

1 COMMODITY FUTURES TRADING COMMISSION (CFTC)

2 MARKET RISK ADVISORY COMMITTEE MEETING

3

4

5 Wednesday, December 11, 2019

6 9:39 a.m. - 1:08 p.m.

7

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9 Location:

10 Commodity Futures Trading Commission

11 Three Lafayette Centre

12 1155 21st Street, NW

13 Washington, DC 20581

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1 PARTICIPANTS

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3 CFTC COMMISSIONERS:

4 Chairman Heath Tarbert

5 Commissioner Rostin Behnam

6 Commissioner Brian D. Quintenz

7 Commissioner Dawn DeBerry Stump

8

9 MRAC PARTICIPANTS:

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11 Ann Battle, ISDA

12 Stephen Berger, Citadel

13 Richard Berner

14 Lee Betsill, CME Group

15 Isaac Chang, AQR Capital Management, LLC

16 Biswarup Chatterjee, Citigroup

17 Alicia Crighton, Futures Industry Association

18 Matthias Graulich, Eurex Clearing AG

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22 Annette Hunter, Federal Home Loan Bank of Atlanta

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16 Dennis McLaughlin, LCH Group

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7 James Shanahan, CoBank ACB

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19 Rana Yared, Goldman Sachs

20 Thomas Wipf, Morgan Stanley

21 Scott Zucker, Tradeweb

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Dennis McLaughlin, Interest Rate

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Chief Risk Officer,

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and Global Head of Interest Rate

Products, CME Group

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Adjourn

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P R O C E E D I N G S

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(9:39 a.m.)

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MS. LEWIS: Good morning. As the MRAC Designated Federal Officer, it is my pleasure to call this meeting to order.

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Before we begin this morning's discussion, I would like to turn to the members of the Commission and the MRAC Chair for opening remarks. We will start with Commissioner Rostin Behnam, the MRAC Sponsor; followed by Chairman Tarbert; then Commissioner Quintenz; followed by Commissioner Stump; and finally, Nadia Zakir, the MRAC Chair. Unfortunately, Commissioner Berkovitz could not join us today. He sends his regrets.

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Now we will have remarks from Commissioner Behnam.

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COMMISSIONER BEHNAM: Good morning. Thanks, Alicia. There is a disabled train on the Northeast Corridor, so a couple people are late, and we're waiting for a few others. But we're going to keep things moving along. It's a pretty packed agenda, and

1 I figured let's just get through it. It's a busy time
2 of year, so we're going to have a long morning, but
3 we'll break hopefully at around 1:15, and then we'll
4 be done for the day.

5 So good morning again and welcome to the
6 MRAC meeting here. I want to thank Chairman Tarbert
7 and Commissioners Quintenz and Stump for being here
8 today as well. I also want to thank and acknowledge
9 the MRAC members and the invited speakers who are
10 going to participate today.

11 I would like to extend a special thanks to
12 Nadia Zakir, the MRAC Chair, for her commitment and
13 leadership; and, as always, Alicia Lewis, the
14 Committee's DFO, for her tireless and well-executed
15 work. There are obviously many, many individuals here
16 at the CFTC who make these committees work and run
17 smoothly, but none deserve more recognition than
18 Alicia. So thank you.

19 This morning we are going to receive updates
20 from the MRAC's three newest subcommittees: the
21 Climate-Related Market Risk Subcommittee, Market
22 Structure, and CCP Risk and Governance. The

1 Commission recently approved each of these three
2 subcommittees. And I appreciate my fellow
3 Commissioners and their support and thank each of the
4 subcommittee members for their willingness to serve
5 and contribute to these important market issues.

6 Although less than a month since Commission
7 approval, I know each of the Chairs will have an
8 important update for the MRAC from each of their
9 respective committees.

10 With that, I will take a moment to thank
11 each of the new Chairs -- Bob Litterman, Stephen
12 Berger, Lisa Shemie, Lee Betsill, and Alicia
13 Crighton -- for their leadership.

14 Following the morning panels, the MRAC will
15 receive a status report from the Interest Rate
16 Benchmark Reform Subcommittee covering its three
17 workstreams: from the Initial Margin Working Group,
18 led by Bis Chatterjee; the Clearing Working Group, led
19 by Marnie Rosenberg; and the Disclosure Working Group,
20 led by Ann Battle. Tom Wipf, Chairman of this
21 critically important subcommittee and Chairman of the
22 Alternative Reference Rate Committee of the Board of

1 Governors of the Federal Reserve System, will lead
2 that discussion.

3 I am proud of the accomplishments and
4 progress made by the MRAC and this subcommittee and
5 its contributions to the larger efforts by our
6 domestic and international counterparts, as we
7 collectively work to successfully transition away from
8 the London Interbank Offered Rate.

9 As an important first deliverable, in
10 September, the MRAC approved "plain English"
11 disclosures for new derivatives referencing LIBOR and
12 other IBORs. This standard set of disclosures,
13 prepared by the Interest Rate Benchmark Reform
14 Subcommittee, is intended as a helpful example of
15 "plain English" disclosures that market participants
16 could use, as they deem appropriate, with all clients
17 and counterparties with whom they continue to transact
18 derivatives referencing LIBOR and other IBORS.

19 The disclosures inform clients and
20 counterparties about the implications of using such
21 products, and provide additional transparency to the
22 market. That said, the "plain English" disclosures

1 are not meant to and should not undermine efforts to
2 complete transition in an orderly and timely manner.
3 More generally, the disclosures provide a tool as we
4 collectively work towards the end of 2021, when the
5 Financial Conduct Authority will no longer sustain
6 LIBOR.

7 After the Interest Rate Benchmark Reform
8 update, we will hear discussion of the CFTC's Office
9 of the Chief -- from the Office of the Chief Economist
10 and the subcommittee's findings on the uncleared
11 margin impact on transitioning certain legacy IBOR-
12 linked derivatives to risk-free rates.

13 Specifically, Richard Haynes, a CFTC
14 Supervisory Research Analyst, will discuss an OCE-
15 published CFTC research paper, "Legacy Swaps under the
16 CFTC's Uncleared Margin and Clearing Rules." The
17 paper provides important data about the landscape for
18 legacy swaps, which are swaps executed prior to the
19 implementation of the CFTC's Title VII margin and
20 clearing mandate. I believe the paper's conclusions
21 cement the important role the CFTC and other
22 regulators should play in providing critical market

1 data and regulatory relief for participants, where
2 needed and when appropriate, as we collectively stride
3 towards benchmark transition.

4 On that note, I believe the Chairman has an
5 announcement to make in the near future that will
6 validate the important role the CFTC and other
7 regulators play in the benchmark transition effort.
8 And I thank him for working with me on these important
9 issues.

10 The penultimate discussion will center on
11 ISDA's fallback consultations, including pre-cessation
12 triggers, and the parameters for benchmark fallback
13 adjustments. These are critically important issues
14 which have seen great progress in just the past few
15 weeks alone. Among many other efforts since 2016,
16 ISDA has spearheaded this critical work as part of the
17 larger global benchmark transition effort, and the
18 entire organization deserves recognition for excellent
19 and timely work.

20 Many challenges remain that demand
21 thoughtful consideration and eventual execution in
22 order to globally harmonize transition away from

1 LIBOR. Discussions raised several issues, including
2 most generally how to avoid significant market
3 disruption if the Financial Conduct Authority, as the
4 primary regulator of LIBOR, finds it to be non-
5 representative. Of note, the Financial Stability
6 Board's Official Sector Steering Group has encouraged
7 consideration of a pre-cessation trigger as a step
8 towards greater market certainty. A second concern
9 involves how non-EU jurisdictions, including the U.S.,
10 should respond if there is a determination under the
11 European Benchmark Regulation that LIBOR, although
12 still published, is non-representative of the
13 underlying market.

14 Finally, we will hear current proposals from
15 CME and LCH for transitioning price alignment interest
16 and discounting for U.S. dollar OTC-cleared swaps to
17 SOFR. I believe the MRAC's Interest Rate Benchmark
18 Reform Subcommittee can play an important role in
19 hosting critical discussions and potentially tabletop
20 exercises to game out the possible "big bang"
21 transition.

22 As we kick on the heels of 2020, much work

1 remains to be done in two short years. The ARRC's
2 Paced Transition Plan assumes significant transition
3 to SOFR in 2020. Operational readiness becomes
4 crucial to ensure organizations have set a solid
5 foundation internally to begin transition in earnest.
6 I remain committed to supporting this entire effort,
7 working with market participants and my official
8 sector colleagues to ensure the MRAC continues to play
9 an additive role in addressing challenges in a
10 thoughtful, measured way to ensure market continuity
11 and stability.

12 I look forward to today's discussion, and,
13 as you would imagine, we want to get going as soon as
14 possible to not waste time, but we will sort of be
15 flexible if we need to. I know folks may arrive on an
16 ongoing basis. We'll continue from this table and
17 then we'll get going and do whatever we need to do to
18 make sure that the day is successful.

19 So thanks again to everyone for being here.
20 Thanks to my fellow Commissioners and the Chairman,
21 and, of course, thanks to Nadia and Alicia. And I
22 look forward to today's discussion.

1 MS. LEWIS: Thank you, Commissioner Behnam.
2 Chairman Tarbert?

3 CHAIRMAN TARBERT: Well, good morning,
4 everyone. Thank you, Commissioner Behnam, for
5 sponsoring the MRAC. And thank all of you for coming.
6 And I understand today was a particularly difficult
7 day for some of you making your commute. So thank you
8 again for coming.

9 Alicia, as always, thank you for being the
10 Designated Federal Officer and organizing this.

11 And, of course, Nadia, thank you for your
12 time as Chair.

13 You know, I want to thank Commissioner
14 Behnam in particular for his tireless work over the
15 last year or two on LIBOR transition. Because of him
16 and because of the MRAC, we've been able to have a
17 very productive dialogue among industry and U.S.
18 regulators.

19 It's critically important, I think, that the
20 CFTC take a leadership role in helping the LIBOR-to-
21 SOFR transition, particularly in our space, in the
22 derivative space. And I just want to be very clear on

1 this: LIBOR is going away. The UK FCA has made very
2 clear that and has been unequivocal that after 2021,
3 it's not going to be around. And so for anyone
4 thinking LIBOR will continue into 2022, I just want to
5 give you a warning, and it's simply this: failing to
6 transition away from LIBOR is a source of risk to your
7 individual firm, and I believe it's also a potential
8 source of systemic risk to the global financial
9 system. And so as a result of that, I think the CFTC
10 is going to do everything we can, working with our
11 fellow regulators here in the United States and
12 abroad, to help provide that smooth transition.

13 The ARRC, of course, has requested a number
14 of relief items from various regulators here in the
15 United States and abroad, and the ARRC, of course, has
16 requested a number of issues addressed in our swaps
17 regulation. And I am pleased to
18 announce -- essentially what -- what -- yeah, I am
19 pleased to announce that we're going to move forward
20 with that. So next week, we will be issuing no-action
21 relief to address the concerns. And the concerns are
22 essentially, Can you take these legacy LIBOR swaps and

1 treat them the same way they were treated originally
2 if we amend them to make the transition to SOFR? So
3 that is our approach. It's very simple and it makes
4 perfect sense. So that's coming out next week. I
5 think we may be the first out of the gate on that.

6 And, again, I commend Commissioner Behnam,
7 the rest of my colleagues here on the Commission, as
8 well as all of you, in allowing us to move forward
9 quickly to provide the market with the stability it
10 needs.

11 The other thing that Commissioner Behnam
12 mentioned which I think is really important is this
13 issue of avoiding "zombie LIBOR." Right? That's
14 another lurking threat we have, which is the idea that
15 LIBOR may still be published for a limited period, but
16 after that period, it no longer represents a
17 representative benchmark. And so you have a situation
18 where things are still priced against a seemingly
19 alive rate whose integrity as a benchmark is
20 completely dead. So we want to avoid any potential
21 zombie LIBOR apocalypse, and we want to work with
22 ISDA, with the exchanges, and with the other relevant

1 parties to see what means we can do to address that
2 situation.

3 So thank you all for being here. And I look
4 forward to hearing your remarks. Thank you again.

5 MS. LEWIS: Thank you, Chairman Tarbert.

6 And now we'll have Commissioner Quintenz.

7 COMMISSIONER QUINTENZ: Thank you. And
8 thank you to everyone who is able to be here today.
9 Thank you to everyone who is trying to arrive today
10 and the efforts that everyone makes on a regular basis
11 to attend these very important meetings. I
12 particularly find them all very helpful in the
13 consideration of and the execution of my official
14 duties. So your attendance is highly valued.

15 Thank you, Commissioner Behnam, for all of
16 your work with this Committee, and especially on the
17 issue of LIBOR, a critically important issue for
18 everyone to get their heads around and take action on
19 in a short period of time, and even shorter period of
20 time since we first started discussing this.

21 Thank you, Alicia, for your tireless work,
22 and, Nadia, for your leadership of the MRAC.

1 I don't have an official statement, so in
2 the interest of time, I'll just leave it there, but
3 I'm looking forward very much to the discussion from
4 the subcommittees and the full Committee this morning.

5 Thank you.

6 MS. LEWIS: Thank you, Commissioner
7 Quintenz.

8 Commissioner Stump?

9 COMMISSIONER STUMP: I just wanted to echo
10 everything everyone has already said, but I would
11 applaud both the ambition and the efficiency of this
12 agenda. And in that spirit, I will reserve my
13 comments for later. Thanks to everyone who made this
14 meeting, and thanks to everyone who has helped pull
15 the operation of this meeting together. There is a
16 very interesting workload that goes into putting these
17 meetings together. So thanks to everyone here at the
18 Commission.

