&P 500 Health Care Sector Total Return Index
SPTRINDU	S&P 500 Industrials Sector Total Return Index
SPTRMATR	S&P 500 Materials Sector Total Return Index
SPTRMDCP	S&P MidCap 400 Total Return
SPTRRLST	S&P 500 Real Estate Sector Total Return Index
SPTRSMCP	S&P SmallCap 600 Total Return
SPTRSVX	S&P 500 Value Total Return Index
SPTRUTIL	S&P 500 Utilities Sector Total Return Index
SPXT	S&P 500 Total Return
<u>STBANKXR</u>	S&P/TSX Composite Banks GICS Level Industry Group Total Return Index
STCHEMR	S&P/TSX Composite Index Chemicals GICS Industry Total Return
STENRSR	S&P/TSX Composite Energy Index Total Return Swap
STFINLR	S&P/TSX Composite Financials GICS Level Sector Total Return Index
STINSUR	S&P/TSX Composite Insurance GICS Industry Group Total Return Index
STMEDAR	S&P/TSX Composite Media GICS Industry Group Total Return Index
STTELSR	S&P/TSX Composite Telecom Services GICS Level Sector Total Return Index
STUTILR	S&P/TSX Composite Utilities GICS Level Sector Total Return Index
SX5E	Eurostoxx 50 Index (EMEA)
TSX69	S&P/TSX 60 Index
TTENAR	S&P/TSX Capped Energy Total Return Index
UKX	FTSE 100 Index (EMEA)
XNDX	NASDAQ-100 Total Return
XSOX	PHLX Semiconductor Sector Index Total Return

### Equity Index Available FX Rates

Currency Pair	Available FX Rates	
KRW/USD	BB: The rate implied by sourcing the Index on	
	Bloomberg via "KOSPI>USD>GO"	
	ISDA: The rate determined in accordance with the AEJ	
	Source	

## Equity Index Available Day Count Fractions

ISDA Name		
1/1		
30/360, 360/360, Bond Basis		
Actual/360		
Actual/365 (Fixed), Act/365 (Fixed), A/365 (Fixed), A/365F		
Actual/Actual, Actual/Actual (ISDA), Act/Act, Act/Act (ISDA)		
Actual/Actual (ICMA), Act/Act, Act/Act (ICMA)		

## Equity Index Earliest and Latest Effective and Termination Dates

Currency	Earliest Effective	Latest Effective Date	Earliest Termination	Latest Termination
	Date		Date	Date
N/A	N/A	N/A	N/A	N/A

## **Equity Index Notional Amounts**

Currency	Minimum	Increment	Maximum	Default
USD	10,000,000	1,000,000	N/A	N/A

## **Equity Index Floating Rate Options and Defaults**

Floating Rate Option	Available Tenors	Default Tenor	Default Day Count Fraction	Additional Business Day Locations
AUD-AONIA-OIS-COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
AUD-AONIA-OIS- COMPOUND-SwapMarker	All quoted tenors	N/A	Per ISDA 2006	N
AUD-BBR-AUBBSW	All quoted tenors	N/A	Per ISDA 2006	N
AUD-BBR-BBSW	All quoted tenors	N/A	Per ISDA 2006	N
AUD-BBR-BBSW-Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
AUD-BBR-BBSY (BID)	All quoted tenors	N/A	Per ISDA 2006	N
AUD-BBR-ISDC	All quoted tenors	N/A	Per ISDA 2006	N
AUD-LIBOR-BBA	All quoted tenors	N/A	Per ISDA 2006	N
AUD-LIBOR-BBA-Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
AUD-LIBOR-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
AUD-Quarterly Swap Rate-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
AUD-Quarterly Swap Rate-ICAP- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
AUD-Semi-annual Swap Rate-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
AUD-Semi-Annual Swap Rate- ICAP-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
AUD-Swap Rate-Reuters	All quoted tenors	N/A	Per ISDA 2006	N
CAD-BA-CDOR	All quoted tenors	N/A	Per ISDA 2006	N
CAD-BA-CDOR-Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
CAD-BA-ISDD	All quoted tenors	N/A	Per ISDA 2006	N
CAD-BA-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
CAD-BA-Reuters	All quoted tenors	N/A	Per ISDA 2006	N
CAD-BA-Telerate	All quoted tenors	N/A	Per ISDA 2006	N
CAD-CORRA-OIS-COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
CAD-ISDA-Swap Rate	All quoted tenors	N/A	Per ISDA 2006	N
CAD-LIBOR-BBA	All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
CAD-LIBOR-BBA-Bloomberg	All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
CAD-LIBOR-BBA-SwapMarker	All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
CAD-LIBOR-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
CAD-REPO-CORRA	All quoted tenors	N/A	Per ISDA 2006	N

Floating Rate Option	Available Tenors	Default Tenor	Default Day Count Fraction	Additional Business Day Locations
CAD-TBILL-ISDD	All quoted tenors	N/A	Per ISDA 2006	N
CAD-TBILL-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
CAD-TBILL-Reuters	All quoted tenors	N/A	Per ISDA 2006	N
CAD-TBILL-Telerate	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-10:00	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-10:00- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-10:00- ICAP	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-10:00- SwapMarker	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-11:00	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-11:00- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-11:00- ICAP	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-11:00- SwapMarker	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-3 Month	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-3 Month- SwapMarker	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EONIA-AVERAGE	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EONIA-OIS-10:00- BGCANTOR	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EONIA-OIS-10:00-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EONIA-OIS-11:00-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EONIA-OIS-COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EONIA-OIS-COMPOUND-Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EONIA-Swap-Index	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EURIBOR-Act/365	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EURIBOR-Act/365- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EURIBOR-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EURIBOR-Reuters	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EURIBOR-Telerate	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EURONIA-OIS- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
EUR-ISDA-EURIBOR Swap Rate-11:00	All quoted tenors	N/A	Per ISDA 2006	N
EUR-ISDA-EURIBOR Swap Rate-12:00	All quoted tenors	N/A	Per ISDA 2006	N

Floating Rate Option	Available Tenors	Default Tenor	Default Day Count Fraction	Additional Business Day Locations
EUR-ISDA-LIBOR Swap Rate- 10:00	All quoted tenors	N/A	Per ISDA 2006	N
EUR-ISDA-LIBOR Swap Rate- 11:00	All quoted tenors	N/A	Per ISDA 2006	N
EUR-LIBOR-BBA	All quoted tenors	N/A	Per ISDA 2006	N
EUR-LIBOR-BBA-Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
EUR-LIBOR-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
EUR-TAM-CDC	All quoted tenors	N/A	Per ISDA 2006	N
EUR-TEC10-CNO	All quoted tenors	N/A	Per ISDA 2006	N
EUR-TEC10-CNO-SwapMarker	All quoted tenors	N/A	Per ISDA 2006	N
EUR-TEC10-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
EUR-TEC5-CNO	All quoted tenors	N/A	Per ISDA 2006	N
EUR-TEC5-CNO-SwapMarker	All quoted tenors	N/A	Per ISDA 2006	N
EUR-TEC5-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
EUR-TMM-CDC-COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
GBP USD-Basis Swaps-11:00- ICAP	All quoted tenors	N/A	Per ISDA 2006	N
GBP-ISDA-Swap Rate	All quoted tenors	N/A	Per ISDA 2006	N
GBP-LIBOR-BBA	All quoted tenors	N/A	Per ISDA 2006	N
GBP-LIBOR-BBA-Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
GBP-LIBOR-ISDA	All quoted tenors	N/A	Per ISDA 2006	N
GBP-LIBOR-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
GBP-Semi-Annual Swap Rate	All quoted tenors	N/A	Per ISDA 2006	N
GBP-Semi-Annual Swap Rate- 11:00-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
GBP-Semi-Annual Swap Rate- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
GBP-SONIA-OIS-11:00-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
GBP-WMBA-RONIA- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
GBP-WMBA-SONIA- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
GRD-ATHIBOR-ATHIBOR	All quoted tenors	N/A	Per ISDA 2006	N
GRD-ATHIBOR-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
GRD-ATHIBOR-Telerate	All quoted tenors	N/A	Per ISDA 2006	N
GRD-ATHIMID-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
GRD-ATHIMID-Reuters	All quoted tenors	N/A	Per ISDA 2006	N
HKD-HIBOR-HIBOR-Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
HKD-HIBOR-HIBOR=	All quoted tenors	N/A	Per ISDA 2006	N
HKD-HIBOR-HKAB	All quoted tenors	N/A	Per ISDA 2006	N
HKD-HIBOR-HKAB-Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N

Floating Rate Option	Available Tenors	Default Tenor	Default Day Count Fraction	Additional Business Day Locations
HKD-HIBOR-ISDC	All quoted tenors	N/A	Per ISDA 2006	N
HKD-HIBOR-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
HKD-HONIX-OIS-COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
HKD-ISDA-Swap Rate-11:00	All quoted tenors	N/A	Per ISDA 2006	N
HKD-ISDA-Swap Rate-4:00	All quoted tenors	N/A	Per ISDA 2006	N
HKD-Quarterly-Annual Swap Rate-11:00-BGCANTOR	All quoted tenors	N/A	Per ISDA 2006	N
HKD-Quarterly-Annual Swap Rate-4:00-BGCANTOR	All quoted tenors	N/A	Per ISDA 2006	N
HKD-Quarterly-Annual Swap Rate-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
JPY-BBSF-Bloomberg-10:00	All quoted tenors	N/A	Per ISDA 2006	N
JPY-BBSF-Bloomberg-15:00	All quoted tenors	N/A	Per ISDA 2006	N
JPY-ISDA-Swap Rate-10:00	All quoted tenors	N/A	Per ISDA 2006	N
JPY-ISDA-Swap Rate-15:00	All quoted tenors	N/A	Per ISDA 2006	N
JPY-LIBOR-BBA	All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
JPY-LIBOR-BBA-Bloomberg	All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
JPY-LIBOR-FRASETT	All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
JPY-LIBOR-ISDA	All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
JPY-LIBOR-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
JPY-MUTANCALL-TONAR	All quoted tenors	N/A	Per ISDA 2006	N
JPY-OIS-11:00-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
JPY-TIBOR-17096	All quoted tenors	N/A	Per ISDA 2006	N
JPY-TIBOR-17097	All quoted tenors	N/A	Per ISDA 2006	N
JPY-TIBOR-TIBM (10 Banks)	All quoted tenors	N/A	Per ISDA 2006	N
JPY-TIBOR-TIBM (5 Banks)	All quoted tenors	N/A	Per ISDA 2006	N
JPY-TIBOR-TIBM (All Banks)	All quoted tenors	N/A	Per ISDA 2006	N
JPY-TIBOR-TIBM (All Banks)- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
JPY-TIBOR-TIBM-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
JPY-TIBOR-ZTIBOR	All quoted tenors	N/A	Per ISDA 2006	N
JPY-TONA-OIS-COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
JPY-TSR-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
JPY-TSR-Reuters-10:00	All quoted tenors	N/A	Per ISDA 2006	N
JPY-TSR-Reuters-15:00	All quoted tenors	N/A	Per ISDA 2006	N
JPY-TSR-Telerate-10:00	All quoted tenors	N/A	Per ISDA 2006	N
JPY-TSR-Telerate-15:00	All quoted tenors	N/A	Per ISDA 2006	N

Floating Rate Option	Available Tenors	Default Tenor	Default Day Count Fraction	Additional Business Day Locations
KRW-CD-3220	All quoted tenors	N/A	Per ISDA 2006	N
KRW-CD-KSDA-Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
KRW-Quarterly Annual Swap Rate-3:30-ICAP	3M	N/A	Per ISDA 2006	N
KRW-Bond-3222	3M	N/A	Per ISDA 2006	N
SEK-Annual Swap Rate	All quoted tenors	N/A	Per ISDA 2006	N
SEK-Annual Swap Rate-SESWFI	All quoted tenors	N/A	Per ISDA 2006	N
SEK-SIOR-OIS-COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
SEK-STIBOR-Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
SEK-STIBOR-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
SEK-STIBOR-SIDE	All quoted tenors	N/A	Per ISDA 2006	N
SEK-Annual Swap Rate	All quoted tenors	N/A	Per ISDA 2006	N
USD-Annual Swap Rate-11:00- BGCANTOR	All quoted tenors	N/A	Per ISDA 2006	N
USD-BA-H.15	All quoted tenors	N/A	Per ISDA 2006	N
USD-BA-Reference Dealers	All quoted tenors	N/A	Per ISDA 2006	N
USD-BMA Municipal Swap Index	All quoted tenors	N/A	Per ISDA 2006	N
USD-CD-H.15	All quoted tenors	N/A	Per ISDA 2006	N
USD-CD-Reference Dealers	All quoted tenors	N/A	Per ISDA 2006	N
USD-CMS-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
USD-CMS-Reference Banks- ICAP SwapPX	All quoted tenors	N/A	Per ISDA 2006	N
USD-CMS-Reuters	All quoted tenors	N/A	Per ISDA 2006	N
USD-CMS-Telerate	All quoted tenors	N/A	Per ISDA 2006	N
USD-CMT-T7051	All quoted tenors	N/A	Per ISDA 2006	N
USD-CMT-T7052	All quoted tenors	N/A	Per ISDA 2006	N
USD-COF11-FHLBSF	All quoted tenors	N/A	Per ISDA 2006	N
USD-COF11-Reuters	All quoted tenors	N/A	Per ISDA 2006	N
USD-COF11-Telerate	All quoted tenors	N/A	Per ISDA 2006	N
USD-CP-H.15	All quoted tenors	N/A	Per ISDA 2006	N
USD-CP-Reference Dealers	All quoted tenors	N/A	Per ISDA 2006	N
USD-Federal Funds-H.15	All quoted tenors	N/A	Per ISDA 2006	N
USD-Federal Funds-H.15- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
USD-Federal Funds-H.15-OIS- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
USD-Federal Funds-Reference Dealers	All quoted tenors	N/A	Per ISDA 2006	N
USD-FFCB-DISCO	All quoted tenors	N/A	Per ISDA 2006	N
USD-ISDA-Swap Rate	All quoted tenors	N/A	Per ISDA 2006	N
USD-ISDA-Swap Rate-3:00	All quoted tenors	N/A	Per ISDA 2006	N
USD-ISDAFIX3-Swap Rate	All quoted tenors	N/A	Per ISDA 2006	N

Floating Rate Option	Available Tenors	Default Tenor	Default Day Count Fraction	Additional Business Day Locations
USD-ISDAFIX3-Swap Rate-3:00	All quoted tenors	N/A	Per ISDA 2006	N
USD-LIBOR-BBA	All quoted tenors	N/A	Per ISDA 2006	N
USD-LIBOR-BBA-Bloomberg	All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
USD-LIBOR-ISDA	All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
USD-LIBOR-LIBO	All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
USD-LIBOR-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
USD-OIS-11:00-BGCANTOR	All quoted tenors	N/A	Per ISDA 2006	N
USD-OIS-11:00-LON-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
USD-OIS-11:00-NY-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
USD-OIS-3:00-BGCANTOR	All quoted tenors	N/A	Per ISDA 2006	N
USD-OIS-3:00-NY-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
USD-Prime-H.15	All quoted tenors	N/A	Per ISDA 2006	N
USD-Prime-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
USD-S&P Index-High Grade	All quoted tenors	N/A	Per ISDA 2006	N
USD-SIBOR-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
USD-SIBOR-SIBO	All quoted tenors	N/A	Per ISDA 2006	N
USD-SOFR-Compound	N/A	N/A	N/A	N
USD-SIFMA Municipal Swap Index	All quoted tenors	N/A	Per ISDA 2006	N
USD-TBILL-H.15	All quoted tenors	N/A	Per ISDA 2006	N
USD-TBILL-H.15-Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
USD-TBILL-Secondary Market	All quoted tenors	N/A	Per ISDA 2006	N
USD-TIBOR-ISDC	All quoted tenors	N/A	Per ISDA 2006	N
USD-TIBOR-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
USD-Treasury Rate-ICAP BrokerTec	All quoted tenors	N/A	Per ISDA 2006	N
USD-Treasury Rate- SwapMarker100	All quoted tenors	N/A	Per ISDA 2006	N
USD-Treasury Rate- SwapMarker99	All quoted tenors	N/A	Per ISDA 2006	N
USD-Treasury Rate-T19901	All quoted tenors	N/A	Per ISDA 2006	N
USD-Treasury Rate-T500	All quoted tenors	N/A	Per ISDA 2006	N

## Equity Index Requirements and Defaults

Date	Requirement	Default
Effective Date Business Day		No Adjustment
Convention		

Designated Maturities for Linear	Tenors quoted next shorter and
Interpolation	longer than the actual Calculation
_	Period length

## **Equity Index Variance Swaps**

Summary/Contract Description:	This covers equity index variance swaps (each, an "Equity Index Variance Swap"). An Equity Index Variance Swap is a product used to hedge or take a direct view on the volatility of an underlying equity index by paying or receiving an amount based on the difference between the actual realized variance of an index over the life of the contract and the variance strike price agreed at contract inception.
Product Type/ISDA OTC Taxonomy:	
ISDA OTC Asset Class:	Equity
ISDA OTC Base Product:	Swap
ISDA OTC Sub-Product:	Parameter Return Variance
ISDA OTC Transaction type:	Single Index
Available Underlying Indices:	The index specified by the parties from among the indices listed in the table below titled "Equity Index Variance Swap Available Indices."
Contract Size:	The contracts are quoted in "Vega" amounts. The minimum contract size is 1,000 of the currency of which the underlying index settles in.
<b>Quoting Convention:</b>	The contracts are quoted in volatility percentage points.
Leg Conventions:	Floating Leg Rate – The realized variance rate that is calculated on the Expiration Date.
	Fixed Leg Rate – The agreed fixed rate of variance (Traded Price).
Tenor:	Tenors of any duration greater than 0 years and less than 50 years.
Trade Types:	Capped – the maximum payout of the contract is capped at an agreed price.
	Uncapped – there is no maximum payout on the contract.
Trade Start Types:	Immediate – the observation period of the contract begins on the Trade Date.
	Forward – the observation period of the contract begins on an agreed-upon date after the Trade Date.
Trade Date:	The date on which the contract is entered into.
Observation Start Date:	The Trade Date or, in the case of a forward starting transaction, an agreed-upon date after the Trade Date.
Valuation Date:	The date upon which the final rate of volatility will be calculated on using the "Applicable Formula" below.
Settlement:	The contracts are cash settled. If the difference between the realized variance and the "Variance Strike" (as agreed by the parties) is positive the seller pays the

	difference to the buyer. If the difference between the realized variance and the Variance Strike is negative the buyer pays the difference to the seller.
	Settlement of the contract occurs after the Valuation Date and in line with the settlement convention of the underlying equity index.
Settlement Payments/Payment Date:	T+2 (adjustments according to following business day convention).
Minimum Price or Incremental Price:	The contracts are quoted in volatility percentage points.  There is no minimum price or minimum incremental price for the contract.
Payment Frequency:	One time.
Payment Exchange:	The buyer of a variance swap pays a fixed rate (the Variance Strike) in exchange for a payout based on the daily realized variance.
	The seller of a variance swap receives a fixed rate (the Variance Strike) in exchange for a payout based on the daily realized variance.
Day Count:	Business Days Per Year = 252
<b>Business Day Convention:</b>	Following business day convention.
Applicable Formula:	The final realized rate of variance will be calculated using the following formula: $100x\sqrt{\frac{252\times\sum_{i=1}^{n}\left(\mathrm{Return(i)}\right)^{2}}{\mathrm{N}}}$
	Where: $Return(i) = ln(\frac{Index_i}{Index_{i-1}})$
	n = the number of observations excluding the initial observation on the Observation Start Date, but including the Valuation Date;
	i = the relevant observation day;
	Index $_i$ = the closing level of the underlying index "i" business days from the Observation Start Date, except for (i) Index $_0$ which shall equal the initial index level, and (ii) Index $_n$ which shall equal the closing level of the underlying index on the Valuation Date. Index $_{i-1}$ will be modified by deducting the dividend in case it is an exdate.
	If applicable, the volatility cap will be set at 2.5x the Volatility Strike.
	N = Expected number of observations as agreed by the parties.

	ln = the natural logarithm.
Market Disruption:	As specified by the parties.

## **Equity Index Variance Swap Available Indices**

Abbr	Name
DAX	Deutscher Aktien Index
DJITR	Dow Jones Industrial Average Total Return
DJUSRE	Dow Jones U.S. Real Estate Index
FTXIN25	FTSE China 50 Index
GDDLCA	MSCI Canada Index CAD Total Return (Gross Dividends)
GDDUEAFE	MSCI EAFE Index Total Return (Gross Dividends)
GDDUNA	MSCI North American Index USD Total Return (Gross Dividends)
GDDUUS	MSCI US Index Total Return (Gross Dividends)
HSCEI	Hang Seng China Enterprises Index
HSI	Hang Seng Index
IBOV	BOVESPA Index
KOSPI	Korea Composite Stock Price Index
MDCPSPTR	S&P MidCap 400 Total Return
MEXBOL	Mexican IPC index (Indice de Precios y Cotizaciones)
NDDLCA	MSCI Canada Index CAD Total Return (Net Dividends)
NDDUNA	MSCI North American Index USD Total Return (Net Dividends)
NDDUUS	MSCI US Index Total Return (Net Dividends)
NDEUBRAF	MSCI Brazil Index USD Total Return (Net Dividends)
NDEUMXF	MSCI Mexico Index USD Total Return (Net Dividends)
NDEUSCH	MSCI Chile Index Total Return (Net Dividends)
NDEUSCO	MSCI Colombia Index Total Return (Net Dividends)
NDUEEGF	MSCI Emerging Markets Index
NDUEEGFL	MSCI Emerging Markets Latin America USD
NDX	NASDAQ-100
OEXT	S&P 100 Total Return
RGUSFL	Russell 1000 Financial
RU10GRTR	Russell 1000 Growth Total Return
RU10INTR	Russell 1000 Total Return
RU10VATR	Russell 1000 Value Total Return
RU20GRTR	Russell 2000 Growth Total Return
RU20INTR	Russell 2000 Total Return
RU20VATR	Russell 2000 Value Total Return
SMCPSPTR	S&P SmallCap 600 Total Return
SPXT	S&P 500 Total Return
SX5E	Eurostoxx 50 Index
UKX	FTSE 100 Index

## **Equity Index Volatility Swaps**

Summary:	This covers equity index volatility swaps (each, an
	"Equity Index Volatility Swap").
Limitations on Available Selections and Default	The terms under which an Equity Index Volatility Swap
Settings:	may be traded are shown below or in the attached tables.
	For amounts or rates, the relevant term cannot be less
	than the specified Minimum, must represent an even
	Increment and cannot exceed the Maximum; for a date,
	the date cannot be earlier than Earliest nor later than
	Latest.
	For Business Days, the defaults shall be the locations
	specified for the relevant currency.
	The parties may add additional locations from the
	Available Locations and may eliminate some or all of the
	other locations, so long as there is at least one location in
	which payment may be made.
	For these purposes "TARGET" is considered a location.
	In many cases there are normal "vanilla" terms on which
	the parties will transact.
	These are shown as "Default" and will apply unless the
	parties vary them.
	It should be noted that these contracts can be traded in a
	variety of currencies.
	Since each national market has its own peculiarities, the
	"Available Terms" and/or "Default Terms" may vary by
	currency.
	In some cases, the same contract might have different
	terms depending on the market in which it is traded (e.g.,
	London versus NY).
	In that case the default settings may vary by market.
Incorporated Standards:	This contract description incorporates by reference the
por por account of the contract of the contrac	following industry standard documentation and
	standards:
	(a) 2006 ISDA Definitions
	(b) 2002 ISDA Equity Derivatives Definitions
	(c) Annex IVS to: (i) the 2006 Japan Master Variance
	Swap Confirmation Agreement for Japan Indices, (ii) the
	2007 Americas Master Variance Swap Confirmation
	Agreement, (iii) the Revised 2007 AEJ Master Variance
	Swap Confirmation Agreement for AEJ indices, or (iv)
	the 2007 European Variance Swap Master Confirmation
	Agreement for EMEA Indices (as indicated on the
	Equity Index Volatility Swap –Available Indices below)
	(d) the Market Practice Statement for Variance Swap
	Transactions Involving Japanese Shares or Indices
	Regarding When Exchange-Imposed Daily Price
	Limitations Would Constitute a Market Disruption Event
	Due To a Trading Disruption published by ISDA on
	October 22, 2009 (the "Japan Index Market Practice
	Statement") For convenience, certain terms are mapped to their
	· · · · · · · · · · · · · · · · · · ·
	FpML 5.5 equivalent.

Product Type/ISDA OTC Taxonomy:	
ISDA OTC Asset Class:	Equity
ISDA OTC Base Product:	Swap
ISDA OTC Sub-Product:	Parameter Return Volatility
ISDA OTC Transaction Type:	Single Index
Further Limitations:	None.
Terms:	
Trade Date:	As agreed by the parties.
Effective Date ("effectiveDate"):	As per Annex IVS (other than for a Japan Index).
Termination Date ("terminationDate"):	As per Annex IVS.
Exchanges:	As specified by the parties.
Related Exchanges:	As per Annex IVS.
Volatility Buyer:	Not applicable.
Volatility Seller:	Not applicable.
Volatility Cap:	If applicable, as specified by the parties.
Index:	As specified by the parties from among the Equity Index
Index.	Volatility Swap – Available Indices (see below).
<b>Equity Amounts:</b>	Volume 11 variable (100 colo III)
Equity Amount Payer ("payerPartyReference"):	The Volatility Seller.
Equity Notional Amount:	As specified by the parties (other than for an EMEA
	Index).
Equity Notional Reset:	As per Annex IVS.
Type of Return:	As per Annex IVS.
Initial Price:	As per Annex IVS.
Final Price:	As per Annex IVS.
Valuation Time:	As per Annex IVS.
Observation Start Date:	As specified by the parties or otherwise as per Annex
	IVS.
Observation End Date:	As per Annex IVS.
Observation Day:	As per Annex IVS (with Disrupted Date being
	determined, in the case of a Japan Index, in accordance
	with the Japan Index Market Practice Statement).
Non-Disrupted Observation Day:	As per Annex IVS.
Observation Period:	As per Annex IVS.
Futures Price Valuation:	As specified by the parties or determined in accordance
	with Annex IVS.
Default Exchange-traded Contract:	As per Annex IVS.
Equity Amount:	The product of the Equity Notional Amount and the
	Final Realized Volatility (or, if there is a Volatility Cap,
	the lesser of the Realized Volatility or the Volatility
	Cap).
Variance Strike Price:	Not applicable.
Variance Cap:	Not applicable.
Final Realized Volatility:	As per Annex IVS.
Initial Index Level:	As specified by the parties.
Closing Index Level:	If specified by the parties, and determined per Annex IVS.
Expiring Contract Level:	If specified by the parties or as determined per Annex IVS.
Variance Amount:	Not applicable.
Volatility Strike Price:	Not applicable.
Variance Strike Price:	Not applicable.
Variance Cap Amount:	Not applicable.
Final Realized Volatility ("FRV"):	Per Annex IVS.
I mai realized volumity ( 110 v. ).	1 of Tamera 1 to.

N:	As specified by the parties or otherwise per Annex IVS
	(other than for an AEJ Index).
Expected N:	As specified by the parties or otherwise per Annex IVS
	(only for an AEJ Index).
Market Disruption Event:	As per Annex IVS.
Fixed Amount:	
Fixed Amount Payer:	The Volatility Buyer.
Fixed Amount:	The product of the Equity Notional Amount and the
	Volatility Strike.
Volatility Strike:	As specified by the parties.
Settlement Terms:	
Cash Settlement:	As per Annex IVS.
Settlement Currency:	As per Annex IVS.
Cash Settlement Payment Date:	As per Annex IVS.
<b>Index Adjustment Events:</b>	
Index Cancellation:	As per Annex IVS.
Index Modification:	As per Annex IVS.
Index Disruption:	As per Annex IVS.
IVS Cancellation and Payment:	As per Annex IVS.
Additional Disruption Events:	
Change in Law:	As per Annex IVS.
Non-Reliance:	As per Annex IVS.
Agreements and Acknowledgements Regarding Hedging	As per Annex IVS.
Activities:	
Additional Acknowledgements:	As per Annex IVS.
Index Disclaimer:	As per Annex IVS.
Calculation Agent:	As agreed by the parties.

## Equity Index Volatility Swap – Available Currencies and Required Business Days

Three Letter Currency Code	Currency Name (ISDA)	Basic Business Day Locations
(ISDA/ISO)		For Currency (FpML Codes)
USD	United States Dollars	USNY

### Equity Index Volatility Swap – Available Indices

Abbr	Name
SPX	S&P 500 Index
SPXT	S&P 500 Total Return

# **Fixed for Floating Agricultural Swaptions**

Summary:	This covers uncleared fixed for floating agricultural
·	swaptions ("Fixed for Floating Agricultural Swaptions").
Limitations on Available Selections and Default	The terms under which Fixed for Floating Agricultural
Settings:	Swaptions may be traded are shown below and in the
	attached tables.
Incorporated Standards:	This contract description incorporates by reference the
	following industry standard documentation and
	standards:
	2005 ISDA Commodity Derivatives Definitions
	("Commodity Definitions")
Product Type/ISDA OTC Taxonomy:	
ISDA OTC Asset Class:	Commodity
ISDA OTC Base Product:	Agricultural
ISDA OTC Settlement type:	Cash
Further Limitations:	None
Trade Date:	As agreed by the parties.
Option Style:	As specified by the parties from among the Available
	Option Styles.
Option Type:	Swaption
Buyer:	As specified by the parties.
Seller:	As specified by the parties.
Total Premium:	As specified by the parties.
Premium Payment Date(s):	As specified by the parties, subject to adjustment in
	accordance with the Business Day Convention.
Premium Payment Date Business Days:	Per the Available Currencies, plus such additional
	Business Days as the parties specify.
Premium Payment Date Business Day Convention:	As specified by the parties from among the Available
	Business Day Conventions or otherwise per the
Pl : 1/G G 1	Commodity Definitions.
Physical/Contract Settlement:	Applicable
Procedure for Exercise:	
Exercise Period:	For an American Option, the period of days and the
	times on such days specified by the parties.  For any other Option Style, the times on the Expiration
	Date or Potential Exercise Date specified by the parties.
Potential Exercise Dates:	For a Bermuda Option, the days specified by the parties.
Expiration Date:	As specified by the parties.
Expiration Date.  Expiration Time:	As specified by the parties.  As specified by the parties.
Automatic Exercise:	Applicable, unless otherwise specified by the parties.
Written Confirmation:	As specified by the parties.
Seller's Notice Information:	As specified by the Seller.
Terms of the Underlying Transaction to which the Sv	
Trade Date:	As agreed by the parties.
Effective Date:	The date specified by the parties, adjusted in accordance
	with any applicable Business Day Convention.
Effective Date Business Days:	None, unless specified by the parties.
Effective Date Business Day Convention:	None, unless specified by the parties from among the
	Available Business Day Conventions.
Termination Date:	As specified by the parties.
Termination Date Business Days:	None, unless specified by the parties.
·	· · · · · · · · · · · · · · · · · · ·

# Fixed for Floating Agricultural Swaptions

Termination Date Business Day Convention:	None, unless specified by the parties from among the Available Business Day Conventions.	
Commodity:	As specified by the parties from among the Available Commodities.	
Total Notional Quantity:	The sum of the Notional Quantities per Calculation Period.	
Notional Quantity per Calculation Period:	As specified by the parties on a per-Calculation-Period Basis.	
Calculation Periods:	As specified by the parties.	
Calculation Period Business Days:	None, unless specified by the parties.	
Calculation Period Business Day Convention:	As specified by the parties from among the Available Business Day Conventions.	
Payment Dates:	In relation to each Calculation Period, as specified by the parties, each such day being subject to adjustment in accordance with the Payment Date Business Day Convention.	
Payment Date Business Days:	The Business Days specified for the relevant Commodity, plus any additional Business Days specified by the parties from among the Available Business Days.	
Payment Date Business Day Convention:	As specified by the parties from among the Available Business Day Conventions.	
Fixed Amount:		
Fixed Price Payer:	As specified by the parties.	
Fixed Price or Fixed Amount:	As specified by the parties per Unit of the Commodity or overall.	
Floating Amount:		
Floating Price Payer:	As specified by the parties.	
Applicable Spread:	As specified by the parties.	
Commodity Reference Price:	As specified by the parties from among the Available Commodity Reference Prices.	
Market Disruption:		
Market Disruption Events:	Unless otherwise specified by the parties, per the Commodity Definitions.	
Additional Market Disruption Events:	As specified by the parties.	
Consequences of Market Disruption Events:	Unless otherwise specified by the parties, per the Commodity Definitions.	
Disruption Fallbacks:	Unless otherwise specified by the parties, per the Commodity Definitions.	
Fallback Reference Price:	None, unless specified by the parties.	
Maximum Days of Disruption:	Unless otherwise specified by the parties, per the Commodity Definitions.	
Calculation Agent:	As agreed by the parties.	

### Fixed for Floating Agricultural Swaptions Available Currencies and Required Business Days

Three Letter Currency Code	Currency Name (ISDA)	Basic Business Day Locations
(ISDA/ISO)		For Currency (FpML Codes)
USD	United States Dollars	USNY
EUR	Euro	EUTA
GBP	Sterling	GBLO

#### Fixed-for-Floating Agricultural Swaptions Available Business Day Conventions

ISDA Name
Following
Modified/Modified Following
Nearest
Preceding

Fixed-for-Floating Agricultural Swaptions Available Commodity Reference Prices

#### **ISDA Definitions**

The following Commodity Reference Prices are as defined in Sub-Annex A to the Commodity Definitions.

ISDA Definition
COCOA-GBP-EURONEXT
COCOA-NYBOT ¹
COFFEE ARABICA-NYBOT ¹
COFFEE ROBUSTA-EURONEXT
CORN-CBOT
COTTON NO. 2-NYBOT ¹
FROZEN CONCENTRATED ORANGE JUICE NO. 1-NYBOT ¹
LEAN HOGS-CME
MILK-CLASS III-CME
MILK-CLASS IV-CME
SOYBEAN-CBOT
SOYBEAN MEAL-CBOT
SOYBEAN OIL-CBOT
SUGAR #11 (WORLD)-NYBOT ¹
WHEAT-CBOT
WHEAT HRM-KCBOT
WHITE SUGAR-EURONEXT

¹ The New York Board of Trade (NYBOT) was renamed ICE Futures US in 2007.

### **Exchange Definitions**

The following Commodity Reference Prices are as defined in the Commodity Price Reference Framework in Sub-Annex A to the Commodity Definitions.

ISDA Definition					
Commodity Reference Price	Relevant Commodity	Relevant Unit	Exchange	Currency	Specified Price
BUTTER-CME	Butter	Pound	CME Globex	USD 0.01	Settlement Price
CHEESE-CME	Cheese	Pound	CME Globex	USD 0.01	Settlement Price
CRUDE PALM OIL-CME	Crude Palm Oil	Metric Ton	CME Globex	USD 0.01	Settlement Price
DRY WHEY- CME	Dry Whey	Pound	CME Globex	USD 0.01	Settlement Price
HARD RED SPRING WHEAT- MGEX	Wheat	Bushel	Minneapolis Grain Exchange	USD 0.01	Settlement Price
MILLING WHEAT- EURONEXT	Wheat	Tonne	EURONEXT LIFFE	EUR 0.01	Settlement Price
NONFAT DRY MILK-CME	Non-Fat Dry Milk	Pound	CME Globex	USD 0.01	Settlement Price
RAPESEED- EURONEXT	Rapeseed	Tonne	EURONEXT LIFFE	EUR 0.01	Settlement Price

## **Fixed for Floating Agricultural Swap Contracts**

Summary:	This covers uncleared fixed-for-floating agricultural
	swaps ("Fixed for Floating Agricultural Swap
	Contracts").
Limitations on Available Selections and Default	The terms under which Fixed for Floating Agricultural Swap Contracts may be traded are shown below and in
Settings:	the attached tables.
	For amounts or rates, the relevant term cannot be less
	than the specified Minimum, must represent an even
	Increment and cannot exceed the Maximum; for a date,
	the date cannot be earlier than Earliest nor later than
	Latest.
	In many cases there are normal "vanilla" terms on which
	the parties will transact.
	These are shown as "Default" and will apply unless the
	parties vary them.
Incorporated Standards:	This contract description incorporates by reference the
	following industry standard documentation and
	standards:
	2005 ISDA Commodity Derivatives Definitions
Product Type/ISDA OTC Taxonomy:	("Commodity Definitions")
ISDA OTC Asset Class:	Commodity
ISDA OTC Asset Class.  ISDA OTC Base Product:	Agricultural
ISDA OTC Settlement type:	Cash
Further Limitations:	None
Terms:	Tione
Trade Date:	As agreed by the parties.
Effective Date:	The date specified by the parties, adjusted in accordance
	with any applicable Business Day Convention.
Effective Date Business Days:	None, unless specified by the parties.
Effective Date Business Day Convention:	None, unless specified by the parties from among the
•	Available Business Day Conventions.
Termination Date:	Available Business Day Conventions. As specified by the parties.
Termination Date: Termination Date Business Days:	Available Business Day Conventions. As specified by the parties. None, unless specified by the parties.
Termination Date:	Available Business Day Conventions.  As specified by the parties.  None, unless specified by the parties.  None, unless specified by the parties from among the
Termination Date: Termination Date Business Days: Termination Date Business Day Convention:	Available Business Day Conventions.  As specified by the parties.  None, unless specified by the parties.  None, unless specified by the parties from among the Available Business Day Conventions.
Termination Date: Termination Date Business Days:	Available Business Day Conventions.  As specified by the parties.  None, unless specified by the parties.  None, unless specified by the parties from among the Available Business Day Conventions.  As specified by the parties from among the Available
Termination Date: Termination Date Business Days: Termination Date Business Day Convention: Commodity:	Available Business Day Conventions.  As specified by the parties.  None, unless specified by the parties.  None, unless specified by the parties from among the Available Business Day Conventions.  As specified by the parties from among the Available Commodities.
Termination Date: Termination Date Business Days: Termination Date Business Day Convention:	Available Business Day Conventions.  As specified by the parties.  None, unless specified by the parties.  None, unless specified by the parties from among the Available Business Day Conventions.  As specified by the parties from among the Available Commodities.  The sum of the Notional Quantities per Calculation
Termination Date: Termination Date Business Days: Termination Date Business Day Convention: Commodity: Total Notional Quantity:	Available Business Day Conventions.  As specified by the parties.  None, unless specified by the parties.  None, unless specified by the parties from among the Available Business Day Conventions.  As specified by the parties from among the Available Commodities.  The sum of the Notional Quantities per Calculation Period.
Termination Date: Termination Date Business Days: Termination Date Business Day Convention: Commodity:	Available Business Day Conventions.  As specified by the parties.  None, unless specified by the parties.  None, unless specified by the parties from among the Available Business Day Conventions.  As specified by the parties from among the Available Commodities.  The sum of the Notional Quantities per Calculation
Termination Date: Termination Date Business Days: Termination Date Business Day Convention: Commodity: Total Notional Quantity:	Available Business Day Conventions.  As specified by the parties.  None, unless specified by the parties from among the Available Business Day Conventions.  As specified by the parties from among the Available Commodities.  The sum of the Notional Quantities per Calculation Period.  As specified by the parties on a per-Calculation-Period Basis.  As specified by the parties.
Termination Date: Termination Date Business Days: Termination Date Business Day Convention:  Commodity:  Total Notional Quantity:  Notional Quantity per Calculation Period:  Calculation Periods: Calculation Period Business Days:	Available Business Day Conventions.  As specified by the parties.  None, unless specified by the parties from among the Available Business Day Conventions.  As specified by the parties from among the Available Commodities.  The sum of the Notional Quantities per Calculation Period.  As specified by the parties on a per-Calculation-Period Basis.  As specified by the parties.  None, unless specified by the parties.
Termination Date: Termination Date Business Days: Termination Date Business Day Convention:  Commodity:  Total Notional Quantity:  Notional Quantity per Calculation Period:  Calculation Periods:	Available Business Day Conventions.  As specified by the parties.  None, unless specified by the parties from among the Available Business Day Conventions.  As specified by the parties from among the Available Commodities.  The sum of the Notional Quantities per Calculation Period.  As specified by the parties on a per-Calculation-Period Basis.  As specified by the parties.
Termination Date: Termination Date Business Days: Termination Date Business Day Convention:  Commodity:  Total Notional Quantity:  Notional Quantity per Calculation Period:  Calculation Periods: Calculation Period Business Days:	Available Business Day Conventions.  As specified by the parties.  None, unless specified by the parties from among the Available Business Day Conventions.  As specified by the parties from among the Available Commodities.  The sum of the Notional Quantities per Calculation Period.  As specified by the parties on a per-Calculation-Period Basis.  As specified by the parties.  None, unless specified by the parties.  As specified by the parties from among the Available
Termination Date: Termination Date Business Days: Termination Date Business Day Convention:  Commodity:  Total Notional Quantity:  Notional Quantity per Calculation Period:  Calculation Periods: Calculation Period Business Days: Calculation Period Business Day Convention:	Available Business Day Conventions.  As specified by the parties.  None, unless specified by the parties from among the Available Business Day Conventions.  As specified by the parties from among the Available Commodities.  The sum of the Notional Quantities per Calculation Period.  As specified by the parties on a per-Calculation-Period Basis.  As specified by the parties.  None, unless specified by the parties.  As specified by the parties from among the Available Business Day Conventions.  In relation to each Calculation Period, as specified by the parties, each such day being subject to adjustment in
Termination Date: Termination Date Business Days: Termination Date Business Day Convention:  Commodity:  Total Notional Quantity:  Notional Quantity per Calculation Period:  Calculation Periods: Calculation Period Business Days: Calculation Period Business Day Convention:	Available Business Day Conventions.  As specified by the parties.  None, unless specified by the parties from among the Available Business Day Conventions.  As specified by the parties from among the Available Commodities.  The sum of the Notional Quantities per Calculation Period.  As specified by the parties on a per-Calculation-Period Basis.  As specified by the parties.  None, unless specified by the parties.  As specified by the parties from among the Available Business Day Conventions.  In relation to each Calculation Period, as specified by the

Payment Date Business Days:	The Business Days specified for the relevant
	Commodity, plus any additional Business Days specified
	by the parties from among the Available Business Days.
Payment Date Business Day Convention:	As specified by the parties from among the Available
	Business Day Conventions.
Fixed Amount:	
Fixed Price Payer:	As specified by the parties.
Fixed Price or Fixed Amount:	As specified by the parties per Unit of the Commodity or overall.
Floating Amount:	
Floating Price Payer:	As specified by the parties.
Applicable Spread:	As specified by the parties.
Commodity Reference Price:	As specified by the parties from among the Available
	Commodity Reference Prices.
Market Disruption:	
Market Disruption Events:	Unless otherwise specified by the parties, per the
	Commodity Definitions.
Additional Market Disruption Events:	As specified by the parties.
Consequences of Market Disruption Events:	Unless otherwise specified by the parties, per the
	Commodity Definitions.
Disruption Fallbacks:	Unless otherwise specified by the parties, per the
	Commodity Definitions.
Fallback Reference Price:	None, unless specified by the parties.
Maximum Days of Disruption:	Unless otherwise specified by the parties, per the
	Commodity Definitions.
Calculation Agent:	As agreed by the parties.