19 MS. LEWIS: Thank you, Commissioner Stump.
20 Many thanks to the Chairman and the Commissioners for
21 their opening remarks.

22 Now I would like to turn to Chair Zakir,

1 Nadia, for her remarks and to start today's
2 discussion.

3 MS. ZAKIR: Thank you, Alicia. I also just
4 wanted to take a minute just to thank each of the
5 members of the MRAC for your work on each of the
6 subcommittees. You know, I have had the pleasure of
7 being able to join the calls and meetings of the
8 subcommittees over the past couple months. They have
9 been incredibly thoughtful, sometimes spirited, but
10 very interesting, and I very much look forward to the
11 discussion today.

12 I also just wanted, you know, on behalf of
13 the MRAC, to thank Commissioner Behnam for his
14 leadership; also, Chairman Tarbert, as well as
15 Commissioners Berkovitz, Quintenz, and Stump for their
16 support of the MRAC. And a special thank-you to
17 Alicia Lewis and David Gillers for their work as well.

18 So turning to today's agenda, before we
19 begin, I'd like to do a roll call of the members on
20 the phone so we have your presence on the record.

21 After I say your name, please indicate your presence.

22 Isaac Chang, AQR Capital Management?

1 MR. CHANG: Present.

2 MS. ZAKIR: Thank you, Isaac.

3 Matthias Graulich, Eurex Clearing?

4 MR. GRAULICH: I'm present.

5 MS. ZAKIR: Thank you.

6 Lindsay Hopkins, Minneapolis Grain Exchange?

7 MS. HOPKINS: Present.

8 MS. ZAKIR: John Murphy, Commodity Markets

9 Council?

10 MR. MURPHY: Present.

11 MS. ZAKIR: Marnie Rosenberg, JPM?

12 MS. ROSENBERG: Present.

13 MS. ZAKIR: Dr. Betty Simkins, Oklahoma

14 State?

15 DR. SIMKINS: Present.

16 MS. ZAKIR: Suzy White, HSBC?

17 (No audible response.)

18 MS. ZAKIR: Rana Yared, Goldman Sachs.

19 (No audible response.)

20 MS. ZAKIR: Thank you. Just a few

21 logistical reminders. Committee members and speakers,

22 please make sure your microphone is on when you speak.

1 For the folks on the phone, if you could please mute
2 your line until you are going to be speaking, that
3 would be very much appreciated.

4 This meeting is being simultaneously
5 webcast. As a reminder, also please lean into the
6 microphone when you speak, and keep your phones away
7 from the console.

8 Members, if you would like to be recognized
9 during the discussion, please change the position of
10 your place card so that it sits vertically on the
11 table or just simply raise your hand, and I will
12 recognize you and give you the floor.

13 Members on the phone, we will give you an
14 opportunity to ask questions or make comments either
15 at the beginning or end of our discussions.

16 Our first order of business is a status
17 report from the following MRAC subcommittees:
18 Climate-Related Market Risk, Market Structure, and CCP
19 Risk and Governance. The MRAC voted to establish each
20 of these subcommittees at our June meeting this year,
21 and they were established this fall. The subcommittee
22 members have had meetings since their establishment

1 and will continue to meet independent of the full MRAC
2 in order to progress their respective objectives.

3 With that, let me introduce our subcommittee
4 Chairs.

5 Lisa Shemie is Co-Chair of the Market
6 Structure Subcommittee. Lisa is Associate General
7 Counsel, Chief Legal Officer, of Cboe FX Markets and
8 Cboe SEF, representing Cboe Global Markets.

9 Stephen Berger is also Co-Chair of the
10 Market Structure Subcommittee. Stephen is a Managing
11 Director and Global Head of Government and Regulatory
12 Policy at Citadel.

13 Bob Litterman is Chair of the Climate-
14 Related Market Risk Subcommittee. Bob is the Founding
15 Partner and Risk Committee Chairman at Kepos Capital.

16 Alicia Crighton is Co-Chair of the CCP Risk
17 and Governance Subcommittee. Alicia is the Chief
18 Operating Officer of Prime Services, US Clearing, at
19 Goldman Sachs, representing the Futures Industry
20 Association.

21 Lee Betsill is also Co-Chair of the CCP Risk
22 and Governance Subcommittee. Lee is Managing Director

1 and Chief Risk Officer at CME Group.

2 MRAC members, as a reminder, I will open the
3 floor to questions after each subcommittee's report.

4 At this time, I'm going to turn it over to
5 Lisa Shemie and Stephen Berger to please give their
6 report.

7 MS. SHEMIE: Thanks very much, Nadia. I
8 will start on behalf of Stephen and me. We just
9 wanted to, of course, thank Commissioner Behnam for
10 the opportunity to serve as Co-Chairs of the Market
11 Structure Subcommittee. And a special thank-you, of
12 course, to Alicia Lewis, who has been so helpful in
13 helping us organize, corral all of the views and
14 membership to allow us to try to come up with some
15 coherent work that's ahead of us. So thank you all
16 for the opportunity, which is very exciting to me, of
17 course.

18 So as Nadia said, I'm Associate General
19 Counsel and Chief Legal Officer at Cboe FX and Cboe
20 SEF, part of Cboe Global Markets. I support our
21 global FX business, and I'm sure, like most of us in
22 this room, many of the issues that we talk about every

1 day in our day-to-day jobs are issues that drive
2 market structure, that we'd like to see drive market
3 structure, and as a result, it's so exciting to be
4 able to work with market participants with such
5 divergent views to allow us to really help to play a
6 small role in moving market structure discussions
7 forward.

8 We wanted to just start by presenting the
9 way that we have worked together up till now and what
10 we hope to do going forward. We came up -- hopefully,
11 most of you have seen the report that are in your
12 materials, which sets forth a list of topics and
13 subtopics that we hope the Market Structure
14 Subcommittee may consider to tackle within the next 6
15 months to a year and beyond, we hope.

16 Stephen and I got together early on in this
17 process and took a look at the topics that all of us
18 were solicited to provide about 6 months ago -- sorry,
19 in 2018. So all of us came up with ideas and topics
20 that we wanted to look at, and there was a giant list,
21 and I'm sure most of us can appreciate the fact that,
22 you know, when given the opportunity to really

1 highlight issues of concern to our various firms, we
2 really all jumped at it, and as reflected in that very
3 long list, really just a tremendous diversity of ideas
4 that we thought we could put together.

5 So what Stephen and I first did was try to
6 make sense of this and try to whittle them down in a
7 way, not to eliminate any, but to put them in
8 categories that could really create threads of
9 principles through these topics so that we could
10 really be more productive and hopefully drive a
11 conversation in a way that could yield some results
12 and some real recommendations.

13 In starting those discussions, I think right
14 away it became clear how challenging this actually can
15 be. Stephen represents Citadel, I represent Cboe, and
16 we're not always aligned on all of these issues. And
17 I know that all of us in this room have similar
18 experiences where, because of the diversity of all of
19 us sitting in here, it is going to be an interesting
20 process for us to be able to synthesize and distill
21 the ideas that we have in a way that's really
22 impactful and helpful and can actually reflect

1 principles of market structure that we, as a group,
2 think should inform the Commission on its plans.

3 Once we had our initial work together,
4 Stephen and I, with Alicia's help, planned two calls
5 among the members of the subcommittee, and we went
6 over the list, the initial list, that we had put
7 together and asked and solicited the views of our
8 members. We had a really good discussion on both
9 calls and had full participation, which was wonderful.

10 And following that, Stephen and I got
11 together again and were able to, I think, really boil
12 down, based on some of the feedback we received from
13 members afterwards, all of the topics that we came
14 together under three principal categories of market
15 structure: trading, clearing, and reporting.

16 Obviously, each subcategory has several different
17 ideas under them in addition to some categories that
18 it was difficult to really slot into any one of the
19 major categories.

20 Certainly, many of the topics straddle the
21 three subcategories that we created, which certainly
22 will inform the challenges that we have ahead. I

1 think that we sort of joke that, you know, we are so
2 happy to be working on the Market Structure
3 Subcommittee, like even among the topics we were
4 talking about, there is obviously overlap with other
5 subcommittees as well, and we were very cognizant of
6 that and trying to stay in our lane so that even
7 though there are issues that may straddle some of the
8 other subcommittees, that we really try to create a
9 niche for ourselves and choose appropriate categories.

10 So, again, what we really tried to do was,
11 in creating those broad categories, think of it from
12 the perspective of each of our firms and how those
13 topics could really make sense for us in order to be
14 able to have a voice with the Commission. From my
15 personal professional role in supporting a global FX
16 business, there were several of the subtopics that
17 were really interesting to us, as an exchange
18 operator, and me, as the supporter of the FX business.
19 So, for example, we talk about the swap dealer
20 landscape issue under our major topic of trading, you
21 know, access of proprietary trading firms to SEFs, the
22 floor trader exclusion to see whether there is room

1 for building on the success of recent no-action that
2 was produced by the Commission recently. Could there
3 be amendments to the swap definition itself in order
4 to look at the dichotomy between the treatment of FX
5 forwards and non-deliverable forwards?

6 For us, we are interested in the clearing
7 mandate. You know, there had not been a discussion
8 for years around whether NDFs should be subject to a
9 mandate. That would be something that, as a SEF that
10 lists FX products, a very interesting future
11 discussion even if it's possible that it's really not
12 something at the front of our minds.

13 Equivalency determinations: As a staff, we
14 have been very interested in the Commission's efforts
15 in working with their counterparts abroad and bringing
16 equivalency to some of the regimes. And we note,
17 though, that even with the tremendous success that has
18 happened so far, there still remains barriers, at
19 least as far as we're concerned, in terms of having
20 participants from other jurisdictions join SEFs and
21 satisfy their own regulatory obligations.

22 And even for me, maybe an issue that isn't

1 at the forefront of most people's minds, but the
2 treatment of FX more broadly. How does the Commission
3 view the disparate treatment of deliverable forwards
4 and NDFs?

5 So what we did there in creating those broad
6 categories and very much soliciting the views of our
7 members, what we plan to do is create working groups
8 around all three of those major topics and have
9 subsets of the Committee membership work on those
10 broader topics. As you'll see from the report, there
11 are several bullets under each of them. We hope and
12 expect that each working group will hone in on some of
13 them, try to not necessarily tackle each of them, but
14 really determine, based on each firm's interest and
15 participants' bandwidth, how many we can work on and
16 whether we want to even combine some of them to create
17 fewer topics, but we do hope to look at all of them.

18 And then the plan would be to try to come up
19 with initial recommendations on behalf of the
20 subcommittee to present to the Commission during an
21 MRAC during 2020.

22 So certainly lots of work ahead of us.

1 Very, again, grateful for the opportunity to be part
2 of and play a small part in this very important
3 effort. And also just wanted to note how impressive
4 it is from our perspective that the Commission does
5 put such a huge effort into soliciting the views of
6 its constituents. This is so important to us, as a
7 firm, so important to me, as a professional, and being
8 able to have the ability and the opportunity to work
9 with my fellow market participants to inform the
10 Commission in its work I think is just such a valuable
11 experience personally and professionally.

12 I'd like to turn it over to Stephen to give
13 some more detail about some of the topics that we hope
14 to work on.

15 MR. BERGER: Thank you, Lisa.

16 After that excellent summary, I'm not sure I
17 have much to add, and I may only take things downhill
18 from where they've been brought.

19 MS. SHEMIE: Absolutely not; the opposite.

20 MR. BERGER: I think the first thing I'd
21 note is, you know, our hope is that nothing on this
22 list comes as a surprise. We think we've

1 identified -- I think there are a lot more topics in
2 market structure that people are interested in
3 weighing in on and debating and developing
4 recommendations with respect to than there are fewer.
5 So it was a difficult exercise to try to winnow things
6 down, but I think each of these issues are issues that
7 we've seen discussed, be they in proposed rules, in
8 other advisory committees, and roundtables over the
9 past few years.

10 So, you know, for example, within the
11 Trading Working Group, I think there has been an
12 extensive amount of conversation over the last 6 years
13 about the "made available to trade" process. I think
14 there's a recognition that there have been no "made
15 available to trade" determinations made since early
16 2014. There have been questions around whether the
17 process of asking SEFs to be the entities that have to
18 do self-certifications in order to actually extend the
19 trading obligation to a certain subset of swaps is the
20 appropriate path forward, and how that process aligns
21 with the processes that are taken in other parts of
22 the world. So I think that's an example of something

1 that we thought that was a very important piece of
2 market structure and a very logical topic to address.

3 Similarly, within the Clearing Working
4 Group, there have been countless discussions around
5 clearing member concentration, both in the swaps
6 market and the futures market. A lot of that has been
7 linked to discussions around certain Basel capital
8 requirements and how they may disincentivize the
9 provision of client clearing services by certain
10 clearing members that are affiliated with banks, but
11 we're not sure that that's the entire -- you know,
12 that there are other aspects of that to explore. And
13 while positive steps have been made with respect to
14 the capital aspect of that, I think there is still
15 important work to be done there to make sure that the
16 access to clearing is available for the full set of
17 end users who need access to clearing services.

18 And then similarly within the reporting
19 category, the post-trade transparency regime, I think
20 there has been a lot of thoughtful work that's been
21 done. There have been roadmaps published by the
22 Commission previously with respect to how both the

1 public -- the regulatory reporting and the public
2 reporting processes could be further enhanced, and
3 that's an area that we thought warranted revision.
4 And another aspect of that that jumped out at us is
5 that the block trade thresholds that have been set for
6 the interest rate swap and credit default swap market
7 haven't been recalibrated or updated since they were
8 first set by rule back in 2012 or '13.

9 So, you know, in each of these
10 areas -- trading, clearing, and reporting -- we
11 thought there were a number of topics that were
12 sensible areas where people could come together and
13 try to develop recommendations about things that could
14 be done to further enhance the structure of both the
15 swaps and the futures market.

16 And I think the list -- I want to just say I
17 think the list probably may seem a little swap market-
18 centric, and that's not something that was done
19 consciously. So I think we are definitely interested
20 in exploring both swaps market structure and futures
21 market structure enhancements, so you'll see a few
22 ideas on there that are certainly more futures market-

1 linked, such as open access and position limits.

2 So -- and certainly the clearing member concentration

3 topic is also one that cuts across swaps and futures.

4 You know, the swaps and the futures market structures

5 are quite distinct, setting aside accusations that one

6 was modeled on the other. So -- but so there are

7 different issues I think we do need to explore with

8 respect to each of those two markets.

9 And then one point I just wanted to pick up

10 on that we are also keenly aware of is in certain

11 instances, there are potential overlaps with other

12 either subcommittees of MRAC or other advisory

13 committees, so we've tried to footnote those where we

14 saw those, and we'll want to make sure to do any

15 deconfliction there so we don't either duplicate

16 efforts or do things that are inconsistent.

17 So with that, I'll pause. And we wanted to

18 provide an opportunity for anyone in the forum here to

19 ask questions or make any comments on any of the

20 issues that we have laid out here.

21 MS. ZAKIR: Thank you, Lisa and Stephen. I

22 also want to just really thank you for shoring up what

1 I view to be a very comprehensive list of issues, you
2 know, that impact sort of market structure around
3 derivatives more broadly.

4 And I guess one -- maybe I'll kick it off
5 with a question, and I also will invite the members to
6 ask questions -- but, I guess, you know, Lisa, you had
7 talked a little bit about obviously this is a very
8 comprehensive list of issues. You talked a little bit
9 about wanting to potentially narrow some of those
10 issues over time. Can you talk a little bit about how
11 you think that will unfold? And will this be mostly
12 consensus-driven? How do you anticipate sort of
13 narrowing down the list of issues for the
14 recommendations?

15 MS. SHEMIE: Sure. So I think the answer is
16 that we hope to sort of see how our initial meetings
17 with the trading groups go in January. I think that
18 our hope is that the committees -- the working groups
19 themselves that Stephen and I, of course, will
20 participate on will themselves be able to start to
21 find areas of agreement and focus that can distill
22 what seem to be very long lists into areas where we

1 really think that we can present impactful
2 recommendations.

3 I think that one focus that we'd really like
4 to have is, you know, in following our extremely
5 successful Benchmark Subcommittee, Benchmark
6 Transition Subcommittee, being able to present
7 recommendations on which the Commission can actually
8 act as opposed to opinion pieces that we've been
9 talking your ear off for years about.

10 So I think the hope really is to try to come
11 up with some actionable recommendations which will
12 really evolve, we hope, from these initial discussions
13 in January on each of the three trading working group
14 subgroups.

15 MS. ZAKIR: Thank you. I think another sort
16 of recommendation that I think was discussed during
17 the subcommittee was also to formulate that list of
18 issues and recommendations based on potentially what
19 the Commission may also have on its agenda, so sort of
20 agenda-driven given that these are recommendations to
21 the Commission more broadly on some of these topics.
22 So that may be another way to also potentially narrow.

1 And then you had mentioned that these would
2 be recommendations. And so is the expectation that
3 each of these three sort of working groups that have
4 been working around trading and clearing, for example,
5 would each have separate recommendations? Is that
6 sort of the thinking there?

7 MR. BERGER: I think our goal is that the
8 working groups will develop their proposed
9 recommendations for the subcommittee to look at, but I
10 think, you know, the goal is that we would coalesce
11 with a series of subcommittee recommendations that are
12 likely to address issues with respect to each of
13 trading, clearing, and reporting.

14 MS. SHEMIE: And I think Nadia is just
15 picking up on the point that you just made as well. I
16 think that if it's possible for us to sort of create
17 recommendations on each of the working groups that
18 have a common thread among them as well, I think that
19 would also be very impactful to be able to have a
20 unified voice from the subcommittee even among the
21 working groups. So maybe that's very lofty a hope,
22 but that is certainly what we will strive to do.

1 MS. ZAKIR: Thank you. And then a final
2 question for you before I turn it over to the members.
3 Do you have a sense of timing in terms of when you
4 anticipate formulating those recommendations for
5 presentation to the MRAC?

6 MR. BERGER: I think it will be an iterative
7 process, but our goal is to have some of the
8 recommendations ready to share by, you know, let's say
9 6 months from now. So not knowing exactly when the
10 next MRAC meeting will be, but in anticipation of one
11 occurring at some point in the perhaps late second
12 quarter of next year, that would be our goal, is to
13 have our first set of recommendations ready at that
14 time.

15 MS. ZAKIR: Great. Thanks again.

16 I will now turn it over to the members. If
17 there are any members who have any questions, please
18 feel free to either raise your hand or -- any comments
19 or questions?

20 Bis Chatterjee, please.

21 MR. CHATTERJEE: Thank you, Nadia.

22 Thank you again, Lisa and Stephen. I think

1 this is an excellent list of what could be in scope.
2 I think it looks fairly comprehensive. And, Lisa, I
3 think you mentioned these are issues that have been
4 put in front of the Commission or in working groups
5 sponsored by the Commission for many past years.

6 Thank you, Commissioner Behnam, for
7 sponsoring this issue. I think it was high time the
8 CFTC started convening on market structure formally.
9 Other agencies have already had similar forums in the
10 past, so I think it's very timely.

11 I would echo some of the comments I think,
12 Lisa, you alluded to, and Nadia was referring to, is
13 that market structure goes across all the three areas
14 you've identified. And, in fact, longer term market
15 structure, whether you look at the commodity market,
16 the futures market, or the swaps market, is also
17 impacted by changes happening outside these three
18 areas, like in technology, operations, and even
19 commercial. And we have seen historically that those
20 three areas have falsely impacted the market structure
21 going forward.

22 So I would love to see -- I think, Stephen,

1 you mentioned it's going to be an iterative process.
2 I kind of see this thing being separated into two
3 broad areas. You picked one or two areas that I think
4 have a very long-term impact, but I've also seen areas
5 that are currently hindering market risk and market
6 kind of efficiency, and probably a second list which
7 is kind of fine-tuning of a lot of like, you know,
8 previous legacy rulemaking or processes.

9 Stephen, you mentioned the MAT process or
10 even the mandatory clearing process, and my
11 recommendation would be that we separate the focus of
12 the Committee into very narrow, one or two longer term
13 impact areas that are recognized broadly as issues for
14 the whole market.

15 And the other recommendation I think would
16 be is to maybe work with the other Advisory Committees
17 sponsored by each of the Commissioners to see how the
18 tech ops and other market aspects that the Commission
19 looks at interacts with this market structure issue.

20 MS. ZAKIR: Thank you, Bis.

21 Vincent Johnson.

22 MR. JOHNSON: Hi. Thank you for the report.

1 I just have a -- it's more of a hopeful request, but I
2 think as you are aware, there's a -- I think there's a
3 very viable non-bank swap dealer market out there, and
4 you have this swap dealer trading working group. So I
5 think my request was hope that the team will consider
6 kind of looking at the landscape for the non-bank swap
7 dealers because I think it's a small one right now
8 with three, but I think there is appetite for it to
9 grow if the conditions can be set to make it kind of
10 viable for that. So just a request to take a look at
11 that and consider it.

12 MS. ZAKIR: Thank you.

13 If there are no more questions here from the
14 membership, I'd like to just turn to the phone. Are
15 there any comments or questions from members on the
16 phone?

17 (No audible response.)

18 MS. ZAKIR: Okay. If there are no further
19 questions or comments on the Market Structure
20 Subcommittee report, I just want to thank again Lisa
21 and Stephen. And I'll turn to Alicia and Lee.

22 Please go ahead.

1 MR. BETSILL: Good morning, everyone. I'd
2 like to thank Commissioner Behnam, Alicia Lewis, and
3 Nadia Zakir, as well as the rest of the MRAC for
4 allowing Alicia and I to present today on the
5 formation and initial meeting of the MRAC Subcommittee
6 on CCP Risk and Governance.

7 The Subcommittee on Risk and Governance is
8 to provide -- is founded to provide reports and
9 recommendations directly to the impact regarding
10 current issues impacting clearinghouse risk management
11 and governance.

12 I'd like to thank and express my pleasure
13 and an honor to be Co-Chair along with Alicia Crighton
14 for the important work that we will do over the coming
15 year in this area.

16 I would also like to thank those of the
17 Committee that volunteered. If it's all right, I'll
18 just announce the names. There is Richard Berner, of
19 the New York University Stern School of Business;
20 Matthias Graulich, of Eurex; Lindsay Hopkins, of the
21 Minneapolis Grain Exchange; Vincent Johnson, of BP;
22 Demetri Karousos, of Nodal, Nodal Clear; Kevin

1 McClear, of ICE; Dennis McLaughlin, from LCH; Dale
2 Michaels, from the Options Clearing Corp.; John
3 Murphy, from Mizuho; Marnie Rosenberg, of JP Morgan;
4 Dr. Marcus Stanley, from Americans for Financial
5 Reform; Robert Steigerwald, of the Federal Reserve
6 Bank of Chicago; Kristen Walters, from BlackRock; Suzy
7 White, from HSBC; and Rana Yared, of Goldman Sachs.

8 We thank all of you for volunteering to work on the
9 subcommittee with us during this coming year.

10 We're pleased to being our work on providing
11 actionable recommendations and, where we can, detailed
12 best practices to the MRAC in order to enhance and
13 advance the safety and soundness of cleared
14 derivatives markets. We held an initial meeting of
15 the subcommittee on Tuesday, November 26, where we
16 discussed the mandate for the Committee, potential
17 areas of focus, as well as white papers and other
18 industry materials that we could draw on to enhance
19 our discussion. Some of the things that we will look
20 to, to provide input to the Committee are the 2017
21 MRAC CCP Risk Management Subcommittee final
22 recommendations; the FIA's 2018 November paper on

1 "Central Clearing Recommendations for CCP Risk
2 Management"; the October 2019, "A Path Forward for CCP
3 Resilience, Recovery, and Resolution"; and December
4 2019, "Stress-Testing Networks: The Case of Central
5 Counterparties," by Berner, Cecchetti, and
6 Schoenholtz. Those are just some of the things that
7 we may draw on as well as the expertise of those on
8 the subcommittee.

9 Like the Market Structure Subcommittee, the
10 CCP Risk and Governance Subcommittee has agreed to
11 divide its work up. We have agreed that we will form
12 two working groups, one to focus on resilience topics,
13 and a second to focus on governance and capital
14 issues. We are currently looking to volunteers to sit
15 on those from the subcommittee.

16 With that, I will turn it over to Alicia to
17 talk about the topics which we discussed and will want
18 to focus on over the next year and how we'll perform
19 that work.

20 MS. CRIGHTON: Great. Thanks, Lee. And
21 again thank you to the Commissioners and the Chairman.
22 We are excited to begin our work on this -- these set

1 of important topics.

2 I think just to kind of pick up where Lee
3 left off, where we currently stand, as Lee mentioned,
4 is we're polling the subcommittee members to see which
5 of these two working groups they would like to be a
6 part of. What we do expect is, given the importance
7 of these topics and the makeup of the Committee, that
8 most Committee members will actually want to
9 participate in both working groups. So we do expect a
10 fair amount of work over the year ahead, so again
11 thank you for your participation to the members of the
12 subcommittee.

13 What we have committed to, as a
14 subcommittee, is to be able to build upon the work
15 that's already been done and be able to provide
16 actionable recommendations to the MRAC where possible.
17 I think it's important to note that with some of these
18 topics, I think we can all kind of identify which ones
19 they potentially are. It will be difficult to come to
20 agreement or potentially difficult to come to
21 agreement on what the recommendations are. However,
22 we do think we will be able to come to agreement on

1 what some of the principles are that will form the
2 basis of some of those recommendations.

3 So I think, you know, dividing up how we
4 sort of look to prioritize the world or think about
5 trying to make some progress on these different topics
6 is there are places where we think it will be easier
7 to come to agreement, and we'll look to try and
8 structure our discussions to focus on those topics
9 while having some of the more challenging topics, that
10 have historically been challenging, kind of let those
11 continue in their own forums so that way they don't
12 cloud the discussions around maybe topics such as
13 margin. So that way, we can keep the dialogue
14 constructive with the focus on, as I said at the
15 beginning, providing actionable recommendations to the
16 Committee.

17 Nadia, I know in one of the questions that
18 you asked earlier, kind of to touch on timing, our
19 goal, and I think similar to the Market Structure
20 Working Committee, is that we will look to provide an
21 update on our progress for the midyear meeting. And,
22 again, I think it will be iterative with a set of

1 substantive recommendations that we look to produce by
2 the end of year or the December 2020 meeting.