### Fixed-for-Floating Agricultural Swap Available Currencies and Required Business Days

Three Letter Currency Code (ISDA/ISO)	Currency Name (ISDA)	Basic Business Day Locations For Currency (FpML Codes)
USD	United States Dollars	USNY
EUR	Euro	EUTA
GBP	Sterling	GBLO

### Fixed-for-Floating Agricultural Swap Available Business Day Conventions

	ISDA Name	
Following		
Modified/Modified Following		
Nearest		
Preceding		

Fixed-for-Floating Agricultural Swap Available Commodity Reference Prices

#### **ISDA Definitions**

The following Commodity Reference Prices are as defined in Sub-Annex A to the Commodity Definitions.

	ISDA Definition
COCC	OA-GBP-EURONEXT

COCOA-NYBOT ¹
COFFEE ARABICA-NYBOT ^{Error!} Unknown switch argument.
COFFEE ROBUSTA-EURONEXT
CORN-CBOT
COTTON NO. 2-NYBOT ^E rror! Unknown switch argument.
FROZEN CONCENTRATED ORANGE JUICE NO. 1-NYBOT ^{Error!} Unknown switch argument.
LEAN HOGS-CME
MILK-CLASS III-CME
MILK-CLASS IV-CME
SOYBEAN-CBOT
SOYBEAN MEAL-CBOT
SOYBEAN OIL-CBOT
SUGAR #11 (WORLD)-NYBOT ^{Error!} Unknown switch argument.
WHEAT-CBOT
WHEAT HRM-KCBOT
WHITE SUGAR-EURONEXT

### **Exchange Definitions**

The following Commodity Reference Prices are as defined in the Commodity Price Reference Framework in Sub-Annex A to the Commodity Definitions.

ISDA Definition					
Commodity	dity Relevant Relevant Unit Exchange Currency Specified				Specified Price
Reference	Commodity				
Price					
BUTTER-CME	Butter	Pound	CME Globex	USD 0.01	Settlement Price
CHEESE-CME	Cheese	Pound	CME Globex	USD 0.01	Settlement Price
CRUDE PALM	Crude Palm Oil	Metric Ton	CME Globex	USD 0.01	Settlement Price
OIL-CME					
DRY WHEY-	Dry Whey	Pound	CME Globex	USD 0.01	Settlement Price
CME					
HARD RED	Wheat	Bushel	Minneapolis	USD 0.01	Settlement Price
SPRING			Grain Exchange		
WHEAT-					
MGEX					
MILLING	Wheat	Tonne	EURONEXT	EUR 0.01	Settlement Price
WHEAT-			LIFFE		
EURONEXT					
NONFAT DRY	Non-Fat Dry	Pound	CME Globex	USD 0.01	Settlement Price
MILK-CME	Milk				
RAPESEED-	Rapeseed	Tonne	EURONEXT	EUR 0.01	Settlement Price
EURONEXT			LIFFE		

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 $^{^{\}rm 1}$  The New York Board of Trade (NYBOT) was renamed ICE Futures US in 2007.

# **Fixed for Floating Interest Rate Swaps**

Summary:	This covers uncleared fixed for floating interest rate swaps ("Fixed for Floating Interest Rate Swap	
Limitations on Available Selections and Default Settings:	(Uncleared)").  The terms under which a Fixed for Floating Interest Rate Swap (Uncleared) contract may be traded are as specified in these terms and conditions or in the attached tables.	
	For amounts or rates, the relevant term cannot be less than the specified Minimum, must represent an even Increment and cannot exceed the Maximum; for a date, the date cannot be earlier than Earliest nor later than Latest.	
	For Business Days, the defaults shall be the locations specified for the relevant currency, any additional locations specified for the relevant Floating Rate Options.	
	The parties may add additional locations from the Available Locations and may eliminate some or all of the other locations, so long as there is at least one location in which payment may be made. For these purposes "TARGET" is considered a location.	
	In many cases there are normal "vanilla" terms on which the parties will transact. These are shown as "Default" and will apply unless the parties vary them.	
	It should be noted that these contracts can be traded in a variety of currencies. Since each national market has its own peculiarities, the "Available Terms" and/or "Default Terms" may vary by currency.	
	In some cases, the same contract might have different terms depending on the market in which it is traded (e.g., London versus NY). In that case the default settings may vary by market.	
Incorporated Standards:	This contract description incorporates by reference the following industry standard documentation and standards:  (a) 2006 ISDA Definitions (b) ISDA Settlement Matrix (if Optional Early Termination applies) (c) ISDA OTC Taxonomies (d) FpML Location Codes	
	For convenience, certain terms are mapped to their FpML 5.5 equivalent.	

Product Type/ISDA OTC Taxonomy:	
ISDA OTC Asset Class:	Interest Rate
ISDA OTC Base Product:	IR Swap
ISDA OTC Sub-Product:	Fixed Floating
Further Limitations:	None
Terms:	
Notional Amount ("notional"):	An amount in one of the Available Currencies (see below) agreed by the parties.
Effective Date ("effectiveDate"):	The date specified by the parties, adjusted in accordance with any applicable Business Day Convention.  The parties may express the unadjusted Effective Date as a number of Business Days or Banking Days from the Trade Date ("relativeEffectiveDate").
Effective Date Business Days:	As specified by the parties from among the Available Business Days.
Effective Date Business Day Convention:	As specified by the parties from among the Available Business Day Conventions.
Termination Date ("terminationDate"):	The date specified by the parties, adjusted in accordance with any applicable Business Day Convention.  The parties may express the unadjusted Termination Date as a number of days, months or years from the Effective Date ("relativeTerminationDate").
Termination Date Business Day Convention:	As specified by the parties from among the Available Business Day Conventions.
Fixed Amount:	
Fixed Rate Payer ("payerPartyReference"):	As specified by the parties.
Currency Amount ("notional Amount"):	As specified by the parties.
Fixed Rate Period End Dates ("unadjustedCalculation Period Date"):	As specified by the parties.
first Period End Date:	As specified by the parties if there is a short initial Calculation Period.
Fixed Rate Payment Dates ("unadjustedPaymentDate"):	As specified by the parties.
Day Count Fraction:	As specified by the parties.
Period End Dates Business Days:	As specified by the parties from among the Available Business Days.
Period End Dates Business Day Convention:	As specified by the parties from among the Available Business Day Conventions.
Payment Dates Business Days:	As specified by the parties from among the Available Business Days, subject to any Required Business Days.
Payment Dates Business Day Convention:	As specified by the parties from among the Available Business Day Conventions.
Floating Amount:	
Floating Rate Payer ("payerPartyReference"):	As specified by the parties.
Currency Amount ("notional Amount"):	As specified by the parties.
Period End Dates ("unadjustedCalculation Period Date"):	As specified by the parties.
first Period End Date:	As specified by the parties if there is a short initial Calculation Period.
Payment Dates ("unadjustedPaymentDate"):	As specified by the parties.
initial Floating Rate:	As specified by the parties.
Floating Rate Option ("floatingRateIndex"):	As specified by the parties.
Designated Maturity ('indexTenor''):	As specified by the parties.
Linear Interpolation:	For the Calculation Periods specified by the parties.
Shorter Designated Maturity for Linear Interpolation:	For a Calculation Period to which Linear Interpolation

	applies, as specified by the parties.	
Longer Designated Maturity for Linear Interpolation:	For a Calculation Period to which Linear Interpolation	
Longer Designated Wattirity for Linear Interpolation.	applies, as specified by the parties.	
Spread:	As specified by the parties.	
Day Count Fraction:	As specified by the parties.  As specified by the parties.	
Reset Dates ("resetDate"):	As specified by the parties.  As specified by the parties.	
Method of Averaging:		
	As specified by the parties.	
Compounding: Compounding Dates:	As specified by the parties.	
Compounding Dates.	In the event Compounding is selected, as selected by the parties.	
Compounding Method (Compounding OR Flat	In the event Compounding is selected, as selected by the	
Compounding):	parties.	
Period End Dates Business Days:	As specified by the parties from among the Available	
Teriod End Dates Business Days.	Business Days.	
Period End Dates Business Day Convention:	As specified by the parties from among the Available	
Teriod End Dates Business Day Convention.	Business Day Conventions.	
Payment Dates Business Days:	As specified by the parties from among the Available	
Taymon Dates Business Bays.	Business Days, subject to any Required Business Days.	
Payment Dates Business Day Convention:	As specified by the parties from among the Available	
Tujmon Buco Business Buj Convention	Business Day Conventions.	
Reset Dates Business Days:	As specified by the parties from among the Available	
	Business Days, subject to any Required Business Days.	
Reset Dates Business Day Convention:	As specified by the parties from among the Available	
,	Business Day Conventions.	
Mark-to-Market Currency Swap:		
Mark-to-Market Currency Swap:	As specified by the parties, if the Currency Amounts are	
• •	in different Currencies.	
Variable Currency Payer:	As specified by the parties if the transaction is a Mark-	
	to-Market Currency Swap.	
Constant Currency Payer:	As specified by the parties if the transaction is a Mark-	
	to-Market Currency Swap.	
Currency Exchange Rate:	As specified by the parties if the transaction is a Mark-	
	to-Market Currency Swap and ISDA MTM Matrix is no	
	applicable.	
ISDA MTM Matrix:	As specified by the parties if the transaction is a Mark-	
	to-Market Currency Swap.	
Initial Exchange:		
Initial Exchange Date:	As specified by the parties.	
Fixed Rate Payer Initial Exchange Amount:	As specified by the parties.	
Floating Payer Initial Exchange Amount:	As specified by the parties.	
Currency:	As specified from the parties from the Available	
T 4 * TO 1	Currencies.	
Interim Exchanges:	A	
Interim Exchange Dates:	As specified by the parties.	
Fixed Rate Payer Interim Exchange Amount:	As specified by the parties.	
Fixed Rate Payer Interim Exchange Amount:	As specified by the parties.	
Currency:	As specified from the parties from the Available	
Einel Evolonger	Currencies.	
Final Exchange:	As appointed by the senting	
Final Exchange Date:	As specified by the parties.	
Fixed Rate Payer Final Exchange Amount:	As specified by the parties.	
Fixed Payer Final Exchange Amount:	As specified by the parties.	
Currency:	As specified from the parties from the Available	
1	Currencies.	

Optional Early Termination:		
Optional Early Termination:	As specified by the parties.	
Option Style:	As specified by the parties.	
Optional Early Termination Date:	As specified by the parties.	
Seller:	As specified by the parties if only one party can	
	terminate.	
Buyer:	As specified by the parties, if only one party can	
	terminate.	
Seller's Agent:	As specified by the parties, if only one party can	
-	terminate.	
Business Days for Payments:	As specified by the parties from among the Available	
	Business Days, subject to any Required Business Days.	
Exercise Business Days:	As specified by the parties.	
<b>Optional Early Termination Procedure for Exercise:</b>		
Commencement Date:	As specified by the parties, if the Option Style is	
	American.	
Bermuda Option Exercise Dates:	As specified by the parties, if the Option Style is	
	Bermuda.	
Expiration Date:	As specified by the parties.	
Expiration Time:	As specified by the parties.	
Earliest Exercise Time:	As specified by the parties.	
Latest Exercise Time:	As specified by the parties.	
Exercise Business Day:	As specified by the parties.	
Partial Exercise:	As specified by the parties, if Option Style is European.	
Multiple Exercise:	As specified by the parties, if Option Style is American or Bermuda.	
Minimum Notional Amount:	As specified by the parties if Partial Exercise or Multiple	
Willimani Notional Amount.	Exercise is specified.	
Maximum Notional Amount:	As specified by the parties if Multiple Exercise is	
114444444444444444444444444444444444444	specified.	
Integral Multiple:	As specified by the parties if Partial Exercise or Multiple	
	Exercise is specified.	
Optional Early Termination Settlement Terms:		
Cash Settlement:	As specified by the parties.	
ISDA Settlement Matrix:	As specified by the parties, if Cash Settlement is	
	applicable to a single currency Transaction.	
ISDA Cross Currency Settlement Matrix:	As specified by the parties, if Cash Settlement is	
	applicable to a cross currency Transaction whose	
	currencies are listed as a "currency pair" in the Cross	
	Currency Settlement Matrix.	
Cash Settlement Valuation Time:	If Cash Settlement is applicable, as specified by the	
Cook Sattlement Valuation Date:	parties, directly or via the ISDA Settlement Matrix.	
Cash Settlement Valuation Date:	If Cash Settlement is applicable, as specified by the	
Valuation Business Days:	parties, directly or via the ISDA Settlement Matrix.  If Cash Settlement is applicable, as specified by the	
variation business bays.	parties, directly or via the ISDA Settlement Matrix.	
Cash Settlement Payment Date:	If Cash Settlement is applicable, as specified by the	
Cash Soutoment Laymont Date.	parties, directly or via the ISDA Settlement Matrix.	
Cash Settlement Payment Date Business Days	If Cash Settlement is applicable, as specified by the	
Convention:	parties, directly or via the ISDA Settlement Matrix.	
Cash Settlement Method:	If Cash Settlement is applicable, as specified by the	
	parties from Available Cash Settlement Methods,	
	directly or via the ISDA Settlement Matrix.	
Cash Settlement Currency:	If Cash Settlement is applicable, and "Cash Price" or	

	"Cash Price—Alternate" apply, as specified by the parties from Available Cash Settlement Methods,
Settlement Rate:	directly or via the ISDA Settlement Matrix.  If Cash Settlement is applicable, and "Par Yield Curve—Adjusted," "Par Yield Curve—Unadjusted" or "Zero Coupon Curve—Adjusted" apply, as specified by the parties from Available Cash Settlement Methods, directly or via the ISDA Settlement Methods, directly or via the ISDA Settlement Methods, directly or via the ISDA Settlement Matrix.
Cash Settlement Reference Banks:	As specified by the parties, if Settlement Rate is applicable.
Cash Settlement Reference Banks:	If Cash Settlement is applicable, as specified by the parties.
Quotation Rate:	If Cash Settlement is applicable, as specified by the parties from among the Available Quotation Rates.
Calculation Agent:	As agreed by the parties.

## Fixed Floating Available Currencies and Required Business Days

Three Letter Currency Code (ISDA/ISO)	Currency Name (ISDA)	Basic Business Day Locations For Currency (FpML Codes)
AUD	Australian Dollar	AUSY
BRL	Brazilian Reai	Any of BR{SP,RJ,BR} and not
		otherwise declared a market
		holiday by the BM&F
CAD	Canadian Dollar	CATO
CHF	Swiss Franc	CHZU
CLP	Chilean Peso	CLSA
CNH	Chinese Renminbi (HK)	HKHK and CNBE
CNY	Chinese Renminbi	CNBE
COP	Colombian Peso	COBO
CZK	Czech Koruna	CZPR
DKK	Danish Krone	DKCO
EUR	Euro	EUTA
GBP	Sterling	GBLO
HKD	Hong Kong Dollar	НКНК
HUF	Hungarian Forint	HUBU
ILS	Israeli Shekel	ILTA
INR	Indian Rupee	INMU
JPY	Japanese Yen	JPTO
KRW	Korean Won	KRSE
MXN	Mexican Peso (New)	MXMC
MYR	Malaysian Ringgit	MYKL
NOK	Norwegian Krone	NOOS
NZD	New Zealand Dollar	NZAU and NZWE
PHP	Phillipine Peso	PHMA
PLN	Polish Zloty	PLWA
RON	Romanian Leu	ROBU
RUB	Russian Ruble	RUMO
SAR	Saudi Arabian Riyal	SARI
SEK	Swedish Krona	SEST
SGD	Singapore Dollar	SGSI
THB	Thai Baht	THBA

## Fixed for Floating Interest Rate Swaps

TRY	Turkish Lira TRIS	
TWD	Taiwan Dollar	TWTA
USD	United States Dollars USNY	
ZAR	South African Rand	ZAJO

### Fixed Floating Available Business Day Conventions

ISDA Name
Following
Modified/Modified Following
No Adjustment
Preceding
FRN Convention/Eurodollar Convention

### Fixed Floating Available Day Count Fractions

ISDA Name
1/1
30/360, 360/360, Bond Basis
Actual/360
Actual/365 (Fixed), Act/365 (Fixed), A/365 (Fixed), A/365F
Actual/Actual, Actual/Actual (ISDA), Act/Act, Act/Act (ISDA)
Actual/Actual (ICMA), Act/Act, Act/Act (ICMA)

### Fixed Floating Default Effective Dates

Currency	Default Effective Date	
All Currencies Other than CAD, GBP	Plus Two Banking Days	
CAD, GBP	Plus Zero	

### Fixed Floating Earliest and Latest Effective and Termination Dates

Currency	Earliest Effective	Latest Effective	Earliest Termination	Latest Termination
	Date	Date	Date	Date
N/A	N/A	N/A	N/A	N/A

#### Fixed Floating Notional Amounts

Currency	Minimum	Increment	Maximum	Default
AUD	25,000,000	100,000	N/A	N/A
BRL	5,000,000	100,000	N/A	N/A
CAD	25,000,000	1,000,000	N/A	N/A
CHF	5,000,000	100,000	N/A	N/A
CLP	5,000,000	100,000	N/A	N/A
CNH	5,000,000	100,000	N/A	N/A
CNY	5,000,000	100,000	N/A	N/A
COP	5,000,000	100,000	N/A	N/A
CZK	5,000,000	100,000	N/A	N/A
DKK	5,000,000	100,000	N/A	N/A
EUR	25,000,000	100,000	N/A	N/A
GBP	25,000,000	100,000	N/A	N/A
HKD	25,000,000	100,000	N/A	N/A
HUF	5,000,000	100,000	N/A	N/A
ILS	5,000,000	100,000	N/A	N/A

INR	5,000,000	100,000	N/A	N/A
JPY	2,500,000,000	100,000,000	N/A	N/A
KRW	5,000,000	100,000	N/A	N/A
MXN	10,000,000	1,000,000	N/A	N/A
MYR	5,000,000	100,000	N/A	N/A
NOK	5,000,000	100,000	N/A	N/A
NZD	5,000,000	100,000	N/A	N/A
PHP	5,000,000	100,000	N/A	N/A
PLN	5,000,000	100,000	N/A	N/A
RON	5,000,000	100,000	N/A	N/A
RUB	5,000,000	100,000	N/A	N/A
SAR	5,000,000	100,000	N/A	N/A
SEK	5,000,000	100,000	N/A	N/A
SGD	5,000,000	100,000	N/A	N/A
THB	5,000,000	100,000	N/A	N/A
TRY	5,000,000	100,000	N/A	N/A
TWD	5,000,000	100,000	N/A	N/A
USD	25,000,000	1,000,000	N/A	N/A
ZAR	5,000,000	100,000	N/A	N/A

Fixed Floating Rate Options and Defaults

Floating Rate Option	Available Tenors	Default Tenor	Default Day Count Fraction	Additional Business Day Locations
AUD-AONIA-OIS- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
AUD-AONIA-OIS- COMPOUND- SwapMarker	All quoted tenors	N/A	Per ISDA 2006	N
AUD-BBR-AUBBSW	All quoted tenors	N/A	Per ISDA 2006	N
AUD-BBR-BBSW	All quoted tenors	N/A	Per ISDA 2006	N
AUD-BBR-BBSW- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
AUD-BBR-BBSY (BID)	All quoted tenors	N/A	Per ISDA 2006	N
AUD-BBR-ISDC	All quoted tenors	N/A	Per ISDA 2006	N
AUD-LIBOR-BBA	All quoted tenors	N/A	Per ISDA 2006	N
AUD-LIBOR-BBA- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
AUD-LIBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
AUD-Quarterly Swap Rate-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
AUD-Quarterly Swap Rate-ICAP-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
AUD-Semi-annual Swap Rate-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
AUD-Semi-Annual Swap Rate-ICAP-	All quoted tenors	N/A	Per ISDA 2006	N

Reference Banks				
AUD-Swap Rate- Reuters	All quoted tenors	N/A	Per ISDA 2006	N
BRL-CDI-CETIP	See below	N/A	See below	See below
CAD-BA-CDOR	All quoted tenors	N/A	Per ISDA 2006	N
CAD-BA-CDOR- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
CAD-BA-ISDD	All quoted tenors	N/A	Per ISDA 2006	N
CAD-BA-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
CAD-BA-Reuters	All quoted tenors	N/A	Per ISDA 2006	N
CAD-BA-Telerate	All quoted tenors	N/A	Per ISDA 2006	N
CAD-CORRA-OIS- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
CAD-ISDA-Swap Rate	All quoted tenors	N/A	Per ISDA 2006	N
CAD-LIBOR-BBA	All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
CAD-LIBOR-BBA- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
CAD-LIBOR-BBA- SwapMarker	All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
CAD-LIBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
CAD-REPO-CORRA	All quoted tenors	N/A	Per ISDA 2006	N
CAD-TBILL-ISDD	All quoted tenors	N/A	Per ISDA 2006	N
CAD-TBILL- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
CAD-TBILL-Reuters	All quoted tenors	N/A	Per ISDA 2006	N
CAD-TBILL-Telerate	All quoted tenors	N/A	Per ISDA 2006	N
CHF USD-Basis Swaps-11:00-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
CHF-Annual Swap Rate	All quoted tenors	N/A	Per ISDA 2006	N
CHF-Annual Swap Rate-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
CHF-ISDAFIX-Swap Rate	All quoted tenors	N/A	Per ISDA 2006	N
CHF-LIBOR-BBA	All quoted tenors	N/A	Per ISDA 2006	N
CHF-LIBOR-BBA- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
CHF-LIBOR-ISDA	All quoted tenors	N/A	Per ISDA 2006	N
CHF-LIBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
CHF-OIS-11:00-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
CHF-TOIS-OIS- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N

CLP-CLICP- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
CNH-HIBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
CNH-HIBOR-TMA	All quoted tenors	N/A	Per ISDA 2006	N
CNY- CNREPOFIX=CFXS- Reuters	All quoted tenors	N/A	Per ISDA 2006	N
CNY-Semi-Annual Swap Rate-11:00- BGCANTOR	All quoted tenors	N/A	Per ISDA 2006	N
CNY-Semi-Annual Swap Rate-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
CNY-SHIBOR-Reuters	All quoted tenors	N/A	Per ISDA 2006	N
COP-IBR-OIS- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
CZK-Annual Swap Rate-11:00- BGCANTOR	All quoted tenors	N/A	Per ISDA 2006	N
CZK-Annual Swap Rate-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
CZK-PRIBOR-PRBO	All quoted tenors	N/A	Per ISDA 2006	N
CZK-PRIBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
DKK-CIBOR- DKNA13	All quoted tenors	N/A	Per ISDA 2006	N
DKK-CIBOR- DKNA13-Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
DKK-CIBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
DKK-CIBOR2- DKNA13	All quoted tenors	N/A	Per ISDA 2006	N
DKK-CITA-DKNA14- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
DKK-DKKOIS-OIS- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
EUR USD-Basis Swaps-11:00-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-10:00	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-10:00-Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-10:00-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-10:00- SwapMarker	All quoted tenors	N/A	Per ISDA 2006	N

EUR-Annual Swap Rate-11:00	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-11:00-Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-11:00-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-11:00- SwapMarker	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-3 Month	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-3 Month- SwapMarker	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EONIA- AVERAGE	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EONIA-OIS- 10:00-BGCANTOR	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EONIA-OIS- 10:00-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EONIA-OIS- 11:00-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EONIA-OIS- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EONIA-OIS- COMPOUND- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EONIA-Swap- Index	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EURIBOR- Act/365	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EURIBOR- Act/365-Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EURIBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EURIBOR- Reuters	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EURIBOR- Telerate	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EURONIA-OIS- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
EUR-ISDA-EURIBOR Swap Rate-11:00	All quoted tenors	N/A	Per ISDA 2006	N
EUR-ISDA-EURIBOR Swap Rate-12:00	All quoted tenors	N/A	Per ISDA 2006	N
EUR-ISDA-LIBOR	All quoted tenors	N/A	Per ISDA 2006	N

Swap Rate-10:00				
EUR-ISDA-LIBOR Swap Rate-11:00	All quoted tenors	N/A	Per ISDA 2006	N
EUR-LIBOR-BBA	All quoted tenors	N/A	Per ISDA 2006	N
EUR-LIBOR-BBA- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
EUR-LIBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
EUR-TAM-CDC	All quoted tenors	N/A	Per ISDA 2006	N
EUR-TEC10-CNO	All quoted tenors	N/A	Per ISDA 2006	N
EUR-TEC10-CNO- SwapMarker	All quoted tenors	N/A	Per ISDA 2006	N
EUR-TEC10- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
EUR-TEC5-CNO	All quoted tenors	N/A	Per ISDA 2006	N
EUR-TEC5-CNO- SwapMarker	All quoted tenors	N/A	Per ISDA 2006	N
EUR-TEC5-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
EUR-TMM-CDC- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
GBP USD-Basis Swaps-11:00-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
GBP-ISDA-Swap Rate	All quoted tenors	N/A	Per ISDA 2006	N
GBP-LIBOR-BBA	All quoted tenors	N/A	Per ISDA 2006	N
GBP-LIBOR-BBA- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
GBP-LIBOR-ISDA	All quoted tenors	N/A	Per ISDA 2006	N
GBP-LIBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
GBP-Semi-Annual Swap Rate	All quoted tenors	N/A	Per ISDA 2006	N
GBP-Semi-Annual Swap Rate-11:00-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
GBP-Semi-Annual Swap Rate-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
GBP-SONIA-OIS- 11:00-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
GBP-WMBA-RONIA- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
GBP-WMBA-SONIA- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
GRD-ATHIBOR- ATHIBOR	All quoted tenors	N/A	Per ISDA 2006	N
GRD-ATHIBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N

GRD-ATHIBOR- Telerate	All quoted tenors	N/A	Per ISDA 2006	N
GRD-ATHIMID- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
GRD-ATHIMID- Reuters	All quoted tenors	N/A	Per ISDA 2006	N
HKD-HIBOR-HIBOR- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
HKD-HIBOR- HIBOR=	All quoted tenors	N/A	Per ISDA 2006	N
HKD-HIBOR-HKAB	All quoted tenors	N/A	Per ISDA 2006	N
HKD-HIBOR-HKAB- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
HKD-HIBOR-ISDC	All quoted tenors	N/A	Per ISDA 2006	N
HKD-HIBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
HKD-HONIX-OIS- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
HKD-ISDA-Swap Rate-11:00	All quoted tenors	N/A	Per ISDA 2006	N
HKD-ISDA-Swap Rate-4:00	All quoted tenors	N/A	Per ISDA 2006	N
HKD-Quarterly- Annual Swap Rate- 11:00-BGCANTOR	All quoted tenors	N/A	Per ISDA 2006	N
HKD-Quarterly- Annual Swap Rate- 4:00-BGCANTOR	All quoted tenors	N/A	Per ISDA 2006	N
HKD-Quarterly- Annual Swap Rate- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
HUF-BUBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
HUF-BUBOR-Reuters	All quoted tenors	N/A	Per ISDA 2006	N
ILS-TELBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
ILS-TELBOR01- Reuters	All quoted tenors	N/A	Per ISDA 2006	N
INR-FBIL-MIBOR- OIS-COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
JPY USD-Basis Swaps-11:00-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
JPY-BBSF- Bloomberg-10:00	All quoted tenors	N/A	Per ISDA 2006	N
JPY-BBSF- Bloomberg-15:00	All quoted tenors	N/A	Per ISDA 2006	N
JPY-ISDA-Swap Rate- 10:00	All quoted tenors	N/A	Per ISDA 2006	N

All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
	All quoted tenors  All quoted tenors	All quoted tenors  All quoted tenors  N/A  All quoted tenors  N/A	All quoted tenors N/A Per ISDA 2006

MXN-TIIE-Banxico- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
MYR-KLIBOR-BNM	All quoted tenors	N/A	Per ISDA 2006	N
MYR-KLIBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
NOK-NIBOR-NIBR	All quoted tenors	N/A	Per ISDA 2006	N
NOK-NIBOR-NIBR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
NOK-NIBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
NZD-BBR-BID	All quoted tenors	N/A	Per ISDA 2006	N
NZD-BBR-FRA	All quoted tenors	N/A	Per ISDA 2006	N
NZD-BBR-ISDC	All quoted tenors	N/A	Per ISDA 2006	N
NZD-BBR-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
NZD-BBR-Telerate	All quoted tenors	N/A	Per ISDA 2006	N
NZD-NZIONA-OIS- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
NZD-Swap Rate-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
NZD-Swap Rate- ICAP-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
PHP-Semi-Annual Swap Rate-11:00- BGCANTOR	All quoted tenors	N/A	Per ISDA 2006	N
PHP-Semi-Annual Swap Rate-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
PLN-WIBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
PLN-WIBOR-WIBO	All quoted tenors	N/A	Per ISDA 2006	N
PLZ-WIBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
PLZ-WIBOR-WIBO	All quoted tenors	N/A	Per ISDA 2006	N
RON-RBOR-Reuters	All quoted tenors	N/A	Per ISDA 2006	N
RUB-Annual Swap Rate-11:00- BGCANTOR	All quoted tenors	N/A	Per ISDA 2006	N
RUB-Annual Swap Rate-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
RUB-MOSPRIME- NFEA	All quoted tenors	N/A	Per ISDA 2006	N
RUB-MOSPRIME- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
SAR-SRIOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
SAR-SRIOR-SUAA	All quoted tenors	N/A	Per ISDA 2006	N

SEK-Annual Swap Rate	All quoted tenors	N/A	Per ISDA 2006	N
SEK-Annual Swap Rate-SESWFI	All quoted tenors	N/A	Per ISDA 2006	N
SEK-SIOR-OIS- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
SEK-STIBOR- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
SEK-STIBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
SEK-STIBOR-SIDE	All quoted tenors	N/A	Per ISDA 2006	N
SGD-Semi-Annual Swap Rate-11:00- BGCANTOR	All quoted tenors	N/A	Per ISDA 2006	N
SGD-Semi-Annual Swap Rate-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
SGD-Semi-Annual Swap Rate-ICAP- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
SGD-Semi-Annual Swap Rate-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
SGD-SIBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
SGD-SIBOR-Reuters	All quoted tenors	N/A	Per ISDA 2006	N
SGD-SIBOR-Telerate	All quoted tenors	N/A	Per ISDA 2006	N
SGD-SONAR-OIS- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
SGD-SONAR-OIS- VWAP-COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
SGD-SOR-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
SGD-SOR-Reuters	All quoted tenors	N/A	Per ISDA 2006	N
SGD-SOR-Telerate	All quoted tenors	N/A	Per ISDA 2006	N
SGD-SOR-VWAP	All quoted tenors	N/A	Per ISDA 2006	N
SGD-SOR-VWAP- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
THB-Semi-Annual Swap Rate-11:00- BGCANTOR	All quoted tenors	N/A	Per ISDA 2006	N
THB-Semi-Annual Swap Rate-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
THB-SOR-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
THB-SOR-Reuters	All quoted tenors	N/A	Per ISDA 2006	N
THB-SOR-Telerate	All quoted tenors	N/A	Per ISDA 2006	N

THB-THBFIX-Reuters	All quoted tenors	N/A	Per ISDA 2006	N
TRY-TRYIBOR- Reuters	All quoted tenors	N/A	Per ISDA 2006	N
TWD-Quarterly- Annual Swap Rate- 11:00-BGCANTOR	All quoted tenors	N/A	Per ISDA 2006	N
TWD-Quarterly- Annual Swap Rate- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
TWD-Reference Dealers	All quoted tenors	N/A	Per ISDA 2006	N
TWD-Reuters-6165	All quoted tenors	N/A	Per ISDA 2006	N
TWD-Telerate-6165	All quoted tenors	N/A	Per ISDA 2006	N
TWD-TWCPBA	All quoted tenors	N/A	Per ISDA 2006	N
USD-Annual Swap Rate-11:00- BGCANTOR	All quoted tenors	N/A	Per ISDA 2006	N
USD-BA-H.15	All quoted tenors	N/A	Per ISDA 2006	N
USD-BA-Reference Dealers	All quoted tenors	N/A	Per ISDA 2006	N
USD-BMA Municipal Swap Index	All quoted tenors	N/A	Per ISDA 2006	N
USD-CD-H.15	All quoted tenors	N/A	Per ISDA 2006	N
USD-CD-Reference Dealers	All quoted tenors	N/A	Per ISDA 2006	N
USD-CMS-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
USD-CMS-Reference Banks-ICAP SwapPX	All quoted tenors	N/A	Per ISDA 2006	N
USD-CMS-Reuters	All quoted tenors	N/A	Per ISDA 2006	N
USD-CMS-Telerate	All quoted tenors	N/A	Per ISDA 2006	N
USD-CMT-T7051	All quoted tenors	N/A	Per ISDA 2006	N
USD-CMT-T7052	All quoted tenors	N/A	Per ISDA 2006	N
USD-COF11-FHLBSF	All quoted tenors	N/A	Per ISDA 2006	N
USD-COF11-Reuters	All quoted tenors	N/A	Per ISDA 2006	N
USD-COF11-Telerate	All quoted tenors	N/A	Per ISDA 2006	N
USD-CP-H.15	All quoted tenors	N/A	Per ISDA 2006	N
USD-CP-Reference Dealers	All quoted tenors	N/A	Per ISDA 2006	N
USD-Federal Funds- H.15	All quoted tenors	N/A	Per ISDA 2006	N
USD-Federal Funds- H.15-Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
USD-Federal Funds- H.15-OIS- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N

USD-Federal Funds- Reference Dealers	All quoted tenors	N/A	Per ISDA 2006	N
USD-FFCB-DISCO	All quoted tenors	N/A	Per ISDA 2006	N
USD-ISDA-Swap Rate	All quoted tenors	N/A	Per ISDA 2006	N
USD-ISDA-Swap Rate-3:00	All quoted tenors	N/A	Per ISDA 2006	N
USD-ISDAFIX3-Swap Rate	All quoted tenors	N/A	Per ISDA 2006	N
USD-ISDAFIX3-Swap Rate-3:00	All quoted tenors	N/A	Per ISDA 2006	N
USD-LIBOR-BBA	All quoted tenors	N/A	Per ISDA 2006	N
USD-LIBOR-BBA- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
USD-LIBOR-ISDA	All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
USD-LIBOR-LIBO	All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
USD-LIBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
USD-OIS-11:00- BGCANTOR	All quoted tenors	N/A	Per ISDA 2006	N
USD-OIS-11:00-LON- ICAP	All quoted tenors	N/A	Per ISDA 2006	N
USD-OIS-11:00-NY- ICAP	All quoted tenors	N/A	Per ISDA 2006	N
USD-OIS-3:00- BGCANTOR	All quoted tenors	N/A	Per ISDA 2006	N
USD-OIS-3:00-NY- ICAP	All quoted tenors	N/A	Per ISDA 2006	N
USD-Prime-H.15	All quoted tenors	N/A	Per ISDA 2006	N
USD-Prime-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
USD-S&P Index-High Grade	All quoted tenors	N/A	Per ISDA 2006	N
USD-SIBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
USD-SIBOR-SIBO	All quoted tenors	N/A	Per ISDA 2006	N
USD-SIFMA Municipal Swap Index	All quoted tenors	N/A	Per ISDA 2006	N
USD-SOFR- COMPOUND	All quoted tenors	N/A	Prior to publication of a supplement to ISDA 2006 including USD- SOFR-COMPOUND, not applicable and thereafter, per ISDA 2006	No
USD-TBILL-H.15	All quoted tenors	N/A	Per ISDA 2006	N
	<b>.</b>			

USD-TBILL-H.15- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
USD-TBILL- Secondary Market	All quoted tenors	N/A	Per ISDA 2006	N
USD-TIBOR-ISDC	All quoted tenors	N/A	Per ISDA 2006	N
USD-TIBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
USD-Treasury Rate- ICAP BrokerTec	All quoted tenors	N/A	Per ISDA 2006	N
USD-Treasury Rate- SwapMarker100	All quoted tenors	N/A	Per ISDA 2006	N
USD-Treasury Rate- SwapMarker99	All quoted tenors	N/A	Per ISDA 2006	N
USD-Treasury Rate- T19901	All quoted tenors	N/A	Per ISDA 2006	N
USD-Treasury Rate- T500	All quoted tenors	N/A	Per ISDA 2006	N
VND-Semi-Annual Swap Rate-11:00- BGCANTOR	All quoted tenors	N/A	Per ISDA 2006	N
VND-Semi-Annual Swap Rate-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
ZAR-DEPOSIT- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
ZAR-DEPOSIT- SAFEX	All quoted tenors	N/A	Per ISDA 2006	N
ZAR-JIBAR-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
ZAR-JIBAR-SAFEX	All quoted tenors	N/A	Per ISDA 2006	N
ZAR-PRIME- AVERAGE	All quoted tenors	N/A	Per ISDA 2006	N
ZAR-PRIME- AVERAGE-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N

### Definition of BRL Floating Rate Option

Floating Amount:	Notwithstanding anything to the contrary	
FX Rate × Currency Amount × $\prod_{j=1}^{N} \left(1 + \frac{Rei}{n}\right)^{N}$	$\frac{N}{N}$ ( $\frac{1}{N}$ ) $\frac{1}{N}$	
	Where:	
	<i>N</i> =number of Reset Dates in the Calculation Period	
	<i>j</i> =a particular Reset Date	
	Relevant Rate=the Relevant Rate for instance j of Reset Date	
BRL-CDI-CETIP:	For any Reset Date, the Overnight Brazilian Interbank Deposit	
	Rate Annualized, known as the average ("Media") of the	
	DIOVER- EXTRA Group as published by CETIP (Câmara de	

BRL-CDI-Reference Dealers:	Custódia e Liquidação) (the "Overnight CDI Rate") for such date; provided that (i) such rate is published not later than 12:00 p.m. on the Brazil Business Day next following such Reset Date and (ii) any adjustments made by CETIP to such rate at any time later than the end of the business day on such Reset Date shall not be taken into account.  If for any Reset Date there is no published Overnight CDI Rate (including as a result of the proviso above), CDI for the relevant Reset Date will be the overnight deposit rate published for such date by the BM&F in accordance with its rules (see http://www.bmf.com.br/portal/pages/boletim1/bd_manual/indica doreFinanceiros1.asp, or any successor page). If the BM&F does not publish such a rate for such date, CDI for the relevant Reset Date shall be determined jointly by the parties.  If the parties do not agree on a determination of such rate within one Brazil Business Day following the relevant Reset Date, CDI shall be determined through a CDI Reference Dealer Poll as described herein.  If CDI for a Reset Date is not so determined by a CDI Reference Dealer Poll, BRL-CDI-Reference Dealers shall apply.  If applicable for a Reset Date as set forth above, the Calculation Agent shall conduct up to four dealer polls commencing on the Brazil Business Day following the relevant Reset Date, in each case by requesting each of the CDI Reference Dealers to provide a quotation of the CDI. If at least four such quotations are obtained from CDI Reference Dealers in any such poll, the highest and lowest quotations will be disregarded and CDI for the relevant Reset Date will equal the arithmetic mean of the remaining quotations.  If fewer than four such quotations are obtained from a poll, the Calculation Agent shall conduct additional such polls until four such quotations are obtained in any poll; provided that the Calculation Agent shall not conduct more than four polls in the aggregate (with not more than two polls on any day and with such polls conducted over not more than two Brazil Bu
	Calculation Agent shall not conduct more than four polls in the aggregate (with not more than two polls on any day and with such polls conducted over not more than two Brazil Business Days).  If four quotations are not obtained from any of such four polls, CDI shall CDI shall not be determined by a CDI Reference
CDI Reference Dealers:	Dealer Poll.  At least six and not more than eight leading onshore dealers in
	the CDI market selected by the Calculation Agent.
Reset Dates ("resetDate"):	Each Scheduled Reset Date (as defined in the BRL CDI Best
, ,	Each Scheduled Reset Date (as defined in the BRL CDI Best Practices).
Reset Dates ("resetDate"):  Reset Dates Business Days:	Each Scheduled Reset Date (as defined in the BRL CDI Best

### Definition of USD-SOFR-COMPOUND

From and after the date on which ISDA publishes a supplement to ISDA 2006 containing a definition of USD-

SOFR-COMPOUND, per ISDA 2006

Prior to such date:

"USD-SOFR-COMPOUND" means that the rate for a Reset Date, calculated in accordance with the formula set forth below in this subparagraph, will be the rate of return of a daily compound interest investment (it being understood that the reference rate for the calculation of interest is SOFR). Upon the occurrence of a USD-SOFR-COMPOUND Index Cessation Event, the rate for each day in a Calculation Period occurring on or after the USD-SOFR-COMPOUND Index Cessation Effective Date will be determined as if references to SOFR were references to the rate (inclusive of any spreads or adjustments) formally designated, nominated or recommended as the replacement for SOFR by the Federal Reserve Board or a committee officially endorsed or convened by the Federal Reserve Board for purposes of designating, nominating or recommending a replacement for SOFR (which rate may be produced by the Federal Reserve Bank of New York or another administrator). If no such rate is formally designated, nominated or recommended within one U.S. Government Securities Business Day of the USD-SOFR-COMPOUND Index Cessation Event, the rate for each day in a Calculation Period occurring on or after the USD-SOFR-COMPOUND Index Cessation Effective Date will be determined as if references to SOFR were references to OBFR. If at the time of the USD-SOFR-COMPOUND Index Cessation Event, publication of OBFR has been permanently or indefinitely discontinued, it has been publicly announced that OBFR will be permanently or indefinitely discontinued as of a specific date or there has been a public statement by a regulator or other official sector entity prohibiting the use of OBFR (which statement applies to, but need not be limited to, Swap Transactions, including existing Swap Transactions), then the rate for each day in a Calculation Period occurring on or after the USD-SOFR-COMPOUND Index Cessation Effective Date will be determined as if references to SOFR were references to the FOMC Target Rate.