3 MS. ZAKIR: Okay, great. Thank you.

4 I guess just to kick off with a quick
5 question, can you talk a little bit more about some of
6 the specific topics that -- the subtopics I'll say
7 maybe -- that were discussed by sort of the members of
8 the subcommittee?

9 MS. CRIGHTON: Sure. There were seven
10 primary topics that the Committee focused on in our
11 initial call, and we decided, as Lee mentioned, to
12 divide them up into kind of a Resilience Working Group
13 and Governance and Capital. Under Resilience, I think
14 the key topics and themes that emerged are areas that
15 we want to focus on are discussions related to margin
16 and what some recommendations should be there, stress
17 testing, a liquidity framework -- and I loop those two
18 together -- and then principles of default management.
19 I think there our thought was, given other industry
20 work that's going on in default management and the
21 recommendations that are emerging from an industry
22 standpoint, it would be helpful to make sure that the

1 recommendations are aligned. So I don't think we're
2 looking to sort of chart a new course here; however,
3 leverage the work that's being done elsewhere.

4 In the Governance and Capital Working Group,
5 the topics of governance and transparency, including
6 cross-border regulatory issues, CCP capital and
7 default resources, most notably in that bucket will be
8 skin in the game, and then non-default losses.

9 So those are really the seven. I think they
10 are, each in their own right, is a very substantive
11 topic and will take multiple meetings to I think
12 really flesh out what the issues are and begin to sort
13 of approach what those recommendations are, which is
14 why we felt like dividing it at least into two working
15 groups would be important as a way to just structure
16 the meetings and the discussions. And our focus will
17 be to ensure that we'll be keeping each of the
18 meetings on those topics rather than scheduling a
19 margin discussion and then kind of focusing more on
20 skin in the game, for example.

21 So I think in order to keep us on course and
22 to try and make some progress on a number of these,

1 that will be our intended framework for those
2 discussions.

3 MS. ZAKIR: And do you expect that that will
4 be mostly consensus-driven in terms of prioritizing
5 those recommendations?

6 MS. CRIGHTON: Yes, that's what we
7 anticipate.

8 MS. ZAKIR: Okay. Thank you.

9 Any questions from -- any questions or
10 comments from the members?

11 Kristen Walters?

12 MS. WALTERS: Thanks very much, Nadia. I
13 just wanted to kind of highlight the importance of
14 this Committee, and I think -- of the subcommittee
15 that's being held on CCP risk. From a BlackRock
16 perspective, we've been long proponents of central
17 clearing post the financial crisis. We do think that
18 central clearing has mitigated risk in many instances.
19 For the last 5 or 6 years, a number of very senior
20 people in our firm, including Barbara Novick, our Vice
21 Chairman, our prior Head of Trading, Richie Prager;
22 current Head of Trading, Supurna VedBrat; myself,

1 Eileen Kiely, who's our Deputy Chief Credit Officer,
2 and a number of individuals have articulated more
3 broadly in public, to the Regulatory Committee, and at
4 this Committee about some of the concerns that we have
5 about potential for systemic risk in the central
6 clearing space.

7 And what we've tried to do as part of this
8 Committee -- and I've been involved since its
9 inception -- was to highlight, you know,
10 recommendations that both the buy side universally and
11 the sell side have embraced. And we've had a
12 difficult time getting consensus because some of the
13 issues are controversial. I don't think we'll
14 necessarily get to consensus as part of this
15 subcommittee, but I think it's very, very important
16 for us to have the dialogue.

17 I think from a BlackRock perspective, our
18 primary concern around resilience, recovery, and
19 resolution is some of the transparency around risk
20 management practices, improving the robustness of
21 margin calculations, and having a very concerted
22 effort to ask CCPs to allocate capital for the default

1 fund. This is a controversial topic. From my
2 perspective, I don't think it needs to be. There's a
3 very long standard in the banking markets for banks to
4 set aside losses from traditional loans, securities,
5 or derivative products.

6 Central clearing parties, counterparties,
7 most of them, are for-profit organizations, and so
8 their incentives, in part, are aligned around profit
9 generation for these firms. Currently, they hold very
10 little of their own capital in the default fund in the
11 instance of a default. We think it is absolutely
12 critical for CCPs to hold significant levels of
13 capital against default for -- to make sure that their
14 incentives are aligned from a risk management
15 perspective, from a profit perspective, and also to
16 have more of consistency with the way that insurance
17 companies, banks, and other institutions where losses
18 can affect broader financial markets in a very
19 systemic way. We think that capital is absolutely
20 critical.

21 I'd like to bring folks' attention to a
22 paper that we published with a number of other buy-

1 side and sell-side firms in late October that provides
2 recommendations around safety and soundness of central
3 clearing parties with a focus on resilience, recovery,
4 and resolution. And I'm very hopeful that at our June
5 meeting we can have individuals who participated in
6 those papers discuss some of the key recommendations.
7 And, again, this is with complete unanimous alignment
8 from the buy side and sell side, which, to be fair, in
9 my professional career across both sectors, rarely
10 happens.

11 MS. ZAKIR: Thank you, Kristen.

12 Dick Berner?

13 MR. BERNER: Thanks to Commissioner Behnam
14 for sponsoring this Committee and for organizing the
15 subcommittees. I agree with Kristen that the work
16 we're trying to do in the subcommittee is extremely
17 important. I think Alicia and Lee for their
18 leadership in that regard. I just want to echo one of
19 the comments that Bis made a little earlier, which I
20 think is obvious in the comments from Lisa, namely,
21 that there is a lot of overlap in the work that's
22 going on across the subcommittees, and I think that's

1 particularly true with the market structure group
2 where there is a clearing working group and a
3 regulatory reporting working group. And so I'd say we
4 look forward to collaboration on those issues. I
5 think that's extremely important.

6 The Commission has done a lot of good work
7 in outlining a roadmap for the future for regulatory
8 reporting, and I look forward to helping with the
9 implementation of that, particularly with the adoption
10 of new ways of thinking about the reporting process to
11 turn it from data collection into -- or from a
12 reporting process into a data-sharing process. So I
13 think all those things are really important in
14 considering these issues.

15 MS. ZAKIR: Bob Steigerwald?

16 MR. STEIGERWALD: Thank you. I'd just like
17 to add to the comments that Kristen just made. Of
18 course, it's widely recognized how controversial some
19 of the issues at play are in this area. Kristen made
20 an important point about the standards that apply to
21 banking organizations and insurance companies.

22 I would like to note that there is a

1 perspective that those standards do not directly
2 inform us in a meaningful way about the capital
3 standards and the participation and the default
4 waterfall that is appropriate for central
5 counterparties. CCPs are not banks, they are not
6 insurance companies, and they have to be regulated in
7 a proper fashion that's well-tailored to the nature of
8 the business they operate.

9 I'm sure we will have greater opportunity to
10 discuss these issues in detail. I just want to make
11 that other perspective known to the Commission.

12 MS. ZAKIR: Kristen, did you have another
13 comment?

14 MS. WALTERS: Sorry. Just a clarification
15 on the back of Robert's comments. So what I was not
16 doing was trying to imply that we should use exactly
17 the same capital framework that we use for banks and
18 insurance companies for CCPs. So thanks, because I
19 100 percent agree with what you're saying. The point
20 is more that we do feel that, given the size of the
21 organizations and the activities in the central
22 clearing space and the profit incentive of CCPs, that

1 it does make sense for them to allocate capital and
2 skin in the game to the default fund in some way. And
3 so meaning that that happens in other -- for other
4 regulated entities across financial markets. So I
5 absolutely agree there are very significant
6 differences between these two types of firms.

7 Thanks. Thank you.

8 MS. ZAKIR: Thanks, Kristen.

9 Demetri Karousos?

10 MR. KAROUSOS: Thanks, Nadia.

11 And good morning, everyone.

12 I just personally wanted to thank the Chair
13 of this subcommittee because I think you're taking on
14 an incredibly difficult task. I think it's fair to
15 say that our first call was spirited. And I think
16 you're getting a sense of that. I must say I think I
17 came to that call with the expectation that some of
18 the positions that folks were taking was just a
19 natural outcome of commercially where they were on
20 that equation, and coming out of that call, I am
21 increasingly convinced that a great outcome from this
22 process, if not clear recommendations forward that we

1 really do hope to achieve -- and I will join everyone
2 in doing our best there -- is certainly greater
3 education and understanding of the structures we're
4 talking about. So along the lines of what Bob just
5 said, I think there -- I walked away certainly
6 thinking there was some confusion about the role of
7 CCPs and exactly how they work to reduce systemic risk
8 and why CCPs and central party clearing was the clear
9 recommendation coming out of the G-20 way back when in
10 the wake of the great financial crisis.

11 So I certainly look forward to working with
12 my colleagues on the Committee, but I really hope, if
13 nothing else, that a greater understanding of how this
14 works and why this structure is so critical to
15 reducing risk in the financial network.

16 Thank you.

17 MS. ZAKIR: Thank you.

18 It doesn't look like there are any more
19 questions here from the members.

20 Why don't we go over to the phone. Any
21 members on the phone have any questions or comments?

22 MS. ROSENBERG: Hi, Nadia. It's Marnie

1 Rosenberg, from JP Morgan. I'd like to make a couple
2 of comments if that's okay.

3 MS. ZAKIR: Please go ahead, Marnie.

4 MS. ROSENBERG: Thanks. So I would just
5 again like to thank Commissioner Behnam for sponsoring
6 the MRAC and, in particular, sponsoring and initiating
7 the establishment of the Subcommittee on CCP Risk and
8 Governance. As many of you know, this topic has
9 been -- JP Morgan has been very involved in advocating
10 best practices and has been a thought leader on this
11 topic for probably 7 years and has published two
12 individual papers.

13 I think Kristen spoke extremely well on why
14 this is very important that we focus on these topics.
15 And we're completely aligned with BlackRock, as we
16 published the paper with eight other signatories, "A
17 Path Forward," and we would really appreciate the
18 opportunity to work through some of these
19 recommendations in the subcommittee.

20 In terms of what I think is really critical,
21 starting with margin, as Alicia already said, I think
22 focusing on what current margin requirements are,

1 particularly, on listed products and how we think
2 about margin levels currently.

3 And then, of course, the capital and
4 governance and transparency, those are really critical
5 to JP Morgan, and I think it's really key that we talk
6 about those issues both from a U.S. perspective, but
7 also from an international perspective.

8 And thank you, Alicia and Lee, for co-
9 chairing this subcommittee because I do think this
10 will be a challenging task to bring everyone together.

11 Thank you.

12 MS. ZAKIR: Anyone else?

13 (No audible response.)

14 MS. ZAKIR: Okay. Well, thank you, Alicia
15 and Lee. You definitely have your work cut out for
16 you. If there are no further questions for the CCP
17 Risk and Governance Subcommittee, I am going to turn
18 it over to Bob Litterman.

19 MR. LITTERMAN: Thank you very much. It's a
20 pleasure to be here.

21 Let me start my remarks by expressing my
22 deep appreciation to Commissioner Behnam, the CFTC's

1 Market Risk Advisory Committee, and the Commission for
2 creating the Climate-Related Market Risk Subcommittee
3 and asking me to chair it. I hope and expect that the
4 proposed June 2020 report from the subcommittee can
5 play an important role in guiding the climate response
6 of the U.S. financial community, and I'm honored and
7 excited to chair this very esteemed group.

8 For me, it was an unexpected but timely
9 opportunity to help work with an incredibly talented
10 group of risk management experts in the financial
11 markets on a topic, climate risk, that I've been
12 focused on for the past decade. Having spent a 23-
13 year career in risk management and investing roles at
14 Goldman Sachs, I have deep respect for the critical
15 role that the financial markets have in facilitating
16 the efficient allocation of capital in our market
17 economy, and the importance of appropriate regulation
18 and oversight.

19 I have an unusually eclectic background that
20 I think makes this assignment an excellent fit. I
21 grew up in Phoenix, Arizona, and did my undergraduate
22 studies at Stanford, where I majored in human biology

1 with a concentration in psychology. I initially
2 thought I was going to be a journalist, and my first
3 job was as a general assignment reporter for the San
4 Diego Union. After a year, though, I decided to go
5 back to school and got a Ph.D. in economics from the
6 University of Minnesota. I taught economics at MIT
7 for 2 years followed by 5 years in the Federal Reserve
8 Bank of Minneapolis working as a staff economist in
9 charge of economic forecasting.

10 In 1986, Goldman Sachs made me an offer I
11 couldn't refuse, and I began my career on Wall Street
12 as one of the early quants. I started in fixed income
13 research followed by a promotion to partner in 1994,
14 when I became the first firm-wide head of risk
15 management. In 1998, I moved to the Asset Management
16 Division and head of the quantitative group.

17 In 2009, I left Goldman and helped to create
18 Kepos Capital, a New York-based investment management
19 firm, where I am currently a partner and Chairman of
20 the Risk Committee.

21 I'm well-known in the financial community as
22 the co-developer, along with Fischer Black, of the

1 Black-Litterman Asset Allocation Model, which we
2 created 30 years ago and which is still widely used in
3 the investment industry to build portfolios that
4 optimally balance risk and return.