"USD-SOFR-COMPOUND" will be calculated as follows, and the resulting percentage will be rounded, if necessary, in accordance with the method set forth in Section 8.1(a):

$$\left[ \prod_{i=1}^{d_0} \left( 1 + \frac{\text{SOFR}_i \times \mathbf{n}_i}{360} \right) - 1 \right] \times \frac{360}{d}$$

where:

"d₀", for any Calculation Period, is the number of U.S. Government Securities Business Days in the relevant Calculation Period;

"i" is a series of whole numbers from one to d₀, each representing the relevant U.S. Government Securities Business Days in chronological order from, and including, the first U.S. Government Securities Business Day in the relevant Calculation Period;

"SOFR" is the daily Secured Overnight Financing Rate provided by the Federal Reserve Bank of New York, as the administrator of the benchmark, (or a successor administrator) on the Federal Reserve's Website;

"SOFR_i", for any day "i" in the relevant Calculation Period, is a reference rate equal to SOFR in respect of that day as published on or about 8:00 a.m., New York City time, on the U.S. Government Securities Business Day immediately following that day "i". If, by 5:00 p.m., New York City time, on the U.S. Government Securities Business Day immediately following any day "i", SOFR in respect of such day "i" has not been published and a USD-SOFR-COMPOUND Index Cessation Event has not occurred, then SOFR_i for that day "i" will be SOFR as published in respect of the first preceding U.S. Government Securities Business Day for which SOFR was published on the Federal Reserve's Website;

"ni" is the number of calendar days in the relevant Calculation Period on which the rate is SOFRi;

"d" is the number of calendar days in the relevant Calculation Period;

"USD-SOFR-COMPOUND Index Cessation Event" means the occurrence of one or more of the following events:

- (d) a public statement by the Federal Reserve Bank of New York (or a successor administrator of SOFR) announcing that it has ceased or will cease to provide SOFR permanently or indefinitely, provided that, at that time, there is no successor administrator that will continue to provide SOFR;
- (e) the publication of information which reasonably confirms that the Federal Reserve Bank of New York (or a successor administrator of SOFR) has ceased or will cease to provide SOFR permanently or indefinitely, provided that, at that time, there is no successor administrator that will continue to provide SOFR; or
- (f) a public statement by a regulator or other official sector entity prohibiting the use of SOFR that applies to, but need not be limited to, Swap Transactions, including existing Swap Transactions;

"USD-SOFR-COMPOUND Index Cessation Effective Date" means, in respect of a USD-SOFR-COMPOUND Index Cessation Event, the date on which the Federal Reserve Bank of New York (or a successor administrator of SOFR) ceases to publish SOFR or the date as of which SOFR may no longer be used; and

"OBFR" is the daily Overnight Bank Funding Rate as provided by the Federal Reserve Bank of New York, as the administrator of the benchmark, (or a successor administrator) on the Federal Reserve's Website.

"FOMC Target Rate" is the short-term interest rate target set by the Federal Open Markets Committee and published on the Federal Reserve's Website or, if the Federal Open Markets Committee does not target a single rate, the midpoint of the short-term interest rate target range set by the Federal Open Markets Committee and published on the Federal Reserve's Website (calculated as the arithmetic average of the upper bound of the target range and the lower bound of the target range, rounded, if necessary, in accordance with the method set forth in Section 8.1(c))

"Federal Reserve's Website" means the website of the Board of Governors of the Federal Reserve System at http://www.federalreserve.gov, or any Successor Source.

## Fixed Floating Requirements and Defaults (Excluding Optional Early Termination and Mandatory Early Termination)

Variable	Requirement	Default
Effective Date Business Day		No Adjustment
Convention:		
Termination Date Business Day		No Adjustment
Convention:		
Period End Dates:		Payment Dates
Payment Date Business Day		Modified Following
Convention:		
Linear Interpolation:		Applicable only to long or short stub
		periods
Designated Maturities for Linear		Tenors quoted next shorter and
Interpolation:		longer than the actual Calculation
		Period length
Compounding:		Inapplicable
Compounding Business Day	Same as Business Day Convention	
Convention:	for Period End Dates	
Method of Averaging:	Weighted Average or Unweighted	Unweighted Average
	Average	
Compounding Method:	Straight Compounding, Flat	
	Compounding, Spread Exclusive	

	Compounding	
ISDA MTM Matrix:		Applicable (to Mark-to-Market
		Cross Currency Swaps)
Initial Exchange Date:		Effective Date
Initial Exchange Date Business Day		Following
Convention:		
Interim Exchange Date Business		Modified Following
Day Convention:		
Final Exchange Date:		Termination Date
Final Exchange Date Business Day		Modified Following
Convention:		

# Fixed Floating Requirements and Defaults (Optional Early Termination and Mandatory Early Termination)

Setting	Requirement	Default
Optional Early Termination:		Inapplicable
Mandatory Early Termination:		Inapplicable
Option Style:	American, Bermuda, European	
Cash Settlement:	Required for Mandatory Early	Applicable (i.e., Transaction is <b>not</b>
	Termination	"torn up for no value")
Optional Early Termination Date:		Cash Settlement Payment Date
Optional Early Termination Date		Following
Business Day Convention:		
Mandatory Early Termination Date		Modified Following
Business Day Convention		

## Fixed Floating Requirements and Defaults (Optional Early Termination—Exercise)

Setting	Requirement	Default
Commencement Date:	American only	
Partial Exercise:		Inapplicable
Multiple Exercise:		Inapplicable
Exercise Business Day:		Banking Day for cash Settlement Currency (TARGET Settlement Day for EUR)
Latest Exercise Time:	On Expiration Date, the Expiration Time	Other than Expiration Date, the Expiration Time

# Fixed Floating Requirements and Defaults (Cash Settlement)

Setting	Requirement/Choices	Default
Cash Settlement Amount:		
ISDA Cross Currency Settlement		Applicable, if cross currency swap
Matrix:		with currency pair included in
		Matrix
ISDA Settlement Matrix:		Applicable, if single currency swap
		with Currency included in Matrix
Cash Settlement Valuation Time:		
Cash Settlement Valuation Date:		Two Valuation Business Days
		before Mandatory/Optional Early
		Termination Date but same day for
		CAD, GBP or DKK with Floating

W.L. di D. i. D.		Rate Option of "DKK-CIBOR-DKNA13" or "DKK-CIBOR-DKNA13-Bloomberg"
Valuation Business Day:		Banking Days in locations per the Business Day Location Table, plus additional days required by for fixings under the Floating Rate Option(s)
Cash Settlement Payment Date Business Day Convention:		Following
Cash Settlement Method:	Cash Price Cash Price—Alternate Method Collateralized Cash Price Par Yield Curve—Adjusted Par Yield Curve—Unadjusted Zero Coupon Yield—Adjusted	
Cash Settlement Currency:		For single currency, same as Notional Amount, otherwise as specified in ISDA Master Agreement, or otherwise same as Notional Amount for Fixed Amount
Settlement Rate:	ISDA Source/Other Price Source/Reference Banks	
Cash Settlement Reference Banks:		Fallbacks per ISDA 2006 Definitions
Quotation Rate:	bid ask mid Exercising Party Pays (Optional Early Termination Only)	

# Fixed for Floating Interest Rate Swaptions Terms and Conditions

Summary:	This covers fixed for floating interest rate swaptions	
	("Fixed for Floating Interest Rate Swaptions").	
Limitations on Available Selections and Default	The terms under which a Fixed for Floating Interest Rate	
Settings:	Swaption may be traded are as specified in these terms	
	and conditions and in the attached tables.	
	For amounts or rates, the relevant term cannot be less	
	than the specified Minimum, must represent an even	
	Increment and cannot exceed the Maximum; for a date,	
	the date cannot be earlier than Earliest nor later than	
	Latest.	
	For Business Days, the defaults shall be the locations	
	specified for the relevant currency, any additional	
	locations specified for the relevant Floating Rate	
	Options.	
	The parties may add additional locations from the	
	Available Locations and may eliminate some or all of	
	the other locations, so long as there is at least one	
	location in which payment may be made.	
	For these purposes "TARGET" is considered a location.	
	In many cases there are normal "vanilla" terms on which	
	the parties will transact.	
	These are shown as "Default" and will apply unless the	
	parties vary them.	
	It should be noted that these contracts can be traded in a	
	variety of currencies.	
	Since each national market has its own peculiarities, the	
	"Available Terms" and/or "Default Terms" may vary by	
	currency.	
	In some cases, the same contract might have different	
	terms depending on the market in which it is traded ( $e.g.$ ,	
	London versus NY).	
	In that case the default settings may vary by market.	
Incorporated Standards:	This contract description incorporates by reference the	
	following industry standard documentation and	
	standards:	
	(a) 2006 ISDA Definitions	
	(b) ISDA Settlement Matrix (if Optional Early	
	Termination applies)	
	(c) ISDA OTC Taxonomies	
	(d) FpML Location Codes	
	For convenience, certain terms are mapped to their	
Due due 4 Tour e/ICDA OTC Touren entre	FpML 5.5 equivalent.	
Product Type/ISDA OTC Taxonomy:  ISDA OTC Asset Class:	Interest Rate	
ISDA OTC Asset Class: ISDA OTC Base Product:	IR Swap	
ISDA OTC Base Product:  ISDA OTC Sub-Product:	Fixed Floating	
Further Limitations:	None	
Terms:	TYONG	
Terms of "Underlying Swap Transaction":		
Notional Amount ("notional"):	An amount in one of the Available Currencies (see	
inodoliai Allioulii ( liodoliai ).	below) agreed by the parties.	
	octow) agreed by the parties.	

	T
Effective Date ("effectiveDate"):	The date specified by the parties, adjusted in accordance
	with any applicable Business Day Convention.
	The parties may express the unadjusted Effective Date as
	a number of Business Days or Banking Days from the
	Trade Date ("relativeEffectiveDate").
Effective Date Business Days:	As specified by the parties from among the Available
	Business Days.
Effective Date Business Day Convention:	As specified by the parties from among the Available
	Business Day Conventions.
Termination Date ("terminationDate"):	The date specified by the parties, adjusted in accordance
	with any applicable Business Day Convention.
	The parties may express the unadjusted Termination
	Date as a number of days, months or years from the
	Effective Date ("relativeTerminationDate").
Termination Date Business Day Convention:	As specified by the parties from among the Available
	Business Day Conventions.
Fixed Amount:	
Fixed Rate Payer ("payerPartyReference"):	As specified by the parties.
Currency Amount ("notional Amount"):	As specified by the parties.
Fixed Rate Period End Dates ("unadjustedCalculation	As specified by the parties.
Period Date"):	
first Period End Date:	As specified by the parties if there is a short initial
	Calculation Period.
Fixed Rate Payment Dates ("unadjustedPaymentDate"):	As specified by the parties.
Day Count Fraction:	As specified by the parties.
Period End Dates Business Days:	As specified by the parties from among the Available
	Business Days.
Period End Dates Business Day Convention:	As specified by the parties from among the Available
	Business Day Conventions.
Payment Dates Business Days:	As specified by the parties from among the Available
	Business Days, subject to any Required Business Days.
Payment Dates Business Day Convention:	As specified by the parties from among the Available
	Business Day Conventions.
Floating Amount:	
Floating Rate Payer ("payerPartyReference"):	As specified by the parties.
Currency Amount ("notional Amount"):	As specified by the parties.
Period End Dates ("unadjustedCalculation Period	As specified by the parties.
Date"):	
first Period End Date:	As specified by the parties if there is a short initial
	Calculation Period.
Payment Dates ("unadjustedPaymentDate"):	As specified by the parties.
initial Floating Rate:	As specified by the parties.
Floating Rate Option ("floatingRateIndex"):	As specified by the parties.
Designated Maturity ('indexTenor")	As specified by the parties.
Linear Interpolation:	For the Calculation Periods specified by the parties.
Shorter Designated Maturity for Linear Interpolation:	For a Calculation Period to which Linear Interpolation
	applies, as specified by the parties.
Longer Designated Maturity for Linear Interpolation	For a Calculation Period to which Linear Interpolation
	applies, as specified by the parties.
Spread:	As specified by the parties.
Day Count Fraction:	As specified by the parties.
Reset Dates ("resetDate"):	As specified by the parties.
Method of Averaging:	As specified by the parties.
Compounding:	As specified by the parties.

Compounding Dates	In the event Compounding is selected, as selected by the parties.
Comment of Mark 1 (Comment of the OR Flat	
Compounding Method (Compounding OR Flat Compounding):	In the event Compounding is selected, as selected by the parties.
Period End Dates Business Days:	As specified by the parties from among the Available
Terrod Elid Dates Business Days.	Business Days.
Period End Dates Business Day Convention:	As specified by the parties from among the Available
·	Business Day Conventions.
Payment Dates Business Days:	As specified by the parties from among the Available
.,	Business Days, subject to any Required Business Days.
Payment Dates Business Day Convention:	As specified by the parties from among the Available
Taymon Baco Business Bay Convention.	Business Day Conventions.
Reset Dates Business Days:	As specified by the parties from among the Available
Reset Dates Dusiness Days.	Business Days, subject to any Required Business Days.
Reset Dates Business Day Convention:	As specified by the parties from among the Available
Reset Dates Business Day Convention:	
Swaption Terms:	Business Day Conventions.
Option Style:	As specified by the parties.
Seller:	As specified by the parties.  As specified by the parties.
Buyer:	As specified by the parties.
Seller's Agent:	As specified by the parties.
Premium:	As specified by the parties.
Premium Payment Date:	As specified by the parties.
Business Day Convention for Premium Payment Date:	As specified by the parties.
Business Days for Payments:	As specified by the parties from among the Available
	Business Days, subject to any Required Business Days.
Exercise Business Days:	As specified by the parties.
Swaption Procedure for Exercise:	
Commencement Date:	As specified by the parties, if the Option Style is American.
Bermuda Option Exercise Dates:	As specified by the parties, if the Option Style is
Definition Energies Dates.	Bermuda.
Expiration Date:	As specified by the parties.
Expiration Time:	As specified by the parties.
Earliest Exercise Time:	As specified by the parties.
Latest Exercise Time:	As specified by the parties.  As specified by the parties.
Exercise Business Day:	As specified by the parties.
Partial Exercise:	As specified by the parties, if Option Style is European.
Multiple Exercise:	As specified by the parties, if Option Style is American
ACCOUNT OF THE PROPERTY OF THE	or Bermuda.
Minimum Notional Amount:	As specified by the parties if Partial Exercise or Multiple
	Exercise is specified.
Maximum Notional Amount:	As specified by the parties if Multiple Exercise is specified.
Integral Multiple:	As specified by the parties if Partial Exercise or Multiple
mografication.	Exercise is specified.
Automatic Exercise:	As specified by the parties.
Threshold:	As specified by the parties if Automatic Exercise is
III CONCIU.	specified.
Fallback Exercise:	As specified by the parties (if required).
Swaption Settlement Terms:	The specified of the parties (if required).
Cash Settlement	As specified by the parties.
Physical Settlement	As specified by the parties.  As specified by the parties.
Cleared Physical Settlement	As specified by the parties.  As specified by the parties.
CIEGIEU FIIYSICAI SELUCIILEIIL	As specified by the parties.

ISDA Settlement Matrix:	As specified by the parties, if Cash Settlement is applicable to a single currency Underlying Swap Transaction.	
ISDA Cross Currency Settlement Matrix:	As specified by the parties, if Cash Settlement is applicable and the Underlying Swap Transaction is a cross-currency Transaction where the currency pair is included in the Matrix.	
Cash Settlement Valuation Time:	If Cash Settlement is applicable, as specified by the parties, directly or via the ISDA Settlement Matrix.	
Cash Settlement Valuation Date:	If Cash Settlement is applicable, as specified by the parties, directly or via the ISDA Settlement Matrix.	
Valuation Business Days:	If Cash Settlement is applicable, as specified by the parties, directly or via the ISDA Settlement Matrix.	
Cash Settlement Payment Date:	If Cash Settlement is applicable, as specified by the parties, directly or via the ISDA Settlement Matrix.	
Cash Settlement Payment Date Business Days Convention:	If Cash Settlement is applicable, as specified by the parties, directly or via the ISDA Settlement Matrix.	
Cash Settlement Method:	If Cash Settlement is applicable, as specified by the parties from Available Cash Settlement Methods, directly or via the ISDA Settlement Matrix.	
Cash Settlement Currency:	If Cash Settlement is applicable, and "Cash Price" or "Cash Price—Alternate" apply, as specified by the parties from Available Cash Settlement Methods, directly or via the ISDA Settlement Matrix.	
Settlement Rate:	If Cash Settlement is applicable, and "Par Yield Curve—Adjusted," "Par Yield Curve—Unadjusted" or "Zero Coupon Curve—Adjusted" apply, as specified by the parties from Available Cash Settlement Methods, directly or via the ISDA Settlement Methods, directly or via the ISDA Settlement Methods, directly or via the ISDA Settlement Matrix.	
Cash Settlement Reference Banks:	As specified by the parties, if Settlement Rate is applicable.	
Cash Settlement Reference Banks:	If Cash Settlement is applicable, as specified by the parties.	
Quotation Rate:	If Cash Settlement is applicable, as specified by the parties from among the Available Quotation Rates.	
Calculation Agent:	As agreed by the parties.	

Fixed Floating Swaptions Available Currencies and Required Business Days

Three Letter Currency Code (ISDA/ISO)	Currency Name (ISDA)	Basic Business Day Locations For Currency (FpML Codes)
AUD	Australian Dollar	AUSY
CAD	Canadian Dollar	CATO
CHF	Swiss Franc	CHZU
EUR	Euro	EUTA
GBP	Sterling	GBLO
ILS	Israeli Shekel	ILTA
JPY	Japanese Yen	JPTO
MXN	Mexican Peso (New)	MXMC
SAR	Saudi Arabian Riyal	SARI
SEK	Swedish Krona	SEST
SGD	Singapore Dollar	SGSI
TRY	Turkish Lira	TRIS
USD	United States Dollars	USNY
ZAR	South African Rand	ZAJO

#### Fixed Floating Swaptions Available Business Day Conventions

ISDA Name
Following
Modified/Modified Following
No Adjustment
Preceding
FRN Convention/Eurodollar Convention

#### Fixed Floating Swaptions Underlying Swap Transaction Available Day Count Fractions

ISDA Name
1/1
30/360, 360/360, Bond Basis
Actual/360
Actual/365 (Fixed), Act/365 (Fixed), A/365 (Fixed), A/365F
Actual/Actual, Actual/Actual (ISDA), Act/Act, Act/Act (ISDA)
Actual/Actual (ICMA), Act/Act, Act/Act (ICMA)

#### Fixed Floating Swaptions Default Effective Dates

	Currency	Default Effective Date
All Cu	rrencies Other than CAD, GBP, MXN	Plus Two Banking Days
	MXN	Plus One Banking Day
	CAD, GBP	Plus Zero

#### Fixed Floating Earliest and Latest Effective and Termination Dates

Currency	Earliest Effective	Latest Effective	Earliest Termination	Latest Termination
	Date	Date	Date	Date
N/A	N/A	N/A	N/A	N/A

Fixed Floating Swaptions Underlying Swap Transaction Notional Amounts

Currency	Minimum	Increment	Maximum	Default
AUD	25,000,000	100,000	N/A	N/A
CAD	5,000,000	100,000	N/A	N/A
CHF	10,000,000	1,000,000	N/A	N/A
EUR	25,000,000	100,000	N/A	N/A
GBP	25,000,000	100,000	N/A	N/A
ILS	5,000,000	100,000	N/A	N/A
JPY	2,500,000,000	100,000,000	N/A	N/A
MXN	10,000,000	1,000,000	N/A	N/A
SAR	5,000,000	100,000	N/A	N/A
SEK	5,000,000	100,000	N/A	N/A
SGD	5,000,000	100,000	N/A	N/A
TRY	5,000,000	100,000	N/A	N/A
USD	25,000,000	1,000,000	N/A	N/A
ZAR	5,000,000	100,000	N/A	N/A

Fixed Floating Swaptions Underlying Swap Transaction Rate Options and Defaults

Floating Rate Option	Available Tenors	Default Tenor	Default Day Count Fraction	Additional Business Day Locations
AUD-AONIA-OIS- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
AUD-AONIA-OIS- COMPOUND- SwapMarker	All quoted tenors	N/A	Per ISDA 2006	N
AUD-BBR-AUBBSW	All quoted tenors	N/A	Per ISDA 2006	N
AUD-BBR-BBSW	All quoted tenors	N/A	Per ISDA 2006	N
AUD-BBR-BBSW- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
AUD-BBR-BBSY (BID)	All quoted tenors	N/A	Per ISDA 2006	N
AUD-BBR-ISDC	All quoted tenors	N/A	Per ISDA 2006	N
AUD-LIBOR-BBA	All quoted tenors	N/A	Per ISDA 2006	N
AUD-LIBOR-BBA- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
AUD-LIBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
AUD-Quarterly Swap Rate-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
AUD-Quarterly Swap Rate-ICAP-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
AUD-Semi-annual Swap Rate-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
AUD-Semi-Annual Swap Rate-ICAP- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N

Floating Rate Option	Available Tenors	Default Tenor	Default Day Count Fraction	Additional Business Day Locations
AUD-Swap Rate- Reuters	All quoted tenors	N/A	Per ISDA 2006	N
CAD-BA-CDOR	All quoted tenors	N/A	Per ISDA 2006	N
CAD-BA-CDOR- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
CAD-BA-Reuters	All quoted tenors	N/A	Per ISDA 2006	N
CAD-BA-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
CAD-TBILL-Reuters	All quoted tenors	N/A	Per ISDA 2006	N
CAD-TBILL- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
CAD-LIBOR-BBA	All quoted tenors	N/A	Per ISDA 2006	N
CAD-LIBOR-BBA- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
CAD-LIBOR-BBA- SwapMarker	All quoted tenors	N/A	Per ISDA 2006	N
CAD-LIBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
CAD-REPO-CORRA	All quoted tenors	N/A	Per ISDA 2006	N
CAD-CORRA-OIS- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
CAD-ISDA-Swap Rate	All quoted tenors	N/A	Per ISDA 2006	N
CHF USD-Basis Swaps-11:00-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
CHF-Annual Swap Rate	All quoted tenors	N/A	Per ISDA 2006	N
CHF-Annual Swap Rate-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
CHF-ISDAFIX-Swap Rate	All quoted tenors	N/A	Per ISDA 2006	N
CHF-LIBOR-BBA	All quoted tenors	N/A	Per ISDA 2006	N
CHF-LIBOR-BBA- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
CHF-LIBOR-ISDA	All quoted tenors	N/A	Per ISDA 2006	N
CHF-LIBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
CHF-OIS-11:00-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
CHF-TOIS-OIS- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
EUR USD-Basis Swaps-11:00-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-10:00	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-10:00-Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N

Floating Rate Option	Available Tenors	Default Tenor	Default Day Count Fraction	Additional Business Day Locations
EUR-Annual Swap Rate-10:00-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-10:00- SwapMarker	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-11:00	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-11:00-Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-11:00-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-11:00- SwapMarker	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-3 Month	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-3 Month- SwapMarker	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EONIA- AVERAGE	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EONIA-OIS- 10:00-BGCANTOR	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EONIA-OIS- 10:00-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EONIA-OIS- 11:00-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EONIA-OIS- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EONIA-OIS- COMPOUND- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EONIA-Swap- Index	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EURIBOR- Act/365	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EURIBOR- Act/365-Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EURIBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EURIBOR- Reuters	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EURIBOR- Telerate	All quoted tenors	N/A	Per ISDA 2006	N

Floating Rate Option	Available Tenors	Default Tenor	Default Day Count Fraction	Additional Business Day Locations
EUR-EURONIA-OIS- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
EUR-ISDA-EURIBOR Swap Rate-11:00	All quoted tenors	N/A	Per ISDA 2006	N
EUR-ISDA-EURIBOR Swap Rate-12:00	All quoted tenors	N/A	Per ISDA 2006	N
EUR-ISDA-LIBOR Swap Rate-10:00	All quoted tenors	N/A	Per ISDA 2006	N
EUR-ISDA-LIBOR Swap Rate-11:00	All quoted tenors	N/A	Per ISDA 2006	N
EUR-LIBOR-BBA	All quoted tenors	N/A	Per ISDA 2006	N
EUR-LIBOR-BBA- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
EUR-LIBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
EUR-TAM-CDC	All quoted tenors	N/A	Per ISDA 2006	N
EUR-TEC10-CNO	All quoted tenors	N/A	Per ISDA 2006	N
EUR-TEC10-CNO- SwapMarker	All quoted tenors	N/A	Per ISDA 2006	N
EUR-TEC10- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
EUR-TEC5-CNO	All quoted tenors	N/A	Per ISDA 2006	N
EUR-TEC5-CNO- SwapMarker	All quoted tenors	N/A	Per ISDA 2006	N
EUR-TEC5-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
EUR-TMM-CDC- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
GBP USD-Basis Swaps-11:00-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
GBP-ISDA-Swap Rate	All quoted tenors	N/A	Per ISDA 2006	N
GBP-LIBOR-BBA	All quoted tenors	N/A	Per ISDA 2006	N
GBP-LIBOR-BBA- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
GBP-LIBOR-ISDA	All quoted tenors	N/A	Per ISDA 2006	N
GBP-LIBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
GBP-Semi-Annual Swap Rate	All quoted tenors	N/A	Per ISDA 2006	N
GBP-Semi-Annual Swap Rate-11:00-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
GBP-Semi-Annual Swap Rate-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N

Floating Rate Option	Available Tenors	Default Tenor	Default Day Count Fraction	Additional Business Day Locations
GBP-SONIA-OIS- 11:00-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
GBP-WMBA-RONIA- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
GBP-WMBA-SONIA- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
ILS-TELBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
ILS-TELBOR01- Reuters	All quoted tenors	N/A	Per ISDA 2006	N
JPY USD-Basis Swaps-11:00-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
JPY-BBSF- Bloomberg-10:00	All quoted tenors	N/A	Per ISDA 2006	N
JPY-BBSF- Bloomberg-15:00	All quoted tenors	N/A	Per ISDA 2006	N
JPY-ISDA-Swap Rate- 10:00	All quoted tenors	N/A	Per ISDA 2006	N
JPY-ISDA-Swap Rate- 15:00	All quoted tenors	N/A	Per ISDA 2006	N
JPY-LIBOR-BBA	All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
JPY-LIBOR-BBA- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
JPY-LIBOR- FRASETT	All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
JPY-LIBOR-ISDA	All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
JPY-LIBOR-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
JPY-MUTANCALL- TONAR	All quoted tenors	N/A	Per ISDA 2006	N
JPY-OIS-11:00-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
JPY-TIBOR-17096	All quoted tenors	N/A	Per ISDA 2006	N
JPY-TIBOR-17097	All quoted tenors	N/A	Per ISDA 2006	N
JPY-TIBOR-TIBM (10 Banks)	All quoted tenors	N/A	Per ISDA 2006	N
JPY-TIBOR-TIBM (5 Banks)	All quoted tenors	N/A	Per ISDA 2006	N
JPY-TIBOR-TIBM (All Banks)	All quoted tenors	N/A	Per ISDA 2006	N
JPY-TIBOR-TIBM (All Banks)-Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
JPY-TIBOR-TIBM- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N

Floating Rate Option	Available Tenors	Default Tenor	Default Day Count Fraction	Additional Business Day Locations
JPY-TIBOR-ZTIBOR	All quoted tenors	N/A	Per ISDA 2006	N
JPY-TONA-OIS- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
JPY-TSR-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
JPY-TSR-Reuters- 10:00	All quoted tenors	N/A	Per ISDA 2006	N
JPY-TSR-Reuters- 15:00	All quoted tenors	N/A	Per ISDA 2006	N
JPY-TSR-Telerate- 10:00	All quoted tenors	N/A	Per ISDA 2006	N
JPY-TSR-Telerate- 15:00	All quoted tenors	N/A	Per ISDA 2006	N
MXN-TIIE-Banxico	All quoted tenors	N/A	Per ISDA 2006	N
SAR-SRIOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
SAR-SRIOR-SUAA	All quoted tenors	N/A	Per ISDA 2006	N
SEK-Annual Swap Rate	All quoted tenors	N/A	Per ISDA 2006	N
SEK-Annual Swap Rate-SESWFI	All quoted tenors	N/A	Per ISDA 2006	N
SEK-SIOR-OIS- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
SEK-STIBOR- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
SEK-STIBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
SEK-STIBOR-SIDE	All quoted tenors	N/A	Per ISDA 2006	N
SGD-Semi-Annual Swap Rate-11:00- BGCANTOR	All quoted tenors	N/A	Per ISDA 2006	N
SGD-Semi-Annual Swap Rate-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
SGD-Semi-Annual Swap Rate-ICAP- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
SGD-Semi-Annual Swap Rate-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
SGD-SIBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
SGD-SIBOR-Reuters	All quoted tenors	N/A	Per ISDA 2006	N
SGD-SIBOR-Telerate	All quoted tenors	N/A	Per ISDA 2006	N
SGD-SONAR-OIS- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N

Floating Rate Option	Available Tenors	Default Tenor	Default Day Count Fraction	Additional Business Day Locations
SGD-SONAR-OIS- VWAP-COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
SGD-SOR-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
SGD-SOR-Reuters	All quoted tenors	N/A	Per ISDA 2006	N
SGD-SOR-Telerate	All quoted tenors	N/A	Per ISDA 2006	N
SGD-SOR-VWAP	All quoted tenors	N/A	Per ISDA 2006	N
SGD-SOR-VWAP- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
TRY-Annual Swap Rate-11:15- BGCANTOR	All quoted tenors	N/A	Per ISDA 2006	N
TRY-Annual Swap Rate-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
TRY-TRYIBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
TRY-TRYIBOR- Reuters	All quoted tenors	N/A	Per ISDA 2006	N
USD-Annual Swap Rate-11:00- BGCANTOR	All quoted tenors	N/A	Per ISDA 2006	N
USD-BA-H.15	All quoted tenors	N/A	Per ISDA 2006	N
USD-BA-Reference Dealers	All quoted tenors	N/A	Per ISDA 2006	N
USD-BMA Municipal Swap Index	All quoted tenors	N/A	Per ISDA 2006	N
USD-CD-H.15	All quoted tenors	N/A	Per ISDA 2006	N
USD-CD-Reference Dealers	All quoted tenors	N/A	Per ISDA 2006	N
USD-CMS-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
USD-CMS-Reference Banks-ICAP SwapPX	All quoted tenors	N/A	Per ISDA 2006	N
USD-CMS-Reuters	All quoted tenors	N/A	Per ISDA 2006	N
USD-CMS-Telerate	All quoted tenors	N/A	Per ISDA 2006	N
USD-CMT-T7051	All quoted tenors	N/A	Per ISDA 2006	N
USD-CMT-T7052	All quoted tenors	N/A	Per ISDA 2006	N
USD-COF11-FHLBSF	All quoted tenors	N/A	Per ISDA 2006	N
USD-COF11-Reuters	All quoted tenors	N/A	Per ISDA 2006	N
USD-COF11-Telerate	All quoted tenors	N/A	Per ISDA 2006	N
USD-CP-H.15	All quoted tenors	N/A	Per ISDA 2006	N
USD-CP-Reference Dealers	All quoted tenors	N/A	Per ISDA 2006	N

Floating Rate Option	Available Tenors	Default Tenor	Default Day Count Fraction	Additional Business Day Locations
USD-Federal Funds- H.15	All quoted tenors	N/A	Per ISDA 2006	N
USD-Federal Funds- H.15-Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
USD-Federal Funds- H.15-OIS- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
USD-Federal Funds- Reference Dealers	All quoted tenors	N/A	Per ISDA 2006	N
USD-FFCB-DISCO	All quoted tenors	N/A	Per ISDA 2006	N
USD-ISDA-Swap Rate	All quoted tenors	N/A	Per ISDA 2006	N
USD-ISDA-Swap Rate-3:00	All quoted tenors	N/A	Per ISDA 2006	N
USD-ISDAFIX3-Swap Rate	All quoted tenors	N/A	Per ISDA 2006	N
USD-ISDAFIX3-Swap Rate-3:00	All quoted tenors	N/A	Per ISDA 2006	N
USD-LIBOR-BBA	All quoted tenors	N/A	Per ISDA 2006	N
USD-LIBOR-BBA- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
USD-LIBOR-ISDA	All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
USD-LIBOR-LIBO	All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
USD-LIBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
USD-OIS-11:00- BGCANTOR	All quoted tenors	N/A	Per ISDA 2006	N
USD-OIS-11:00-LON- ICAP	All quoted tenors	N/A	Per ISDA 2006	N
USD-OIS-11:00-NY- ICAP	All quoted tenors	N/A	Per ISDA 2006	N
USD-OIS-3:00- BGCANTOR	All quoted tenors	N/A	Per ISDA 2006	N
USD-OIS-3:00-NY- ICAP	All quoted tenors	N/A	Per ISDA 2006	N
USD-Prime-H.15	All quoted tenors	N/A	Per ISDA 2006	N
USD-Prime-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
USD-S&P Index-High Grade	All quoted tenors	N/A	Per ISDA 2006	N
USD-SIBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
USD-SIBOR-SIBO	All quoted tenors	N/A	Per ISDA 2006	N
	•			

Floating Rate Option	Available Tenors	Default Tenor	Default Day Count Fraction	Additional Business Day Locations
USD-SIFMA Municipal Swap Index	All quoted tenors	N/A	Per ISDA 2006	N N
USD-TBILL-H.15	All quoted tenors	N/A	Per ISDA 2006	N
USD-TBILL-H.15- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
USD-TBILL- Secondary Market	All quoted tenors	N/A	Per ISDA 2006	N
USD-TIBOR-ISDC	All quoted tenors	N/A	Per ISDA 2006	N
USD-TIBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
USD-Treasury Rate- ICAP BrokerTec	All quoted tenors	N/A	Per ISDA 2006	N
USD-Treasury Rate- SwapMarker100	All quoted tenors	N/A	Per ISDA 2006	N
USD-Treasury Rate- SwapMarker99	All quoted tenors	N/A	Per ISDA 2006	N
USD-Treasury Rate- T19901	All quoted tenors	N/A	Per ISDA 2006	N
USD-Treasury Rate- T500	All quoted tenors	N/A	Per ISDA 2006	N
VND-Semi-Annual Swap Rate-11:00- BGCANTOR	All quoted tenors	N/A	Per ISDA 2006	N
VND-Semi-Annual Swap Rate-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
ZAR-DEPOSIT- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
ZAR-DEPOSIT- SAFEX	All quoted tenors	N/A	Per ISDA 2006	N
ZAR-JIBAR-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
ZAR-JIBAR-SAFEX	All quoted tenors	N/A	Per ISDA 2006	N
ZAR-PRIME- AVERAGE	All quoted tenors	N/A	Per ISDA 2006	N
ZAR-PRIME- AVERAGE-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N

### Fixed Floating Swaption Underlying Swap Transaction Requirements and Defaults

Variable	Requirement	Default
Effective Date Business Day		No Adjustment
Convention		
Termination Date Business Day		No Adjustment
Convention		-
Period End Dates		Payment Dates

Payment Date Business Day		Modified Following
Convention		
Linear Interpolation		Applicable only to long or short stub
		periods
Designated Maturities for Linear		Tenors quoted next shorter and
Interpolation		longer than the actual Calculation
		Period length
Compounding		Inapplicable
Compounding Business Day	Same as Business Day Convention	
Convention	for Period End Dates	
Method of Averaging	Weighted Average or Unweighted	Unweighted Average
	Average	
Compounding Method	Compounding or Flat Compounding	Compounding

### Fixed Floating Swaption Requirements and Defaults

Setting	Requirement	Default
Option Style:	American, Bermuda, European	
Premium Payment Date Business		Following
Day Convention		

# Fixed Floating Swaption Requirements and Defaults (Swaption—Exercise)

Setting	Requirement	Default
Commencement Date:	American only	
Partial Exercise:		Inapplicable
Multiple Exercise:		Inapplicable
Exercise Business Day		Banking Day for cash Settlement
		Currency (TARGET Settlement Day
		for EUR)
Latest Exercise Time	On Expiration Date, the Expiration	Other than Expiration Date, the
	Time	Expiration Time
Automatic Exercise		
Threshold		

# Fixed Floating Swaption Requirements and Defaults (Swaption Cash Settlement)

Setting	Requirement/Choices	Default
Cash Settlement Amount		
ISDA Settlement Matrix		Applicable, if single currency swap with Currency included in Matrix
ISDA Cross Currency Settlement		Applicable, if cross currency swap
Matrix		with currency pair included in
		Matrix
Cash Settlement Valuation Time		
Cash Settlement Valuation Date		Two Valuation Business Days
		before Mandatory/Optional Early
		Termination Date <b>but</b> same day for
		CAD, GBP or DKK with Floating
		Rate Option of "DKK-CIBOR-
		DKNA13" or "DKK-CIBOR-
		DKNA13-Bloomberg"

Valuation Business Day		Banking Days in locations per the Business Day Location Table, plus additional days required by for fixings under the Floating Rate Option(s)
Cash Settlement Payment Date Business Day Convention		Following
Cash Settlement Method	Cash Price Cash Price—Alternate Method Collateralized Cash Price Par Yield Curve—Adjusted Par Yield Curve—Unadjusted Zero Coupon Yield—Adjusted	
Cash Settlement Currency		For single currency, same as Notional Amount, otherwise as specified in ISDA Master Agreement, or otherwise same as Notional Amount for Fixed Amount
Settlement Rate	ISDA Source/Other Price Source/Reference Banks	
Cash Settlement Reference Banks		Fallbacks per ISDA 2006 Definitions
Quotation Rate	bid ask mid	

### **Forward Rate Agreements (Uncleared)**

Summary:	This covers uncleared forward rate agreements
	("Forward Rate Agreements" or "FRAs").
Limitations on Available Selections and Default Settings:	The terms under which an FRA may be traded are as specified in these terms and conditions and in the
	attached tables.
	For amounts or rates, the relevant term cannot be less than the specified Minimum, must represent an even Increment and cannot exceed the Maximum; for a date, the date cannot be earlier than Earliest nor later than Latest.
	For Business Days, the defaults shall be the locations specified for the relevant currency, any additional locations specified for the relevant Floating Rate Options.
	The parties may add additional locations from the Available Locations and may eliminate some or all of the other locations, so long as there is at least one location in which payment may be made. For these purposes "TARGET"/EUTA is considered a location.
	In many cases there are normal "vanilla" terms on which the parties will transact. These are shown as "Default" and will apply unless the parties vary them.
	It should be noted that these contracts can be traded in a variety of currencies. Since each national market has its own peculiarities, the "Available Terms" and/or "Default Terms" may vary by currency.
	In some cases, the same contract might have different terms depending on the market in which it is traded ( <i>e.g.</i> , London versus NY). In that case the default settings may vary by market.
Incorporated Standards:	These terms and conditions incorporate by reference the following industry standard documentation and standards:
	(a) 2006 ISDA Definitions
	(b) ISDA OTC Taxonomies
	(c) FpML Location Codes
	For convenience, certain terms are mapped to their FpML 5.2.4 equivalent.
Product Type/ISDA OTC Taxonomy:	
ISDA OTC Asset Class:	Interest Rate
ISDA OTC Base Product:	FRA
ISDA OTC Sub-Product:	N/A
Further Limitations:	None

Terms:	
Notional Amount ("notional"):	An amount in one of the Available Currencies (see below) agreed by the parties.
Effective Date ("adjustedEffectiveDate"):	The date specified by the parties, adjusted in accordance with any applicable Business Day Convention.
Effective Date Business Day Convention:	As specified by the parties from among the Available Business Day Conventions.
Termination Date ("adjustedTerminationDate"):	The date specified by the parties, adjusted in accordance with any applicable Business Day Convention.
Termination Date Business Day Convention:	As specified by the parties from among the Available Business Day Conventions.
Fixed Rate Payer ("buyerPartyReference"):	As specified by the parties.
Fixed Rate ("fixedRate"):	As specified by the parties.
Floating Rate Payer ("sellerPartyReference"):	As specified by the parties.
Payment Date ("paymentDate"):	As specified by the parties.
Floating Rate Option ("floatingIndex"):	As specified by the parties.
Designated Maturity ("indexTenor"):	As specified by the parties.
Spread:	As specified by the parties.
Floating Rate Day Count Fraction ("dayCountFraction"):	As specified by the parties.
Reset Date:	The Effective Date.
Discounting ("fraDiscounting"):	As specified by the parties.
Business Days:	As specified by the parties.
Calculation Agent:	As specified by the parties.