5 My focus on climate risk began when I left
6 Goldman and joined the board of the World Wildlife
7 Fund. Like many people, I was concerned that society
8 is not adequately addressing the risk created by
9 climate change. The increase in greenhouse gases that
10 humans have put into the atmosphere is the root cause
11 of climate change. And thus, as an economic and risk
12 professional, it was obvious to me that the risks
13 created by climate change must be addressed. There is
14 tremendous uncertainty about the precise levers and
15 tools to appropriately mitigate climate risk, and we
16 have to proceed with caution. But today, the
17 incentives around the world go in the wrong direction,
18 and this has to change.

19 I currently spend much of my time trying to
20 focus attention on the risks created by climate
21 change. This year, I have two publications in
22 scientific journals on the subject. In March, I and a

1 group of other scientists published "Natural Solutions
2 are not Enough," in the Journal of Science. And just
3 this past October, two colleagues and I published an
4 article in the Proceedings of the National Academy of
5 Sciences with the title, "Declining CO2 Price Paths."
6 In this article, we focus on how quickly the risk of
7 climate change is increasing and the extremely high
8 costs of delaying in addressing it. Rather than a slow
9 approach to taking action, we find that when you
10 appropriately take risk into account, the optimal
11 policies are to act as swiftly as possible so that we
12 can be confident that society will avoid the potential
13 worst-case outcomes.

14 Recently, many investors and other finance
15 professionals have recognized these risks and are
16 trying to understand how to best incorporate them into
17 their decision-making processes. Thus, the Climate
18 Risk Subcommittee is a timely regulatory response.
19 Moreover, the experts who make up this Committee are a
20 diverse and exceptionally talented group. They come
21 from financial, energy, and agricultural markets, the
22 banking and insurance sectors, data and intelligence

1 service providers, the public interest sector, and
2 academia. We are extremely fortunate that they have
3 volunteered to serve.

4 Our assignment is to write a report by June
5 of 2020 that focuses on climate-related financial and
6 market risks, and makes recommendations to the
7 Commission. We have an appropriately broad mandate,
8 including assessing and managing these risks. We will
9 focus on ways in which market participants can improve
10 the integration of scenario analysis and climate
11 stress testing into their risk management function and
12 financial reporting. We will address both the short-
13 term financial risks that may be associated with the
14 transition to a low-carbon economy, as well as the
15 current and future market and financial risks
16 associated with the physical risks that will arise
17 from a warming climate. Those latter risks include
18 more frequent or extreme weather events, such as
19 floods, droughts, heatwaves, and hurricanes, as well
20 as other direct impacts, such as increasing wildfires,
21 sea level rise, and ecosystem degradation; and
22 indirect impacts, for example, on human health and

1 national security.

2 I anticipate that at the heart of the report
3 will be a section on the implications for market
4 oversight policies, including disclosures, governance,
5 strategy, risk management, and conduct. We will also
6 try to identify and make recommendations with respect
7 to the types of scenarios and stress tests, as well as
8 the data and analytics that need to be developed and
9 used.

10 We intend to recommend additional market and
11 derivatives products that may improve the
12 identification and hedging of climate-related
13 financial risks and recommend policies designed to
14 facilitate capital flows required to finance the
15 transition to a low-carbon economy.

16 I hope that our report can provide a high-
17 level consensus from the financial community about
18 where and how we need to focus our efforts to address
19 climate-related financial market risk.

20 The Committee met for the first time in
21 November, and what impressed me was that, as we went
22 around the table and heard from the members, there

1 seemed to be a strong consensus that the appropriate
2 role of the public sector is not to direct
3 investments, but, rather, to provide incentives and
4 the appropriate regulatory framework and let the
5 market freely allocate capital.

6 We will meet again this Friday and plan to
7 further discuss the matters that I've mentioned to you
8 this morning, and consider other related topic areas
9 before finalizing an outline and developing
10 workstreams. We anticipate members to volunteer to
11 lead the various topics this week, and we will
12 continue to hold monthly conference calls throughout
13 the next 6 months as we do our work.

14 Again I want to thank the Commission for
15 giving us this opportunity to take on this important
16 assignment. And I'll be happy to take questions.

17 MS. ZAKIR: Thank you, Bob. I guess just to
18 start, you've laid out a little bit of the details in
19 terms of what are the specific topics and subtopics
20 that you expect the recommendations and/or the report
21 to cover. Can you talk a little bit about the
22 process? I know some of the other subcommittees, for

1 example, have mentioned that they are going to be
2 breaking up into separate working groups so that they
3 can prioritize and just sort of ensure that some of
4 those recommendations can be developed, while others
5 may have more challenges or issues, may be subject to
6 continued discussion. Do you have a sense of sort of
7 what that roadmap will look like for the report that
8 you are looking to prepare?

9 MR. LITTERMAN: Yeah, I think we will break
10 up into different workstreams. And I've been talking
11 to members of the Committee this week about which
12 workstreams they might want to lead, and we'll
13 probably finalize that on Friday. But we would also
14 anticipate that any member of the subcommittee that
15 wants to have input on different workstreams will be
16 able to. But it's early days, so I'm not sure how
17 we're going to break this up.

18 MS. ZAKIR: Understood. And do you expect
19 that those recommendations and those individual
20 workstreams will be largely consensus-driven in terms
21 of the topics that are actually shored up for the
22 recommendations?

1 MR. LITTELMAN: I certainly expect that, and
2 so far in my dealings with the subcommittee, there has
3 been a lot of consensus. And so I'm anticipating that
4 it will be very much consensus-driven.

5 MS. ZAKIR: Thank you. And you did mention
6 that you anticipate the report to be put forth before
7 the MRAC by June of next year. Is that right?

8 MR. LITTELMAN: That's what we're shooting
9 for, and I don't see any reason not to be able to hit
10 that deadline.

11 MS. ZAKIR: Okay. Great. Thank you, Bob.
12 I'm going to go ahead and turn it over to
13 the members for any questions or comments.

14 (No audible response.)

15 MS. ZAKIR: Okay. If there are no questions
16 for the members here, why don't we turn to the phone.
17 Any members on the phone have any questions or
18 comments?

19 (No audible response.)

20 MS. ZAKIR: Okay. Thank you, Bob. We look
21 forward to learning more about the developments there.

22 This concludes our discussion of the first

1 three status reports. Thank you again to the
2 subcommittees and their Chairs for their hard work.
3 And we look forward to hearing from you in the coming
4 year.

5 MS. LEWIS: Well, we are actually ahead of
6 schedule. So at this time, in keeping with the
7 agenda, we're going to take a 10 -- well,
8 Commissioner?

9 COMMISSIONER BEHNAM: Is Tom here?

10 MS. LEWIS: Tom is not here.

11 So we will actually take a 15-minute break.

12 So we are missing our subcommittee Chair for
13 the Interest Rate Benchmark Reform Committee. I
14 assume that he is on the train from New York, probably
15 stuck. Hopefully, he's reached Union Station. So
16 let's start out with a 15-minute break.

17 (Break.)

18 MS. LEWIS: Before we start with the
19 Interest Rate Benchmark Reform Subcommittee, I just
20 wanted to give those members who are on the phone and
21 that did not make the initial roll call an opportunity
22 to get on the record.

1 So do we have Suzy White, from HSBC, on the
2 line?

3 (No audible response.)

4 MS. LEWIS: Rana Yared, Goldman Sachs?

5 (No audible response.)

6 MS. LEWIS: Operator, I know Rana Yared is
7 on the line. Please give her an opportunity to be
8 patched in.

9 Rana Yared?

10 (No audible response.)

11 MS. LEWIS: Okay. Well, unfortunately, Rana
12 has disconnected. We will try and get her back on, on
13 the record later on in the program.

14 Okay, so now I'll turn it back over to Nadia
15 so that we can start the 1:10 discussion -- the 11:10,
16 I'm sorry.

17 MS. ZAKIR: Thank you, Alicia.

18 Our next agenda item is a report from the
19 MRAC's Interest Rate Benchmark Reform Subcommittee on
20 its work to date. And presentations from the
21 subcommittee's Initial Margin Working Group and the
22 CFTC, as well as ISDA. Tom Wipf is Chair of the

1 subcommittee. Tom is Vice Chairman of Institutional
2 Securities at Morgan Stanley and Chair of the
3 Alternative Reference Rates Committee.

4 The subcommittee, under Tom's leadership,
5 has been working diligently since it was established.
6 We will start with the subcommittee report.

7 Tom, you may begin.

8 MR. WIPF: Good afternoon, everyone. It's
9 an honor again to be presenting in front of the Market
10 Risk Advisory Committee on behalf of our Subcommittee
11 on Interest Rate Benchmark Reform. My name is Tom
12 Wipf, Vice President of Institutional Securities at
13 Morgan Stanley, and I represent the firm as Chairman
14 of the ARRC as well as on the board of ISDA.

15 I would like to take a moment to thank
16 Commissioner Behnam, Alicia Lewis, Nadia Zakir, the
17 MRAC, and the rest of the CFTC for the formation of
18 this subcommittee, as the transition to alternative
19 reference rates is a massive task ahead of us, and to
20 achieve success, it is paramount that we have close
21 coordination between the public and private sectors.

22 I would also like to thank the members of

1 the subcommittee for their hard work over the past
2 year. I have been impressed by the group's commitment
3 toward the MRAC's goal for us to be additive to the
4 LIBOR transition efforts from the ARRC and other
5 groups.

6 I would like to begin by first recapping the
7 key developments in the LIBOR transition that have
8 occurred since we last spoke back in September and
9 then to discuss our three agenda items. These items
10 are as follows on the agenda: discuss the CFTC and
11 MRAC's subcommittees' findings on the uncleared margin
12 impact of transitioning certain legacy IBOR-linked
13 derivatives to risk-free reference rates; we'll
14 discuss recent developments from ISDA as they progress
15 towards the publication of a voluntary protocol to
16 amend fallback language in legacy derivatives; we'll
17 discuss updated proposals from central counterparties
18 regarding adjustments to discounting and price
19 alignment interest.

20 Developments in LIBOR transition. So since
21 September, there have been a number of important
22 developments in the transition driven by both

1 regulators and market participants. Regulatory
2 developments include the following: U.S. Prudential
3 Regulators published proposed amendments to their
4 uncleared margin rules to provide broad-based relief
5 for interest rate reform. The CFTC received a letter
6 from the ARRC regarding regulatory issues associated
7 with the transition of derivative contracts from IBOR
8 rates to alternative risk-free rates. The letter
9 updates and consolidates earlier letters from the ARRC
10 to the CFTC requesting regulatory interpretative
11 guidance, and, obviously, we are very pleased at the
12 announcement today from Chairman Tarbert for the
13 relief that we will see on December 20, and thank you
14 for that work.

15 The FHFA sent a letter to the Federal Home
16 Loan Banks indicating that effective March 31, 2020,
17 they will no longer be able to enter into new assets,
18 liabilities, or derivatives referencing LIBOR that
19 mature beyond 2021.

20 The New York Fed published a consultation on
21 the proposed publication of SOFR averages and a SOFR
22 index, which both could be quite useful to market

1 participants as a substitute for LIBOR.

2 The OSSG sent a letter to ISDA reiterating
3 its preference to include a pre-cessation trigger in
4 ISDA's new fallback language.

5 The Federal Reserve Bank published its
6 semiannual Supervision and Regulation Report, which
7 mentioned LIBOR transition as a supervisory priority
8 for each type of organization covered within the
9 report.

10 Market developments include the following:
11 ISDA published the results of its consultation on
12 final parameters for benchmark fallback adjustments,
13 which Ann will discuss in later detail -- later.

14 ISDA will also respond to the OSSG's letter
15 on pre-cessation issues.

16 The ARRC published practical implementation
17 checklists to help market participants with the LIBOR
18 transition.

19 The clearinghouses have continued to refine
20 their proposals for how they will adjust discounting
21 and price alignment interest. This also will be
22 discussed in depth shortly.

1 For legacy LIBOR swaps initial margin
2 findings, in the June 2019 MRAC meeting, our
3 subcommittee presented its views on how certain
4 uncleared margin requirements may have an adverse
5 impact on the LIBOR transition absent any relief from
6 the CFTC. The MRAC's feedback from that discussion
7 was that in order to best inform CFTC's actions, the
8 subcommittee would attempt to quantify the impact to
9 uncleared margin if no relief is granted. Responding
10 to this request, the MRAC subcommittee worked with the
11 Office of the Chief Economist, the CFTC, to
12 approximate this impact.

13 A report was published by the Office of the
14 Chief Economist in November 2019 with Richard Haynes,
15 who is here to discuss that in detail. This report
16 calculated notional amounts for uncleared legacy IBOR
17 swaps and used the regulatory grid method to estimate
18 the initial margin that would be posted if these swaps
19 lost their legacy status. The subcommittee then used
20 the findings from this report to extrapolate what the
21 margin impact might look like using this same
22 approach. Bis Chatterjee will discuss this additional

1 analysis.

2 The findings from the Office of the Chief
3 Economist and subcommittee are approximations that are
4 meant to be useful to the CFTC as they deliberate on
5 relief from uncleared margin and the relief that was
6 announced earlier today.

7 From ISDA, ISDA has also made considerable
8 progress since we last spoke as it relates to the
9 finalization of benchmark fallback language. When
10 published, this language can be agreed to on a
11 voluntary basis for legacy trades. As of a certain
12 date post-publication of that protocol, ISDA will
13 amend its definitions to include these fallbacks in
14 all new trades.

15 ISDA consulted the market on the preferred
16 calculation parameters for historical average credit
17 adjustment to be included in these new fallbacks, and
18 the market preferred a 5-year median calculation.

19 At the request of the OSSG, ISDA consulted
20 the market on the inclusion of a pre-cessation
21 trigger. ISDA reports that the consultation results
22 were inconclusive, prompting the OSSG to send another

1 letter to ISDA reiterating its request for inclusion
2 of such trigger. Ann will discuss ISDA's progress to
3 date in much greater detail as well as ongoing work to
4 be completed before the protocol can be published.

5 From CCPs, we look to continue the
6 discussion that we had at the September MRAC meeting
7 around areas of coordination and potential risk
8 considerations from the current proposals put forth
9 for discounting and price alignment interest
10 adjustments from both LCH and CME. We will hear from
11 Dennis McLaughlin, of LCH; and Agha Mirza, of CME; who
12 will both give brief overviews of their current
13 proposals.

14 There are certain differences between their
15 respective proposals that the subcommittee recognizes
16 as potentially challenging from an economic and an
17 operational perspective. There was desire from the
18 subcommittee for consistency across the clearinghouses
19 in how they approach this adjustment to the greatest
20 extent possible.

21 Since the September MRAC meeting, both
22 clearinghouses have coalesced around a single

1 transition date. This is now scheduled for mid-
2 October 2020.

3 It was also mentioned at the September
4 meeting that the differences in compensation
5 methodologies between clearinghouses could be
6 problematic. Dennis and Agha will confirm, though it
7 is believed in the current proposals, these
8 differences in compensation methodologies do still
9 exist. We note that ultimately both clearinghouses
10 will enact plans that best represent their clients'
11 preferences.

12 The subcommittee discussed the operational
13 challenges and potential market turbulence that could
14 arise from separate methodologies as currently
15 envisioned. To improve market transparency into the
16 economic and operational dynamics occurring at the
17 time of the proposed Single Step, the subcommittee
18 asks that the MRAC consider the benefits and
19 considerations of a tabletop demonstration involving
20 both clearinghouses in 2020 well before the October
21 switch date. A public demonstration of this type
22 could help market participants think through their

1 respective steps to the Single Step event so they can
2 risk-manage appropriately well in advance. The
3 subcommittee's recommendation is that the MRAC host
4 such an event.

5 Finally, at the September MRAC meeting, we
6 also discussed the clearing treatment for certain
7 physically settled swaptions, particularly after the
8 Single Step transaction has occurred at the
9 clearinghouses. It was MRAC's view that the ARRC
10 would be the most appropriate venue to work on this
11 issue. In my capacity as the Chairman of the ARRC, I
12 can report progress and current thinking from the ARRC
13 on these topics. The ARRC has established a Swaptions
14 Working Group to focus on this issue.

15 There are no easy answers. These are
16 bilateral contracts that are not cleared by the CCPs,
17 and so CCPs are reluctant and do not view themselves
18 as having authority to require that compensation be
19 exchanged on any swaps that are delivered from an
20 uncleared swaption after the PAI discounting move.

21 One area where progress may be made is in
22 adding transparency to new bilateral swaption

1 contracts as to what will happen regarding PAI
2 discounting and any exchange of compensation. The
3 ARRC group is discussing that with ISDA.

4 For legacy swaptions, the group is looking
5 at a model in which CCPs could provide pricing tools
6 to let people calculate the difference in valuation
7 between effective Fed Funds and SOFR-discounted swaps.
8 If a swap came to the CCP with a flag indicating that
9 compensation should be exchanged, they could help to
10 facilitate an exchange subject to confirmation or
11 other requirements. However, this would not fully
12 address the issue that counterparties who will receive
13 compensation would advocate for a compensation
14 mechanism while those that would pay compensation
15 might be less inclined to support that.

16 The ARRC could recommend compensation as a
17 best practice if there was general market support, but
18 the ARRC cannot require or enforce any compensation
19 mechanism. Market participants need to clarify fairly
20 soon on these issues -- need clarity very soon on
21 these issues, and we will keep working to provide this
22 clarity wherever possible.

1 Going forward on next steps, this
2 subcommittee's work will continue after this meeting,
3 and we intend to have another update for this group at
4 the next meeting of the MRAC. I expect the discussion
5 of coordination between the clearinghouses on their
6 respective Single Step proposals will be ongoing for
7 the next several weeks and months. I would reiterate
8 our request to the MRAC to consider the merits of
9 hosting a public tabletop demonstration in how that
10 transparency into the Single Step transition that
11 would benefit the market.

12 We welcome any feedback from the MRAC on our
13 areas of focus and any recommendations. The MRAC and
14 the CFTC's guidance has been helpful and instrumental
15 in our work thus far, and we look forward to further
16 collaboration with this group.

17 Once again, I would like to thank
18 Commissioner Behnam, Alicia Lewis, Nadia Zakir, and
19 the MRAC for this opportunity for this public-private
20 effort, and I thank you on behalf of our subcommittee.

21 And I will turn back to the Chair.

22 MS. ZAKIR: Thank you, Tom.

1 And what we're going to do is we're going to
2 actually hold the questions until the full
3 subcommittee report.

4 So let's go ahead and we can turn now to the
5 presentation on "Legacy LIBOR Swaps and Initial Margin
6 Findings."

7 Tom, I will turn it over to you to introduce
8 the topic and the speakers, please.

9 MR. WIPF: Okay. We are going to pass this
10 to Bis and Richard to discuss the findings of their
11 work between -- since the last MRAC meeting on this
12 topic.

13 Bis and Richard?

14 MR. HAYNES: Can you hear me? Okay, I think
15 this is going.

16 Thank you, Tom. Thank you, Alicia. Thank
17 you, Nadia. Thank you to all of the MRAC and also to
18 the Commissioners for having the opportunity to
19 present today.

20 Over the last few years, the Office of the
21 Chief Economist has been publishing an aggregate view
22 of risk transfer and swap markets across rates,

1 credit, and FX. To generate these reports, we have
2 developed the concept of entity-netted notionals, a
3 measure of duration-adjusted risk netted within the
4 counterparty relationship. Our office developed this
5 tool to provide what we believe is a better measure of
6 risk transfer than other metrics, like gross notional.

7 For example, where we observed just under
8 \$250 trillion of gross IRS notional, this translates
9 to only around \$15 trillion of entity-netted
10 notionals, a number much closer to that of the size of
11 U.S. Treasuries and corporate bonds.

12 We use this ENNs work to analyze the size
13 and composition of the legacy swap portfolios of CFTC-
14 covered entities, and earlier this year released a
15 summary of our results. More recently, we updated
16 this paper to include analysis of a specific subset of
17 legacy swaps, those referencing IBOR benchmarks, and
18 this is what I will speak to specifically today.

19 Currently, a number of regions, as everybody
20 knows, around the world are in the process of
21 transitioning away from a set of IBOR rates. Here in
22 the U.S., steps have been taken to shift from USD

1 LIBOR to other more robust rates, like the Secured
2 Overnight Financing Rate, or SOFR.

3 This transition has generated a set of
4 regulatory questions. For instance, if a legacy swap
5 switches from referencing USD LIBOR to SOFR, would
6 this adjustment cause the swap to lose its legacy
7 status? In order to estimate the magnitude of the
8 swap universe potentially affected by these decisions,
9 our office turned to our ENNs toolkit.

10 You can see in this table, which I will
11 bring up right now, and I believe is also in your
12 packet here, this table has a high-level summary of
13 our results. This table provides both a notional, on
14 the left-hand side, as well as an ENNs, on the right-
15 hand side, summary of uncleared IBOR-based rate swaps
16 as of mid-September this year. The top line provides
17 the notional and ENNs of dealer-to-dealer swaps in
18 this category, and the other rows show the notional
19 and ENNs of dealer-to-client swaps broken down by
20 client type.

21 As you can see, uncleared IBOR swaps are
22 held by a wide set of non-dealer counterparties; for

1 instance, pension funds, insurance companies, non-
2 financials, hedge funds, et cetera; I mean, all the
3 categories, a wide variety of clients. In aggregate,
4 dealer-to-client swaps, which is all but the first row
5 that you see there in the table, represent a total of
6 just over \$6 trillion of notional -- that's the final
7 line, the total non-swap dealer line -- which nets
8 down to just under \$2.5 trillion of 5-year equivalent
9 legacy ENNs, and that \$2.5 trillion is both on the
10 long side of these swaps as well as on the short side
11 of these swaps, so it's relatively balanced.

12 Okay. If the IBOR transition causes swaps
13 to lose legacy status, one effect would be the
14 introduction of an initial margin mandate for
15 counterparties that have been phased in. The ENNs
16 calculation provides a high-level way -- and I want to
17 emphasize that -- a high-level way of estimating
18 initial margin levels, assuming this loss in status.

19 To create this estimate, we use the standard
20 grid method to calculate potential initial margin
21 requirements. For 5-year rate swaps -- and 5-year
22 rate swaps is what is used within the ENNs

1 calculation, so that \$2.5 trillion measure that you
2 see in the table there on the right-hand side is a
3 5-year notional equivalent. In the grid, the notional
4 multiplier is 2 percent. Okay? So, using this
5 multiplier, we get an IM level of around \$50 billion
6 on both the long, as well as on the short sides of
7 these trades, of these uncleared IBOR-based swaps, for
8 an aggregate total of around \$100 billion of initial
9 margin associated to this subset of swaps.

10 As comparison, this is approximately the
11 size of the initial margin collected by the CME
12 against all house and client futures positions. So
13 that gives you a little bit of a benchmark about the
14 size of this estimate.

15 The paper, which is now on our website and I
16 believe also in everybody's packet there in front of
17 you, provides additional detail and notes that our
18 calculation methodology, I think obviously, includes a
19 number of important caveats I will note, too, right
20 now. First, this estimate used the grid method,
21 which, as everybody knows, is a relatively
22 conservative method. Bis will speak to a separate

1 method that is commonly used on grid swaps, the SIMM
2 methodology, to give a little bit of a sense of how
3 varied these estimates can be.

4 Second, this estimate assumes that no IM is
5 currently being voluntarily collected by swap
6 counterparties. Of course, if any initial margin is
7 currently being voluntarily exchanged, that would take
8 down on the margin any additional requirements that
9 may come if legacy status is lost.

10 So I will finish there, and I will just say
11 that I hope this analysis and other analysis that you
12 can find in the paper is of interest both, to all of
13 you, to market participants, to other regulators.

14 And I would again like to thank everybody
15 here at MRAC as well as Commissioners, Alicia, and
16 Nadia, for the opportunity to present the results that
17 we have put out very recently. Thank you again.

18 MR. CHATTERJEE: Thank you, Richard.

19 And on behalf of the Interest Rate Benchmark
20 Reform, and especially the IM Working Group, we
21 express our gratitude because in the last 6 to 7
22 months, none of this work would have been possible

1 without the active engagement and the publication of
2 the data, which was fundamentally important to I think
3 what Tom alluded to, is in the June MRAC meeting, we
4 discussed that any request for relief to the
5 Commission and other agencies, that not even the
6 Prudential Regulators have asked for, would not really
7 sound meaningful unless we were able to substantiate
8 with some kind of quantitative numbers that, instead
9 of kind of identifying an individual number, would
10 give us a range or an estimate of what the impact
11 would be. Chairman Tarbert this morning mentioned
12 that the Commission is making all its efforts to ease
13 the transition to LIBOR, and the subcommittee
14 identified that the impact of losing legacy status is
15 one of the largest impediments.

16 So again thank you, Richard, to you and the
17 Office of the Chief Economist.

18 I would like to kind of pick up on the
19 analysis that Richard laid out, which is that the
20 industry, especially in the first three phases of
21 industry participants that have migrated to mandatory
22 posting of IM, the industry largely uses a more

1 regulatory approved SIMM model to calculate IM
2 bilateral postings. While the grid method serves as a
3 backup and we think that going forward there may be
4 entities across the world for various reasons may
5 continue to rely on the grid method, we think that the
6 more sophisticated SIMM model is what is going to be
7 used, even by the Phase 5 participants.

8 To progress our work on moving the estimates
9 and notional and the grid method to what it would look
10 under the SIMM method, the working group worked with
11 ISDA where over the last 12 months various detailed
12 analysis has been done, and we analyzed legacy
13 portfolios that participants voluntarily submitted to
14 understand the nature of the underlying trades. Now,
15 these were all submitted on an anonymized basis to
16 protect the position and the trades of the individual
17 submitting parties.

18 One thing to note, that while we look at the
19 notional that has been presented by Richard and his
20 office, this is going to be spread out over possibly
21 1,000-plus counterparties and across 9,000-plus
22 relationships that exist among -- between the Phase 5

1 participants and the swap dealers. So this number
2 will have and covers significantly meaningful amounts
3 of market participants.

4 The one thing to note that Richard mentioned
5 there are a couple of caveats, one thing I would add
6 to and which applies a little more to the SIMM model,
7 is that each phase-in, and especially Phase 5
8 categories, have a certain minimum level of notional
9 and margin posting requirement before they are subject
10 to mandatory posting, and that, in turn, may kind of
11 temper the numbers that, you know, we are seeing on
12 screen. However, another offsetting
13 effort -- offsetting impact that the SIMM model has is
14 that the SIMM model is a fairly sophisticated risk and
15 portfolio-netting model.