### FRA Available Currencies and Required Business Days

Three Letter Currency Code (ISDA/ISO)	Currency Name (ISDA)	Basic Business Day Locations For Currency (FpML Codes)
` '	A	* ` `
AUD	Australian Dollar	AUSY
CAD	Canadian Dollar	CATO
CHF	Swiss Franc	CHZU
CZK	Czech Koruna	CZPR
DKK	Danish Krone	DKCO
EUR	Euro	EUTA
GBP	Sterling	GBLO
HUF	Hungarian Forint	HUBU
ILS	Israeli Shekel	ILTA
JPY	Japanese Yen	JPTO
NOK	Norwegian Krone	NOOS
NZD	New Zealand Dollar	NZAU and NZWE
PLN	Polish Zloty	PLWA
SEK	Swedish Krona	SEST
USD	United States Dollars	USNY
ZAR	South African Rand	ZAJO

### FRA Available Business Day Conventions

ISDA Name
Following
Modified/Modified Following
No Adjustment

Preceding

### FRA Available Day Count Fractions

ISDA Name
30/360, 360/360, Bond Basis
Actual/360
Actual/365 (Fixed), Act/365 (Fixed), A/365 (Fixed), A/365F
Actual/Actual, Actual/Actual (ISDA), Act/Act, Act/Act (ISDA)
Actual/Actual (ICMA), Act/Act, Act/Act (ICMA)
1/1

#### FRA Notional Amounts

Currency	Minimum	Increment	Maximum	Default
AUD	5,000,000	100,000	N/A	N/A
CAD	5,000,000	100,000	N/A	N/A
CHF	5,000,000	100,000	N/A	N/A
CZK	5,000,000	100,000	N/A	N/A
DKK	5,000,000	100,000	N/A	N/A
EUR	5,000,000	100,000	N/A	N/A
GBP	5,000,000	100,000	N/A	N/A
HUF	5,000,000	100,000	N/A	N/A
ILS	5,000,000	100,000	N/A	N/A
JPY	500,000,000	10,000,000	N/A	N/A
NOK	5,000,000	100,000	N/A	N/A
NZD	5,000,000	100,000	N/A	N/A
PLN	5,000,000	100,000	N/A	N/A
SEK	5,000,000	100,000	N/A	N/A
USD	10,000,000	1,000,000	N/A	N/A
ZAR	5,000,000	100,000	N/A	N/A

### FRA Floating Rate Options and Defaults

Currency	Floating Rate	Available	Default	Default Day	Additional	Default for
	Option (any	Tenors	Tenor	Count Fraction	Business	Currency
	from ISDA				Day	(Y/N)
	2006 if not				Locations	, ,
	specified)					
AUD				Actual/360	N	
CAD						
CHF						
CZK				Actual/360	N	
DKK						
EUR						
GBP						
HUF						
ILS	ILS-	All quoted	N	Per ISDA 2006	N	Y
	TELBOR01-					
	Reuters					
JPY						
NOK						
NZD	NZD-BBR-	All quoted	N	Per ISDA 2006	N	Y
	FRA					

## Forward Rate Agreements (Uncleared)

PLN					
SEK					
USD	USD-LIBOR-	3M	Actual/360	GBLO	Y
	BBA				
ZAR					

### FRA Discounting Types

ISDA Name	FpML	Default for (Currency)
FRA Discounting	ISDA	All but AUD
FRA Yield Discounting	AFMA	AUD
None	NONE	None

### Forward Rate Agreements – CME Cleared

Summary:	This covers forward rate agreements ("FRAs") cleared
Limitations on Available Selections and Default	by the Chicago Mercantile Exchange Inc. ("CME").  The terms under which a Forward Rate
Settings:	Agreement/CME Cleared may be traded are as specified
bettings.	in these terms and conditions, which incorporate the
	CME Rulebook, in particular Chapters 900 and 901
	(and any successor provisions) and the CME Cleared
	IRS Product Scope (or any successor).
	By electing to trade a Forward Rate
	Agreement/CME Cleared, participants are
	representing that they are familiar with the CME
	Rulebook and the limitations on transaction terms
	contained in it.
Incorporated Standards:	This contract description incorporates by reference the
	CME Rulebook as in effect from time to time.
	The CME Rulebook itself may incorporate certain
	additional standards, such as the 2006 ISDA Definitions.
	2 cimicons.
	Be aware that the timing of effectiveness of
	amendments or supplements to the ISDA standards may vary between bilateral and CME contracts,
	since the CME may reserve the right to select when
	and how such changes become effective.
Product Type/ISDA OTC Taxonomy:	who have such changes second executive
ISDA OTC Asset Class:	Interest Rate
ISDA OTC Base Product:	FRA
ISDA OTC Sub-Product(s):	N/A
Further Limitations:	Must comply with CME Clearing Requirements.
Terms:	
Definition Set:	The definition set (e.g., ISDA 2000/ISDA2006) elected
	by, or otherwise binding on, the parties in accordance
700 1 7	with the CME Rulebook.
Effective Date:	As per the CME Rulebook.
Notional Amount:	An amount in Currency determined by the parties
	subject to the limitations in the CME Rulebook.
	This may vary from period to period to the extent permitted by the CME Rulebook.
	The CME Rulebook may limit the Currencies and
	Floating Rate Options for which variable notionals are
	permitted.
Currency:	One of the currencies permitted for the relevant
	transaction type per the CME Rulebook.
Business Days:	As per the CME Rulebook, which may require certain
-	Business Days be applicable on a per Currency or
	Floating Rate Option Basis and may otherwise limit the
	available Business Day locations which can be elected.
Business Day Convention:	As per the CME Rulebook.
Trade Date:	As per the CME Rulebook.
Settlement:	As per the CME Rulebook, in advance or arrears.
Termination Date:	As agreed by the parties, subject to any minimum or
	maximum tenor in the CME Rulebook.

Termination Date Business Day Convention:	As per the CME Rulebook, and thus subject to limitations based on other terms of the transaction.
Fixed Rate Payer Payment Dates:	As per the CME Rulebook.
Fixed Amount:	As per the CME Rulebook, which may permit use of a
1 IACC Amount.	schedule.
Fixed Rate:	As agreed by the parties, subject to any minimum or maximum rate and per-period variability permitted in the CME Rulebook.
Floating Rate Payer Payment Dates:	As per the CME Rulebook.
Floating Amount:	As per the CME Rulebook.
Floating Rate Option:	As determined by the parties, subject to the CME Rulebook, which may provide a more limited list of available options for a Currency than does the Definition Set
Designated Maturity:	As per the CME Rulebook, which may provide a more limited set of Designated Maturities than does the related rate source page.
Spread:	Subject to any minimum or maximum rate and perperiod variability permitted by the CME Rulebook.
Reset Dates:	As the per CME Rulebook.
Floating Rate Daycount Fraction:	As per the CME Rulebook.
FRA Discounting:	As per CME Rulebook, which may require different discounting conventions depending on payment convention.
Fixed Rate Payer:	As determined by the parties.
Floating Rate Payer:	As determined by the parties.
Payer for Additional Payment/Fees:	As determined by the parties, subject to limitations in the CME Rulebook.
Additional Payment/Fees:	As determined by the parties, subject to limitations in the CME Rulebook.
Payment Date for Additional Payment/Fees:	As determined by the parties, subject to limitations in the CME Rulebook.

## Forward Rate Agreements – LCH Cleared

Summary:	This covers forward rate agreements ("FRAs") cleared by LCH.Clearnet ("LCH").
Limitations on Available Selections and Default Settings:	The terms under which a Forward Rate Agreement/LCH Cleared may be traded are as specified
	in these terms and conditions, which incorporate the LCH Rulebook, in particular Schedule 4A (or any
	successor provisions).
	By electing to trade a Forward Rate
	Agreement/LCH Cleared, participants are
	representing that they are familiar with the LCH Rulebook and the limitations on transaction terms
	contained in it.
Incorporated Standards:	This contract description incorporates by reference the
•	LCH Rulebook as in effect from time to time.
	The LCH Rulebook itself may incorporate certain
	additional standards, such as the 2000 ISDA Definitions
	and 2006 ISDA Definitions.  Be aware that the timing of effectiveness of
	amendments or supplements to the ISDA standards
	may vary between bilateral and LCH contracts,
	since the LCH may reserve the right to select when
D. L. (E. GOD.), OMG E.	and how such changes become effective.
Product Type/ISDA OTC Taxonomy: ISDA OTC Asset Class:	Interest Rate
ISDA OTC Asset Class: ISDA OTC Base Product:	FRA
ISDA OTC Base Floduct:  ISDA OTC Sub-Product:	N/A
Further Limitations:	Must comply with LCH Clearing Requirements.
Terms:	
Definition Set:	The definition set (e.g., ISDA 2000/ISDA2006) elected
	by, or otherwise binding on, the parties in accordance with the LCH Rulebook.
Notional Amount:	An amount in Currency determined by the parties
	subject to limitations in the LCH Rulebook.
	This may vary from period to period to the extent permitted by the LCH Rulebook.
	The LCH Rulebook may limit the Currencies and
	Floating Rate Options for which variable notionals are
	permitted.
Currency:	One of the currencies permitted for the relevant
m 1.5	transaction type per the LCH Rulebook.
Trade Date:	As per the LCH Rulebook.
Effective Date: Termination Date:	As per the LCH Rulebook.  As agreed by the parties, subject to any minimum or
Termination Date.	maximum tenor in the LCH Rulebook.
Payer for Additional Payment/Fees:	As determined by the parties, subject to the limitation in
	the LCH Rulebook.
Additional Payment/Fees:	As determined by the parties, subject to the limitation in
	the LCH Rulebook.
Payment Date for Additional Payment/Fees	As determined by the parties, subject to limitations in
	the LCH Rulebook, which may limit the earliest or

	latest day on which such fees may be paid based on
	Currency or other factors.
Business Days:	As per the LCH Rulebook, which may require certain
•	Business Days be applicable on a per Currency or
	Floating Rate Option Basis and may otherwise limit the
	available Business Day locations which can be elected.
Business Day Convention:	As per the LCH Rulebook.
Fixed Rate Payer:	As determined by the parties.
Fixed Rate Payer Payment Dates:	As per the LCH Rulebook.
Fixed Amount:	As per the LCH Rulebook, which may permit use of a
	schedule.
Fixed Rate:	As agreed by the parties, subject to any minimum or
	maximum rate and per-period variability permitted in
	the LCH Rulebook.
Floating Rate Payer:	As determined by the parties.
Floating Rate Payer Payment Dates:	As per the LCH Rulebook.
Floating Amount:	As per the LCH Rulebook.
Floating Rate Option:	As determined by the parties, subject to the LCH
	Rulebook, which may provide a more limited list of
	available options for a Currency than does the
	Definition Set.
Designated Maturity:	As per the LCH Rulebook, which may provide a more
	limited set of Designated Maturities than does the
	related rate source page.
Spread:	Subject to any minimum or maximum rate and per-
	period variability permitted by the LCH Rulebook.
Reset Dates:	As the per LCH Rulebook.
Floating Rate Daycount Fraction:	As per the LCH Rulebook.
FRA Discounting:	As per the LCH Rulebook.
Discount Rate	As per the LCH Rulebook.
FRA Yield Discounting:	As per the LCH Rulebook.
Negative Interest Rates:	As per the LCH Rulebook, which may require use of a
	single method.
Withholding and Tax:	As per the LCH Rulebook.
Governing Law:	As per the LCH Rulebook, which may dictate the law
	applicable to the Transaction.

### iBoxx Index Swaps

Summary:	This covers iBoxx index swaps (each, an "iBoxx Index Swap") on a bilateral basis.
Limitations on Available Selections and Default Settings:	The terms under which an iBoxx Index Swap may be traded are shown below and in the attached tables.
	For amounts or rates, the relevant term cannot be less than the specified Minimum, must represent an even Increment and cannot exceed the Maximum; for a date, the date cannot be earlier than Earliest nor later than Latest.
	For Business Days, the defaults shall be the locations specified for the relevant currency and any additional locations specified for the relevant Floating Rate Options.
	The parties may add additional locations from the Available Locations and may eliminate some or all of the other locations, so long as there is at least one location in which payment may be made.
	For these purposes "TARGET" is considered a location.
	In many cases there are normal "vanilla" terms on which the parties will transact. These are shown as "Default" and will apply unless the parties vary them.
	It should be noted that these contracts can be traded in a variety of currencies. Since each national market has its own peculiarities, the "Available Terms" and/or "Default Terms" may vary by currency.
	In some cases, the same contract might have different terms depending on the market in which it is traded ( <i>e.g.</i> , London versus NY). In that case the default settings may vary by market.
Incorporated Standards:	This contract description incorporates by reference the following industry standard documentation and standards:  (a) 2006 ISDA Definitions (b) the iBoxx Index Transaction Standard Terms Supplement (current version or as specified by the parties) ("iBoxx STS")
	For convenience, certain terms are mapped to their FpML 5.5 equivalent.
Product Type/ISDA OTC Taxonomy:	1 prins 5.5 equivalent.
ISDA OTC Asset Class:	Credit
ISDA OTC Passet Class:  ISDA OTC Base Product:	Total Return Swap Index
ISDA OTC Sub-Product:	iBoxx
ISDA OTC Transaction type:	N/A

Further Limitations:	None
Terms:	
Trade Date:	As agreed by the parties.
Effective Date ("effectiveDate"):	The Business Day following the Trade Date, unless
	otherwise agreed by the parties.
Effective Date Business Days:	The Business Days specified below, unless otherwise
·	specified by the parties.
Effective Date Business Day Convention:	The Business Day Convention specified below, unless
-	otherwise specified by the parties.
Termination Date ("terminationDate"):	As specified in the iBoxx STS, unless otherwise agreed
	by the parties.
Notional Amount ("notional"):	An amount specified by the parties, which will be in the
	relevant Settlement Currency (unless otherwise agreed
	by the parties).
Index	As specified by the parties from among the Available
	Indices.
Index Buyer:	As agreed by the parties.
Index Seller:	As agreed by the parties.
Calculation Agent:	As specified in the iBoxx STS, unless otherwise agreed
	by the parties.
Settlement Currency:	The currency in which the Index is denominated.
Business Days:	As specified in the iBoxx STS for the relevant
	Settlement Currency, unless otherwise agreed by the
	parties.
Floating Amount:	I I D
Floating Rate Payer ("payerPartyReference"):	Index Buyer
Floating Rate Payer Period End Dates:	As specified in the iBoxx STS, unless otherwise agreed
Floring Box Box Box Box Box	by the parties
Floating Rate Payer Payment Dates:	As specified in the iBoxx STS, unless otherwise agreed
Linear Interpolation:	by the parties  As specified in the iBoxx STS, unless otherwise agreed
Linear interpolation.	by the parties
Shorter Designated Maturity for Linear Interpolation:	For a Calculation Period to which Linear Interpolation
Shorter Designated Waturity for Emeal Interpolation.	applies, per the Definitions unless otherwise agreed by
	the parties.
Longer Designated Maturity for Linear Interpolation	For a Calculation Period to which Linear Interpolation
zergimies interior	applies per the Definitions unless otherwise agreed by
	the parties.
Floating Rate Option:	As specified by the parties.
Floating Rate for the initial Calculation Period	As specified by the parties.
Spread:	As specified by the parties.
Designated Maturity ("indexTenor")	As specified in the iBoxx STS, unless otherwise agreed
	by the parties.
Floating Rate Day Count Fraction:	As specified in the iBoxx STS, unless otherwise agreed
	by the parties.
Reset Dates ("resetDate"):	As specified in the iBoxx STS, unless otherwise agreed
	by the parties.
Payment Dates Business Days:	The Business Days specified above, unless otherwise
	agreed by the parties.
Business Days (Other Than Payment Dates):	The Business Days specified above, unless otherwise
	agreed by the parties.
Business Day Convention (Other Than Payment Dates):	The Business Day Convention specified above, unless
	otherwise specified by the parties.

Index Return Amount:	
Index Return Amount Payment Date:	As specified in the iBoxx STS, unless otherwise agreed
	by the parties.
Initial Fixing Amount:	As agreed by the parties and rounded as specified in the
	iBoxx STS (unless the parties otherwise agree).
Final Fixing Amount:	As specified in the iBoxx STS, unless otherwise agreed
	by the parties.
Scheduled Final Fixing Date:	As specified by the parties, subject to the Business Day
	Convention (unless the parties otherwise agree).
Final Fixing Date:	As specified in the iBoxx STS, unless otherwise agreed
	by the parties.
Index Adjustment and Index Discontinuance Events:	As specified in the iBoxx STS, unless otherwise agreed
	by the parties.

## iBoxx Index Available Currencies and Business Days

Three Letter Currency Code (ISDA/ISO)	Currency Name (ISDA)	Basic Business Day Locations For Currency (FpML Codes)
EUR	Euro	EUTA and GBLO
GBP	Sterling	EUTA and GBLO
USD	United States Dollars	USNY

## iBoxx Index Available Business Day Conventions

ISDA Name
Following
Modified/Modified Following
No Adjustment
Preceding
FRN Convention/Eurodollar Convention

#### iBoxx Index Available Indices

Name	Currency
iBoxx EUR Corporates	EUR
iBoxx EUR Liquid High Yield Index	EUR
iBoxx GBP Corporates	GBP
iBoxx USD Domestic Corporates	USD
iBoxx USD Liquid High Yield Index	USD
iBoxx USD Liquid Investment Grade Index	USD
iBoxx USD Liquid Leveraged Loans Index	USD

## iBoxx Index Available Day Count Fractions

ISDA Name	
1/1	
30/360, 360/360, Bond Basis	
Actual/360	
Actual/365 (Fixed), Act/365 (Fixed), A/365 (Fixed), A/365F	
Actual/Actual, Actual/Actual (ISDA), Act/Act, Act/Act (ISDA)	
Actual/Actual (ICMA), Act/Act, Act/Act (ICMA)	

## iBoxx Index Floating Rate Options and Defaults

Floating Rate Option	Available Tenors	Default Tenor	Default Day Count Fraction	Additional Business Day Locations
USD-Annual Swap Rate-11:00- BGCANTOR	All quoted tenors	N/A	Per ISDA 2006	N
USD-BA-H.15	All quoted tenors	N/A	Per ISDA 2006	N
USD-BA-Reference Dealers	All quoted tenors	N/A	Per ISDA 2006	N
USD-BMA Municipal Swap Index	All quoted tenors	N/A	Per ISDA 2006	N
USD-CD-H.15	All quoted tenors	N/A	Per ISDA 2006	N
USD-CD-Reference Dealers	All quoted tenors	N/A	Per ISDA 2006	N
USD-CMS-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
USD-CMS-Reference Banks-ICAP SwapPX	All quoted tenors	N/A	Per ISDA 2006	N
USD-CMS-Reuters	All quoted tenors	N/A	Per ISDA 2006	N
USD-CMS-Telerate	All quoted tenors	N/A	Per ISDA 2006	N
USD-CMT-T7051	All quoted tenors	N/A	Per ISDA 2006	N
USD-CMT-T7052	All quoted tenors	N/A	Per ISDA 2006	N
USD-COF11-FHLBSF	All quoted tenors	N/A	Per ISDA 2006	N
USD-COF11-Reuters	All quoted tenors	N/A	Per ISDA 2006	N
USD-COF11-Telerate	All quoted tenors	N/A	Per ISDA 2006	N
USD-CP-H.15	All quoted tenors	N/A	Per ISDA 2006	N
USD-CP-Reference Dealers	All quoted tenors	N/A	Per ISDA 2006	N
USD-Federal Funds- H.15	All quoted tenors	N/A	Per ISDA 2006	N
USD-Federal Funds- H.15-Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
USD-Federal Funds- H.15-OIS- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
USD-Federal Funds- Reference Dealers	All quoted tenors	N/A	Per ISDA 2006	N
USD-FFCB-DISCO	All quoted tenors	N/A	Per ISDA 2006	N
USD-ISDA-Swap Rate	All quoted tenors	N/A	Per ISDA 2006	N
USD-ISDA-Swap Rate-3:00	All quoted tenors	N/A	Per ISDA 2006	N
USD-ISDAFIX3-Swap Rate	All quoted tenors	N/A	Per ISDA 2006	N
USD-ISDAFIX3-Swap Rate-3:00	All quoted tenors	N/A	Per ISDA 2006	N
USD-LIBOR-BBA	All quoted tenors	N/A	Per ISDA 2006	N

All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
	All quoted tenors	All quoted tenors N/A  All quoted tenors N/A	All quoted tenors N/A Per ISDA 2006

EUR USD-Basis Swaps-11:00-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-10:00	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-10:00-Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-10:00-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-10:00- SwapMarker	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-11:00	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-11:00-Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-11:00-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-11:00- SwapMarker	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-3 Month	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-3 Month- SwapMarker	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EONIA- AVERAGE	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EONIA-OIS- 10:00-BGCANTOR	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EONIA-OIS- 10:00-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EONIA-OIS- 11:00-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EONIA-OIS- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EONIA-OIS- COMPOUND- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EONIA-Swap- Index	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EURIBOR- Act/365	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EURIBOR- Act/365-Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EURIBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·		

EUR-EURIBOR- Reuters	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EURIBOR- Telerate	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EURONIA-OIS- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
EUR-ISDA-EURIBOR Swap Rate-11:00	All quoted tenors	N/A	Per ISDA 2006	N
EUR-ISDA-EURIBOR Swap Rate-12:00	All quoted tenors	N/A	Per ISDA 2006	N
EUR-ISDA-LIBOR Swap Rate-10:00	All quoted tenors	N/A	Per ISDA 2006	N
EUR-ISDA-LIBOR Swap Rate-11:00	All quoted tenors	N/A	Per ISDA 2006	N
EUR-LIBOR-BBA	All quoted tenors	N/A	Per ISDA 2006	N
EUR-LIBOR-BBA- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
EUR-LIBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
EUR-TAM-CDC	All quoted tenors	N/A	Per ISDA 2006	N
EUR-TEC10-CNO	All quoted tenors	N/A	Per ISDA 2006	N
EUR-TEC10-CNO- SwapMarker	All quoted tenors	N/A	Per ISDA 2006	N
EUR-TEC10- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
EUR-TEC5-CNO	All quoted tenors	N/A	Per ISDA 2006	N
EUR-TEC5-CNO- SwapMarker	All quoted tenors	N/A	Per ISDA 2006	N
EUR-TEC5-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
EUR-TMM-CDC- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
GBP USD-Basis Swaps-11:00-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
GBP-ISDA-Swap Rate	All quoted tenors	N/A	Per ISDA 2006	N
GBP-LIBOR-BBA	All quoted tenors	N/A	Per ISDA 2006	N
GBP-LIBOR-BBA- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
GBP-LIBOR-ISDA	All quoted tenors	N/A	Per ISDA 2006	N
GBP-LIBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
GBP-Semi-Annual Swap Rate	All quoted tenors	N/A	Per ISDA 2006	N
GBP-Semi-Annual Swap Rate-11:00-ICAP	All quoted tenors	N/A	Per ISDA 2006	N

# iBoxx Index Swaps

GBP-Semi-Annual Swap Rate-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
GBP-SONIA-OIS- 11:00-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
GBP-WMBA-RONIA- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
GBP-WMBA-SONIA- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N

# **Inflation Swaps**

Summary:	This covers inflation swaps ("Inflation Swaps").
Limitations on Available Selections and Default	The terms under which an Inflation Swap may be traded
Settings:	are as specified in these terms and conditions or in the
	attached tables.
	En amount on other the relevant terms connect by less
	For amounts or rates, the relevant term cannot be less
	than the specified Minimum, must represent an even Increment and cannot exceed the Maximum; for a date,
	the date cannot be earlier than Earliest nor later than
	Latest.
	For Business Days, the defaults shall be the locations
	specified for the relevant currency, any additional
	locations specified for the relevant Floating Rate
	Options.
	The parties may add additional locations from the
	Available Locations and may eliminate some or all of
	the other locations, so long as there is at least one
	location in which payment may be made. For these
	purposes "TARGET" is considered a location.
	In many cases there are normal "vanilla" terms on which
	the parties will transact. These are shown as "Default"
	and will apply unless the parties vary them.  It should be noted that these contracts can be traded in a
	variety of currencies. Since each national market has its
	own peculiarities, the "Available Terms" and/or "Default
	Terms" may vary by currency.
	In some cases, the same contract might have different
	terms depending on the market in which it is traded (e.g.,
	London versus NY). In that case the default settings may
	vary by market.
<b>Incorporated Standards:</b>	This contract description incorporates by reference the
	following industry standard documentation and
	standards:
	<ul><li>(a) 2006 ISDA Definitions</li><li>(b) 2008 ISDA Inflation Derivatives Definitions,</li></ul>
	including Supplements 1 and 2 thereto and any other
	Supplements through Trade Date
	(c) ISDA OTC Taxonomies
	(d) FpML Location Codes
	For convenience contain towns are recorded to their
	For convenience, certain terms are mapped to their FpML 5.5 equivalent.
Product Type/ISDA OTC Taxonomy:	2 p. 22 dio oquitatoni
ISDA OTC Asset Class:	Interest Rate
ISDA OTC Base Product:	IR Swap
ISDA OTC Sub-Product:	Inflation
Further Limitations:	None
Terms:	
Notional Amount ("notional"):	An amount in one of the Available Currencies (see
D00 1 D 1 (( 00 1 D 1)	below) agreed by the parties.
Effective Date ("effectiveDate"):	The date specified by the parties, adjusted in accordance

	with any amiliashla Dusinasa Day Convention
	with any applicable Business Day Convention.
	The parties may express the unadjusted Effective Date as
	a number of Business Days or Banking Days from the Trade Date ("relativeEffectiveDate").
Effective Date Business Days:	As specified by the parties from among the Available Business Days.
Effective Date Business Day Convention:	As specified by the parties from among the Available Business Day Conventions.
Termination Date ("terminationDate"):	The date specified by the parties, adjusted in accordance with any applicable Business Day Convention.  The parties may express the unadjusted Termination Date as a number of days, months or years from the Effective Date ("relativeTerminationDate").
Termination Date Business Day Convention:	As specified by the parties from among the Available Business Day Conventions.
Fixed Amount:	
Fixed Rate Payer ("payerPartyReference"):	As specified by the parties.
Fixed Amount:	As specified by the parties (in lieu of all items other than Payment Date(s)).
Fixed Rate Payment Date ("unadjustedPaymentDate"):	As specified by the parties.
Payment Dates Business Days:	As specified by the parties from among the Available Business Days, subject to any Required Business Days.
Payment Dates Business Day Convention:	As specified by the parties from among the Available Business Day Conventions.
Floating Amount:	
Floating Rate Payer ("payerPartyReference"):	As specified by the parties.
Currency Amount ("notional Amount"):	As specified by the parties.
Period End Dates ("unadjustedCalculation Period Date"):	As specified by the parties.
first Period End Date:	As specified by the parties if there is a short initial Calculation Period.
Payment Dates ("unadjustedPaymentDate"):	As specified by the parties.
initial Floating Rate:	As specified by the parties.
Floating Rate ("floatingRate"):	Notwithstanding the 2006 Definitions, "Floating Rate" will equal:
	$\frac{Index_Final}{Index_Initial} - 1$
	rounded in accordance with the 2008 ISDA Inflation Derivatives Definitions and subject to the Negative Interest Rate Treatment.
Index:	As specified by the parties from among the Available Inflation Indices.
Index Initial ("initialIndexLevel"):	As specified by the parties.
Index_Final:	The Index level for the Reference Month(s) specified by the parties in the Reference Year(s) specified by the parties.
Reference Month(s):	As specified by the parties.
Reference Year(s)	As specified by the parties.
Day Count Fraction:	1/1
Reset Dates ("resetDate"):	As specified by the parties.
Method of Averaging:	As specified by the parties.
Payment Dates Business Days:	As specified by the parties from among the Available Business Days, subject to any Required Business Days.

Payment Dates Business Day Convention:	As specified by the parties from among the Available	
	Business Day Conventions.	
Negative Interest Rates ("negativeInterestRateMethod"):	As selected by the parties from among the Available	
	Treatments.	
Related Bond:	The bond, if any, specified by the parties as such.	
Fallback Bond ("fallbackBondApplicable"):	As selected by the parties if no Related Bond is selected.	
Calculation Agent:	As agreed by the parties.	

#### Fixed Floating Available Currencies and Required Business Days

Three Letter Currency Code	Currency Name (ISDA)	Basic Business Day Locations
(ISDA/ISO)		For Currency (FpML Codes)
AUD	Australian Dollar	AUSY
EUR	Euro	EUTA
GBP	Sterling	GBLO
ILS	Israeli Shekel	ILTA
USD	United States Dollars	USNY

#### Fixed Floating Available Business Day Conventions

ISDA Name
Following
Modified/Modified Following
No Adjustment
Preceding
FRN Convention/Eurodollar Convention

#### Fixed Floating Available Day Count Fractions

	ISDA Name
1/1	

#### Fixed Floating Default Effective Dates

Currency	Default Effective Date
All Currencies Other than CAD, GBP	Plus Two Banking Days
CAD, GBP	Plus Zero

#### Fixed Floating Earliest and Latest Effective and Termination Dates

Currency	Earliest Effective	Latest Effective	Earliest Termination	Latest Termination
	Date	Date	Date	Date
N/A	N/A	N/A	N/A	N/A

#### Fixed Floating Notional Amounts

Currency	Minimum	Increment	Maximum	Default
EUR	5,000,000	100,000	N/A	N/A
GBP	5,000,000	100,000	N/A	N/A
USD	10,000,000	1,000,000	N/A	N/A

#### Inflation Swap Indices

Index Name	Description	
AUD-CPI	Australia: AUD – Non-revised Consumer Price Index (CPI)	
AUS-CPI	Austria: AUS – Non-revised Consumer Price Index (CPI)	
AUS-HICP	Austria: AUS – Non-revised Harmonised Indices of Consumer Prices (HICP)	
BLG-CPI-GI	Belgium: BLG – Non-revised Consumer Price Index - General Index (CPI)	
BLG-CPI-HI	Belgium: BLG – Non-revised Consumer Price Index - Health Index (CPI)	
BLG-HICP	Belgium: BLG – Non-revised Harmonised Consumer Price Index (HICP)	
DEM-CPI	Germany: DEM – Non-revised Consumer Price Index (CPI)	
DEM-CPI-NRW	Germany: DEM – Non-revised Consumer Price Index for North Rhine-Westphalia	
DEM-HICP	Germany: DEM – Non-revised Harmonised Consumer Price Index (HICP)	
ESP-CPI	Spain: ESP – National-Non-revised Consumer Price Index (CPI)	
ESP-HICP	Spain: ESP – Harmonised-Non-revised Consumer Price Index (HICP)	
ESP-R-CPI	Spain: ESP – National-Revised Consumer Price Index (CPI).	
ESP-R-HICP	Spain: ESP – Harmonised-Revised Consumer Price Index (HICP)	
EUR-AI-CPI	European Union: EUR – All Items-Non-revised Consumer Price Index	
EUR-AI-R-CPI	European Union: EUR – All Items–Revised Consumer Price Index	
EUR-EXT-CPI	European Union: EUR – Excluding Tobacco-Non-revised Consumer Price Index	
EUR-EXT-R- CPI	European Union: EUR – Excluding Tobacco–Revised Consumer Price Index	
FRC-EXT-CPI	France: FRC – Excluding Tobacco-Non-Revised Consumer Price Index	
FRC-HICP	France: FRC – Harmonised-Non-revised Consumer Price Index (HICP)	
GRD-CPI	Greece: GRD – Non-revised Consumer Price Index (CPI)	
GRD-HICP	Greece: GRD – Harmonised-Non-revised Consumer Price Index (HICP)	
ILS-CPI	Israel: ILS – Non-revised Consumer Price Index (CPI)	
IRL-CPI	Ireland: IRL – Non-revised Consumer Price Index (CPI)	
IRL-HICP	Ireland: IRL – Harmonised-Non-revised Consumer Price Index (HICP)	

ITL-BC-EXT- CPI	Italy: ITL – Inflation for Blue Collar Workers and Employees–Excluding Tobacco Consumer Price Index	
ITL-BC-INT- CPI	Italy: ITL – Inflation for Blue Collar Workers and Employees-Including Tobacco Consumer Price Index	
ITL-HICP	Italy: ITL – Non-revised Harmonised Consumer Price Index (HICP)	
ITL-WC-EXT- CPI	Italy: ITL – Whole Community –Excluding Tobacco Consumer Price Index	
ITL-WC-INT- CPI	Italy: ITL – Whole Community –Including Tobacco Consumer Price Index	
LUX-CPI	Luxembourg: LUX – Non-revised Consumer Price Index (CPI)	
LUX-HICP	Luxembourg: LUX – Harmonised-Non-revised Consumer Price Index (HICP)	
NLG-CPI	Netherlands: NLG – Non-revised Consumer Price Index (CPI)	
NLG-HICP	Netherlands: NLG – Harmonised-Non-revised Consumer Price Index (HICP)	
POR-CPI	Portugal: POR – Non-revised Consumer Price Index (CPI)	
POR-HICP	Portugal: POR – Harmonised-Non-revised Consumer Price Index (HICP)	
UK-HICP	United Kingdom: GBP – Harmonised-Non-revised Consumer Price Index (HICP)	
UK-RPI	United Kingdom: GBP – Non-revised Retail Price Index (UKRPI)	
UK-RPIX	United Kingdom: GBP – Non-revised Retail Price Index Excluding Mortgage Interest Payments (UKRPIX)	
USA-CPI-U	United States: USA – Non-revised Consumer Price Index – Urban (CPI-U)	

# Fixed Floating Requirements and Defaults (Excluding Optional Early Termination and Mandatory Early Termination)

Variable	Requirement	Default
Fallback Bond:		Applicable

# **Interest Rate Caps/Floors**

Summary:	This covers interest rate caps and floors ("Interest Rate	
71 1/4	Caps/Floors").	
Limitations on Available Selections and Default Settings:	The terms under which an Interest Rate Cap/Floor may be traded are as specified in these terms and conditions	
	and in the attached tables.	
	For amounts or rates, the relevant term cannot be less	
	than the specified Minimum, must represent an even	
	Increment and cannot exceed the Maximum; for a date,	
	the date cannot be earlier than Earliest nor later than	
	Latest.	
	For Business Days, the defaults shall be the locations	
	specified for the relevant currency, any additional	
	locations specified for the relevant Floating Rate Options.	
	The parties may add additional locations from the	
	Available Locations and may eliminate some or all of	
	the other locations, so long as there is at least one	
	location in which payment may be made. For these	
	purposes "TARGET" is considered a location.	
	In many cases there are normal "vanilla" terms on which	
	the parties will transact. These are shown as "Default"	
	and will apply unless the parties vary them.	
	It should be noted that these contracts can be traded in a	
	variety of currencies. Since each national market has its	
	own peculiarities, the "Available Terms" and/or "Default	
	Terms" may vary by currency.  In some cases, the same contract might have different	
	terms depending on the market in which it is traded ( $e.g.$ ,	
	London versus NY). In that case the default settings may	
	vary by market.	
Incorporated Standards:	This contract description incorporates by reference the	
•	following industry standard documentation and	
	standards:	
	(a) 2006 ISDA Definitions	
	(b) ISDA Settlement Matrix (if Optional Early	
	Termination applies)	
	(c) ISDA OTC Taxonomies (d) FpML Location Codes	
	For convenience, certain terms are mapped to their	
	FpML 5.5 equivalent.	
Product Type/ISDA OTC Taxonomy:	T prinz ete equitatenti	
ISDA OTC Asset Class:	Interest Rate	
ISDA OTC Base Product:	IR Swap	
ISDA OTC Sub-Product:	Cap/Floor	
Further Limitations:	None	
Terms:		
Notional Amount ("notional"):	An amount in one of the Available Currencies (see	
ECC .' D . (" CC .' D . ")	below) agreed by the parties.	
Effective Date ("effectiveDate"):	The date specified by the parties, adjusted in accordance	
	with any applicable Business Day Convention.	
	The parties may express the unadjusted Effective Date as	

	a number of Business Days or Banking Days from the
	Trade Date ("relativeEffectiveDate").
Effective Date Business Days:	As specified by the parties from among the Available Business Days.
Effective Date Business Day Convention:	As specified by the parties from among the Available Business Day Conventions.
Termination Date ("terminationDate"):	The date specified by the parties, adjusted in accordance
	with any applicable Business Day Convention.
	The parties may express the unadjusted Termination
	Date as a number of days, months or years from the
	Effective Date ("relativeTerminationDate").
Termination Date Business Day Convention:	As specified by the parties from among the Available Business Day Conventions.
Fixed Amount 1:	
Fixed Rate Payer ("payerPartyReference"):	As specified by the parties.
Currency Amount ("notional Amount"):	As specified by the parties.
Fixed Rate Period End Dates ("unadjustedCalculation	As specified by the parties.
Period Date"):	is specified by the parties.
first Period End Date:	As specified by the parties if there is a short initial
	Calculation Period.
Fixed Rate Payment Dates ("unadjustedPaymentDate"):	As specified by the parties.
Day Count Fraction:	As specified by the parties.
Reset Dates ("resetDate"):	As specified by the parties.
Period End Dates Business Days:	As specified by the parties from among the Available Business Days.
Period End Dates Business Day Convention:	As specified by the parties from among the Available Business Day Conventions.
Payment Dates Business Days:	As specified by the parties from among the Available Business Days, subject to any Required Business Days.
Payment Dates Business Day Convention:	As specified by the parties from among the Available Business Day Conventions.
Floating Amount:	
Floating Rate Payer ("payerPartyReference"):	As specified by the parties.
Currency Amount ("notional Amount"):	As specified by the parties.
Period End Dates ("unadjustedCalculation Period	As specified by the parties.
Date"):	is specified by the parties.
first Period End Date:	As specified by the parties if there is a short initial
Institution End Bate.	Calculation Period.
Payment Dates ("unadjustedPaymentDate"):	As specified by the parties.
Cap Rate:	As specified by the parties.
Floor Rate:	As specified by the parties.
initial Floating Rate:	As specified by the parties.
Floating Rate Option ("floatingRateIndex"):	As specified by the parties.
Designated Maturity ('indexTenor'')	As specified by the parties.
Linear Interpolation:	For the Calculation Periods specified by the parties.
Shorter Designated Maturity for Linear Interpolation:	For a Calculation Period to which Linear Interpolation
,	applies, as specified by the parties.
Longer Designated Maturity for Linear Interpolation:	For a Calculation Period to which Linear Interpolation
	applies, as specified by the parties.
Spread:	As specified by the parties.
Day Count Fraction:	As specified by the parties.
Reset Dates ("resetDate"):	As specified by the parties.
Method of Averaging:	As specified by the parties.
Compounding:	As specified by the parties.

Compounding Dates:	In the event Compounding is selected, as selected by the
	parties.
Compounding Method (Compounding OR Flat	In the event Compounding is selected, as selected by the
Compounding):	parties.
Period End Dates Business Days:	As specified by the parties from among the Available Business Days.
Period End Dates Business Day Convention:	As specified by the parties from among the Available Business Day Conventions.
Payment Dates Business Days:	As specified by the parties from among the Available Business Days, subject to any Required Business Days.
Payment Dates Business Day Convention:	As specified by the parties from among the Available Business Day Conventions.
Reset Dates Business Days:	As specified by the parties from among the Available Business Days, subject to any Required Business Days.
Reset Dates Business Day Convention:	As specified by the parties from among the Available Business Day Conventions.
Initial Exchange:	
Initial Exchange Date:	As specified by the parties.
Fixed Rate Payer Initial Exchange Amount:	As specified by the parties.
Floating Payer Initial Exchange Amount:	As specified by the parties.
Interim Exchanges:	
Interim Exchange Dates:	As specified by the parties.
Fixed Rate Payer Interim Exchange Amount:	As specified by the parties.
Fixed Rate Payer Interim Exchange Amount:	As specified by the parties.
Final Exchanges:	
Final Exchange Date:	As specified by the parties.
Fixed Rate Payer Final Exchange Amount:	As specified by the parties.
Fixed Payer Final Exchange Amount:	As specified by the parties.
Optional Early Termination:	
Optional Early Termination:	As specified by the parties.
Option Style:	As specified by the parties.
Optional Early Termination Date:	As specified by the parties.
Seller:	As specified by the parties if only one party can terminate.
Buyer:	As specified by the parties, if only one party can terminate.
Seller's Agent:	As specified by the parties, if only one party can terminate.
Business Days for Payments:	As specified by the parties from among the Available Business Days, subject to any Required Business Days.
Exercise Business Days:	As specified by the parties.
Optional Early Termination Procedure for Exercise:	
Commencement Date:	As specified by the parties, if the Option Style is American.
Bermuda Option Exercise Dates:	As specified by the parties, if the Option Style is Bermuda.
Expiration Date:	As specified by the parties.
Expiration Time:	As specified by the parties.
Earliest Exercise Time:	As specified by the parties.
Latest Exercise Time:	As specified by the parties.
Exercise Business Day:	As specified by the parties.
Partial Exercise:	As specified by the parties, if Option Style is European.
Multiple Exercise:	As specified by the parties, if Option Style is American or Bermuda.

Minimum Notional Amount:	As specified by the parties if Partial Exercise or Multiple
	Exercise is specified.
Maximum Notional Amount:	As specified by the parties if Multiple Exercise is
	specified.
Integral Multiple:	As specified by the parties if Partial Exercise or Multiple
	Exercise is specified.
<b>Optional Early Termination Settlement Terms:</b>	
Cash Settlement:	As specified by the parties.
ISDA Settlement Matrix:	As specified by the parties, if Cash Settlement is
	applicable.
Cash Settlement Valuation Time:	If Cash Settlement is applicable, as specified by the
	parties, directly or via the ISDA Settlement Matrix.
Cash Settlement Valuation Date:	If Cash Settlement is applicable, as specified by the
	parties, directly or via the ISDA Settlement Matrix.
Valuation Business Days:	If Cash Settlement is applicable, as specified by the
	parties, directly or via the ISDA Settlement Matrix.
Cash Settlement Payment Date:	If Cash Settlement is applicable, as specified by the
	parties, directly or via the ISDA Settlement Matrix.
Cash Settlement Payment Date Business Days	If Cash Settlement is applicable, as specified by the
Convention:	parties, directly or via the ISDA Settlement Matrix.
Cash Settlement Method:	If Cash Settlement is applicable, as specified by the
	parties from Available Cash Settlement Methods,
	directly or via the ISDA Settlement Matrix.
Cash Settlement Currency:	If Cash Settlement is applicable, and "Cash Price" or
	"Cash Price—Alternate" apply, as specified by the
	parties from Available Cash Settlement Methods,
	directly or via the ISDA Settlement Matrix.
Settlement Rate:	If Cash Settlement is applicable, and "Par Yield Curve—
	Adjusted," "Par Yield Curve—Unadjusted" or "Zero
	Coupon Curve—Adjusted" apply, as specified by the
	parties from Available Cash Settlement Methods,
	directly or via the ISDA Settlement Matrix parties from
	Available Cash Settlement Methods, directly or via the
	ISDA Settlement Matrix.
Cash Settlement Reference Banks:	As specified by the parties.
Quotation Rate:	If Cash Settlement is applicable, as specified by the
	parties from among the Available Quotation Rates.
Calculation Agent:	As agreed by the parties.

# Cap/Floor Available Currencies and Required Business Days

Three Letter Currency Code (ISDA/ISO)	Currency Name (ISDA)	Basic Business Day Locations For Currency (FpML Codes)
EUR	Euro	EUTA
GBP	Pound Sterling	GBLO
JPY	Japanese Yen	JPTO
MXN	Mexican Peso (New)	MXMC
SEK	Swedish Krona	SEST
USD	United States Dollars	USNY
ZAR	South African Rand	ZAJO

#### Cap/Floor Available Business Day Conventions

	ISDA Name
Following	
Modified/Modified Following	
No Adjustment	
Preceding	
FRN Convention/Eurodollar Convention	

#### Cap/Floor Available Day Count Fractions

ISDA Name
1/1
30/360, 360/360, Bond Basis
Actual/360
Actual/365 (Fixed), Act/365 (Fixed), A/365 (Fixed), A/365F
Actual/Actual, Actual/Actual (ISDA), Act/Act, Act/Act (ISDA)
Actual/Actual (ICMA), Act/Act, Act/Act (ICMA)

#### Cap/Floor Default Effective Dates

Currency	Default Effective Date
All Currencies Other than CAD, GBP, MXN	Plus Two Banking Days
MXN	Plus One Banking Day
CAD, GBP	Plus Zero

## Cap/Floor Earliest and Latest Effective and Termination Dates

Currency	Earliest Effective	Latest Effective	Earliest Termination	Latest Termination
	Date	Date	Date	Date
N/A	N/A	N/A	N/A	N/A

#### Cap/Floor Notional Amounts

Currency	Minimum	Increment	Maximum	Default
EUR	5,000,000	100,000	N/A	N/A
GBP	25,000,000	100,000	N/A	N/A
JPY	2,500,000,000	100,000,000	N/A	N/A
MXN	10,000,000	1,000,000	N/A	N/A
SEK	5,000,000	100,000	N/A	N/A
USD	25,000,000	1,000,000	N/A	N/A
ZAR	5,000,000	100,000	N/A	N/A

### Cap/Floor Floating Rate Options and Defaults

Floating Rate Option	Available Tenors	Default Tenor	Default Day Count Fraction	Additional Business Day Locations
EUR USD-Basis Swaps-11:00-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-10:00	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap	All quoted tenors	N/A	Per ISDA 2006	N

Rate-10:00-Bloomberg				
EUR-Annual Swap Rate-10:00-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-10:00- SwapMarker	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-11:00	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-11:00-Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-11:00-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-11:00- SwapMarker	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-3 Month	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-3 Month- SwapMarker	All quoted tenors	N/A	Per ISDA 2006	N
EUR-Annual Swap Rate-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EONIA- AVERAGE	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EONIA-OIS- 10:00-BGCANTOR	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EONIA-OIS- 10:00-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EONIA-OIS- 11:00-ICAP	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EONIA-OIS- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EONIA-OIS- COMPOUND- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EONIA-Swap- Index	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EURIBOR- Act/365	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EURIBOR- Act/365-Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EURIBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EURIBOR- Reuters	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EURIBOR- Telerate	All quoted tenors	N/A	Per ISDA 2006	N
EUR-EURONIA-OIS-	All quoted tenors	N/A	Per ISDA 2006	N

COMPOUND				
EUR-ISDA-EURIBOR Swap Rate-11:00	All quoted tenors	N/A	Per ISDA 2006	N
EUR-ISDA-EURIBOR Swap Rate-12:00	All quoted tenors	N/A	Per ISDA 2006	N
EUR-ISDA-LIBOR Swap Rate-10:00	All quoted tenors	N/A	Per ISDA 2006	N
EUR-ISDA-LIBOR Swap Rate-11:00	All quoted tenors	N/A	Per ISDA 2006	N
EUR-LIBOR-BBA	All quoted tenors	N/A	Per ISDA 2006	N
EUR-LIBOR-BBA- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
EUR-LIBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
EUR-TAM-CDC	All quoted tenors	N/A	Per ISDA 2006	N
EUR-TEC10-CNO	All quoted tenors	N/A	Per ISDA 2006	N
EUR-TEC10-CNO- SwapMarker	All quoted tenors	N/A	Per ISDA 2006	N
EUR-TEC10- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
EUR-TEC5-CNO	All quoted tenors	N/A	Per ISDA 2006	N
EUR-TEC5-CNO- SwapMarker	All quoted tenors	N/A	Per ISDA 2006	N
EUR-TEC5-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
EUR-TMM-CDC- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
GBP-LIBOR-BBA	All quoted tenors	N/A	Per ISDA 2006	N
GBP-WMBA-SONIA- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
JPY-LIBOR-BBA	All quoted tenors	N/A	Per ISDA 2006	N
JPY-TIBOR-17096	All quoted tenors	N/A	Per ISDA 2006	N
JPY-TIBOR-17097	All quoted tenors	N/A	Per ISDA 2006	N
MXN-TIIE-Banxico	All quoted tenors	N/A	Per ISDA 2006	N
SEK-Annual Swap Rate	All quoted tenors	N/A	Per ISDA 2006	N
SEK-Annual Swap Rate-SESWFI	All quoted tenors	N/A	Per ISDA 2006	N
SEK-SIOR-OIS- COMPOUND	All quoted tenors	N/A	Per ISDA 2006	N
SEK-STIBOR- Bloomberg	All quoted tenors	N/A	Per ISDA 2006	N
SEK-STIBOR- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
SEK-STIBOR-SIDE	All quoted tenors	N/A	Per ISDA 2006	N
USD-Annual Swap	All quoted tenors	N/A	Per ISDA 2006	N

All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
	All quoted tenors	All quoted tenors N/A  All quoted tenors N/A	All quoted tenors N/A Per ISDA 2006

All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
All quoted tenors	N/A	Per ISDA 2006	GBLO (Applies to Both Legs)
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
All quoted tenors	N/A	Per ISDA 2006	N
	All quoted tenors  All quoted tenors	All quoted tenors  All quoted tenors  N/A  All quoted tenors  N/A	All quoted tenors N/A Per ISDA 2006

ZAR-DEPOSIT- Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
ZAR-DEPOSIT- SAFEX	All quoted tenors	N/A	Per ISDA 2006	N
ZAR-JIBAR-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N
ZAR-JIBAR-SAFEX	All quoted tenors	N/A	Per ISDA 2006	N
ZAR-PRIME- AVERAGE	All quoted tenors	N/A	Per ISDA 2006	N
ZAR-PRIME- AVERAGE-Reference Banks	All quoted tenors	N/A	Per ISDA 2006	N

# Cap/Floor Requirements and Defaults (Excluding Optional Early Termination and Mandatory Early Termination)

Variable	Requirement	Default
Effective Date Business Day		No Adjustment
Convention:		-
Termination Date Business Day		No Adjustment
Convention:		
Period End Dates:		Payment Dates
Payment Date Business Day		Modified Following
Convention:		
Linear Interpolation:		Applicable only to long or short stub
		periods
Designated Maturities for Linear		Tenors quoted next shorter and
Interpolation:		longer than the actual Calculation
		Period length
Compounding:		Inapplicable
Compounding Business Day	Same as Business Day Convention	
Convention:	for Period End Dates	
Method of Averaging:	Weighted Average or Unweighted	Unweighted Average
	Average	
Compounding Method:	Compounding or Flat Compounding	Compounding
Initial Exchange Date:		Effective Date
Initial Exchange Date Business Day		Following
Convention:		
Interim Exchange Date Business		Modified Following
Day Convention:		
Final Exchange Date:		Termination Date
Final Exchange Date Business Day		Modified Following
Convention:		

# Cap/Floor Requirements and Defaults (Optional Early Termination and Mandatory Early Termination)

Setting	Requirement	Default
Optional Early Termination:		Inapplicable
Mandatory Early Termination:		Inapplicable
Option Style:	American, Bermuda, European	
Cash Settlement:	Required for Mandatory Early	Applicable (i.e., Transaction is <b>not</b>
	Termination	"torn up for no value")

Optional Early Termination Date:	Cash Settlement Payment Date
Optional Early Termination Date	Following
Business Day Convention:	
Mandatory Early Termination Date	Modified Following
Business Day Convention:	_

# Cap/Floor Requirements and Defaults (Optional Early Termination—Exercise)

Setting	Requirement	Default
Commencement Date:	American only	
Partial Exercise:		Inapplicable
Multiple Exercise:		Inapplicable
Exercise Business Day:		Banking Day for cash Settlement
		Currency (TARGET Settlement Day
		for EUR)
Latest Exercise Time:	On Expiration Date, the Expiration	Other than Expiration Date, the
	Time	Expiration Time

# Cap/Floor Requirements and Defaults (Cash Settlement)

Setting	Requirement/Choices	Default
Cash Settlement Amount:		
ISDA Settlement Matrix:		Applicable, if single currency swap with Currency included in Matrix
Cash Settlement Valuation Time:		
Cash Settlement Valuation Date:		Two Valuation Business Days before Mandatory/Optional Early Termination Date <b>but</b> same day for CAD, GBP or DKK with Floating Rate Option of "DKK-CIBOR-DKNA13" or "DKK-CIBOR-DKNA13" bloomberg"
Valuation Business Day:		Banking Days in locations per the Business Day Location Table, plus additional days required by for fixings under the Floating Rate Option(s)
Cash Settlement Payment Date Business Day Convention:		Following
Cash Settlement Method:	Cash Price Cash Price—Alternate Method Par Yield Curve—Adjusted Par Yield Curve—Unadjusted Zero Coupon Yield—Adjusted	
Cash Settlement Currency:		For single currency, same as Notional Amount, otherwise as specified in ISDA Master Agreement, or otherwise same as Notional Amount for Fixed Amount
Settlement Rate:	ISDA Source/Other Price Source/Reference Banks	

# Interest Rate Caps/Floors

Cash Settlement Reference Banks:		Fallbacks per ISDA 2006 Definitions
Quotation Rate:	bid	
	ask	
	mid	
	Exercising Party Pays (Optional	
	Early Termination Only)	

# <u>Interest Rate Swaps – ASX Cleared</u>

a	TT1: 11 A GN/ C1
Summary:	This covers interest rate swaps cleared by ASX Clear
	(Futures) Pty Limited ("ASX") (such swaps, "Interest
	Rate Swaps – ASX Cleared").
Limitations on Available Selections and Default	The terms under which an Interest Rate Swap – ASX
Settings:	Cleared may be traded are as specified in these terms
	and conditions, which incorporate the ASX OTC
	Rulebook and the ASX OTC Handbook (collectively,
	the "ASX Rules"), in particular Schedule 1 to the ASX
	OTC Handbook (and any successor provisions).
	By electing to trade a Single Currency Fixed for
	Floating Interest Rate Swap – ASX Cleared,
	participants are representing that they are familiar
	with the ASX Rules and the limitations on
	transaction terms contained therein.
	In particular, participants represent that they are
	familiar with the limitations on transactions for US
	Persons set forth in Section 4.3 of the ASX OTC
	Handbook (or any successor provisions).
Incorporated Standards:	This contract description incorporates by reference the
	ASX Rules as in effect from time to time.
	The ASX Rules themselves may incorporate certain
	additional standards, such as the 2006 ISDA
	Definitions.
	Be aware that the timing of effectiveness of
	amendments or supplements to the ISDA standards
	may vary between bilateral and ASX-cleared
	contracts, since ASX may reserve the right to select
Due does t Tome /ISDA OTC Terror comm	when and how such changes become effective.
Product Type/ISDA OTC Taxonomy: ISDA OTC Asset Class:	Interest Rate
ISDA OTC Base Product:	IR Swap
ISDA OTC Sub-Product(s):	Fixed Float, OIS and Basis
Further Limitations:	Must comply with the ASX Rules.
Terms:	
Definition Set:	The definition set (e.g., ISDA 2006, as amended)
	binding on the parties in accordance with the ASX
NY 1.4	Rules.
Notional Amount:	An amount in Currency determined by the parties
	subject to limitations in the ASX Rules.
	This may vary from period to period to the extent
	permitted by the ASX Rules.
	The ASX Rules may limit the Currencies and Floating
C	Rate Options for which variable notionals are permitted.
Currency:	One of the currencies permitted for the relevant
D D	transaction type per the ASX Rules.
Business Days:	As per the ASX Rules, which may require certain
	Business Days be applicable on a per Currency or
	Floating Rate Option Basis and may otherwise limit the
D ' D C '	available Business Day locations which can be elected.
Business Day Convention:	L A a months A V V Unios
Trade Date:	As per the ASX Rules. As per the ASX Rules.

Effective Date:	As per the ASX Rules.
Termination Date:	As agreed by the parties, subject to any minimum or maximum tenor in the ASX Rules.
Termination Date Business Day Convention:	As per the ASX Rules, and thus subject to limitations based on other terms of the transaction.
Stub Periods:	Permitted to the extent allowed under the ASX Rules.
Fixed Rate Payer Payment Dates:	For fixed-for-floating interest rate swaps, as per the ASX Rules.
Fixed Amount:	For fixed-for-floating interest rate swaps, as per the ASX Rules.
Fixed Rate:	As agreed by the parties, subject to any minimum or maximum rate and per-period variability permitted in the ASX Rules and any other restrictions in the ASX Rules.
Floating Rate Payer Payment Dates:	For the floating leg of a fixed-for-floating interest rate swap or for each floating leg of a basis swap, as per the ASX Rules.
Floating Amount:	For the floating leg of a fixed-for-floating interest rate swap or for each floating leg of a basis swap, as per the ASX Rules.
Floating Rate Option:	For the floating leg of a fixed-for-floating interest rate swap or for each floating leg of a basis swap, as determined by the parties, subject to the ASX Rules, which may provide a more limited list of available options for a Currency than does the Definition Set.
Designated Maturity:	For the floating leg of a fixed-for-floating interest rate swap or for each floating leg of a basis swap, as per the ASX Rules, which may provide a more limited set of Designated Maturities than does the related rate source page.
Spread:	For the floating leg of a fixed-for-floating interest rate swap or for each floating leg of a basis swap, as determined by the parties, subject to any minimum or maximum rate and per-period variability permitted by the ASX Rules and any other restrictions in the ASX Rules.
Reset Dates:	For the floating leg of a fixed-for-floating interest rate swap or for each floating leg of a basis swap, as per the ASX Rules.
Floating Rate Daycount Fraction:	For the floating leg of a fixed-for-floating interest rate swap or for each floating leg of a basis swap, as per the ASX Rules.
Floating Rate for Initial Calculation Period:	For the floating leg of a fixed-for-floating interest rate swap or for each floating leg of a basis swap, as per the ASX Rules.
Fixed Rate Payer:	For fixed-for-floating interest rate swaps, as determined by the parties.
Floating Rate Payer:	For the floating leg of a fixed-for-floating interest rate swap or for each floating leg of a basis swap, as determined by the parties.
Compounding:	As per the ASX Rules.
Payer for Additional Payment/Fees:	As determined by the parties, subject to any limitations in the ASX Rules.
Additional Payment/Fees:	As determined by the parties, subject to any limitations in the ASX Rules.

Payment Date for Additional Payment/Fees	As determined by the parties, subject to any limitations
	in the ASX Rules.

# <u>Interest Rate Swaps – Eurex Cleared</u>

Summary:	This covers interest rate swaps cleared by Eurex Clearing AG ("Eurex") (such swaps, "Interest Rate Swaps – Eurex Cleared").
Limitations on Available Selections and Default Settings:	The terms under which an Interest Rate Swap – Eurex Cleared may be traded are as specified in these terms and conditions, which incorporate the Eurex Clearing Conditions ( <i>Clearing-Bedingungen</i> ) (collectively, the "Eurex Rules").
	By electing to trade an Interest Rate Swap – Eurex Cleared, participants are representing that they are familiar with the Eurex Rules and the limitations on transaction terms contained therein.
Incorporated Standards:	This contract description incorporates by reference the Eurex Rules as in effect from time to time.
	The Eurex Rules themselves may incorporate certain additional standards, such as the 2000 ISDA Definitions, the 2006 ISDA Definitions or the Rahmenvertrag für Finanztermingeschäfte ("DRV"). Be aware that the timing of effectiveness of amendments or supplements to the ISDA standards may vary between bilateral and Eurex-cleared contracts, since Eurex may reserve the right to select when and how such changes become effective. Also be aware that Eurex has elected to make the 2006 ISDA Definitions applicable to certain classes of transactions, regardless of the parties' election to use the 2000 ISDA Definitions.
Product Type/ISDA OTC Taxonomy:	
ISDA OTC Asset Class:	Interest Rate
ISDA OTC Base Product:	IR Swap
ISDA OTC Sub-Product(s):	Fixed Float, Inflation, OIS and Basis
Further Limitations:	Must comply with the Eurex Rules.
Terms:	
Definition Set:	The definition set ( <i>e.g.</i> , ISDA 2000 Definitions, ISDA 2006 Definitions, each as amended, the DRV) binding on the parties in accordance with the Eurex Rules.
Notional Amount:	An amount in Currency determined by the parties subject to limitations in the Eurex Rules.
	This may vary from period to period to the extent permitted by the Eurex Rules.
	The Eurex Rules may limit the Floating Rate Options and other terms for which variable notionals are permitted.

Currency:	One of the currencies permitted for the relevant transaction type per the Eurex Rules.
Business Days:	As per the Eurex Rules, which may require certain Business Days be applicable on a per Currency or Floating Rate Option Basis and may otherwise limit the available Business Day locations which can be elected.
Business Day Convention:	As per the Eurex Rules.
Trade Date:	As per the Eurex Rules.
Effective Date:	As per the Eurex Rules.
Termination Date:	As agreed by the parties, subject to any minimum or maximum tenor in the Eurex Rules for the related type of transaction and Currency.
Termination Date Business Day Convention:	As per the Eurex Rules, and thus subject to limitations based on other terms of the transaction.
Stub Periods:	Permitted to the extent allowed under the Eurex Rules.
Fixed Rate Payer Payment Dates:	For fixed-for-floating interest rate swaps, as per the Eurex Rules.
Fixed Amount:	For fixed-for-floating interest rate swaps, as per the Eurex Rules.
Fixed Rate:	As agreed by the parties, subject to any minimum or maximum rate and per-period variability permitted in the Eurex Rules and any other restrictions in the Eurex Rules.
Floating Rate Payer Payment Dates:	For the floating leg of a fixed-for-floating interest rate swap or for each floating leg of a basis swap, as per the Eurex Rules.
Floating Amount:	For the floating leg of a fixed-for-floating interest rate swap or for each floating leg of a basis swap, as per the Eurex Rules.
Floating Rate Option:	For the floating leg of a fixed-for-floating interest rate swap or for each floating leg of a basis swap, as determined by the parties, subject to the Eurex Rules, which may provide a more limited list of available options for a Currency than does the Definition Set.
Designated Maturity:	For the floating leg of a fixed-for-floating interest rate swap or for each floating leg of a basis swap, as per the Eurex Rules, which may provide a more limited set of Designated Maturities than does the related rate source page.
Spread:	For the floating leg of a fixed-for-floating interest rate swap or for each floating leg of a basis swap, as determined by the parties, subject to any minimum or maximum rate and per-period variability permitted by the Eurex Rules and any other restrictions in the Eurex Rules.

Reset Dates:	For the floating leg of a fixed-for-floating interest rate swap or for each floating leg of a basis swap, as per the Eurex Rules.
Floating Rate Daycount Fraction:	For the floating leg of a fixed-for-floating interest rate swap or for each floating leg of a basis swap, as per the Eurex Rules.
Floating Rate for Initial Calculation Period:	For the floating leg of a fixed-for-floating interest rate swap or for each floating leg of a basis swap, as per the Eurex Rules.
Fixed Rate Payer:	For fixed-for-floating interest rate swaps, as determined by the parties.
Floating Rate Payer:	For the floating leg of a fixed-for-floating interest rate swap or for each floating leg of a basis swap, as determined by the parties.
Compounding:	As per the Eurex Rules.
Payer for Additional Payment/Fees:	As determined by the parties, subject to any limitations in the Eurex Rules.
Additional Payment/Fees:	As determined by the parties, subject to any limitations in the Eurex Rules.
Payment Date for Additional Payment/Fees:	As determined by the parties, subject to any limitations in the Eurex Rules.

# <u>Interest Rate Swaps – JSCC Cleared</u>

Summary:	This covers interest rate swaps cleared by Japan Securities
•	Clearing Corporation ("JSCC") (such swaps, "Interest Rate
	Swaps – JSCC Cleared").
Limitations on Available Selections and	The terms under which an Interest Rate Swap – JSCC Cleared
<b>Default Settings:</b>	may be traded are as specified in these terms and conditions,
	which incorporate the JSCC Interest Rate Swap Clearing
	Business Rules ( $(\hat{a} - fXf \Box fbfv\check{Z}\hat{x} \circ \Box f\check{Z} \subset \pounds - \pm, \acute{E}S\ddot{O}, \cdot, \acute{e}$
	$\text{\&-\pm\cdot\hat{u}-@\Box}$ ') and the JSCC Handling Procedures of Interest
	Rate Swap Business Rules (<à-~fXf \( \)fbfv\Z\( \)e^\\@\\ \^ZZ\<\( \)f-\( \)
	, ÉŠÖ, · , é< $\pounds$ - $\pm$ · $\hat{u}$ -@ $\Box$ ', ÌŽ $\hat{z}$ $\hat{\mu}$ , $\varepsilon$ ) (collectively, the "JSCC
	Rules").
	By electing to trade an Interest Rate Swap – JSCC Cleared,
	participants are representing that they are familiar with
	the JSCC Rules and the limitations on transaction terms
	contained therein.
	In particular, participants represent that they are familiar with the limitations on transactions for US Persons set
	forth in Article 47-2 of the JSCC Handling Procedures of
	Interest Rate Swap Business Rules (or any successor
	provisions).
Incorporated Standards:	This contract description incorporates by reference the JSCC
•	Rules as in effect from time to time.
	The JSCC Rules themselves may incorporate certain additional
	standards, such as the 2000 ISDA Definitions or 2006 ISDA
	Definitions.
	Be aware that the timing of effectiveness of amendments or
	supplements to the ISDA standards may vary between
	bilateral and JSCC-cleared contracts, since JSCC may
	reserve the right to select when and how such changes become effective.
Product Type/ISDA OTC Taxonomy:	become effective.
ISDA OTC Asset Class:	Interest Rate
ISDA OTC Base Product:	IR Swap
ISDA OTC Sub-Product(s):	Fixed Float, OIS and Basis
Further Limitations:	Must comply with the JSCC Rules.
Terms:	
Definition Set:	The definition set (e.g., ISDA 2000 or ISDA 2006, each as
	amended) binding on the parties in accordance with the JSCC
X	Rules.
Notional Amount:	An amount in Currency determined by the parties subject to
	limitations in the JSCC Rules.
	This may vary from period to period to the extent permitted by the JSCC Rules.
	The JSCC Rules may limit the Currencies and Floating Rate
	Options for which variable notionals are permitted.
Currency:	One of the currencies permitted for the relevant transaction
	type per the JSCC Rules.
Business Days:	As per the JSCC Rules, which may require certain Business
	Days be applicable on a per Currency or Floating Rate Option

	Basis and may otherwise limit the available Business Day
D : D G :	locations which can be elected.
Business Day Convention:	As per the JSCC Rules.
Trade Date:	As per the JSCC Rules.
Effective Date:	As per the JSCC Rules.
Termination Date:	As agreed by the parties, subject to any minimum or maximum tenor in the JSCC Rules.
Termination Date Business Day Convention:	As per the JSCC Rules, and thus subject to limitations based on other terms of the transaction.
Stub Periods:	Permitted to the extent allowed under the JSCC Rules.
Fixed Rate Payer Payment Dates:	For fixed-for-floating interest rate swaps, as per the JSCC Rules.
Fixed Amount:	For fixed-for-floating interest rate swaps, as per the JSCC Rules.
Fixed Rate:	As agreed by the parties, subject to any minimum or maximum rate and per-period variability permitted in the JSCC Rules and any other restrictions in the JSCC Rules.
Floating Rate Payer Payment Dates:	For the floating leg of a fixed-for-floating interest rate swap or for each floating leg of a basis swap, as per the JSCC Rules.
Floating Amount:	For the floating leg of a fixed-for-floating interest rate swap or for each floating leg of a basis swap, as per the JSCC Rules.
Floating Rate Option:	For the floating leg of a fixed-for-floating interest rate swap or for each floating leg of a basis swap, as determined by the parties, subject to the JSCC Rules, which may provide a more limited list of available options for a Currency than does the Definition Set.
Designated Maturity:	For the floating leg of a fixed-for-floating interest rate swap or for each floating leg of a basis swap, as per the JSCC Rules, which may provide a more limited set of Designated Maturities than does the related rate source page.
Spread:	For the floating leg of a fixed-for-floating interest rate swap or for each floating leg of a basis swap, as determined by the parties, subject to any minimum or maximum rate and perperiod variability permitted by the JSCC Rules and any other restrictions in the JSCC Rules.
Reset Dates:	For the floating leg of a fixed-for-floating interest rate swap or for each floating leg of a basis swap, as per the JSCC Rules.
Floating Rate Daycount Fraction:	For the floating leg of a fixed-for-floating interest rate swap or for each floating leg of a basis swap, as per the JSCC Rules.
Floating Rate for Initial Calculation Period:	For the floating leg of a fixed-for-floating interest rate swap or for each floating leg of a basis swap, as per the JSCC Rules.
Fixed Rate Payer:	For fixed-for-floating interest rate swaps, as determined by the parties.
Floating Rate Payer:	For the floating leg of a fixed-for-floating interest rate swap or for each floating leg of a basis swap, as determined by the parties.
Compounding:	As per the JSCC Rules.
Payer for Additional Payment/Fees:	As determined by the parties, subject to any limitations in the JSCC Rules.
Additional Payment/Fees:	As determined by the parties, subject to any limitations in the JSCC Rules.
Payment Date for Additional Payment/Fees	As determined by the parties, subject to any limitations in the JSCC Rules.

## **IOS Index Contracts**

Summary:	This covers Markit IOS Fixed for Floating Swap
	Transactions (the "Contracts").
Limitations on Available Selections and Default	The terms under which the Contracts may be traded are
Settings:	as specified in these terms and conditions.
	For amounts or rates, the relevant term cannot be less
	than the specified Minimum, must represent an even
	Increment and cannot exceed the Maximum; for a date,
	the date cannot be earlier than Earliest nor later than
	Latest.
	In many cases there are normal "vanilla" terms on which
	the parties will transact.
	These are shown as "Default" and will apply unless the
. 10. 1	parties vary them.
Incorporated Standards:	This contract description incorporates by reference the
	following industry standard documentation and
	standards:
	(a) 2006 ISDA Definitions
	(b) ISDA OTC Taxonomies
	(c) the Markit IOS Standard Terms Supplement (March
	12, 2010 version) or any subsequent Standard Terms Supplement (the "Standard Terms")
Product Type/ISDA OTC Taxonomy:	Supplement (the Standard Terms)
ISDA OTC Asset Class:	Credit
ISDA OTC Asset Class.  ISDA OTC Base Product:	Index
ISDA OTC Base Floduct:	IOS
ISDA OTC Sub-Floduct.  ISDA OTC Transaction Type:	IOS
Further Limitations:	None
Terms:	None
Effective Date:	As specified by the parties, subject to adjustment in
Effective Date.	accordance with the Standard Terms.
Scheduled Termination Date:	As agreed by the parties.
Termination Date:	Per the Standard Terms.
Notional Amount:	An amount is USD agreed by the parties.
Index:	One of the Markit IOS Index series, as specified by the
muca.	parties from all then-available series (to the extent such
	series is not then a narrow-based index within the
	meaning of the CFTC's regulations).
Annex Date:	As agreed by the parties.
Index Provider:	Per the Standard Terms.
Fixed Rate Payer:	As agreed by the parties.
Floating Rate Payer:	As agreed by the parties.
Period End Dates:	Per the Standard Terms.
Payment Dates:	Per the Standard Terms.
Calculation Agent:	As agreed by the parties or, if not so agreed, per the
	Standard Terms.
Day Count Fraction:	Per the Standard Terms.
Business Days:	For any purpose, per the Standard Terms.
Business Day Convention:	Per the Standard Terms.
Initial Payment:	
Initial Payment:	Per the Standard Terms.
•	

Initial Payment Amount:	An amount in USD as specified by the parties.
Initial Payment Payer:	As specified by the parties.
Initial Payment Date:	Per the Standard Terms.
Settlement Payments:	
Mark to Market Amount Payment:	Per the Standard Terms.
Mark to Market Amount Payer:	Per the Standard Terms.
Mark to Market Amount:	Per the Standard Terms.
Financing Payment:	Per the Standard Terms.
Financing Payment Amount:	Per the Standard Terms.
Interest Payment:	Per the Standard Terms.
Interest Payment Amount:	Per the Standard Terms.
Net Payment:	Per the Standard Terms.
Net Payment Amount Payer:	Per the Standard Terms.
Net Payment Amount:	Per the Standard Terms.
Agency Coupon:	Per the Standard Terms.
Index LIBOR:	Per the Standard Terms.
Index Factor:	Per the Standard Terms.
Commencing Index Factor:	Per the Standard Terms.
Period End Index Factor:	Per the Standard Terms.
Index Price:	Per the Standard Terms.
Commencing Index Price:	Per the Standard Terms.
Period End Index Price:	Per the Standard Terms.
<b>Event Affecting the Index:</b>	
Events and Adjustments:	All are per the Standard Terms.

## **MBX Index Contracts**

Summary:	This covers Markit MBX Fixed for Floating Swap
	Transactions (the "Contracts").
Limitations on Available Selections and Default	The terms under which the Contracts may be traded are
Settings:	as specified in these terms and conditions.
	For amounts or rates, the relevant term cannot be less
	than the specified Minimum, must represent an even
	Increment and cannot exceed the Maximum; for a date,
	the date cannot be earlier than Earliest nor later than
	Latest.
	In many cases there are normal "vanilla" terms on which
	the parties will transact.
	These are shown as "Default" and will apply unless the
	parties vary them.
Incorporated Standards:	This contract description incorporates by reference the
	following industry standard documentation and
	standards:
	(a) 2006 ISDA Definitions;
	(b) ISDA OTC Taxonomies; and
	(c) the Markit MBX Standard Terms Supplement
	(September 12, 2010 version) or any subsequent Standard Terms Supplement (the "Standard
	Terms").
Product Type/ISDA OTC Taxonomy:	Terms ).
ISDA OTC Asset Class:	Credit
ISDA OTC Base Product:	Index
ISDA OTC Sub-Product:	MBX
ISDA OTC Transaction Type:	MBX
Further Limitations:	None
Terms:	
Effective Date:	As specified by the parties, subject to adjustment in
	accordance with the Standard Terms.
Scheduled Termination Date:	As agreed by the parties.
Termination Date:	Per the Standard Terms.
Notional Amount:	An amount is USD agreed by the parties.
Index:	One of the Markit MBX Index series, as specified by the
	parties from all then-available series (to the extent such
	series is not then a narrow-based index within the
	meaning of the CFTC's regulations).
Annex Date:	As agreed by the parties.
Index Provider:	Per the Standard Terms.
Fixed Rate Payer:	As agreed by the parties.
Floating Rate Payer:	As agreed by the parties.
Period End Dates:	Per the Standard Terms.
Reset Dates:	Per the Standard Terms
Payment Dates:	Per the Standard Terms.
Calculation Agent:	As agreed by the parties or, if not so agreed, per the
	Standard Terms.
Day Count Fraction:	Per the Standard Terms.
Business Days:	For any purpose, per the Standard Terms.
Business Day Convention:	Per the Standard Terms.

Initial Payment:	
Initial Payment:	Per the Standard Terms.
Initial Payment Amount:	An amount in USD as specified by the parties.
Initial Payment Payer:	As specified by the parties.
Initial Payment Date:	Per the Standard Terms.
Settlement Payments:	
Mark to Market Amount Payment:	Per the Standard Terms.
Mark to Market Amount Payer:	Per the Standard Terms.
Mark to Market Amount:	Per the Standard Terms.
Financing Payment:	Per the Standard Terms.
Financing Payment Amount:	Per the Standard Terms.
Interest Payment:	Per the Standard Terms.
Interest Payment Amount:	Per the Standard Terms.
Principal Payment:	Per the Standard Terms.
Principal Payment Amount:	Per the Standard Terms.
Net Payment:	Per the Standard Terms.
Net Payment Amount Payer:	Per the Standard Terms.
Net Payment Amount:	Per the Standard Terms.
Agency Coupon:	Per the Standard Terms.
Index LIBOR:	Per the Standard Terms.
Index Factor:	Per the Standard Terms.
Commencing Index Factor:	Per the Standard Terms.
Period End Index Factor:	Per the Standard Terms.
Index Price:	Per the Standard Terms.
Commencing Index Price:	Per the Standard Terms.
Period End Index Price:	Per the Standard Terms.
<b>Event Affecting the Index:</b>	
Events and Adjustments:	All are per the Standard Terms.