16 Typically, what we have historically seen
17 across the industry is that swap dealer portfolios
18 tend to be more well-balanced in terms of risk
19 offsets, whereas some of the end user Phase 5
20 participants, depending on the nature of their
21 investment strategies, may have more lumpy or
22 concentrated on one-sided impacts. So that takes a

1 counter effect that it may actually give them less
2 offsetting benefits, and then their SIMM numbers might
3 actually track closer to the grid numbers. And we
4 continue to evaluate that, and that was an important
5 aspect.

6 So based on all of these historical studies
7 and looking at the notional numbers, while the grid
8 model pointed to the fact that the initial margin
9 number would probably be in the \$90 to \$100 billion
10 range, the SIMM model number lies about in the \$40
11 billion range. And, you know, while it looks like it
12 would be about half of what the grid model would look
13 like, again I would emphasize there are a number of
14 caveats that make it move between participants being
15 out of scope or less portfolio benefits. The model
16 may move -- the model number may move like, you know,
17 5 to 10 percent in either direction.

18 So that being said, I would like to go back
19 to Tom's comment, is that the Committee set out
20 earlier this year, and especially after the June MRAC
21 meeting, to come up with a range of numbers that we
22 think will realistically frame the impact of the

1 transition of the benchmark and what it would cause as
2 an impact to legacy status. And you can imagine an
3 initial margin number in the range of \$40 to \$100
4 billion is a significant impact and a significant
5 hurdle. And so any consideration that potential
6 regulators or the CFTC may look at this, it would
7 greatly, I think, help the issue.

8 So with that kind of analysis in mind, the
9 Interest Rate Benchmark Reform, and especially the IM
10 Working Group, would like to recommend to the broader
11 MRAC that the MRAC approve the considerations of the
12 IM funding prepared by the subcommittee and the
13 working group, and that MRAC recommend to the
14 Commission that the Commission consider these findings
15 in their effort and analysis and ultimately their
16 recommendations regarding any relief.

17 Thank you.

18 MS. ZAKIR: Thank you, Richard and Bis. We
19 will consider the subcommittee's recommendation at the
20 end of Ann's presentation.

21 Ann Battle is the Disclosure Working Group
22 leader of the Interest Rate Benchmark Reform

1 Subcommittee, and she is Assistant General Counsel at
2 ISDA. Ann will give a presentation on recent
3 developments involving ISDA, ISDA's derivative
4 fallback consultations.

5 Ann, you may begin.

6 MS. BATTLE: Thank you. We've circulated
7 some slides that you should have. I'm not sure if
8 it's possible to put them up.

9 But today I'm going to give a little bit of
10 an overview of the work that ISDA is doing to
11 implement fallbacks and the documentation that we
12 published for derivatives. I believe that we
13 introduced this work at an MRAC meeting last year, but
14 today I will give an update on the consultations that
15 we have run in 2018 and 2019, including, as Tom
16 mentioned, the very recent consultation on what we're
17 calling the final parameters for the spread and term
18 adjustments in derivatives fallbacks. I will also go
19 over the expected timing in the coming 6 to 7 months
20 for implementation of these fallbacks and mention some
21 of the open issues.

22 While we work on putting the slides up, I'll

1 just start to level-set for anyone who is not aware.
2 ISDA publishes standard definitions that are used in
3 the non-cleared, and in many cases cleared, OTC
4 derivatives market. In Section 7.1 of those
5 definitions, we publish what we call rate options, and
6 the rate options are what counterparties select as the
7 floating rate in OTC derivatives that have a floating
8 rate. And so by publishing these in a standard place,
9 we are lucky to have the ability to also update them
10 on a standard centralized basis to include more robust
11 fallbacks.

12 Fallbacks are one aspect of the very
13 important work to move the market away from LIBOR. As
14 has been covered, there are also efforts to simply
15 start trading SOFR and other alternative rates on a
16 go-forward basis, and if you do that, you don't need
17 fallbacks. Similarly, in the coming 2 years, we hope
18 to see market participants voluntarily trade away from
19 LIBOR prior to any cessation or other event. And I
20 think the margin relief that's been discussed will
21 remove one of the major impediments to market
22 participants agreeing to those amendments.

1 However, it is expected that if and when
2 LIBOR is, in fact, discontinued, there will be
3 exposure to LIBOR outstanding. And so by inclusion of
4 these fallbacks either in LIBOR contracts that market
5 participants continue to enter into, based on the 2006
6 definitions on a go-forward basis or, as we'll get to,
7 by amending legacy LIBOR contracts to include the
8 amended and restated definitions, and, therefore, the
9 fallbacks, market participants will protect themselves
10 from the disruption that could occur if LIBOR is
11 discontinued and their contracts don't contain a
12 clear, certain, and consistent fallback rate.

13 So when we update our definitions, the
14 floating rate today, tomorrow, or any time prior to
15 triggering the fallbacks will remain the same.
16 However, the definitions or the rate options will be
17 amended and restated to provide that if there is a
18 trigger or another -- if there is a trigger, either an
19 index cessation event or something similar that
20 provides for moving to an alternative rate, those
21 contracts will instead reference an adjusted version
22 of SOFR or the relevant risk-free rate for the IBOR

1 that the contract references today.

2 We have the ability to update the 2006
3 definitions by publishing a supplement thereto. We
4 have actually published now over 60 supplements, and
5 so that is how we intend to publish or implement the
6 amended and restated rate options with the fallbacks.

7 Now, importantly, when we do that, the
8 amended and restated rate options will continue
9 to -- will apply to contracts entered into on or after
10 the effective date. And I will get into some of these
11 expected dates at the end of the presentation.
12 However, the amended and restated rate options, and,
13 therefore, the fallbacks, will not apply to any
14 contracts entered into before the effective date of
15 the supplement.

16 The amended and restated rate options will
17 also be published centrally with our definitions, so
18 conceptually sometimes I think it's easy to visualize
19 that if you have a confirmation for a fixed floating
20 swap and the floating rate is LIBOR, that confirmation
21 the day before and the day after we publish the
22 fallbacks will look exactly the same, it will simply

1 contain the name of the rate option. But once the
2 supplement, with the amended and restated rate options
3 takes effect, that swap will contain the fallbacks,
4 whereas the confirmation that looks identical but that
5 was entered before that date will not.

6 So it's a very efficient tool, at least on a
7 go-forward basis for embedding these fallbacks in the
8 derivatives infrastructure. Given how efficient it
9 is, it's also a blunt tool, and so we've taken a lot
10 of care over the past several years to ensure that the
11 fallbacks we're implementing will work for the entire
12 market or will work for the entire market to the
13 maximum extent possible.

14 So this next slide goes through the protocol
15 that I think many people have heard about that we
16 expect to launch in early 2020, and that protocol is
17 to provide an efficient, although slightly less
18 efficient way, for market participants to voluntarily
19 agree that the amended and restated rate options apply
20 to their legacy LIBOR contracts. So this will be
21 critical to ensure that to the extent the hundreds of
22 trillions of dollar notional of LIBOR swaps that are

1 outstanding today contain the more robust fallbacks or
2 contain the fallbacks to the adjusted risk-free rates
3 in the event that they are not closed out or otherwise
4 amended to reference a different rate prior to the
5 cessation of LIBOR.

6 The protocol, in its most basic terms, will
7 essentially say that among adherence to the protocol,
8 irrespective of the date that they entered into a
9 derivative that references LIBOR or one of the other
10 key IBORs that we're covering, that reference to LIBOR
11 or the other IBOR will be a reference to the amended
12 and restated rate option. So it will be a reference
13 to the rate option with the fallbacks to the adjusted
14 form of the risk-free rates.

15 So the protocol itself doesn't contain a
16 long form drafting of fallbacks, it's just the
17 mechanism whereby counterparties can agree because, as
18 I mentioned, ISDA does not have the ability to go in
19 and manipulate a derivatives contract that has already
20 been entered into. Counterparties have to
21 affirmatively agree to that change even though, again,
22 in this case, the change won't be a change to the

1 reference rate on the date of that agreement, it will
2 just be a change to provide that if fallbacks are
3 triggered, that contract will contain the clarity and
4 certainty of the new fallback rates.

5 I mentioned the word "voluntary" a couple of
6 times, and that's really critical. It will be up to
7 market participants to adhere to the protocol or to
8 otherwise bilaterally agree that their references to
9 LIBOR and the other IBORs are based on the amended and
10 restated rate options.

11 A protocol is arguably more efficient than a
12 bilateral amendment because when a counterparty
13 adheres to the protocol, they are agreeing that with
14 all of their counterparties who also adhere to the
15 protocol, the amendments made by the protocol, so, in
16 this case, the amendments to use the amended and
17 restated rate options with the fallbacks, will apply
18 to all contracts between those counterparties.

19 Importantly, however, if a market
20 participant adheres and only three out of their five
21 counterparties adhere, they will have the new
22 fallbacks with those three counterparties, but they

1 will not with the other two counterparties. Just like
2 any amendment to the terms of a contract, both
3 counterparties are required to agree in order for the
4 amendments to be effective. So in that scenario, the
5 counterparty that had adhered will have to bilaterally
6 mitigate the contracts with the two counterparties
7 that did not adhere. Adherence, again, I said is
8 arguably more efficient because at least with the
9 three counterparties that adhere -- and we can hope
10 that all five counterparties will adhere -- the
11 counterparty that also adhered won't have to go
12 through the trouble and negotiation of putting in
13 place bilateral agreements. So if there is broad
14 market take-up of this protocol, it will significantly
15 reduce the amount of work that's required to address
16 risk in legacy contracts.

17 So I mentioned several times that the
18 fallbacks will be to an adjusted version of SOFR or
19 the other risk-free rates. And so I think when ISDA
20 presented to the MRAC last in 2018, it was actually on
21 the day that we launched our first consultation
22 soliciting market feedback on what those adjustments

1 should be. That consultation, I am happy to report,
2 was, in fact, successful, and yielded a global market
3 consensus in favor of adjusting the risk-free rate by
4 compounding it over the relevant tenor to cover off
5 the differences in term structure between LIBOR and
6 other IBORs and SOFR and the other risk-free rates.
7 It also resulted in a consensus that market
8 participants prefer to add a spread adjustment which,
9 based on the results of that consultation, would be
10 calculated by taking a historical mean or median of
11 the differences between the relevant IBOR and the
12 relevant risk-free rate.

13 We confirmed the results of that 2018
14 consultation for U.S. dollar LIBOR, CBOR, and HIBOR in
15 a consultation in May of 2019. And in response to
16 that consultation, market participants also agreed to
17 use those same two adjustments. In response to that
18 consultation, in addition to supporting those
19 adjustments from a substantive basis, market
20 participants very strongly supported using consistent
21 adjustments across the different IBORs.

22 We have one more consultation to do on the

1 basic adjustments that will apply, and that's for Euro
2 LIBOR and Euribor, and we expect to launch that next
3 week and give market participants a relatively short
4 period of time to confirm the results of the 2018 and
5 2019 consultation for those fallbacks. We covered off
6 U.S. dollar LIBOR in 2019 instead of the 2018
7 consultation because SOFR was only published a couple
8 of weeks before the 2018 consultation. We've held
9 back consulting on Euro LIBOR and Euribor because
10 €STR, or Euro STR, which is the fallback rate for
11 those IBORs, was only published in October of this
12 year. So by middle to end of January, we hope to have
13 confirmed these adjustments for all of the IBORs that
14 we are covering in the amendments to our definitions.

15 And then I want to spend some time digging
16 into the results of the consultation that I said
17 concluded recently on the final parameters for these
18 adjustments, and that is what takes us from what we
19 are calling the historical mean median approach to the
20 more definitive adjustment that is based on a 5-year
21 historical median of the relevant IBOR compared to the
22 relevant risk-free rate.

1 So in the recent consultation from this
2 fall, we asked market participants about whether the
3 length of the lookback period that they preferred for
4 calculating that spread adjustment and whether they
5 referred for the spread adjustment to be based on a
6 mean or a median. And as a result, market
7 participants favored a 5-year median. There was
8 support for using a 10-year trimmed mean, but
9 ultimately we found consensus with respect to the
10 approach that we are moving forward with.

11 And I think, very importantly, very few, if
12 any, market participants who responded to that
13 consultation raised major concerns or said that they
14 would be prevented from trading if the spread
15 adjustment was based on a 5-year median. So while
16 they may have preferred a 10-year trimmed mean, they
17 didn't necessarily have a problem with the 5-year
18 historical median. So that was very important
19 information gathered pursuant to that market
20 consultation.

21 So the spread adjustment will differ for
22 each tenor of the relevant IBOR because it will

1 compare the quotes for that IBOR in that currency and
2 that tenor to the relevant risk-free rate compounded
3 over each corresponding tenor.

4 So just to take a brief example, if you are
5 talking about a fallback to adjusted SOFR from a
6 3-month U.S. dollar LIBOR, you would, over your 5-year
7 period, take the quotes that were available on each
8 day in which the 3-month U.S. dollar LIBOR was
9 published, and that would give you one data set. Then
10 your second data set would be looking at SOFR, and
11 this would include either SOFR, as published as a
12 benchmark by the New York Fed, or SOFR based on the
13 indicative data that the New York Fed has published
14 for SOFR for several years prior to the launch of
15 SOFR.

16 So you would then compound SOFR over each 3-
17 month period that corresponds to your data points in
18 the 5-year lookback period for U.S. dollar LIBOR.
19 That will give you 5 years' worth of U.S. dollar LIBOR
20 data and 5 years' worth of compounded SOFR data. You
21 would then take the difference between each
22 corresponding data point, and that will give you your

1 data set, and the spread adjustment would be based on
2 the median of that data set.