# **Municipal Market Data Rate Lock Transactions**

Summary:	This covers rate lock transactions indexed to the
	Thomson Reuters Municipal Market Data ("MMD")
	AAA Curve ("MMD Rate Lock Transactions").
Limitations on Available Selections and Default	The terms under which a MMD Rate Lock Transaction
Settings:	may be traded are as specified in these terms and
	conditions and in the attached tables.
	For amounts or rates, the relevant term cannot be less than the specified Minimum, must represent an even
	Increment and cannot exceed the Maximum; for a date,
	the date cannot be earlier than Earliest nor later than Latest.
	For Business Days, the defaults shall be the locations specified.
	The parties may add additional locations from the
	Available Locations and may eliminate some or all of
	the other locations, so long as there is at least one
	location in which payment may be made.
	For these purposes "TARGET" is considered a location.
	In many cases there are normal "vanilla" terms on which the parties will transact.
	These are shown as "Default" and will apply unless the
	parties vary them.
Incorporated Standards:	This contract description incorporates by reference the
•	following industry standard documentation and
	standards:
	(a) 2006 ISDA Definitions
	(b) ISDA OTC Taxonomies
	(c) FpML Location Codes
	For convenience, certain terms are mapped to their
D. I. (E. EGD.) OF GE	FpML 5.5 equivalent.
Product Type/ISDA OTC Taxonomy:	T. D.
ISDA OTC Asset Class:	Interest Rate
ISDA OTC Base Product:	IR Swap
ISDA OTC Sub-Product:	Exotic
Further Limitations:	None
Terms:	Assessed in HOD assessed to the second
Notional Amount ("notional"):	An amount in USD agreed by the parties.
Effective Date ("effectiveDate"):	The date specified by the parties, adjusted in accordance
	with any applicable Business Day Convention.  The parties may express the unadjusted Effective Date as
	a number of Business Days or Banking Days from the
	Trade Date ("relativeEffectiveDate").
Effective Date Business Days:	As specified by the parties from among the Available
Effective Date Dubiness Days.	Business Days.
Effective Date Business Day Convention:	As specified by the parties from among the Available
	Business Day Conventions.
Termination Date ("terminationDate"):	The date specified by the parties, adjusted in accordance
	with any applicable Business Day Convention.
	The parties may express the unadjusted Termination
	Date as a number of days, months or years from the
	Effective Date ("relativeTerminationDate").

## Municipal Market Data Rate Lock Transactions

Bi O1: ed Amount: ed Rate Payer ("payerPartyReference"): rency Amount ("notionalAmount"): ed Amount:  by OHAMOUNT: A DV01 × Fixed	as specified by the parties from among the Available susiness Day Conventions. as specified by the parties. as specified by the parties. as specified by the parties.
ed Amount: ed Rate Payer ("payerPartyReference"): rency Amount ("notionalAmount"): ed Amount:  Notice of Amount:  DV01 × Fixed	as specified by the parties.
ed Rate Payer ("payerPartyReference"):  rency Amount ("notionalAmount"):  ed Amount:  Notice  the ed  DV01 × Fixed	s specified by the parties.
rency Amount ("notional Amount"):  ed Amount:  Notified Amount:  DV01 × Fixed	s specified by the parties.
ed Amount: Note that the education $DV01 \times Fixe$	
$\begin{array}{c} \text{th} \\ \text{eq} \\ \hline \textit{DV01} \times \textit{Fixe} \\ \end{array}$	
	lotwithstanding anything to the contrary contained in the 2006 ISDA Definitions, the Fixed Amount shall qual:
ed Rate Payment Dates ("unadjustedPaymentDate"): Ti	$d$ Rate $ imes$ Currency Amount $ imes$ Day Count Fraction_
to react rujiment z ares ( unaujusteur ujimentz are ):   r	the Termination Date
Count Fraction: 1/	/1
ating Amount:	
	s specified by the parties.
rency Amount ("notionalAmount"):	s specified by the parties.
th	lotwithstanding anything to the contrary contained in the 2006 ISDA Definitions, the Floating Amount shall qual:
$DV01 \times Calculation\ Amount \times (Floating\ Rate)$	te + Spread) × Floating Rate Day Count Fraction
	The Termination Date
th Do 5. bo m m sta	The Relevant Rate for a Reset Date will be the level of the Thomson Reuters Municipal index for a tenor of the Designated Maturity which represents the offer-side of .00% coupon "AAA" rated state general obligation onds based on institutional block size (\$2 million+) market activity in both the primary and secondary nunicipal bond market, as of at 3:00 p.m. eastern tendard time as published on the Thomson Reuters EM3 page.
	as specified by the parties from among the available enors.
	ero
Count Fraction: 1/	/1
Pa	The second Business Day preceding the Floating Rate ayment Date.
В	s specified by the parties from among the Available susiness Days, subject to any Required Business Days.
	as specified by the parties from among the Available susiness Day Conventions.
culation Agent: A	as agreed by the parties.

## Fixed Floating Available Currencies and Required Business Days

Three Letter Currency Code (ISDA/ISO)	Currency Name (ISDA)	Basic Business Day Locations For Currency (FpML Codes)
USD	United States Dollars	USNY

## Municipal Market Data Rate Lock Transactions

### Fixed Floating Available Business Day Conventions

	ISDA Name
Following	
Modified/Modified Following	
No Adjustment	
Preceding	
FRN Convention/Eurodollar Convention	

### Notional Amounts

	Currency	Minimum	Increment	Maximum	Default
ſ	USD	25,000,000	1,000,000	N/A	N/A

## Natural Gas Date/Instrument Spread Contracts

A natural-gas date/instrument spread contract is a cash-settled agreement between two counterparties whereby one counterparty agrees to pay a floating amount to the other counterparty on a given date, and then receive a different floating amount from the other counterparty on a different floating amount from the other counterparty on a different floating amount from the other counterparty on a different floating amount from the other counterparty on a different floating amount from the other counterparty on a different floating amount is the spread, which is the quoted price of receive and the published by one of a series of industry.  Publication Sources:  • CGPR—Canadian Gas Price Reporter • Gas Daily—Plat's foat Baily Report • FERC—Plat's Inside FERC Gas Market Reporter • NGI—Natural Gas Intelligence's Bidweck Survey The floating amount can be based on the price for a given period in a given issue of the publication source (e.g., monthly based on the first issue of the publication source (e.g., average of weekly bid prices for each weekly issue), as agreed by the parties.  Reference Commodities:  • AECO—Alberta Energy Co. (GEPR) • ALG—Algonquin Energy Co. (GEPR) • ALG—Algonquin Energy Co. (GERC) • Clicago—Chicago City Gate (IFERC) • CliG—Colorado Interstate Gas, North Mainline (IFERC) • DOM—Dominion Transmission Co., Malin (IFERC) • Michigan—Michigan Consolidated Gas Company Citygate (IFERC) • Michigan—Michigan Consolidated Gas Company Citygate (IFERC) • Michigan—Michigan Consolidated Gas Company Citygate (IFERC) • Panhandle—Panhandle Eastern Pipeline Co. (IFERC) • Panhandle—Panhandle Eastern Pipeline Co. (IFERC) • Panhandle—Panhandle Eastern Pipeline Co. (IFERC) • Permian—El Paso Natural Gas Co. San Juan Basin Pool (IFERC) • Power Permian—El Paso Natural Gas Co. San Juan Basin Pool (IFERC) • Socal—Socal Citygate (IFERC) • Socal—Socal Citygate (IFERC) • Trans Z6 NY—Transcontinenal Gas Pipeline, Zone 6 (NY) (IFERC) • Trans Z6 NY—Transcontinenal Gas Pipeline, Zone 6 (NY) (IFERC) • Trans Z6 NY—Transcontinenal G	Summary:	This covers "Natural Gas Date/Instrument Spread Contracts".	
between two counterparties whereby one counterparty agrees to pay a floating amount to the other counterparty on a given date, and then receive a different floating amount from the other counterparty on a different, later date.  The difference between the two floating amounts is the spread, which is the quoted price for the contract.  The floating amounts are based on the notional quantity traded and the price of natural gas a stated hub published by one of a series of industry.  **CGPR**—Canadian Gas Price Reporter**  • Gas Daily—Platt's Gas Daily's Daily Report*  • IFERC—Platt's Inside FERC Gas Market Reporter*  • NGI—Natural Gas Intelligence's Bidweek Survey*  The floating amount can be based on the price for a given period in a given issue of the publication source (e.g., monthly based on the first issue of the month) or an average of prices (e.g., average of weekly bid prices for each weekly issue), as agreed by the parties.  **Reference Commodities**  **AECO—Alberta Energy Co. (CGPR)**  • ALG—Algonquin Energy Co. (IFERC)*  • ALG—Algonquin Energy Co. (IFERC)*  • Clic—Colorado Interstate Gas, North Mainline (IFERC)*  • DOM—Dominion Transmission Co. (IFERC)*  • HSC—Houston Ship Channel (IFERC)*  • Malin—Pacific Gas Transmission Co., Malin (IFERC)*  • Michigan—Michigan Consolidated Gas Company Citygate (IFERC)*  • NGPC Mid Con—Natural Gas Pipeline Co of America (IFERC)*  • Parmanalle—Panhandle Eastern Pipeline Co. (IFERC)*  • Panhandle—Panhandle Eastern Pipeline Co. (IFERC)*  • Portima—El Paso Natural Gas Co. Son Juan Basin Pool (IFERC)*  • Portima—El Paso Natural Gas Co. Son Juan Basin Pool (IFERC)*  • Rockies—Northwest Pipeline, Rocky Mountain Pool (IFERC)*  • Sonal—Socal Citygate (IFERC)*  • TECO M3—Texas Eastern Transmission Corp M3 Zone (IFERC)*  • TETCO M3—Texas Eastern Transmission Corp M3 Zone (IFERC)*  • Texok—Natural Gas Pipeline Co of Americak Texofk (IFERC)*  • Texok—Natural Gas Pipeline, Vontura (IFERC)*  • Ventura—Northern Border Pipeline, Ventura (IFERC)*  • Ventura—Northern Border Pipeline, Ve			
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## AECO—Alberta Energy Co. (IFERC)    ALG—Algonquin Energy Co. (IFERC)   Chicago—Chicago City Gate (IFERC)   CIG—Colorado Interstate Gas, North Mainline (IFERC)   DOM—Dominion Transmission Co. (IFERC)   HSC—Houston Ship Channel (IFERC)   Malin—Pacific Gas Transmission Co., Malin (IFERC)   Michigan—Michigan Consolidated Gas Company Citygate (IFERC)   Michigan—Michigan Consolidated Gas Company Citygate (IFERC)   NGPC Mid Con—Natural Gas Pipeline Co of America (IFERC)   Panhandle—Panhandle Eastern Pipeline Co. (IFERC)   Permian—El Paso Natural Gas Co. Permian Basin Pool (IFERC)   Pocke Citygate—Pocke Citygate (IFERC)   Rockies—Northwest Pipeline, Rocky Mountain Pool (IFERC)   San Juan—El Paso Natural Gas Co. San Juan Basin Pool (IFERC)   Socal—Socal Citygate (IFERC)   Socal—Socal Citygate (IFERC)   TCO—Columbia Gas Transmission Company (IFERC)   TETCO M3—Texas Eastern Transmission Corp M3 Zone (IFERC)   Texok— Natural Gas Pipeline Co of America TexOK (IFERC)   Texok— Natural Gas Pipeline Co of America TexOK (IFERC)   Trans Z6 NY—Transcontinenal Gas Pipeline, Zone 6 (NY) (IFERC)   Ventura—Northern Border Pipeline, Ventura (IFERC)   Ventura—Northern			
ALG—Algonquin Energy Co. (IFERC)     Chicago—Chicago City Gate (IFERC)     Clicago—Chicago City Gate (IFERC)     CIG—Colorado Interstate Gas, North Mainline (IFERC)     DOM—Dominion Transmission Co. (IFERC)     HSC—Houston Ship Channel (IFERC)     Malin—Pacific Gas Transmission Co., Malin (IFERC)     Michigan—Michigan Consolidated Gas Company Citygate (IFERC)     NGPC Mid Con—Natural Gas Pipeline Co of America (IFERC)     Panhandle—Panhandle Eastern Pipeline Co. (IFERC)     Permian—El Paso Natural Gas Co. Permian Basin Pool (IFERC)     PG&E Citygate—PG&E Citygate (IFERC)     Rockies—Northwest Pipeline, Rocky Mountain Pool (IFERC)     Socal—Socal Citygate (IFERC)     Socal—Socal Citygate (IFERC)     Sumas—Northwest Pipeline, Sumas (IFERC)     TCO—Columbia Gas Transmission Company (IFERC)     TETCO M3—Texas Eastern Transmission Corp M3 Zone (IFERC)     TETCO M3—Texas Eastern Transmission Corp M3 Zone (IFERC)     Texok—Natural Gas Pipeline Co of Americak TexOk (IFERC)     Trans Z6 NY—Transcontinenal Gas Pipeline, Zone 6 (NY) (IFERC)     Ventura—Northern Border Pipeline, Ventura (IFERC)	Reference Commodities:		
Chicago—Chicago City Gate (IFERC) CIG—Colorado Interstate Gas, North Mainline (IFERC) DOM—Dominion Transmission Co. (IFERC) HSC—Houston Ship Channel (IFERC) Malin—Pacific Gas Transmission Co., Malin (IFERC) Malin—Pacific Gas Transmission Co., Malin (IFERC) Michigan—Michigan Consolidated Gas Company Citygate (IFERC) Morp Mid Con—Natural Gas Pipeline Co of America (IFERC) Morp Mid Con—Natural Gas Pipeline Co. (IFERC) Panhandle—Panhandle Eastern Pipeline Co. (IFERC) Permian—El Paso Natural Gas Co. Permian Basin Pool (IFERC) PG&E Citygate—PG&E Citygate (IFERC) Rockies—Northwest Pipeline, Rocky Mountain Pool (IFERC) San Juan—El Paso Natural Gas Co. San Juan Basin Pool (IFERC) Socal—Socal Citygate (IFERC) Sumas—Northwest Pipeline, Sumas (IFERC) TCO—Columbia Gas Transmission Company (IFERC) TECO M3—Texas Eastern Transmission Company (IFERC) Texok—Natural Gas Pipeline Co of Americak TexOK (IFERC) Trans Z6 NY—Transcontinenal Gas Pipeline, Zone 6 (NY) (IFERC) Trans Z6 NY—Transcontinenal Gas Pipeline, Ventura (IFERC) Ventura—Northern Border Pipeline, Ventura (IFERC) Currency in which payments are made between the two counterparties: USD CAD (AECO only) Notional amount, as agreed by counterparties.			
CIG—Colorado Interstate Gas, North Mainline (IFERC) DOM—Dominion Transmission Co. (IFERC) HSC—Houston Ship Channel (IFERC) Malin—Pacific Gas Transmission Co., Malin (IFERC) Michigan—Michigan Consolidated Gas Company Citygate (IFERC) NGPC Mid Con—Natural Gas Pipeline Co of America (IFERC) NGPC Mid Con—Natural Gas Pipeline Co. (IFERC) Panhandle—Panhandle Eastern Pipeline Co. (IFERC) Permian—El Paso Natural Gas Co. Permian Basin Pool (IFERC) PG&E Citygate—PG&E Citygate (IFERC) Rockies—Northwest Pipeline, Rocky Mountain Pool (IFERC) San Juan—El Paso Natural Gas Co. San Juan Basin Pool (IFERC) Socal—Socal Citygate (IFERC) Socal—Socal Citygate (IFERC) Sumas—Northwest Pipeline, Sumas (IFERC) TCO—Columbia Gas Transmission Company (IFERC) TETCO M3—Texas Eastern Transmission Corp M3 Zone (IFERC) Texok—Natural Gas Pipeline Co of Americak TexOK (IFERC) Trans Z6 NY—Transcontinenal Gas Pipeline, Zone 6 (NY) (IFERC) Ventura—Northern Border Pipeline, Ventura (IFERC) Ventura—Northern Border Pipeline, Ventura (IFERC) Waha—Waha Hub, West Texas (IFERC)  Currency in which payments are made between the two counterparties: USD CAD (AECO only)  Notional amount, as agreed by counterparties.			
DOM—Dominion Transmission Co. (IFERC) HSC—Houston Ship Channel (IFERC) Malin—Pacific Gas Transmission Co., Malin (IFERC) Michigan—Michigan Consolidated Gas Company Citygate (IFERC) NGPC Mid Con—Natural Gas Pipeline Co of America (IFERC) Panhandle—Panhandle Eastern Pipeline Co. (IFERC) Panhandle—Panhandle Eastern Pipeline Co. (IFERC) Permian—El Paso Natural Gas Co. Permian Basin Pool (IFERC) PG&E Citygate—PG&E Citygate (IFERC) Rockies—Northwest Pipeline, Rocky Mountain Pool (IFERC) San Juan—El Paso Natural Gas Co. San Juan Basin Pool (IFERC) Socal—Socal Citygate (IFERC) Socal—Socal Citygate (IFERC) Socal—Socal Citygate (IFERC) TCO—Columbia Gas Transmission Company (IFERC) TETCO M3—Texas Eastern Transmission Corp M3 Zone (IFERC) Texok—Natural Gas Pipeline Co of Americak TexOK (IFERC) Trans Z6 NY—Transcontinenal Gas Pipeline, Zone 6 (NY) (IFERC) Ventura—Northern Border Pipeline, Ventura (IFERC) Ventura—Northern Border Pipeline, Ventura (IFERC) Waha—Waha Hub, West Texas (IFERC)  Currency in which payments are made between the two counterparties: USD CAD (AECO only)  Notional amount, as agreed by counterparties.			
HSC—Houston Ship Channel (IFERC)     Malin—Pacific Gas Transmission Co., Malin (IFERC)     Michigan—Michigan Consolidated Gas Company Citygate (IFERC)     NGPC Mid Con—Natural Gas Pipeline Co of America (IFERC)     Panhandle—Panhandle Eastern Pipeline Co. (IFERC)     Permian—El Paso Natural Gas Co. Permian Basin Pool (IFERC)     PG&E Citygate—PG&E Citygate (IFERC)     Rockies—Northwest Pipeline, Rocky Mountain Pool (IFERC)     San Juan— El Paso Natural Gas Co. San Juan Basin Pool (IFERC)     Socal—Socal Citygate (IFERC)     Socal—Socal Citygate (IFERC)     Sumas—Northwest Pipeline, Sumas (IFERC)     Socal—Socal Citygate (IFERC)     TCO—Columbia Gas Transmission Company (IFERC)     TETCO M3—Texas Eastern Transmission Corp M3 Zone (IFERC)     Texok—Natural Gas Pipeline Co of Americak TexOK (IFERC)     Trans Z6 NY—Transcontinenal Gas Pipeline, Zone 6 (NY) (IFERC)     Ventura—Northern Border Pipeline, Ventura (IFERC)     Ventura—Northern Border Pipeline, Ventura (IFERC)     Ventura—Waha Hub, West Texas (IFERC)  Currency in which payments are made between the two counterparties:     USD     CAD (AECO only)  Notional amount, as agreed by counterparties.			
<ul> <li>Malin—Pacific Gas Transmission Co., Malin (IFERC)</li> <li>Michigan—Michigan Consolidated Gas Company Citygate (IFERC)</li> <li>NGPC Mid Con—Natural Gas Pipeline Co of America (IFERC)</li> <li>Panhandle—Panhandle Eastern Pipeline Co. (IFERC)</li> <li>Permian—El Paso Natural Gas Co. Permian Basin Pool (IFERC)</li> <li>PG&amp;E Citygate—PG&amp;E Citygate (IFERC)</li> <li>Rockies—Northwest Pipeline, Rocky Mountain Pool (IFERC)</li> <li>San Juan—El Paso Natural Gas Co. San Juan Basin Pool (IFERC)</li> <li>Socal—Socal Citygate (IFERC)</li> <li>Sumas—Northwest Pipeline, Sumas (IFERC)</li> <li>TCO—Columbia Gas Transmission Company (IFERC)</li> <li>TETCO M3—Texas Eastern Transmission Corp M3 Zone (IFERC)</li> <li>Texok—Natural Gas Pipeline Co of Americak TexOK (IFERC)</li> <li>Trans Z6 NY—Transcontinenal Gas Pipeline, Zone 6 (NY) (IFERC)</li> <li>Ventura—Northern Border Pipeline, Ventura (IFERC)</li> <li>Ventura—Northern Border Pipeline, Ventura (IFERC)</li> <li>Waha—Waha Hub, West Texas (IFERC)</li> </ul> Settlement Currency: <ul> <li>Currency in which payments are made between the two counterparties:</li> <li>USD</li> <li>CAD (AECO only)</li> </ul> Notional amount, as agreed by counterparties.			
Michigan—Michigan Consolidated Gas Company Citygate (IFERC)     NGPC Mid Con—Natural Gas Pipeline Co of America (IFERC)     Panhandle—Panhandle Eastern Pipeline Co. (IFERC)     Permian—El Paso Natural Gas Co. Permian Basin Pool (IFERC)     PG&E Citygate—PG&E Citygate (IFERC)     Rockies—Northwest Pipeline, Rocky Mountain Pool (IFERC)     San Juan—El Paso Natural Gas Co. San Juan Basin Pool (IFERC)     Socal—Socal Citygate (IFERC)     Sumas—Northwest Pipeline, Sumas (IFERC)     Sumas—Northwest Pipeline, Sumas (IFERC)     TCO—Columbia Gas Transmission Company (IFERC)     TETCO M3—Texas Eastern Transmission Corp M3 Zone (IFERC)     Texok—Natural Gas Pipeline Co of Americak TexOK (IFERC)     Trans Z6 NY—Transcontinenal Gas Pipeline, Zone 6 (NY) (IFERC)     Ventura—Northern Border Pipeline, Ventura (IFERC)			
(IFERC)  NGPC Mid Con—Natural Gas Pipeline Co of America (IFERC)  Panhandle—Panhandle Eastern Pipeline Co. (IFERC)  Permian—El Paso Natural Gas Co. Permian Basin Pool (IFERC)  PG&E Citygate—PG&E Citygate (IFERC)  Rockies—Northwest Pipeline, Rocky Mountain Pool (IFERC)  San Juan—El Paso Natural Gas Co. San Juan Basin Pool (IFERC)  San Juan—El Paso Natural Gas Co. San Juan Basin Pool (IFERC)  Socal—Socal Citygate (IFERC)  Sumas—Northwest Pipeline, Sumas (IFERC)  TCO—Columbia Gas Transmission Company (IFERC)  TETCO M3—Texas Eastern Transmission Corp M3 Zone (IFERC)  Texok—Natural Gas Pipeline Co of Americak TexOK (IFERC)  Trans Z6 NY—Transcontinenal Gas Pipeline, Zone 6 (NY) (IFERC)  Ventura—Northern Border Pipeline, Ventura (IFERC)  Waha—Waha Hub, West Texas (IFERC)  Settlement Currency:  Currency in which payments are made between the two counterparties:  USD  CAD (AECO only)  Notional amount, as agreed by counterparties.			
NGPC Mid Con—Natural Gas Pipeline Co of America (IFERC)     Panhandle—Panhandle Eastern Pipeline Co. (IFERC)     Permian—El Paso Natural Gas Co. Permian Basin Pool (IFERC)     PG&E Citygate—PG&E Citygate (IFERC)     Rockies—Northwest Pipeline, Rocky Mountain Pool (IFERC)     San Juan—El Paso Natural Gas Co. San Juan Basin Pool (IFERC)     San Juan—El Paso Natural Gas Co. San Juan Basin Pool (IFERC)     Socal—Socal Citygate (IFERC)     Socal—Socal Citygate (IFERC)     TCO—Columbia Gas Transmission Company (IFERC)     TETCO M3—Texas Eastern Transmission Corp M3 Zone (IFERC)     Texok—Natural Gas Pipeline Co of Americak TexOK (IFERC)     Trans Z6 NY—Transcontinenal Gas Pipeline, Zone 6 (NY) (IFERC)     Ventura—Northern Border Pipeline, Ventura (IFERC)     Ventura—Northern Border Pipeline, Ventura (IFERC)     Waha—Waha Hub, West Texas (IFERC)  Settlement Currency:  Currency in which payments are made between the two counterparties:     USD     CAD (AECO only)  Notional amount, as agreed by counterparties.			
Panhandle—Panhandle Eastern Pipeline Co. (IFERC)     Permian—El Paso Natural Gas Co. Permian Basin Pool (IFERC)     PG&E Citygate—PG&E Citygate (IFERC)     Rockies—Northwest Pipeline, Rocky Mountain Pool (IFERC)     San Juan— El Paso Natural Gas Co. San Juan Basin Pool (IFERC)     Socal—Socal Citygate (IFERC)     Socal—Socal Citygate (IFERC)     Sumas—Northwest Pipeline, Sumas (IFERC)     TCO—Columbia Gas Transmission Company (IFERC)     TETCO M3—Texas Eastern Transmission Corp M3 Zone (IFERC)     Texok—Natural Gas Pipeline Co of Americak TexOK (IFERC)     Trans Z6 NY—Transcontinenal Gas Pipeline, Zone 6 (NY) (IFERC)     Ventura—Northern Border Pipeline, Ventura (IFERC)     Ventura—Northern Border Pipeline, Ventura (IFERC)     Waha—Waha Hub, West Texas (IFERC)  Settlement Currency:  Currency in which payments are made between the two counterparties:     USD     CAD (AECO only)  Notional amount, as agreed by counterparties.			
Permian—El Paso Natural Gas Co. Permian Basin Pool (IFERC)     PG&E Citygate—PG&E Citygate (IFERC)     Rockies—Northwest Pipeline, Rocky Mountain Pool (IFERC)     San Juan— El Paso Natural Gas Co. San Juan Basin Pool (IFERC)     Socal—Socal Citygate (IFERC)     Sumas—Northwest Pipeline, Sumas (IFERC)     Sumas—Northwest Pipeline, Sumas (IFERC)     TCO—Columbia Gas Transmission Company (IFERC)     TETCO M3—Texas Eastern Transmission Corp M3 Zone (IFERC)     Texok—Natural Gas Pipeline Co of Americak TexOK (IFERC)     Trans Z6 NY—Transcontinenal Gas Pipeline, Zone 6 (NY) (IFERC)     Ventura—Northern Border Pipeline, Ventura (IFERC)     Ventura—Northern Border Pipeline, Ventura (IFERC)     Waha—Waha Hub, West Texas (IFERC)  Settlement Currency:  Currency in which payments are made between the two counterparties:     USD     CAD (AECO only)  Notional amount, as agreed by counterparties.		=	
PG&E Citygate—PG&E Citygate (IFERC)     Rockies—Northwest Pipeline, Rocky Mountain Pool (IFERC)     San Juan— El Paso Natural Gas Co. San Juan Basin Pool (IFERC)     Socal—Socal Citygate (IFERC)     Sumas—Northwest Pipeline, Sumas (IFERC)     TCO—Columbia Gas Transmission Company (IFERC)     TETCO M3—Texas Eastern Transmission Corp M3 Zone (IFERC)     Texok—Natural Gas Pipeline Co of Americak TexOK (IFERC)     Trans Z6 NY—Transcontinenal Gas Pipeline, Zone 6 (NY) (IFERC)     Ventura—Northern Border Pipeline, Ventura (IFERC)     Ventura—Waha Hub, West Texas (IFERC)  Settlement Currency:  Currency in which payments are made between the two counterparties:     USD     CAD (AECO only)  Notional amount, as agreed by counterparties.		•	
Rockies—Northwest Pipeline, Rocky Mountain Pool (IFERC)     San Juan—El Paso Natural Gas Co. San Juan Basin Pool (IFERC)     Socal—Socal Citygate (IFERC)     Sumas—Northwest Pipeline, Sumas (IFERC)     TCO—Columbia Gas Transmission Company (IFERC)     TETCO M3—Texas Eastern Transmission Corp M3 Zone (IFERC)     Texok—Natural Gas Pipeline Co of Americak TexOK (IFERC)     Trans Z6 NY—Transcontinenal Gas Pipeline, Zone 6 (NY) (IFERC)     Ventura—Northern Border Pipeline, Ventura (IFERC)     Ventura—Northern Border Pipeline, Ventura (IFERC)     Waha—Waha Hub, West Texas (IFERC)  Settlement Currency:  Currency in which payments are made between the two counterparties:     USD     CAD (AECO only)  Notional amount, as agreed by counterparties.			
San Juan— El Paso Natural Gas Co. San Juan Basin Pool (IFERC)     Socal—Socal Citygate (IFERC)     Sumas—Northwest Pipeline, Sumas (IFERC)     TCO—Columbia Gas Transmission Company (IFERC)     TETCO M3—Texas Eastern Transmission Corp M3 Zone (IFERC)     Texok— Natural Gas Pipeline Co of Americak TexOK (IFERC)     Trans Z6 NY—Transcontinenal Gas Pipeline, Zone 6 (NY) (IFERC)     Ventura—Northern Border Pipeline, Ventura (IFERC)     Ventura—Waha Hub, West Texas (IFERC)  Settlement Currency:  Currency in which payments are made between the two counterparties:     USD     CAD (AECO only)  Notional amount, as agreed by counterparties.			
Socal—Socal Citygate (IFERC)     Sumas—Northwest Pipeline, Sumas (IFERC)     TCO—Columbia Gas Transmission Company (IFERC)     TETCO M3—Texas Eastern Transmission Corp M3 Zone (IFERC)     Texok—Natural Gas Pipeline Co of Americak TexOK (IFERC)     Trans Z6 NY—Transcontinenal Gas Pipeline, Zone 6 (NY) (IFERC)     Ventura—Northern Border Pipeline, Ventura (IFERC)     Ventura—Northern Border Pipeline, Ventura (IFERC)     Waha—Waha Hub, West Texas (IFERC)  Settlement Currency:  Currency in which payments are made between the two counterparties:     USD     CAD (AECO only)  Quoting Convention and Minimum Increment:		•	
<ul> <li>Sumas—Northwest Pipeline, Sumas (IFERC)</li> <li>TCO—Columbia Gas Transmission Company (IFERC)</li> <li>TETCO M3—Texas Eastern Transmission Corp M3 Zone (IFERC)</li> <li>Texok—Natural Gas Pipeline Co of Americak TexOK (IFERC)</li> <li>Trans Z6 NY—Transcontinenal Gas Pipeline, Zone 6 (NY) (IFERC)</li> <li>Ventura—Northern Border Pipeline, Ventura (IFERC)</li> <li>Waha—Waha Hub, West Texas (IFERC)</li> </ul> Settlement Currency: <ul> <li>Currency in which payments are made between the two counterparties:</li> <li>USD</li> <li>CAD (AECO only)</li> </ul> Notional amount, as agreed by counterparties. Notional amount, as agreed by counterparties.		· · · ·	
• TCO—Columbia Gas Transmission Company (IFERC) • TETCO M3—Texas Eastern Transmission Corp M3 Zone (IFERC) • Texok— Natural Gas Pipeline Co of Americak TexOK (IFERC) • Trans Z6 NY—Transcontinenal Gas Pipeline, Zone 6 (NY) (IFERC) • Ventura—Northern Border Pipeline, Ventura (IFERC) • Waha—Waha Hub, West Texas (IFERC)  Settlement Currency:  Currency in which payments are made between the two counterparties: • USD • CAD (AECO only)  Notional amount, as agreed by counterparties.			
• TETCO M3—Texas Eastern Transmission Corp M3 Zone (IFERC) • Texok— Natural Gas Pipeline Co of Americak TexOK (IFERC) • Trans Z6 NY—Transcontinenal Gas Pipeline, Zone 6 (NY) (IFERC) • Ventura—Northern Border Pipeline, Ventura (IFERC) • Waha—Waha Hub, West Texas (IFERC)  Settlement Currency:  Currency in which payments are made between the two counterparties: • USD • CAD (AECO only)  Notional amount, as agreed by counterparties.		•	
<ul> <li>Texok— Natural Gas Pipeline Co of Americak TexOK (IFERC)</li> <li>Trans Z6 NY—Transcontinenal Gas Pipeline, Zone 6 (NY) (IFERC)</li> <li>Ventura—Northern Border Pipeline, Ventura (IFERC)</li> <li>Waha—Waha Hub, West Texas (IFERC)</li> </ul> Settlement Currency: <ul> <li>Currency in which payments are made between the two counterparties:</li> <li>USD</li> <li>CAD (AECO only)</li> </ul> Notional amount, as agreed by counterparties. Notional amount, as agreed by counterparties.		<u> </u>	
<ul> <li>Trans Z6 NY—Transcontinenal Gas Pipeline, Zone 6 (NY) (IFERC)</li> <li>Ventura—Northern Border Pipeline, Ventura (IFERC)</li> <li>Waha—Waha Hub, West Texas (IFERC)</li> <li>Settlement Currency:</li> <li>Currency in which payments are made between the two counterparties:         <ul> <li>USD</li> <li>CAD (AECO only)</li> </ul> </li> <li>Quoting Convention and Minimum Increment:</li> </ul>			
(IFERC)  • Ventura—Northern Border Pipeline, Ventura (IFERC)  • Waha—Waha Hub, West Texas (IFERC)  Currency in which payments are made between the two counterparties:  • USD  • CAD (AECO only)  Notional amount, as agreed by counterparties.		*	
• Ventura—Northern Border Pipeline, Ventura (IFERC) • Waha—Waha Hub, West Texas (IFERC)  Settlement Currency:  Currency in which payments are made between the two counterparties: • USD • CAD (AECO only)  Notional amount, as agreed by counterparties.		•	
• Waha—Waha Hub, West Texas (IFERC)  Settlement Currency:  Currency in which payments are made between the two counterparties:  • USD  • CAD (AECO only)  Notional amount, as agreed by counterparties.		` '	
Currency in which payments are made between the two counterparties:  • USD  • CAD (AECO only)  Quoting Convention and Minimum Increment:  Notional amount, as agreed by counterparties.		-	
USD     CAD (AECO only)  Quoting Convention and Minimum Increment:  Notional amount, as agreed by counterparties.		Waha—Waha Hub, West Texas (IFERC)	
• CAD (AECO only)  Quoting Convention and Minimum  Increment:  • CAD (AECO only)  Notional amount, as agreed by counterparties.	Settlement Currency:	Currency in which payments are made between the two counterparties:	
Quoting Convention and MinimumNotional amount, as agreed by counterparties.Increment:		• USD	
Increment:		CAD (AECO only)	
	Quoting Convention and Minimum	Notional amount, as agreed by counterparties.	
Minimum Size: Notional amount, as agreed by counterparties.	Increment:		
	Minimum Size:	Notional amount, as agreed by counterparties.	

## Natural Gas Date/Instrument Spread Contracts

Notional Currency:	Currency in which payments are made between the two counterparties:
	• USD
	CAD (AECO only)
Trading Conventions:	Buy or Sell on the near leg and Buy or Sell on the far leg.
	These would be reversed so that if the first leg is buying the second leg
	must be selling, for instance.
Calculation Periods:	Two calculation periods – one for each leg of the spread.
	A single date or date range over which the reference price of the
	commodity will be calculated.
	If a date range the reference price will be averaged across the days,
	contracts or publication source issues as agreed by the counterparties.
Settlement Date(s):	Specified settlement or payment date when the floating amounts are
	exchanged.
Settlement Procedure:	Bilateral cash settlement performed in settlement currency.

## Natural Gas – Financial Basis Swap Contracts

Summary:	This covers "Natural Gas – Financial Basis Swap Contracts".
-	A natural gas financial basis swap contract is a cash settled agreement between two
	counterparties whereby one counterparty agrees to pay a floating amount to the
	other counterparty on a given date(s), which floating amount is calculated based on
	the reported price for natural gas at a given hub, and in exchange, the second
	counterparty will pay a floating amount to the first counterparty on the same given
	date(s) based on the maturity price of a natural gas futures contract tied to a
	different hub.
	The floating amounts paid are determined based on the notional quantity and, in the
	case of the first floating amount, the price of natural gas a stated hub published by
	one of a series of industry publications and, in the case of the second floating
	amount, an applicable futures contract based on the reference commodity.
Publication Sources:	·
r ublication Sources:	CGPR—Canadian Gas Price Reporter  On Different Plant Control Price Reporter  On Different Plant Control Price Reporter
	Gas Daily—Platt's Gas Daily's Daily Report
	IFERC—Platt's Inside FERC Gas Market Reporter
	NGI—Natural Gas Intelligence's Bidweek Survey
	The floating amount can be based on the price for a given period in a given issue of
	the Publication Source (e.g., monthly based on the first issue of the month) or an
	average of prices (e.g., average of weekly bid prices for each weekly issue), as
	agreed by the parties.
Reference Commodities:	AECO—Alberta Energy Co. (CGPR)
	ALG—Algonquin Energy Co. (IFERC)
	Chicago—Chicago City Gate (IFERC)
	CIG—Colorado Interstate Gas, North Mainline (IFERC)
	DOM—Dominion Transmission Co. (IFERC)
	HSC—Houston Ship Channel (IFERC)
	Malin—Pacific Gas Transmission Co., Malin (IFERC)
	Michigan—Michigan Consolidated Gas Company Citygate (IFERC)  NGPG Mid G. Die Finder G. G. Scholie (IFERC)  NGPG Mid G. Die Finder G. G. Scholie (IFERC)
	NGPC Mid Con—Natural Gas Pipeline Co of America (IFERC)
	Panhandle—Panhandle Eastern Pipeline Co. (IFERC)
	Permian—El Paso Natural Gas Co. Permian Basin Pool (IFERC)
	PG&E Citygate—PG&E Citygate (IFERC)
	Rockies—Northwest Pipeline, Rocky Mountain Pool (IFERC)
	San Juan— El Paso Natural Gas Co. San Juan Basin Pool (IFERC)
	Socal—Socal Citygate (IFERC)
	Sumas—Northwest Pipeline, Sumas (IFERC)
	TCO—Columbia Gas Transmission Company (IFERC)
	TETCO M3—Texas Eastern Transmission Corp M3 Zone (IFERC)
	Texok— Natural Gas Pipeline Co of Americak TexOK (IFERC)
	Trans Z6 NY—Transcontinenal Gas Pipeline, Zone 6 (NY) (IFERC)  Trans Z6 NY—Transcontinenal Gas Pipeline, Zone 6 (NY) (IFERC)
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Caratana atau an Dafanana	Waha—Waha Hub, West Texas (IFERC)  NAME OF THE
Contracts on Reference	NYMEX Henry Hub Natural Gas (Index Swap Future) Last Day Settlement
Commodities:	For transactions where the settlement currency is CAD, this price will be converted
	to CAD at then-current spot.
Settlement Currency:	Currency in which payments are made between the two counterparties:
	• USD
	CAD (AECO only)

<b>Quoting Convention</b>	Notional amount, as agreed by counterparties.	
and Minimum		
Increment:		
Minimum Size:	Notional amount, as agreed by counterparties.	
Notional Currency:	Currency in which the fixed and floating prices are quoted:	
	• USD	
	CAD (AECO only)	
Trading Conventions:	Buy or Sell which refers to whether or not the non-futures based floating amount is	
	paid (buy) or received (sell).	
Calculation Period:	A single date or date range over which the reference price of the commodity will be	
	calculated.	
	If a date range the reference price will be averaged across the days, contracts or	
	Publication Source issues as agreed by the counterparties.	
Trade Date:	The date on which counterparties enter into the contract.	
Settlement Date(s):	Specified settlement or payment date(s) when the fixed payment amount and the	
	floating payment amount are exchanged (can be netted).	
Settlement Procedure:	Bilateral cash settlement performed in settlement currency.	

## Natural Gas – Fixed/Floating Swap Contracts

Summary:	This covers "Natural Gas – Fixed/Floating Swap Contracts".
	A fixed/floating natural gas swap contract is a cash settled agreement between
	two counterparties whereby one counterparty agrees to pay a fixed amount to
	the other counterparty on a given date, and in exchange the second counterparty
	will pay a floating amount to the first counterparty on the same given date.
	The fixed amount paid is determined based on the notional quantity traded and
	the price of the reference commodity.
	The floating amount paid is determined based on the notional quantity and the
	price of an applicable futures contract based on the reference commodity over
	an agreed future calculation period.
Reference Commodities:	Henry Hub Natural Gas
	Waha Natural Gas
	Permian Natural Gas Basis Swap
	TTF Natural Gas
Contracts on Reference	NYMEX Henry Hub Natural Gas (Index Swap Future)
Commodities:	NYMEX Waha Natural Gas Basis Swap
	NYMEX Permian Natural Gas Basis Swap
	• ICE TTF Natural Gas (Monthly)
Settlement Currency:	Currency in which payments are made between the two counterparties:
	• USD (Other than TTF)
	• EUR (TTF)
Quoting Convention and	Notional amount, as agreed by counterparties
Minimum Increment:	
Minimum Size:	Notional amount, as agreed by counterparties
Notional Currency:	Currency in which the fixed and floating prices are quoted:
	• USD (Other than TTF)
	• EUR (TTF)
Trading Conventions:	Buy or Sell which refers to whether or not the fixed amount is paid (buy) or
_	received (sell).
Calculation Periods:	A single date or date range over which the reference price of the commodity will
	be calculated.
	If a date range the reference price will be averaged across all days.
Trade Date:	The date on which counterparties enter into the contract.
Settlement Date(s):	Specified settlement or payment date when the fixed payment amount and the
	floating payment amount are exchanged (can be netted).
Settlement Procedure:	Bilateral cash settlement performed in settlement currency.
	The contracts settle on both the NYMEX Last Day and NYMEX Penultimate
	publications.

### Natural Gas – Swing Swap Contracts

Summary:	This covers "Natural Gas – Swing Swap Contracts".
	A natural gas swing swap contract is a cash settled agreement between two
	counterparties whereby one counterparty agrees to pay a floating amount to the
	other counterparty on a given date(s), which floating amount is calculated
	based on the daily reported price for natural gas at a given hub, and in
	exchange the second counterparty will pay a floating amount to the first
	counterparty on the same given date(s) based on the price at the same hub
	reported for a different period (e.g., weekly or monthly).
	The floating amounts paid are determined based on the notional quantity and,
	in the case of the first floating amount, the daily price of natural gas a stated
	hub published by one of a series of industry publications and, in the case of the
	second floating amount, a price of natural gas the same hub published with
Dublication Courses (Non Daily).	respect to a different periodicity.
Publication Sources (Non-Daily):	CGPR—Canadian Gas Price Reporter  WEDG: Plant I FERG Go Mark Property  The Company of the C
	IFERC—Platt's Inside FERC Gas Market Reporter  NOLL No. 1 Co.
	NGI—Natural Gas Intelligence's Bidweek Survey  The flection around on the price for a given posited in a given.
	The floating amount can be based on the price for a given period in a given
	issue of the Publication Source (e.g., monthly based on the first issue of the
	month) or an average of prices ( <i>e.g.</i> , average of weekly bid prices for each weekly issue), as agreed by the parties.
Publication Sources (Daily):	Gas Daily –Platt's Gas Daily's Daily Report
Reference Commodities and Non-	1777
Daily Publication Source:	
Daily I dolleation Source.	ALG—Algonquin Energy Co. (IFERC)     Chicago, Chicago City Cata (IFERC)
	Chicago—Chicago City Gate (IFERC)      CIC. Coloreda Internetas Con North Mainline (IFERC)
	CIG—Colorado Interstate Gas, North Mainline (IFERC)      DOM Daminian Transmission Co. (IFERC)
	DOM—Dominion Transmission Co. (IFERC)      William Change (IFERC)      William Change (IFERC)
	HSC—Houston Ship Channel (IFERC)  Mulic (HEERC)
	Malin—Pacific Gas Transmission Co., Malin (IFERC)  Milling Gas Transmission Co., Malin (IFERC)
	Michigan—Michigan Consolidated Gas Company Citygate (IFERC)  NGDG Mild Gas Novel and Gas Company Citygate (IFERC)  NGDG Mild Gas Novel and Gas Company Citygate (IFERC)  NGDG Mild Gas Novel and Gas Company Citygate (IFERC)  NGDG Mild Gas Company Citygate (IFERC)
	NGPC Mid Con—Natural Gas Pipeline Co of America (IFERC)      NGPC Mid Con—Natural Gas Pipeline Co of America (IFERC)
	Panhandle—Panhandle Eastern Pipeline Co. (IFERC)  Panhandle—Panhandle Eastern Pipeline Co. (IFERC)  Panhandle—Panhandle Eastern Pipeline Co. (IFERC)
	Permian—El Paso Natural Gas Co. Permian Basin Pool (IFERC)  PC
	PG&E Citygate—PG&E Citygate (IFERC)  Political Citygate (IFERC)
	Rockies—Northwest Pipeline, Rocky Mountain Pool (IFERC)      Roc
	San Juan— El Paso Natural Gas Co. San Juan Basin Pool (IFERC)      (IFERC)
	Socal—Socal Citygate (IFERC)  Output  Description:  Output  D
	Sumas—Northwest Pipeline, Sumas (IFERC)  THE CONTROL OF THE PROPERTY OF T
	TCO—Columbia Gas Transmission Company (IFERC)  TENTO NO. 10 To The Company (IFERC)  TO THE COMPANY (IFERC)
	TETCO M3—Texas Eastern Transmission Corp M3 Zone (IFERC)  The state of the sta
	Texok— Natural Gas Pipeline Co of Americak TexOK (IFERC)
	• Trans Z6 NY—Transcontinenal Gas Pipeline, Zone 6 (NY) (IFERC)
	Ventura—Northern Border Pipeline, Ventura (IFERC)  W. J. W. W. J. W. W. J. W. W. J. W
g at a c	Waha—Waha Hub, West Texas (IFERC)
Settlement Currency:	Currency in which payments are made between the two counterparties:
	• USD
On the Comment	CAD (AECO only)  N. Grand A.
Quoting Convention and	Notional amount, as agreed by counterparties.
Minimum Increment: Minimum Size:	Notional amount, as agreed by countarmenties
winninum Size:	Notional amount, as agreed by counterparties.

# $Natural\ Gas-Swing\ Swap\ Contracts$

Notional Currency:	Currency in which the fixed and floating prices are quoted:	
	• USD	
	CAD (AECO only)	
Trading Conventions:	Buy or Sell which refers to whether or not the non-daily price based floating	
	amount is paid(buy) or received (sell).	
Calculation Period:	The reference price may be averaged across the days, contracts or publication	
	source issues as agreed by the counterparties.	
Trade Date:	The date on which counterparties enter into the contract.	
Settlement Date(s):	Specified settlement or payment date(s) when the fixed payment amount and	
	the floating payment amount are exchanged (can be netted).	
Settlement Procedure:	Bilateral cash settlement performed in settlement currency.	

## Non-Deliverable Swaps

Summary:	This covers non-deliverable single-currency swaps
Summary.	("Non-Deliverable Single-Currency Swaps") and non-
	deliverable cross-currency swaps ("Non-Deliverable
	Cross-Currency Swaps" and, together with Non-
	Deliverable Single-Currency Swaps, "Non-Deliverable
	Swaps").
Limitations on Available Selections and Default	The terms under which Non-Deliverable Single-
Settings:	Currency Swaps and Non-Deliverable Cross-Currency
	Swaps may be traded are as specified in these terms and
	conditions or in the attached tables.
	For amounts or rates, the relevant term cannot be less
	than the specified Minimum, must represent an even
	Increment and cannot exceed the Maximum; for a date,
	the date cannot be earlier than Earliest nor later than
	Latest.
	For Business Days, the defaults shall be the locations
	specified.
	The parties may add additional locations from the
	Available Locations and may eliminate some or all of
	the other locations, so long as there is at least one
	location in which payment may be made.
	For these purposes "TARGET" is considered a location.
	In many cases there are normal "vanilla" terms on which
	the parties will transact.
	These are shown as "Default" and will apply unless the
Incorporated Standards:	parties vary them.  This contract description incorporates by reference the
incorporated Standards:	following industry standard documentation and
	standards:
	(a) 2006 ISDA Definitions (including Supplement 31
	thereto);
	(b) ISDA OTC Taxonomies;
	(c) FpML Location Codes;
	(d) the ISDA/EMTA 1998 FX and Currency Option
	Definitions ("1998 Definitions");
	(e) the EMTA Non-Deliverable Forward Templates;
	(f) the EMTA-ISDA Market Practice for Non-
	Deliverable CLP "Cámara" (CLP TNA) Interest
	Rate Swap Transactions ("CLP TNA Best
	Practices");
	(g) the Recommended EMTA-ISDA Market Practice
	for BRL CDI Non-Deliverable Interest Rate Swap
	Transactions (Amended March 13, 2009) ("BRL
	CDI Best Practices");
	(h) The current ISDA Revised Non-Deliverable Swap
	Transaction Standard Terms Supplement ("Asian
	Transaction Standard Terms Supplement ("Asian STS"); and
	Transaction Standard Terms Supplement ("Asian STS"); and (i) The current ISDA Non-Deliverable Swap
	Transaction Standard Terms Supplement ("Asian STS"); and (i) The current ISDA Non-Deliverable Swap Transaction Fallback Matrix (the "Asian Matrix,"
	Transaction Standard Terms Supplement ("Asian STS"); and (i) The current ISDA Non-Deliverable Swap

	For convenience, certain terms are mapped to their
	FpML 5.5 equivalent.
Product Type/ISDA OTC Taxonomy:	
ISDA OTC Asset Class:	Interest Rate
ISDA OTC Base Product:	IR Swap
ISDA OTC Sub-Product:	Exotic
Further Limitations:	None
Terms:	
Settlement Currency:	With respect to Non-Deliverable Single-Currency
	Swaps, USD.
	With respect to any Non-Deliverable Cross-Currency Swap, for any currency pair selected by the parties from
	among those specified in the list of Available Currency
	Pairs, the currency specified as such in that list.
Index Currency:	With respect to any Non-Deliverable Single-Currency
mach currency.	Swaps, the currency elected by the parties from among
	those specified in the list of Available Single Currencies.
	With respect to any Non-Deliverable Cross-Currency
	Swaps, for any currency pair selected by the parties from
	among those specified in the list of Available Currency
	Pairs, the currency specified as such in that list.
Effective Date ("effectiveDate"):	The date specified by the parties, adjusted in accordance
	with any applicable Business Day Convention.
	The parties may express the unadjusted Effective Date as
	a number of Business Days or Banking Days from the
Effect's Data Burkers Data	Trade Date ("relativeEffectiveDate").
Effective Date Business Days:	As specified by the parties from among the Available
Effective Date Business Day Convention:	Business Days.  As specified by the parties from among the Available
Effective Date Business Day Convention.	Business Day Conventions.
Termination Date ("terminationDate"):	The date specified by the parties, adjusted in accordance
	with any applicable Business Day Convention.
	The parties may express the unadjusted Termination
	Date as a number of days, months or years from the
	Effective Date ("relativeTerminationDate").
Termination Date Business Day Convention:	As specified by the parties from among the Available
	Business Day Conventions.
FX Rate:	The amount of Index Currency corresponding to one unit
	of the Settlement Currency.
	The FX Rate will be determined on the date determined
	as specified for the relevant Available Single Currency
	or Available Currency Pair and in accordance:  (a) in the case of Index Currencies not identified as
	subject to Asian Terms, with the specified NDF
	Template and Rate Sources and Fallback Rates, treating
	the scheduled date of determination of the FX Rate as
	the "Valuation Date" under the NDF Template; and
	(b) in the case of Index Currencies identified as subject
	to Asian Terms, in accordance with the Asian Terms.
Fixed Amount:	
Fixed Rate Payer ("payerPartyReference"):	As specified by the parties.
Currency Amount ("notional"):	For any Non-Deliverable Single-Currency Swap
	Transaction or for any Non-Deliverable Cross-Currency
	Swap Transaction involving ARS or PEN, an amount in
	the Index Currency agreed by the parties.

	For any other Non-Deliverable Cross-Currency Swap
	Transaction, an amount in the Index Currency or
	Settlement Currency agreed by the parties.
Fixed Amount:	If the Currency Amount is denominated in the
Tixed Amount.	Settlement Currency, an amount calculated in
	accordance with the 2006 ISDA Definitions.
	If the Currency Amount is not denominated in the
	Settlement Currency and the Index Currency is not
	identified as being subject to Asian Terms, then
	notwithstanding anything to the contrary contained in the 2006 ISDA Definitions, the Fixed Amount shall
	· · · · · · · · · · · · · · · · · · ·
	equal an amount in the Settlement Currency equal to:
$FX$ Rate $\times$ F	ixed Rate $\times$ Currency Amount $\times$ Day Count Fraction
	If the Currency Amount is not denominated in the
	Settlement Currency and the Index Currency is
	identified as being subject to Asian Terms, then the
	Fixed Amount shall be calculated in accordance with the
	Asian Terms.
Fixed Rate Period End Dates:	As specified by the parties, subject to adjustment in
	accordance with any Fixed Rate Payer Period End Date
	Business Day Convention.
Fixed Rate Payer Period End Date Business Days:	If a Fixed Rate Payer Period End Date Business Day
	Convention is applicable, as specified by the parties
	from among the Available Business Days.
Fixed Rate Payer Payment Date Day Convention:	As specified by the parties from among the Available
	Business Day Conventions.
	If "No Adjustment" is specified, then the Fixed Rate
	Payer Period End Dates will not be adjusted.
Fixed Rate Payment Dates:	As specified by the parties, subject to adjustment in
	accordance with the Fixed Rate Payer Payment Date
	Business Day Convention.
Fixed Rate Payer Payment Date Business Days:	As specified by the parties from among the Available
	Business Days.
Fixed Rate Payer Payment Date Day Convention:	As specified by the parties from among the Available
	Business Day Conventions.
Day Count Fraction:	As specified by the parties from among the Available
	Day Count Fractions.
Floating Amount:	
Floating Rate Payer ("payerPartyReference"):	As specified by the parties.
Currency Amount ("notional"):	For any Non-Deliverable Single-Currency Swap
	Transaction, an amount in the Index Currency agreed by
	the parties.
	For any Non-Deliverable Cross-Currency Swap, an
	amount in the Settlement Currency agreed by the parties.
	For any other Non-Deliverable Cross-Currency Swap, an
	amount agreed by the parties in whichever of the Index
	Currency or Settlement Currency is not the currency in
	which the Fixed Rate Payer Currency Amount is
	denominated.
Floating Amount:	If the Currency Amount is denominated in the
	Settlement Currency, an amount calculated in
	accordance with the 2006 ISDA Definitions.
	If the Currency Amount is denominated in BRL, then
	notwithstanding anything to the contrary contained in
	the 2006 ISDA Definitions, the Floating Amount shall

	1 1 1 1 1 1 C 1 1 D C 1 CDDI
	be calculated as set forth under Definition of BRL
	Floating Rate Option.
	If the Currency Amount is not denominated in the
	Settlement Currency or BRL and the Index Currency is
	not identified as being subject to Asian Terms, then
	notwithstanding anything to the contrary contained in
	the 2006 ISDA Definitions, the Floating Amount shall
	equal an amount in the Settlement Currency equal to:
FX Rate $\times$ Currency Amount $\times$ (Floating	$Rate + Spread) \times Floating Rate Day Count Fraction$
	If the Currency Amount is not denominated in the
	Settlement Currency and the Index Currency is
	identified as being subject to Asian Terms, then the
	Floating Amount shall be calculated in accordance with
	the Asian Terms.
Floating Rate Option:	For the relevant Currency, as selected by the parties
	from among the Available Floating Rate Options for
	such Currency.
Designated Maturity ('indexTenor"):	As specified by the parties from among the available
	tenors.
Spread:	As specified by the parties.
Reset Dates ("resetDate"):	As specified by the parties.
Reset Dates Business Days:	As specified by the parties from among the Available
·	Business Days, subject to any Required Business Days.
Reset Dates Business Day Convention:	As specified by the parties from among the Available
·	Business Day Conventions.
Floating Rate Period End Dates:	As specified by the parties, subject to adjustment in
	accordance with any Floating Rate Payer Period End
	Date Business Day Convention.
Floating Rate Payer Period End Date Business Days:	If a Floating Rate Payer Period End Date Business Day
	Convention is applicable, as specified by the parties
	from among the Available Business Days.
Floating Rate Payer Payment Date Day Convention:	As specified by the parties from among the Available
	Business Day Conventions.
	If "No Adjustment" is specified, then the Floating Rate
	Payer Period End Dates will not be adjusted.
Floating Rate Payment Dates:	As specified by the parties, subject to adjustment in
1 Towning Time I wy meno 2 wees.	accordance with the Floating Rate Payer Payment Date
	Business Day Convention.
Floating Rate Payer Payment Date Business Days:	As specified by the parties from among the Available
Trouting rate rayer rayment bate business bays.	Business Days.
Floating Rate Payer Payment Date Day Convention:	As specified by the parties from among the Available
Troums Rule Tuyer Tuyment Dute Duy Convention.	Business Day Conventions.
Day Count Fraction:	As specified by the parties from among the Available
Day Count Fraction.	Day Count Fractions.
Compounding:	As specified by the parties.
Method of Averaging:	As specified by the parties.
Final Exchange:	
Final Exchange Date:	As specified by the parties.
Final Exchange Business Days:	As specified by the parties from among the Available
That Enclude Dublicoo Days.	Business Days.
Final Exchange Business Day Convention:	As specified by the parties from among the Available
i mai Exchange Business Day Convention.	Business Day Conventions.
Fixed Rate Payer Final Exchange Amount:	If the Fixed Rate Payer Final Exchange Amount is
Trace Nate I ayer I mai Exchange Amount.	denominated in the Settlement Currency, the Fixed Rate
	Payer Final Exchange Amount.
	1 ayer Finai Exchange Amount.

	If the Fixed Rate Payer Final Exchange Amount is
	denominated in the Index Currency and the Index
	Currency is not identified as being subject to Asian
	Terms, an amount in the Settlement Currency equal to:
FX Rate × Currency Amount	
	If the Fixed Rate Payer Final Exchange Amount is not
	denominated in the Settlement Currency and the Index
	Currency is identified as being subject to Asian Terms,
	then the Fixed Rate Payer Final Exchange Amount shall
	be calculated in accordance with the Asian Terms.
Floating Rate Payer Final Exchange Amount:	If the Floating Rate Payer Final Exchange Amount is
	denominated in the Settlement Currency, the Floating
	Rate Payer Final Exchange Amount.
	If the Floating Rate Payer Final Exchange Amount is
	denominated in the Index Currency and the Index
	Currency is not identified as being subject to Asian
	Terms an amount in the Settlement Currency equal to:
$FX$ Rate $\times$ Currency Amount	
	If the Floating Rate Payer Final Exchange Amount is not
	denominated in the Settlement Currency and the Index
	Currency is identified as being subject to Asian Terms,
	then the Floating Rate Payer Final Exchange Amount
	shall be calculated in accordance with the Asian Terms.

### Non-Deliverable Swap Settlement Currencies and Required Business Days

Three Letter Currency Code (ISDA/ISO)	Currency Name (ISDA)	Basic Business Day Locations For Currency (FpML Codes)
USD	United States Dollars	USNY

### Non-Deliverable Swap Available Currencies

Index Currency	NDF Template	Rate Source	Fallback Rate	Determination	Business Days
			Source(s) (in	Date	
			order)		
INR	N/A	N/A	N/A	N/A	INMU
MYR	N/A	N/A	N/A	N/A	MYKL
THB	N/A	N/A	N/A	N/A	THBA

### Non-Deliverable Cross-Currency Swap Available Currency Pairs

Index	Settlement	NDF	Rate Source	Fallback Rate	Determination	Business
Currency	Currency	Template		Source(s) (in	Date	Days
				order)		
ARS	USD	17 May 06	ARS03	ARS04	Payment – 2	ARBA
					BD	USNY
BRL	USD	17 May 06	BRL09	BRL12,	Payment – 2	USNY and
				BRL13	BD	any of
						BR{SP,RJ,
						BR}
CLP	USD	01 Aug 06	CLP10	CLP11	Payment – 2	CLSA
					BD	USNY
COP	USD	01 Aug 06	COP02	COP03	Payment – 2	USNY
					BD	COBO

PEN	USD	03 Dec 07	PEN05	PEN04	Payment – 2	USNY
					BD	PELI

### Applicability of Asian Terms

Index Currency	Asian Terms
ARS	Not Applicable
BRL	Not Applicable
CLP	Not Applicable
COP	Not Applicable
INR	Applicable
MYR	Applicable
PEN	Not Applicable
THB	Applicable

### Non-Deliverable Swap Floating Rate Options

Index Currency	Floating Rate Option	Defined In	Business Days
ARS	Not Applicable—Fixed Leg ONLY		ARBA
BRL	BRL-CDI-CETIP	See below	USNY and any of
			$BR{SP,RJ,BR}$
CLP	CLP-Indice Cámara	CLP TNA Best Practices	USNY
	Promedio (ICP)		CLSA
CLP	CLP-Unidad de Fomentos	See below	USNY
	(UF/CLF)		CLSA
COP	COP-IBR-OIS-	ISDA 2006	USNY
	COMPOUND		COBO
COP	COP-Unidad de Valor Real	See below	USNY
	(UVR)		COBO
INR	INR-FBIL-MIBOR-OIS-	ISDA 2006	INMU
	COMPOUND		
INR	INR-MITOR-OIS-	ISDA 2006	INMU
	COMPOUND		
MYR	MYR-KLIBOR-BNM	ISDA 2006	MYKL
PEN	Not Applicable—	Fixed Leg ONLY	USNY
			PELI
THB	THB-THBFIX-Reuters	ISDA 2006	THBA
USD	Any USD Floating Rate	See tpSEF's Fixed/Floating	See tpSEF's
	Option available under	Swap Listing	Fixed/Floating Swap
	tpSEF's Fixed/Floating		Listing
	Swap Listing		

## Definition of BRL Floating Rate Option

Floating Amount:	Notwithstanding anything to the contrary	
$FX\ Rate \times Currency\ Amount \times \left[\prod_{j=1}^{N} \left(1 + \frac{Relevant\ Rate_{j}}{252}\right) - 1\right]^{252/N}$		
	Where:	
<i>N</i> =number of Reset Dates in the Calculation Period		
j=a particular Reset Date		
	Relevant Rate=the Relevant Rate for instance j of Reset Date	
BRL-CDI-CETIP:	For any Reset Date, the Overnight Brazilian Interbank Deposit	

BRL-CDI-Reference Dealers:	Rate Annualized, known as the average ("Media") of the DIOVER- EXTRA Group as published by CETIP ( <i>Câmara de Custódia e Liquidação</i> ) (the "Overnight CDI Rate") for such date; provided that (i) such rate is published not later than 12:00 p.m. on the Brazil Business Day next following such Reset Date and (ii) any adjustments made by CETIP to such rate at any time later than the end of the business day on such Reset Date shall not be taken into account.  If for any Reset Date there is no published Overnight CDI Rate (including as a result of the proviso above), CDI for the relevant Reset Date will be the overnight deposit rate published for such date by the BM&F in accordance with its rules (see http://www.bmf.com.br/portal/pages/boletim1/bd_manual/indica doreFinanceiros1.asp, or any successor page).  If the BM&F does not publish such a rate for such date, CDI for the relevant Reset Date shall be determined jointly by the parties.  If the parties do not agree on a determination of such rate within one Brazil Business Day following the relevant Reset Date, CDI shall be determined through a CDI Reference Dealer Poll as described herein.  If CDI for a Reset Date is not so determined by a CDI Reference Dealer Poll, BRL-CDI-Reference Dealers shall apply.  If applicable for a Reset Date as set forth above, the Calculation Agent shall conduct up to four dealer polls commencing on the
	Days).  If four quotations are not obtained from any of such four polls, CDI shall CDI shall not be determined by a CDI Reference Dealer Poll.
CDI Reference Dealers:	At least six and not more than eight leading onshore dealers in the CDI market selected by the Calculation Agent.
Reset Dates ("resetDate"):	Each Scheduled Reset Date (as defined in the BRL CDI Best Practices).
Reset Dates Business Days:	As specified by the parties from among the Available BR Business Days.
Available BR Business Days:	Any of BR{SP,RJ, BR} and not otherwise declared a financial market holiday by the BM&F.

### Definition of CLP-Unidad de Fomento (UF/CLF)

CLP- <i>Unidad de Fomento (UF/CLF)</i> :	For any Reset Date, the difference between the value of the	
	unidad de fomento (UF/CLF) as certified by the Chilean Banco	

Central de Chile for the calendar day preceding such Reset
Date and the value of the <i>unidad de fomento (UF/CLF)</i> as
certified by the Chilean Banco Central de Chile for such Reset
Date.
The Calculation Agent shall convert such difference to the
appropriate annualized percentage based on the terms of the
Floating Amount payable by reference to the CLP- <u>Unidad de</u>
Fomento (UF/CLF).
If for any Reset Date there is no published value of the <i>unidad</i>
de fomento (UF/CLF) as certified by the Chilean Banco
Central de Chile, the Calculation Agent shall determine the
CLP- <u>Unidad de Fomento (UF/CLF)</u> for such day.

### Definition of COP-Unidad de Valor Real (UVR)

COP- <u>Unidad de Valor Real (UVR)</u> :	For any Reset Date, the difference between the value of the unidad de valor real (UVR) as certified by the Colombian Banco de Republica for the calendar day preceding such Reset Date and the value of unidad de valor real (UVR) as certified by the Colombian Banco de Republica for such Reset Date. The Calculation Agent shall convert such difference to the appropriate annualized percentage based on the terms of the Floating Amount payable by reference to the COP- <u>Unidad de Valor Real (UVR)</u> . If for any Reset Date there is no published the difference between the value of the unidad de valor real (UVR) as certified by the Colombian Banco de Republica, the Calculation Agent shall determine the COP-Unidad de Valor
	Real (UVR) for such day.

### Non-Deliverable Swap Available Day Count Fractions

ISDA Name	
1/1	
30/360, 360/360, Bond Basis	
Actual/360	
Actual/365 (Fixed), Act/365 (Fixed), A/365 (Fixed), A/365F	
Actual/Actual, Actual/Actual (ISDA), Act/Act, Act/Act (ISDA)	
Actual/Actual (ICMA), Act/Act, Act/Act (ICMA)	

### Non-Deliverable Swap Available Business Day Conventions

ISDA Name
Following
Modified/Modified Following
No Adjustment
Preceding
FRN Convention/Eurodollar Convention

### Non-Deliverable Single-Currency Swap Notional Amounts

Currency	Minimum	Increment
INR	5,000,000	100,000
MYR	5,000,000	100,000
RHB	5,000,000	100,000

### Non-Deliverable Cross-Currency Swap Notional Amounts

Currency	Minimum	Increment	
ARS	As implied by the USD minimum	As implied by the USD increment	
BRL	As implied by the USD minimum	As implied by the USD increment	
CLP	As implied by the USD minimum	As implied by the USD increment	
COP	As implied by the USD minimum	As implied by the USD increment	
PEN	As implied by the USD minimum	As implied by the USD increment	
USD	1,000,000	100,000	

## Non-Deliverable Foreign Exchange Options

Summary:	This covers "Non-Deliverable Foreign Exchange Options".	
Incorporated Standards:	This contract description incorporates by reference the following industry standard documentation and standards:	
	(a) the 1998 FX and Currency Option Definitions, as amended and supplemented from time to time, including the 2005 Barrier Option Supplement to the 1998 FX and Currency Option Definitions (the "1998 Definitions");	
	(b) the current EMTA Template Terms for Non-Deliverable Currency Option Transactions applicable to the Reference Currency and Settlement Currency (to the extent available for a particular Currency Pair) (available at: https://www.emta.org/ndftt.aspx); and	
	(c) ISDA OTC Taxonomies.	
Contract Types:	Each Non-Deliverable Foreign Exchange Option traded is bespoke and the terms agreed between the Buyer and Seller. All option strategies result in call options and/or put options executed with the following strategies traded as agreed between the parties:	
	Vanilla: Outright Call / Put, Straddle, Strangle, Butterfly, Risk Reversal, Calendar (tenor) spread, Cross Currency Spread, Condor, Call Spread, Put Spread, Live Trading with no delta hedge.	
	Exotic: Barriers, Baskets, Digitals (or Binary), Knockins, Knockouts, Reverse Knockins/Kockouts, No Touch, Double No Touch, Average Price, Worst of Options, Compound Options; trades may be with or without delta hedges and some structures may also be bilaterally negotiated with additional options as part of the package to form a vega hedge.	
Product Type/ISDA OTC Taxonomy:		
ISDA OTC Asset Class:	Foreign Exchange	
ISDA OTC Base Product:	Vanilla Option, NDO, Simple Exotic or Complex Exotic	
Terms:		
Trade Date:	The date the transaction is agreed between and becomes legally binding on the parties.	
Commencement Date:	The Trade Date, unless otherwise specified by the parties. This applies only where the Currency Option Style is American.	
Buyer:	As specified by the parties.	
Seller:	As specified by the parties.	

Currency Option Style:	As specified by the parties.		
	(An American option can be exercised any time up to and including the Expiration Date; a European option can only be exercised on the Expiration Date.)		
Currency Option Type:	A Call with respect to the Call Currency and a Put with respect to the Put Currency; Binary in the case of a binary or digital option.		
Call Currency:	The currency as specified by the parties from among those included in the list of available Currency Pairs.		
	The Put Currency and Call Currency must represent a traded pair included in the list of available Currency Pairs.		
Call Currency Amount:	As specified by the parties or, if not so specified, derived from the Put Currency Amount and Strike Price.		
Put Currency:	The currency as specified by the parties from among those included in the list of available Currency Pairs.		
	The Put Currency and Call Currency must represent a traded pair included in the list of available Currency Pairs.		
Put Currency Amount:	As specified by the parties or, if not so specified, derived from the Call Currency Amount and Strike Price.		
Strike Price:	As specified by the parties (if only one of the Put Currency or Call Currency is specified).		
	If no Strike Price is specified and Automatic Exercise is applicable, the Strike Price will be calculated using the Put Currency and Call Currency in order to determine if the option is to be automatically exercised.		
Reference Currency:	As specified by the parties.		
Settlement Currency:	As specified by the parties.		
Settlement Rate:	As specified by the parties or otherwise per the 1998 Definitions.		
Settlement Rate Option:	As specified by the parties.		
Expiration Date:	As specified by the parties.		
Expiration Time:	The time in the location specified by the parities.		
Latest Exercise Time:	The Expiration Time, unless otherwise specified by the parties. This applies only where the Currency Option Style is American.		
Automatic Exercise:	Applicable, unless otherwise specified by the parties.		
Settlement:	Non-Deliverable		
Settlement Amount:	In the case of a digital or binary option, as specified by the parties.		
Settlement Date:	As specified by the parties.		
Valuation Date:	As specified by the parties.		

Averaging Dates:	As specified by the parties.		
Premium:	As specified by the parties.		
Premium Payment Date:	As specified by the parties.		
Barrier Event:	As specified by the parties.		
Calculation Agent:	As specified by the parties.		
Business Day:	As specified by the parties.		
Business Day Convention:	As specified by the parties.		
Disruption Events:	As specified by the parties.		
Disruption Fallbacks:	As specified by the parties for each applicable Disruption Event or otherwise per the 1998 Definitions.		

### Non-Deliverable Foreign Exchange Option Available Currency Pairs

AUD/CNY	CNY/THB	IDR/PHP	MYR/CNH	THB/INR
AUD/IDR	CNY/TWD	IDR/THB	MYR/CNY	THB/KRW
AUD/INR	EUR/ARS	IDR/TWD	MYR/EUR	THB/MYR
AUD/KRW	EUR/BRL	INR/AUD	MYR/GBP	THB/PHP
AUD/MYR	EUR/CLP	INR/CAD	MYR/IDR	THB/TWD
AUD/PHP	EUR/CNY	INR/CHF	MYR/INR	TWD/AUD
AUD/TWD	EUR/COP	INR/CNH	MYR/JPY	TWD/CAD
BRL/JPY	EUR/IDR	INR/CNY	MYR/KRW	TWD/CHF
BRL/MXN	EUR/INR	INR/EUR	MYR/NZD	TWD/CNH
CAD/BRL	EUR/KRW	INR/GBP	MYR/PHP	TWD/CNY
CAD/CNY	EUR/KZT	INR/HKD	MYR/SGD	TWD/EUR
CAD/IDR	EUR/MYR	INR/IDR	MYR/TWD	TWD/GBP
CAD/INR	EUR/PEN	INR/JPY	NZD/CNY	TWD/HKD
CAD/KRW	EUR/PHP	INR/KRW	NZD/IDR	TWD/IDR
CAD/MYR	EUR/TWD	INR/NZD	NZD/INR	TWD/INR
CAD/PHP	EUR/UAH	INR/PHP	NZD/KRW	TWD/JPY
CAD/TWD	GBP/BRL	INR/SGD	NZD/MYR	TWD/KRW
CHF/BRL	GBP/CNY	INR/TWD	NZD/PHP	TWD/MYR
CHF/CNY	GBP/IDR	JPY/CNY	NZD/TWD	TWD/NZD
CHF/IDR	GBP/INR	JPY/IDR	PHP/AUD	TWD/PHP
CHF/INR	GBP/KRW	JPY/INR	PHP/CAD	TWD/SGD
CHF/KRW	GBP/MYR	JPY/KRW	PHP/CHF	TWD/THB
CHF/MYR	GBP/PHP	JPY/MYR	PHP/CNH	USD/ARS
CHF/PHP	GBP/TWD	JPY/PHP	PHP/CNY	USD/BRL
	•	•	•	

CHF/TWD	HKD/CNY	JPY/TWD	PHP/EUR	USD/CLP
CNH/IDR	HKD/IDR	KRW/AUD	PHP/GBP	USD/CNY
CNH/INR	HKD/INR	KRW/CAD	PHP/HKD	USD/COP
CNH/KRW	HKD/KRW	KRW/CHF	PHP/IDR	USD/EGP
CNH/MYR	HKD/MYR	KRW/CNH	PHP/INR	USD/GHS
CNH/PHP	HKD/PHP	KRW/CNY	PHP/JPY	USD/IDR
CNH/TWD	HKD/TWD	KRW/EUR	PHP/KRW	USD/INR
CNY/AUD	IDR/AUD	KRW/GBP	PHP/MYR	USD/KES
CNY/CAD	IDR/CAD	KRW/IDR	PHP/NZD	USD/KRW
CNY/CHF	IDR/CHF	KRW/INR	PHP/THB	USD/KZT
CNY/EUR	IDR/CNH	KRW/JPY	PHP/TWD	USD/MYR
CNY/GBP	IDR/CNY	KRW/MYR	SGD/CNY	USD/NGN
CNY/HKD	IDR/EUR	KRW/NZD	SGD/IDR	USD/PEN
CNY/IDR	IDR/GBP	KRW/PHP	SGD/INR	USD/PHP
CNY/INR	IDR/HKD	KRW/SGD	SGD/KRW	USD/RUB
CNY/JPY	IDR/INR	KRW/THB	SGD/MYR	USD/TWD
CNY/KRW	IDR/JPY	KRW/TWD	SGD/PHP	USD/UAH
CNY/MYR	IDR/KRW	MYR/AUD	SGD/TWD	USD/VND
CNY/NZD	IDR/MYR	MYR/CAD	THB/CNY	USD/ZMW
CNY/PHP	IDR/NZD	MYR/CHF	THB/IDR	

## Non-Deliverable Forward Foreign Exchange Contracts

Summary:	A non-deliverable forward ("NDF") is an outright forward in which the counterparties settle the difference between the contracted NDF price or rate and the prevailing spot price or rate on an agreed notional amount in an agreed settlement currency.	
Reference Currency	AOA Angolan Kwanza	
(i.e., Non-Delivery Currency):	ARS Argentine Peso	
	BDT Bangladeshi Taka	
	BRL Brazilian Real	
	CLP Chilean Peso	
	COP Colombian Peso	
	CNY Chinese Renminbi	
	DZD Algerian Dinar	
	EGP Egyptian pound	
	GHS Ghanaian Cedi	
	GTQ Guatemalan quetzal	
	IDR Indonesian Rupiah	
	INR Indian Rupee	
	KES Kenyan Shilling	
	KRW South Korean Won	
	KZT Kazakh tenge	
	LKR Sri Lankan Rupee	
	MAD Moroccan Dirham	
	MUR Mauritian Rupee	
	MYR Malaysian Ringgit	
	MZN Mozambican Metical	
	NGN Nigerian Naira	
	PEN Peruvian nuevo sol	
	PHP Philippine Peso	
	PKR Pakistani Rupee	
	RUB Russian ruble	
	TND Tunisian Dinar	
	TWD Taiwan Dollar	
	TZS Tanzanian Shilling	

	UAH Ukrainian Hryvnia	
	UGX Ugandan Shilling	
	UYU Uruguayan peso	
	VEB Venezuelan bolívar	
	VND Vietnamese đồng	
	XAF Central African CFA Franc	
	XOF West African CFA Franc	
	ZMW Zambian Kwacha	
Settlement Currency:	AUD Australian Dollar	
	CAD Canadian Dollar	
	EUR Euro	
	GBP British Pound	
	JPY Japanese Yen	
	USD US Dollar	
	CHF Swiss Franc	
Quoting Convention and Minimum Increment:	Notional amount, as agreed by counterparties.	
Minimum Size:	Notional amount, as agreed by counterparties.	
Notional Currency:	Currency in which contract size is expressed, as agreed by counterparties.	
Trading Conventions:	Buy or Sell which refers to the contract size expressed in notional currency.	
Forward Rates:	Currency exchange rate expressed as the amount of reference currency per unit of settlement currency.	
Trade Date:	The date on which parties enter into the contract.	
Settlement Date:	Specified settlement or payment date, as agreed by counterparties.	
Fixing Date:	The date at which the difference between the prevailing market exchange rate and the agreed upon exchange rate is calculated.	
Settlement Procedure:	Bilateral settlement performed in settlement currency.	
Disruption Events:	Unless otherwise specified by the parties, as set forth in the EMTA Template Terms for Non-Deliverable FX Forward Transactions applicable to the Reference Currency and Settlement Currency:	
	http://www.emta.org/ndftt.aspx	

## **PO Index Contracts**

Summary:	This covers Markit PO Fixed for Floating Swap	
	Transactions (the "Contracts").	
Limitations on Available Selections and Default	The terms under which the Contracts may be traded are	
Settings:	as specified in these terms and conditions.	
	For amounts or rates, the relevant term cannot be less	
	than the specified Minimum, must represent an even	
	Increment and cannot exceed the Maximum; for a date,	
	the date cannot be earlier than Earliest nor later than	
	Latest.	
	In many cases there are normal "vanilla" terms on which	
	the parties will transact.	
	These are shown as "Default" and will apply unless the	
	parties vary them.	
Incorporated Standards:	This contract description incorporates by reference the	
	following industry standard documentation and	
	standards:	
	(a) 2006 ISDA Definitions;	
	(b) ISDA OTC Taxonomies; and	
	(c) the Markit PO Standard Terms Supplement (June	
	12, 2010 version) or any subsequent Standard	
D I ATT MODA OTTO	Terms Supplement (the "Standard Terms").	
Product Type/ISDA OTC Taxonomy:	01.	
ISDA OTC Asset Class:	Credit	
ISDA OTC S 1. Product:	Index	
ISDA OTC Sub-Product:	PO	
ISDA OTC Transaction Type:	PO	
Further Limitations:	None	
Terms:	A 'C' 11	
Effective Date:	As specified by the parties, subject to adjustment in	
C-11-1-1 T D-4	accordance with the Standard Terms.	
Scheduled Termination Date:	As agreed by the parties.	
Termination Date:	Per the Standard Terms.	
Notional Amount:	An amount is USD agreed by the parties.	
Index:	One of the Markit PO Index series, as specified by the	
	parties from all then-available series (to the extent such series is not then a narrow-based index within the	
Annex Date:	meaning of the CFTC's regulations).	
Index Provider:	As agreed by the parties.  Per the Standard Terms.	
Fixed Rate Payer:		
Floating Rate Payer:	As agreed by the parties.  As agreed by the parties.	
Period End Dates:		
Reset Dates:	Per the Standard Terms.  Per the Standard Terms	
Payment Dates:	Per the Standard Terms.	
Calculation Agent:	As agreed by the parties or, if not so agreed, per the	
Calculation Agent.	Standard Terms.	
Day Count Fraction:	Per the Standard Terms.	
Business Days:	For any purpose, per the Standard Terms.	
Business Days.  Business Day Convention:	Per the Standard Terms.	
Initial Payment:	1 of the Standard Terms.	
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Initial Payment:	Per the Standard Terms.	
Initial Payment Amount:	An amount in USD as specified by the parties.	
Initial Payment Payer:	As specified by the parties.	
Initial Payment Date:	Per the Standard Terms.	
Settlement Payments		
Mark to Market Amount Payment:	Per the Standard Terms.	
Mark to Market Amount Payer:	Per the Standard Terms.	
Mark to Market Amount:	Per the Standard Terms.	
Financing Payment:	Per the Standard Terms.	
Financing Payment Amount:	Per the Standard Terms.	
Principal Payment:	Per the Standard Terms.	
Principal Payment Amount:	Per the Standard Terms.	
Net Payment:	Per the Standard Terms.	
Net Payment Amount Payer:	Per the Standard Terms.	
Net Payment Amount:	Per the Standard Terms.	
Agency Coupon:	Per the Standard Terms.	
Index LIBOR:	Per the Standard Terms.	
Index Factor:	Per the Standard Terms.	
Commencing Index Factor:	Per the Standard Terms.	
Period End Index Factor:	Per the Standard Terms.	
Index Price:	Per the Standard Terms.	
Commencing Index Price:	Per the Standard Terms.	
Period End Index Price:	Per the Standard Terms.	
<b>Event Affecting the Index:</b>		
Events and Adjustments:	All are per the Standard Terms.	

## Single Currency Fixed for Floating Interest Rate Swaps - CME Cleared

Summary:	This covers single currency fixed for floating interest rate swaps cleared by the Chicago Mercantile Exchange	
	Inc. ("CME").	
Limitations on Available Selections and Default Settings:  Incorporated Standards:	The terms under which a Single Currency Fixed for Floating Interest Rate Swap/CME Cleared may be traded are as specified in these terms and conditions, which incorporate the CME Rulebook, in particular Chapters 900 and 901 (and any successor provisions) and the CME Cleared IRS Product Scope (or any successor).  By electing to trade a Single Currency Fixed for Floating Interest Rate Swap/CME Cleared, participants are representing that they are familiar with the CME Rulebook and the limitations on transaction terms contained in it.  This contract description incorporates by reference the CME Rulebook as in effect from time to time.	
	The CME Rulebook itself may incorporate certain additional standards, such as the 2000 ISDA Definitions and 2006 ISDA Definitions.  Be aware that the timing of effectiveness of amendments or supplements to the ISDA standards may vary between bilateral and CME contracts, since the CME may reserve the right to select when and how such changes become effective.	
Product Type/ISDA OTC Taxonomy:		
ISDA OTC Asset Class:	Interest Rate	
ISDA OTC Base Product:	IR Swap	
ISDA OTC Sub-Product(s):	Fixed Float and OIS	
Further Limitations:	Must comply with CME Clearing Requirements.	
Terms:		
Definition Set:	The definition set ( <i>e.g.</i> , ISDA 2000/ISDA2006) elected by, or otherwise binding on, the parties in accordance with the CME Rulebook.	
Effective Date:	As per the CME Rulebook.	
Notional Amount:	An amount in Currency determined by the parties subject to limitations in the CME Rulebook.  This may vary from period to period to the extent permitted by the CME Rulebook.  The CME Rulebook may limit the Currencies and Floating Rate Options for which variable notionals are permitted.	
Currency:	One of the currencies permitted for the relevant transaction type per the CME Rulebook.	
Business Days:	As per the CME Rulebook, which may require certain Business Days be applicable on a per Currency or Floating Rate Option Basis and may otherwise limit the available Business Day locations which can be elected.	
Business Day Convention:	As per the CME Rulebook.	
Trade Date:	As per the CME Rulebook.	

# Single Currency Fixed for Floating Interest Rate Swaps - CME Cleared

Termination Date:	As agreed by the parties, subject to any minimum or	
	maximum tenor in the CME Rulebook.	
Termination Date Business Day Convention:	As per the CME Rulebook, and thus subject to	
	limitations based on other terms of the transaction.	
Stub Periods:	Permitted to the extent allowed under the CME	
	Rulebook.	
Fixed Rate Payer Payment Dates:	As per the CME Rulebook.	
Fixed Amount:	As per the CME Rulebook, which may permit use of a	
	schedule.	
Fixed Rate:	As agreed by the parties, subject to any minimum or	
	maximum rate and per-period variability permitted in	
	the CME Rulebook.	
Floating Rate Payer Payment Dates:	As per the CME Rulebook.	
Floating Amount:	As per the CME Rulebook.	
Floating Rate Option:	As determined by the parties, subject to the CME	
	Rulebook, which may provide a more limited list of	
	available options for a Currency than does the	
	Definition Set.	
Designated Maturity:	As per the CME Rulebook, which may provide a more	
	limited set of Designated Maturities than does the	
	related rate source page.	
Spread:	Subject to any minimum or maximum rate and per-	
	period variability permitted by the CME Rulebook.	
Reset Dates:	As the per CME Rulebook.	
Floating Rate Daycount Fraction:	As per the CME Rulebook.	
Floating Rate for Initial Calculation Period:	As per the CME Rulebook.	
Fixed Rate Payer:	As determined by the parties.	
Floating Rate Payer:	As determined by the parties.	
Compounding:	As per the CME Rulebook.	
Payer for Additional Payment/Fees:	As determined by the parties, subject to limitations in	
<u> </u>	the CME Rulebook.	
Additional Payment/Fees:	As determined by the parties, subject to limitations in	
•	the CME Rulebook.	
Payment Date for Additional Payment/Fees	As determined by the parties, subject to limitations in	
•	the CME Rulebook.	

## Single Currency Fixed for Floating Interest Rate Swaps – LCH Cleared

C	TDL'	
Summary:	This covers single currency fixed for floating swaps cleared by LCH.Clearnet ("LCH").	
Limitations on Available Selections and Default	The terms under which a Single Currency Fixed for	
Settings:	Floating Interest Rate Swaps/LCH Cleared contract may	
Settings.	be traded are as specified in these terms and conditions,	
	which incorporate the LCH Rulebook, in particular	
	· · · · · · · · · · · · · · · · · ·	
	Schedule 4A (or any successor provisions).	
	By electing to trade a Single Currency Fixed for	
	Floating Interest Rate Swap/LCH Cleared,	
	participants are representing that they are familiar	
	with the LCH Rulebook and the limitations on	
	transaction terms contained in it.	
Incorporated Standards:	This contract description incorporates by reference the	
1	LCH Rulebook as in effect from time to time.	
	The LCH Rulebook itself may incorporate certain	
	additional standards, such as the 2000 ISDA Definitions	
	and 2006 ISDA Definitions.	
	Be aware that the timing of effectiveness of	
	amendments or supplements to the ISDA standards	
	may vary between bilateral and LCH contracts, since	
	the LCH may reserve the right to select when and how	
	such changes become effective.	
Product Type/ISDA OTC Taxonomy:		
ISDA OTC Asset Class:	Interest Rate	
ISDA OTC Base Product:	IR Swap	
ISDA OTC Sub-Product(s):	Fixed Float and OIS	
Further Limitations:	Must comply with LCH Clearing Requirements	
Terms:		
Definition Set:	The definition set (e.g., ISDA 2000/ISDA 2006) elected	
	by, or otherwise binding on, the parties in accordance	
	with the LCH Rulebook.	
Notional Amount:	An amount in Currency determined by the parties subject	
	to limitations in the LCH Rulebook.	
	This may vary from period to period to the extent	
	permitted by the LCH Rulebook.	
	The LCH Rulebook may limit the Currencies and Floating	
	Rate Options for which variable notionals are permitted.	
Cumanav		
Currency:	One of the currencies permitted for the relevant	
T. 1. D	transaction type per the LCH Rulebook.	
Trade Date:	As per the LCH Rulebook.	
Effective Date:	As per the LCH Rulebook.	
Termination Date:	As agreed by the parties, subject to any minimum or	
	maximum tenor in the LCH Rulebook.	
Payer for Additional Payment/Fees:	As determined by the parties, subject to limitations in the	
	LCH Rulebook.	
Additional Payment/Fees:	As determined by the parties, subject to limitations in the	
•	LCH Rulebook	
Payment Date for Additional Payment/Fees	As determined by the parties, subject to limitations in the	
, <u> </u>	LCH Rulebook, which may limit the earliest or latest day	
	on which such fees may be paid based on Currency or	
	other factors.	

# Single Currency Fixed for Floating Interest Rate Swaps – LCH Cleared

Business Days:	As per the LCH Rulebook, which may require certain Business Days be applicable on a per Currency or Floating Rate Option Basis and may otherwise limit the
	available Business Day locations which can be elected.
Business Day Convention:	As per the LCH Rulebook.
Stub Periods:	Permitted to the extent allowed under the LCH Rulebook.
Fixed Rate Payer:	As determined by the parties.
Fixed Rate Payer Payment Dates:	As per the LCH Rulebook.
Fixed Amount:	As per the LCH Rulebook, which may permit use of a schedule.
Fixed Rate:	As agreed by the parties, subject to any minimum or maximum rate and per-period variability permitted in the LCH Rulebook.
Floating Rate Payer	As determined by the parties.
Floating Rate Payer Payment Dates:	As per the LCH Rulebook.
Floating Rate Payer Compounding Dates:	As per the LCH Rulebook.
Floating Amount:	As per the LCH Rulebook.
Floating Rate Option:	As determined by the parties, subject to the LCH
	Rulebook, which may provide a more limited list of
	available options for a Currency than does the Definition Set.
Designated Maturity:	As per the LCH Rulebook, which may provide a more limited set of Designated Maturities than does the related rate source page.
Spread:	Subject to any minimum or maximum rate and per-period variability permitted by the LCH Rulebook.
Reset Dates:	As the per LCH Rulebook.
Floating Rate Daycount Fraction:	As per the LCH Rulebook.
Negative Interest Rates:	As per the LCH Rulebook, which may require use of a single method.
Withholding and Tax:	As per the LCH Rulebook.
Governing Law:	As per the LCH Rulebook, which may dictate the law applicable to the Transaction.

# **U.S. Electricity – Fixed/Floating Swap Contracts**

Summary:	This covers fixed-for-floating U.S. electricity swaps	
	("U.S. Electricity – Fixed/Floating Swap Contracts").	
Limitations on Available Selections and Default	The terms under which U.S. Electricity – Fixed/Floating	
Settings:	Swap Contracts may be traded are shown below or in the	
	attached tables.	
	For amounts or rates, the relevant term cannot be less	
	than the specified Minimum, must represent an even	
	Increment and cannot exceed the Maximum; for a date	
	the date cannot be earlier than Earliest nor later than	
	Latest.	
	In many cases there are normal "vanilla" terms on which	
	the parties will transact.  These are shown as "Default" and will apply unless the	
	parties vary them.	
Incorporated Standards:	This contract description incorporates by reference the	
incorporated Standards.	following industry standard documentation and	
	standards:	
	2005 ISDA Commodity Derivatives Definitions	
	("Commodity Definitions")	
Product Type/ISDA OTC Taxonomy:		
ISDA OTC Asset Class:	Commodity	
ISDA OTC Base Product:	Energy	
ISDA OTC Sub-Product:	Elec	
ISDA OTC Transaction type:	Swap	
Further Limitations:	None	
Terms:		
Trade Date:	As agreed by the parties.	
Effective Date:	The date specified by the parties, adjusted in accordance	
	with any applicable Business Day Convention.	
Effective Date Business Days:	USNY	
Effective Date Business Day Convention:	As specified by the parties from among the Available	
	Business Day Conventions.	
Termination Date:	As specified by the parties.	
Termination Date Business Days:	USNY	
Termination Date Business Day Convention:	As specified by the parties from among the Available	
C 1'	Business Day Conventions.	
Commodity	As specified by the parties from among the Available	
Madianal Orandia	Commodities.	
Notional Quantity:	The sum of the Notional Quantities per Calculation	
Notional Quantity per Calculation Period:	Period.  As specified by the parties on a per-Calculation-Period	
Nononal Quality per Calculation Period:	Basis.	
Settlement Periods:	If specified by the parties or if applicable to the relevant	
Settlement renous.	Commodity Reference Price and specified herein.	
	Parties may specify one of the Available Set Tenors as a	
	Settlement Period or may specify another period.	
	semement i crioù or may specify another perioù.	

Duration:  Start Time(s)/End Time(s):  If specified by the parties or if applicable to the relevant Commodity Reference Price and specified herein.  In relation to each Calculation Period, as specified by the parties, each such day being subject to adjustment in accordance with the Payment Date Business Day Convention.  Payment Date Business Days:  USNY  Payment Date Business Day Convention:  Fixed Amount:  Fixed Price Payer:  As specified by the parties.  Fixed Price Payer:  As specified by the parties per Unit of the Commodity.  Floating Amount:  Floating Amount:  Floating Price Payer:  As specified by the parties.  As specified by the parties.  Commodity Reference Price:  As specified by the parties.  As specified by the parties.  Unless otherwise specified by the parties, per the Commodity Definitions.  Additional Market Disruption Events:  Unless otherwise specified by the parties, per the Commodity Definitions.  Disruption Fallbacks:  Unless otherwise specified by the parties, per the Commodity Definitions.  Disruption Fallbacks:  Unless otherwise specified by the parties, per the Commodity Definitions.  Fallback Reference Price:  None, unless specified by the parties.  Unless otherwise specified by the parties, per the Commodity Definitions.  As agreed by the parties, per the Commodity Definitions.  As agreed by the parties, per the Commodity Definitions.  As agreed by the parties.	Applicable Days:	If applicable to the relevant Commodity Reference Price and specified therein or if applicable to the relevant Available Set Tenor and specified therein (i.e., Month). Applicable Days does not apply to Commodity Reference Prices under the headings "ISDA Definition" or "Exchange Definition".	
Payment Dates:  In relation to each Calculation Period, as specified by the parties, each such day being subject to adjustment in accordance with the Payment Date Business Day Convention.  Payment Date Business Days:  USNY  Payment Date Business Day Convention:  Fixed Amount:  Fixed Price Payer:  As specified by the parties.  Fixed Price or Fixed Amount:  As specified by the parties per Unit of the Commodity.  Floating Amount:  Floating Amount:  Floating Price Payer:  As specified by the parties.  As specified by the parties.  Commodity Reference Price:  As specified by the parties.  As specified by the parties.  Commodity Reference Price:  As specified by the parties from among the Available Commodity Reference Prices.  Market Disruption:  Market Disruption Events:  Unless otherwise specified by the parties, per the Commodity Definitions.  Additional Market Disruption Events:  Unless otherwise specified by the parties, per the Commodity Definitions.  Disruption Fallbacks:  Unless otherwise specified by the parties, per the Commodity Definitions.  Disruption Fallbacks:  Unless otherwise specified by the parties, per the Commodity Definitions.  Disruption Fallbacks:  Unless otherwise specified by the parties, per the Commodity Definitions.  Disruption Fallbacks:  Unless otherwise specified by the parties, per the Commodity Definitions.  Disruption Fallbacks:  Unless otherwise specified by the parties, per the Commodity Definitions.  Fallback Reference Price:  None, unless specified by the parties, per the Commodity Definitions.		-	
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Maximum Days of Disruption:  Unless otherwise specified by the parties, per the Commodity Definitions.	Fallback Reference Price:		
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	Calculation Agent:	As agreed by the parties.	

### U.S. Electricity – Fixed/Floating Swap Contracts Available Currencies and Required Business Days

Three Letter Currency Code (ISDA/ISO)	Currency Name (ISDA)	Basic Business Day Locations For Currency (FpML Codes)
USD	United States Dollars	USNY

### U.S. Electricity – Fixed/Floating Swap Contracts Available Business Day Conventions

ISDA Name
Following
Modified/Modified Following
Nearest
Preceding

U.S. Electricity – Fixed/Floating Swap Contracts Available Set Tenors

Set Tenor	Set Tenor Settlement Period		
Month	The specified calendar month; if OFF PEAK/PEAK is		
	not specified, PEAK is assumed		
Season	Season	Days in Specified Year	
	Winter	1 January through the last	
		day of February in the	
		specified year	
	Spring	1 March through 30 April	
		in the specified year	
	Summer	1 July through 31 August	
		in the specified year	
Quarter	Quarter Number	Days in Specified Year	
	Q1	1 January through 31	
		March	
	Q2	1 April through 30 June	
	Q3	1 July through 30	
		September	
	Q4	1 October through 31	
		December	
Calendar Year	1 January through 31 December in the specified year		
Planning Year	1 June in the specified beginning calendar year through		
	31 May in the specified ending calendar year		

U.S. Electricity – Fixed/Floating Swap Contracts Available Commodity Reference Prices

#### **ISDA Definitions**

The following Commodity Reference Prices are as defined in Sub-Annex A to the Commodity Definitions.

Note that these Commodity Reference Prices relate to all hours in the Pricing Date (i.e., are "Around the Clock"); for the equivalent Peak and Off-Peak prices, see below.

ISDA Definition
ELECTRICITY-NYISO-ZONE A (WEST)-DAY AHEAD
ELECTRICITY-NYISO-ZONE G (HUD VL)-DAY AHEAD
ELECTRICITY-NYISO-ZONE J (N.Y.C.)-DAY AHEAD
ELECTRICITY-ISO NEW ENGLAND-MASS HUB-DAY AHEAD
ELECTRICITY-ISO NEW ENGLAND-NE MASS BOSTON-DAY AHEAD
ELECTRICITY-PJM-EASTERN HUB-DAY AHEAD
ELECTRICITY-PJM-PSEG-DAY AHEAD
ELECTRICITY-PJM-WESTERN HUB-DAY AHEAD

#### **Exchange Definitions**

The following Commodity Reference Prices are as defined in Sub-Annex A to the Commodity Definitions. Note that these Commodity Reference Prices relate to all hours in the Pricing Date (i.e., are "Around the Clock"); for the equivalent Peak and Off-Peak prices, see below.

ISDA Definition					
Commodity Reference Price	Relevant Commodity	Relevant Unit	Exchange	Currency	Specified Price

ELECTRICITY Electricity MwH ICE	USD 0.01	"ELECTRICIT
-NP15 DAY	CBD 0.01	Y-CAISO-
AHEAD PEAK-		NP15-DAY
ICE		AHEAD"
ELECTRICITY Electricity MwH ICE	USD 0.01	"ELECTRICIT
-NP15 DAY	050 0.01	Y-CAISO-
AHEAD PEAK-		NP15-DAY
ICE		AHEAD"
ELECTRICITY Electricity MwH ICE	USD 0.01	"ELECTRICIT
-SP15 DAY	030 0.01	Y-CAISO-
AHEAD OFF		SP15-DAY
PEAK-ICE		AHEAD"
ELECTRICITY Electricity MwH ICE	USD 0.01	"ELECTRICIT
-SP15 DAY	0.01	Y-CAISO-
AHEAD PEAK-		SP15-DAY
ICE		AHEAD"
ELECTRICITY Electricity MwH ICE	USD 0.01	ELECTRICITY
-PALO VERDE	CBD 0.01	-PALO VERDE
OFF PEAK-ICE		OFF-PEAK-ICE
ELECTRICITY Electricity MwH ICE	USD 0.01	ELECTRICITY
-PALO VERDE	0.01	-PALO VERDE
PEAK-ICE		PEAK-ICE
TEAK ICE		TEMIC ICE
ELECTRICITY Electricity MwH ICE	USD 0.01	ELECTRICITY
-MID C OFF	000 0.01	-MID C OFF-
PEAK-ICE		PEAK-ICE
ELECTRICITY Electricity MwH ICE	USD 0.01	ELECTRICITY
-MID C PEAK-	000 0.01	-MID C PEAK-
ICE		ICE

#### Non-ISDA, Non-Exchange Definitions

For any of the Commodity Reference Prices below, the price for the Settlement Period specified for that Pricing Date will be that hour's Specified Price per MWh of electricity for delivery on an Applicable Day specified for that Commodity Reference Price, published by the specified Source on the specified Page under the specified Heading (or any successor Source, Page or Heading), that reports prices effective on such Applicable Day.

Commodity Reference Price	Settlement Period	Source	Page	Heading
ELECTRICITY- PJM-AEP DAYTON HUB- ATC DAY AHEAD	N/A	PJM	http://www.pjm.com/markets-and- operations/energy/day-ahead/lmpda.aspx	AEP DAYTON HUB, TotalLMP
ELECTRICITY- PJM-AEP DAYTON HUB- OFF PEAK DAY AHEAD	Eastern Off Peak	РЈМ	http://www.pjm.com/markets-and- operations/energy/day-ahead/lmpda.aspx	AEP DAYTON HUB, TotalLMP
ELECTRICITY- PJM-AEP DAYTON HUB- OFF PEAK DAY AHEAD	Eastern Peak	РЈМ	http://www.pjm.com/markets-and- operations/energy/day-ahead/lmpda.aspx	AEP DAYTON HUB, TotalLMP
ELECTRICITY- PJM-AEP DAYTON HUB- ATC REALTIME	N/A	РЈМ	http://www.pjm.com/markets-and- operations/energy/real-time/lmp.aspx	AEP DAYTON HUB, TotalLMP
ELECTRICITY- PJM-AEP DAYTON HUB- OFF PEAK REAL TIME	Eastern Off Peak	РЈМ	http://www.pjm.com/markets-and- operations/energy/real-time/lmp.aspx	AEP DAYTON HUB, TotalLMP
ELECTRICITY- PJM-AEP DAYTON HUB- OFF PEAK REAL TIME	Eastern Peak	PJM	http://www.pjm.com/markets-and- operations/energy/real-time/lmp.aspx	AEP DAYTON HUB, TotalLMP
ELECTRICITY- PJM-COMED HUB-ATC DAY AHEAD	N/A	PJM	http://www.pjm.com/markets-and- operations/energy/day-ahead/lmpda.aspx	COMED, TotalLMP
ELECTRICITY- PJM-COMED HUB-OFF PEAK DAY AHEAD	Eastern Off Peak	РЈМ	http://www.pjm.com/markets-and- operations/energy/day-ahead/lmpda.aspx	COMED, TotalLMP
ELECTRICITY- PJM-COMED HUB-OFF PEAK DAY AHEAD	Eastern Peak	PJM	http://www.pjm.com/markets-and- operations/energy/day-ahead/lmpda.aspx	COMED, TotalLMP
ELECTRICITY- MISO- INDIANA HUB- ATC DAY AHEAD	N/A	MISO	https://www.misoenergy.org/Library/Ma rketReports/Pages/MarketReports.aspx (Report Type: Day-Ahead, Report: Name: Day Ahead Pricing (pdf))	Indiana Hub, LMP Prices (\$ per MW)
ELECTRICITY- MISO- INDIANA HUB- OFF PEAK	Eastern Off Peak	MISO	https://www.misoenergy.org/Library/Ma rketReports/Pages/MarketReports.aspx (Report Type: Day-Ahead, Report: Name: Day Ahead Pricing (pdf))	Indiana Hub, LMP Prices (\$ per MW)

DAY AHEAD				
ELECTRICITY- MISO- INDIANA HUB- PEAK DAY AHEAD	Eastern Peak	MISO	https://www.misoenergy.org/Library/Ma rketReports/Pages/MarketReports.aspx (Report Type: Day-Ahead, Report: Name: Day Ahead Pricing (pdf))	Indiana Hub, LMP Prices (\$ per MW)
ELECTRICITY- MISO- INDIANA HUB- ATC REAL TIME	N/A	MISO	https://www.misoenergy.org/Library/Ma rketReports/Pages/MarketReports.aspx (Report Type: Real -Time, Report: Real- Time Pricing (pdf))	Indiana Hub, LMP Prices (\$ per MW)
ELECTRICITY- MISO- INDIANA HUB- OFF PEAK REAL TIME	Eastern Off Peak	MISO	https://www.misoenergy.org/Library/MarketReports/Pages/MarketReports.aspx (Report Type: Real -Time, Report: Real-Time Pricing (pdf))	Indiana Hub, LMP Prices (\$ per MW)
ELECTRICITY- MISO- INDIANA HUB- PEAK REAL TIME	Eastern Peak	MISO	https://www.misoenergy.org/Library/MarketReports/Pages/MarketReports.aspx (Report Type: Real -Time, Report: Real-Time Pricing (pdf))	Indiana Hub, LMP Prices (\$ per MW)
ELECTRICITY- MISO- MICHIGAN HUB-ATC DAY AHEAD	N/A	MISO	https://www.misoenergy.org/Library/Ma rketReports/Pages/MarketReports.aspx (Report Type: Day-Ahead, Report: Name: Day Ahead Pricing (pdf))	Michigan Hub, LMP Prices (\$ per MW)
ELECTRICITY- MISO- MICHIGAN HUB-OFF PEAK DAY AHEAD	Central Off Peak	MISO	https://www.misoenergy.org/Library/MarketReports/Pages/MarketReports.aspx (Report Type: Day-Ahead, Report: Name: Day Ahead Pricing (pdf))	Michigan Hub, LMP Prices (\$ per MW)
ELECTRICITY- MISO- MICHIGAN HUB-PEAK DAY AHEAD	Central Peak	MISO	https://www.misoenergy.org/Library/Ma rketReports/Pages/MarketReports.aspx (Report Type: Day-Ahead, Report: Name: Day Ahead Pricing (pdf))	Michigan Hub, LMP Prices (\$ per MW)
ELECTRICITY- MISO- NORTHERN ILLINOIS HUB- ATC DAY AHEAD	N/A	PJM	http://www.pjm.com/markets-and- operations/energy/day-ahead/lmpda.aspx	N ILLINOIS HUB, TotalLMP
ELECTRICITY- MISO- NORTHERN ILLINOIS HUB- OFF PEAK DAY AHEAD	Central Off Peak	РЈМ	http://www.pjm.com/markets-and- operations/energy/day-ahead/lmpda.aspx	N ILLINOIS HUB, TotalLMP
ELECTRICITY- MISO- NORTHERN ILLINOIS HUB- PEAK DAY AHEAD	Central Peak	РЈМ	http://www.pjm.com/markets-and- operations/energy/day-ahead/lmpda.aspx	N ILLINOIS HUB, TotalLMP

ELECTRICITY- MISO- NORTHERN ILLINOIS HUB- ATC REAL TIME	N/A	PJM	http://www.pjm.com/markets-and- operations/energy/real-time/lmp.aspx	N ILLINOIS HUB, TotalLMP
ELECTRICITY- MISO- NORTHERN ILLINOIS HUB- OFF PEAK REAL TIME	Central Off Peak	РЈМ	http://www.pjm.com/markets-and- operations/energy/real-time/lmp.aspx	N ILLINOIS HUB, TotalLMP
ELECTRICITY- MISO- NORTHERN ILLINOIS HUB- PEAK REAL TIME	Central Peak	PJM	http://www.pjm.com/markets-and- operations/energy/real-time/lmp.aspx	N ILLINOIS HUB, TotalLMP
ELECTRICITY- ISO NEW ENGLAND- CONNECTICU T ZONE-ATC DAY AHEAD	N/A	ISO NE	http://www.iso- ne.com/markets/hst_rpts/hstRpts.do?cate gory=Hourly Report Type: Hourly Data; Report Day- Ahead LMPs (March 2003 - Present)	.Z.CONNECTICUT , Locational Marginal Pricing \$/MWh
ELECTRICITY- ISO NEW ENGLAND- CONNECTICU T ZONE-OFF PEAK DAY AHEAD	Eastern Off Peak	ISO NE	http://www.iso- ne.com/markets/hst_rpts/hstRpts.do?cate gory=Hourly Report Type: Hourly Data; Report Day- Ahead LMPs (March 2003 - Present)	.Z.CONNECTICUT , Locational Marginal Pricing \$/MWh
ELECTRICITY- ISO NEW ENGLAND- CONNECTICU T ZONE-PEAK DAY AHEAD	Eastern Peak	ISO NE	http://www.iso- ne.com/markets/hst_rpts/hstRpts.do?cate gory=Hourly Report Type: Hourly Data; Report Day- Ahead LMPs (March 2003 - Present)	.Z.CONNECTICUT , Locational Marginal Pricing \$/MWh
ELECTRICITY- ISO NEW ENGLAND- MAINE ZONE- ATC DAY AHEAD	N/A	ISO NE	http://www.iso- ne.com/markets/hst_rpts/hstRpts.do?cate gory=Hourly Report Type: Hourly Data; Report Day- Ahead LMPs (March 2003 - Present)	.Z.MAINE, Locational Marginal Pricing \$/MWh
ELECTRICITY- ISO NEW ENGLAND- MAINE ZONE- OFF PEAK DAY AHEAD	Eastern Off Peak	ISO NE	http://www.iso- ne.com/markets/hst_rpts/hstRpts.do?cate gory=Hourly Report Type: Hourly Data; Report Day- Ahead LMPs (March 2003 - Present)	.Z.MAINE, Locational Marginal Pricing \$/MWh
ELECTRICITY- ISO NEW ENGLAND- MAINE ZONE- PEAK DAY AHEAD	Eastern Peak	ISO NE	http://www.iso- ne.com/markets/hst_rpts/hstRpts.do?cate gory=Hourly Report Type: Hourly Data; Report Day- Ahead LMPs (March 2003 - Present)	.Z.MAINE, Locational Marginal Pricing \$/MWh

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MAINE ZONE-			Report Type: Hourly Data; Report Day-	Τποιίας φ/π/π γ π
OFF PEAK			Ahead LMPs (March 2003 - Present)	
DAY AHEAD			Alicad Livii s (Water 2005 - Frescht)	
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		ISO NE	http://www.iso-	
ISO NEW	Peak		ne.com/markets/hst_rpts/hstRpts.do?cate	Locational Marginal
ENGLAND-			gory=Hourly	Pricing \$/MWh
MAINE ZONE-			Report Type: Hourly Data; Report Day-	
PEAK DAY			Ahead LMPs (March 2003 - Present)	
AHEAD		<u></u>		
ELECTRICITY-	See ISDA De	efinition		
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ENGLAND-				
MASS HUB-				
ATC DAY				
AHEAD				
ELECTRICITY-	Eastern Off	ISO NE	http://www.iso-	.H.INTERNAL_HU
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ENGLAND-			gory=Hourly	Marginal Pricing
MASS HUB-			Report Type: Hourly Data; Report Day-	\$/MWh
OFF PEAK			Ahead LMPs (March 2003 - Present)	Ψ/1/1/11
DAY AHEAD			111000 2111 5 (1111011 2000 1100010)	
ELECTRICITY-	Eastern	ISO NE	http://www.iso-	.H.INTERNAL_HU
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PJM-EASTERN	Eastern Off-Peak	I J1VI	operations/energy/day-ahead/lmpda.aspx	
	Оп-геак		operations/energy/day-anead/impda.aspx	TotalLMP
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ELECTRICITY-	Eastern	PJM	http://www.pjm.com/markets-and-	EASTERN HUB,
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PJM-JCPL			operations/energy/day-ahead/lmpda.aspx	TotalLMP
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ELECTRICITY-	N/A	PJM	http://www.pjm.com/markets-and-	METED ZONE,
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PJM-METED	Off-Peak		operations/energy/day-ahead/lmpda.aspx	TotalLMP
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ELECTRICITY-	Eastern	PJM	http://www.pjm.com/markets-and-	PECO ZONE,
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PJM-PEPCO	14/74	1 3141	operations/energy/day-ahead/Impda.aspx	TotalLMP
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PJM-PPL			operations/energy/day-ahead/lmpda.aspx	TotalLMP
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ELECTRICITY-	Eastern	PJM	http://www.pjm.com/markets-and-	PPL ZONE,
PJM-PPL	Off-Peak		operations/energy/day-ahead/lmpda.aspx	TotalLMP
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ZONE-ATC				
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ELECTRICITY-	Eastern	PJM	http://www.pjm.com/markets-and-	PPL ZONE,
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			LBMP/Zonal)	
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			LBMP/Zonal)	
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	hourly periods in the relevant period which are peak and off-peak respectively (with peak and off peak having the meaning specified in the definition of the Commodity Reference Price by				
	the Exchange).				
ELECTRICITY-	Notwithstanding the Commodity Definitions, will be calculated as the weighted average of				
CAISO-SP 15	the ELECTRICITY-SP15- PEAK-ICE and ELECTRICITY-SP15- OFF-PEAK-ICE				
ATC	Commodity Reference Prices for the relevant period, weighted on the basis of the number of				
THE	hourly periods in the relevant period which are peak and off-peak respectively (with peak and				
	off peak having the meaning specified in the definition of the Commodity Reference Price by				
	the Exchange).				
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PALO VERDE	the ELECTRICITY-PALO VERDE PEAK-ICE and ELECTRICITY-PALO VERDE OFF-				
ATC-ICE	PEAK-ICE Commodity Reference Prices for the relevant period, weighted on the basis of the				
	number of hourly periods in the relevant period which are peak and off-peak respectively				
	(with peak and off peak having the meaning specified in the definition of the Commodity				
	Reference Price by the Exchange)				
ELECTRICITY-	Notwithstanding the Commodity Definitions, will be calculated as the weighted average of				
MID C ATC-	the ELECTRICITY-MID C PEAK-ICE and ELECTRICITY-MID C OFF-PEAK-ICE				
ICE			ces for the relevant period, weighted on the b		
	hourly period	ds in the releva	ant period which are peak and off-peak respe	ctively (with peak and	
	off peak havi	ng the meanir	ng specified in the definition of the Commodi	ity Reference Price by	
	the Exchange	e)			

### U.S. Electricity – Fixed/Floating Swap Contracts Specified Time Periods

	Non EEDC Holidays (all times are	EEDC Holidaya
	Non-FERC Holidays (all times are	FERC Holidays
	Hours Ending and use 24-hour	
	clock)	
California Off Peak	Excludes 0700 through 2200 Pacific	Includes all hours on FERC
Camorina On Peak	Prevailing Time	Holidays
California Peak	Includes 0700 through 2200 Pacific	Excludes all hours on FERC
Camornia Peak	Prevailing Time	Holidays
Eastern Off Peak ¹	Excludes 0800 through 2300 Eastern	Includes all hours on FERC

 $^{^1}$  Times for Commodity Reference Prices reported for Central Timezone (e.g., Illinois, Michigan) will be converted to their Eastern time equivalents

# $U.S.\ Electricity-Fixed/Floating\ Swap\ Contracts$

	Prevailing Time	Holidays
Eastern Peak	Includes 0800 through 2300 Eastern	Excludes all hours on FERC
	Prevailing Time	Holidays

# **USD Equity Basket Swap (Broad Based)**

### **Terms and Conditions**

Summary:	This covers equity total-return swaps on broad-based baskets of equities traded in USD.  For purposes of relevant CFTC and SEC regulations,
	such basket shall be on a broad-based index.
Limitations on Available Selections and Default Settings:	The terms under which USD Equity Basket Swap (Broad Based) may be traded are shown below or in the attached tables.  For amounts or rates, the relevant term cannot be less than the specified Minimum, must represent an even Increment and cannot exceed the Maximum; for a date, the date cannot be earlier than Earliest nor later than Latest.  For Business Days, the defaults shall be the locations specified for the relevant currency, any additional locations specified for the relevant Floating Rate Options.  In many cases there are normal "vanilla" terms on which the parties will transact.  These are shown as "Default" and will apply unless the parties vary them.  In some cases, the same contract might have different terms depending on the market in which it is traded (e.g., London versus NY).  In that case the default settings may vary by market.
Incorporated Standards:	This contract description incorporates by reference the following industry standard documentation and standards:  (a) 2006 ISDA Definitions;  (b) 2002 ISDA Equity Derivatives Definitions; and  (c) Annex SS to 2004 Americas Interdealer Master Equity Derivatives Confirmation (except that references therein to the 2000 ISDA Definitions shall be deemed references to the 2006 ISDA Definitions).  For convenience, certain terms are mapped to their FpML 5.5 equivalent.
Product Type/ISDA OTC Taxonomy:	
ISDA OTC Asset Class:	Equity
ISDA OTC Base Product:	Swap
ISDA OTC Sub-Product:	Price Return Basic Performance
ISDA OTC Transaction type:	Basket
Further Limitations:	None
Terms:	
Type of Transaction:	Share Basket Swap Transaction
Trade Date:	As agreed by the parties.
Notional Amount ("notional"):	An amount in USD agreed by the parties.
Effective Date ("effectiveDate"):	Per Annex SS, unless otherwise agreed by the parties.
Effective Date Business Days:	As specified by the parties from among the Available Business Days.
Effective Date Business Day Convention:	As specified by the parties from among the Available Business Day Conventions.

Termination Date ("terminationDate"):	Per Annex SS, unless otherwise specified by the parties.
Basket:	As specified by the parties in compliance with the rules
	and regulations of the CFTC and SEC applicable to
	broad-based indices.
Exchange(s):	As specified by the parties with respect to each Share
	comprised in the Basket.
Related Exchanges:	Per Annex SS, unless otherwise agreed by the parties.
Hedging Party:	As specified by the parties.
Determining Party:	As specified by the parties.
<b>Equity Amounts:</b>	
Equity Amount Payer ("payerPartyReference"):	As specified by the parties.
Equity Notional Amount:	As specified by the parties.
Equity Notional Reset:	Per Annex SS.
Type of Return:	Total Return
Initial Price:	As specified by the parties and adjusted in accordance
	with Annex SS.
Final Price:	As per Annex SS unless otherwise agreed by the parties.
Valuation Time:	As per Annex SS unless otherwise agreed by the parties.
Valuation Date:	As specified by the parties.
Floating Amount:	
Floating Rate Payer ("payerPartyReference"):	As specified by the parties.
Notional Amount ("notional Amount"):	As per Annex SS.
Payment Dates:	As per Annex SS, unless otherwise agreed by the parties.
Floating Rate Option ("floatingRateIndex"):	As per Annex SS, unless otherwise agreed by the parties.
Designated Maturity ('indexTenor")	As specified by the parties.
Spread:	As specified by the parties.
Day Count Fraction:	Actual/360
Reset Date ("resetDate"):	As specified by the parties.
Payment Dates Business Days:	As specified by the parties.
Business Days (Other Than Payment Dates):	As specified by the parties.
Business Day Convention (Other Than Payment	As per Annex SS, unless otherwise specified by the
Dates):	parties.
Settlement Terms:	Fire and
Cash Settlement:	Applicable
Settlement Currency:	USD
Dividends:	
Dividend Payment Date(s):	As per Annex SS unless otherwise agreed by the parties.
Dividend Period:	As per Annex SS unless otherwise agreed by the parties.
Dividend Amount:	As per Annex SS unless otherwise agreed by the parties.
Relevant Dividend:	If type of return is "Total Return" as per Annex SS
Relevant Dividend.	unless otherwise agreed by the parties.
Reinvestment of Dividends:	Inapplicable
Dividend Recovery:	As per Annex SS unless otherwise agreed by the parties.
Adjustment Events:	115 per rames of union outer wise agreed by the parties.
Method of Adjustment:	As per Annex SS unless otherwise agreed by the parties.
Options Exchange:	As agreed by the parties if "Options Exchange
Options Exchange.	As agreed by the parties if Options Exchange Adjustment" is applicable.
Consequences of Merger Events:	Trajastinent is apprieure.
Share-for-Share:	As per Annex SS unless otherwise agreed by the parties.
Share-for-Other:	As per Annex SS unless otherwise agreed by the parties.  As per Annex SS unless otherwise agreed by the parties.
Share-for-Combined:	As per Annex SS unless otherwise agreed by the parties.  As per Annex SS unless otherwise agreed by the parties.
Options Exchange:	As agreed by the parties if "Options Exchange
Options Exchange.	As agreed by the parties if Options Exchange Adjustment" is applicable.
Consequences of Tender Offers:	ладазинент 15 аррисамс.
Consequences of Tenuer Offers:	

Tender Offer:	As per Annex SS, unless otherwise agreed by the parties.	
Share-for-Share	As agreed by the parties if Tender Offer is applicable.	
Share-for-Other:	As agreed by the parties if Tender Offer is applicable.	
Share-for-Combined:	As agreed by the parties if Tender Offer is applicable.	
Options Exchange:	As agreed by the parties if "Options Exchange	
	Adjustment" is applicable.	
Composition of Combined Consideration:	Per Annex SS unless otherwise agreed by the parties.	
Nationalization, Insolvency or Delisting:	Per Annex SS unless otherwise agreed by the parties.	
Additional Disruption Events:		
Change in Law:	As per Annex SS, unless otherwise agreed by the parties.	
Insolvency Filing:	As per Annex SS, unless otherwise agreed by the parties.	
Hedging Disruption:	As per Annex SS.	
Increased Cost of Hedging:	As per Annex SS unless otherwise agreed by the parties.	
Loss of Stock Borrow:	Inapplicable	
Increased Cost of Stock Borrow:	Inapplicable	
N. D. P. C.	A A	
Non-Reliance:	As per Annex SS unless otherwise agreed by the parties.	
Agreements and Acknowledgements Regarding	As per Annex SS.	
Hedging Activities:	A A	
Additional Acknowledgements:	As per Annex SS unless otherwise agreed by the parties.	
Index Disclaimer:	As per Annex SS unless otherwise agreed by the parties.	
Mutual Early Termination Right:	As agreed by the parties.	
Interest Breakage Cost:	If Mutual Early Termination Right is applicable, as	
	specified by the parties.	
Calculation Agent:	As agreed by the parties.	

# Equity Index Available Business Day Conventions

ISDA Name
Following
Modified/Modified Following
No Adjustment
Preceding
FRN Convention/Eurodollar Convention

#### Equity Index Earliest and Latest Effective and Termination Dates

Currency	Earliest Effective	Latest Effective Date	Earliest Termination	Latest Termination
	Date		Date	Date
N/A	N/A	N/A	N/A	One Year from
				Effective Date

### **Equity Index Notional Amounts**

Currency	Minimum	Increment	Maximum	Default
USD	10,000,000	1,000,000	N/A	N/A

#### Equity Index Requirements and Defaults

Date	Requirement	Default
Designated Maturities for Linear		Tenors quoted next shorter and
Interpolation		longer than the actual Calculation
		Period length

USD Equity Basket Swap (Broad Based)