3 The 5-year lookback period will run up until
4 the date prior to an announcement triggering the
5 fallback. None of us know precisely how the end of
6 LIBOR will come about; however, it is possible that
7 there will be an announcement either by IBA or by the
8 UK FCA or, theoretically, by another authority over
9 IBA that a cessation or discontinuation of LIBOR will
10 occur as of a later date, and that date, in theory,
11 could be a day later, it could be 6 months later, it
12 could be 1 year later.

13 However, importantly, for the spread
14 adjustments, if that announcement is, in fact, some
15 period of time prior to the actual discontinuation of
16 LIBOR, then the spread, the 5-year lookback period,
17 will contain a gap before the fallbacks actually
18 apply. So you would calculate the spread adjustment
19 based on a 5-year period up until the announcement,
20 providing definitive information regarding the last
21 date on which LIBOR or the other IBOR is going to be
22 published. But up until that actual cessation, your

1 contracts would continue to reference LIBOR. Then
2 when the cessation occurs, if you haven't closed out
3 or otherwise amended your contracts, the contracts
4 will convert to the adjusted SOFR with the spread
5 adjustment calculated as of the date prior to the
6 announcement. The spread adjustment will remain
7 constant once it's calculated. So upon any
8 announcement triggering the fallbacks, the spread
9 adjustment will be known and will be constant and will
10 be the same irrespective of the remaining duration of
11 your swap.

12 So the spread adjustment will differ
13 between, for example, a 3-month U.S. dollar LIBOR and
14 1-month U.S. dollar LIBOR because you are looking at
15 different quotes for LIBOR and you're looking at
16 different quotes -- or different periods for
17 compounding SOFR. However, the spread adjustment will
18 not differ for a contract referencing 3-month U.S.
19 dollar LIBOR with 5 years until -- with 5 years
20 remaining and a contract referencing 3-month U.S.
21 dollar LIBOR with 10 years or 1 year remaining.

22 I think the spread adjustment is the more

1 interesting piece here, so I spent more time on that,
2 but I do want to go back and briefly explain the other
3 adjustment that will apply to these risk-free rates,
4 and that's the compounding that will be used to
5 address the difference in term structure between the
6 IBORs and the risk-free rates.

7 So in response to the 2018 consultation,
8 over 90 percent of respondents preferred using
9 compounded setting in arrears, and the support for
10 this adjustment has been at the same level or higher
11 in the initial consultations that we've done.

12 Outside of the derivatives market, I do
13 think that that comes as a bit of surprise because
14 historically non-derivative financial instruments have
15 not necessarily traded based on compounded rates.
16 However, in the derivatives market, as I'm sure many,
17 if not all, of you in this room are well aware, we
18 have traded OIS contracts based on a compounding
19 calculation in some cases for longer than these IBORs
20 have been traded. And so a lot of the support for
21 using compounding over the relevant period was because
22 that will result in contracts that are not precisely

1 the same as OIS contracts that trade today based on
2 SOFR, SONIA, and all of the other risk-free rates, but
3 very similar.

4 To go into a little bit of the details, OIS
5 contracts based on SOFR, SONIA, and the other rates,
6 at least in the case of SOFR, typically trade with a
7 payment delay; that is, because you are doing a
8 calculation based on the values of SOFR published each
9 day during the period, and you won't have the last
10 value for that calculation until the last day of the
11 period, payment is typically due on a delayed basis.
12 So in the case of SOFR, there is a 2-day payment
13 delay.

14 However, that payment delay is not
15 contractually within the rate options that ISDA is
16 updating; that is, we cannot change the payment date
17 when we amend and restate the LIBOR rate options or
18 the other IBOR rate options. The payment date is a
19 different field in confirmations for swaps. However,
20 in response to feedback to our consultations, it was
21 very clear that for many, not all, but for many market
22 participants, it would be problematic to have to make

1 the payment on the last day of the period. Today,
2 payments are made on the last day of the period for
3 LIBOR contracts, but that's because LIBOR is, and the
4 other IBORs are, forward-looking term rates, and the
5 rate is known at the beginning of the period, so there
6 is plenty of time to plan for making a payment on the
7 last date.

8 So all of this takes you to the key issue
9 that we consulted on for this aspect of the adjustment
10 in the consultation on final parameters, and that is
11 that the rate will be compounded over the relevant
12 period but with what we're calling a two-banking day
13 backward shift. The details of this are really the
14 remaining 2 percent of these fallback equations and
15 are still being worked out, but at a high level. The
16 observation period will be shifted by 2 days so that
17 the last -- the data, the SOFR data or the SONIA data
18 or whatever risk-free rate you're using, that data
19 will not be used; instead, it will be shifted to the
20 next period.

21 So this is not like a lockout that we've
22 seen in some of the SOFR and other bonds referencing

1 these risk-free rates where that data would just never
2 be used; the data will be used, but it will be shifted
3 to the next period so that you have a full data set to
4 do the compounding calculation to approximately 2 days
5 before the payment is due. So, as I said, we are very
6 close to having these final fallback methodologies,
7 and that's, I think, a major step forward for the
8 derivatives market as we move towards addressing the
9 risk of LIBOR cessation.

10 When we update the rate options and the 2006
11 definitions, we're not going to go into the gruesome
12 details that I just spent the last few minutes on, and
13 we are not going to publish equations that
14 counterparties themselves have to calculate. Instead,
15 earlier this year, ISDA ran a formal RFP process to
16 select a vendor that will publish these adjustments in
17 the same way that LIBOR and other benchmarks are
18 published today. As a result of that process, we
19 selected Bloomberg to be the fallback adjustment
20 vendor.

21 So Bloomberg will be publishing the relevant
22 risk rate compounded over the relevant period. It

1 will publish the spread adjustment, and it will
2 publish an all-in fallback rate. Prior to fallbacks
3 being triggered, Bloomberg will publish this
4 information on an indicative basis, so it will publish
5 a spread adjustment as if the fallbacks were triggered
6 on that day, and it will then publish an all-in
7 fallback rate as if the fallbacks were taking effect
8 on that date.

9 Hopefully, that will be very helpful to
10 market participants who today rely on screens or
11 terminals to pull the rates referenced in their
12 contracts. They will be able to operate in a very
13 similar manner and have access to that information.
14 From a counterparty dispute perspective, it will
15 hopefully also be helpful because it won't be a
16 calculation that's performed by a calculation agent.
17 Of course, there will be standard correction and
18 dispute policies within the service that Bloomberg is
19 providing, but from a counterparty basis, the rate
20 options in your contracts will reference the rate
21 published by Bloomberg, which will, I think, greatly
22 assist in the transparency both of the lead-up to

1 fallbacks taking effect and in the event that
2 fallbacks do apply to contracts, on a go-forward
3 basis.

4 So I'm going to briefly spend a little bit
5 of time on the so-called pre-cessation issue that Tom
6 mentioned in his remarks, and I am going to conclude
7 with an overview of how we expect the timing to play
8 out in the coming months, including timing for
9 publication by Bloomberg of the indicative fallback
10 rates and publication of the definitions and protocol.

11 So Tom mentioned that earlier this year the
12 FSB OSSG sent ISDA a letter asking us to consult on
13 what they're calling a pre-cessation trigger. And so
14 I mentioned that the triggers and the legal language
15 for the fallbacks will describe a clear public
16 statement indicating a definitive date on which LIBOR
17 will be discontinued, and that language allows for an
18 announcement simultaneous with the discontinuation or
19 an announcement in advance of the discontinuation.

20 The pre-cessation trigger that the FSB OSSG
21 has asked ISDA to also include is based on a statement
22 from the UK FCA indicating that LIBOR is no longer

1 representative. And the FSB OSSG has subsequently
2 asked ISDA to implement that as a third trigger in the
3 amended and restated rate options to implement a move
4 to SOFR and the other adjusted risk-free rates prior
5 to cessation if such a statement is made.

6 So we consulted on this issue over the
7 summer. And, in general, market participants did
8 express concerns about continuing to trade based on a
9 non-representative rate. However, the market
10 participants were divided with respect to whether it
11 should be a so-called hardwired or required trigger
12 for use of the ISDA definitions, and for inclusion of
13 those amended and restated definitions in the protocol
14 that I described earlier. We published a report
15 summarizing the responses to that consultation on an
16 anonymous basis earlier this fall, and there is a link
17 to that report available on this slide.

18 As Tom also mentioned, the FSB OSSG recently
19 sent ISDA another letter, and that's the letter in
20 which they asked us to include the trigger on a
21 mandatory non-optional basis along with the other
22 triggers.

1 ISDA, a couple of weeks ago, responded to
2 that letter and indicated that we are moving forward
3 with the implementation of permanent cessation
4 fallback, but also indicated that we will continue to
5 work with the regulators and with market participants,
6 so that the derivatives market is prepared and
7 protected against the scenario that the UK FCA finds
8 LIBOR to be non-representative and LIBOR does not
9 cease upon that finding.

10 In the letter, we mentioned some of the
11 feedback to the recent consultation that's also in the
12 report, and we think that's information that market
13 participants could benefit from in forming a more
14 definitive view on how to implement pre-cessation
15 triggers. The two key pieces of information that we
16 mentioned to the FSB OSSG are, how long would LIBOR be
17 published after it is found to be non-representative?

18 So right now, under the EU benchmark
19 regulation, if LIBOR is found to be non-
20 representative, it must cease publication within a
21 reasonable period of time, but "reasonable" is not
22 defined. In ISDA's letter to the FSB, we said that we

1 think that it's more likely that the market could come
2 to a consensus on this issue if they better understood
3 what "reasonable period of time" means. In the
4 letter, based on responses to the consultation and
5 conversations within the ISDA board, we also took the
6 position that that reasonable period of time should be
7 months and not years. The letter describes some of
8 the risks that could occur if a non-representative
9 LIBOR is published for an extended period of time,
10 particularly given that some cash products, including
11 cash products that are hedged by derivatives, would
12 not be able to be amended and, therefore, would
13 continue to reference LIBOR while presumably the rest
14 of the market has moved on to other risk-free rates.

15 The second key piece of information that we
16 indicated as necessary for the market to come to -- to
17 potentially come to more of a consensus on this issue--
18 - was clarity on how central counterparties would act
19 in the event that the UK FCA finds LIBOR to be non-
20 representative. At the end of last year, both LCH and
21 CME indicated an intention to include the
22 fallbacks -- the fallbacks that ISDA is implementing

1 in all of their cleared contracts upon the date on
2 which those fallbacks take effect. That was in
3 contemplation of the permanent cessation fallbacks.
4 CME and LCH also provided information for ISDA to
5 include in the consultation on pre-cessation issues,
6 stating their intentions and what they may do in the
7 event that the UK FCA finds LIBOR to be non-
8 representative. However, based on feedback to the
9 consultation, the market is looking for more clarity
10 in the form of rule changes or something similar to
11 better understand what the CCPs would do.

12 So the conclusion of this letter from ISDA
13 to the FSB OSSG was that while we move forward with
14 implementation of the permanent cessation fallbacks,
15 we will reconsult the market on pre-cessation issues
16 and how a pre-cessation trigger based on non-
17 representativeness should be implemented if and when
18 the market has the benefit of this additional
19 information. We think it's very important to consult
20 on different information instead of utilizing
21 resources and time of market participants to consult
22 again on an issue that we consulted on so recently.

1 So moving on to the timing -- and we'll come
2 back to timing for pre-cessation at the end of this
3 slide -- I mentioned that next week we are going to
4 publish a supplemental consultation on the spread and
5 term adjustments for Euro LIBOR and Euribor
6 derivatives fallbacks. That will be very similar to
7 the supplemental consultation on those adjustments for
8 U.S. dollar LIBOR, but it will fold in the parameters.
9 So it will cover the consultations that we did in 2018
10 and 2019 plus the final parameters. And we'll ask
11 market participants to confirm that compounded setting
12 in arrears with a backward shift and a 5-year median
13 historical spread adjustment is, in fact, appropriate
14 for Euro LIBOR and Euribor.

15 At one point, we had plans to implement
16 fallbacks for these benchmarks on a different
17 timeline, but given the efficiencies that could be
18 realized if we're able to include them in the same set
19 of amendments to our definitions -- that is, in the
20 same supplement and in the same protocol -- we decided
21 to wait and consult on this quickly, and if the
22 results are consistent, we will be able to do all of

1 this at once.

2 So in the first quarter of next year, ISDA
3 and Bloomberg will finalize and publish, so that
4 they're fully public and transparent, the final
5 methodologies for the fallback rates. The issues that
6 remain outstanding right now, as I mentioned, relate
7 to the technical details of the backward shift, relate
8 to different holiday calendars between the IBORs and
9 the risk-free rates, and similar issues. Also, in
10 first quarter of next year, we will publish the
11 amendments to the 2006 ISDA definitions via the
12 supplement and the protocol to include the terms of
13 that supplement in legacy transactions.

14 Between first quarter and second quarter of
15 next year, Bloomberg will publish the adjustments so
16 that market participants can access them. It's
17 possible that Bloomberg will publish those on a test
18 basis and then start fully publishing them. And as I
19 mentioned, when Bloomberg goes live on this, it will
20 be indicative fallback rates because presumably at
21 that time, none of the fallbacks for any of these
22 IBORs will have been triggered yet.

1 In the second quarter of 2020, the
2 amendments to the definitions to include the fallbacks
3 and the amendments made by the protocol will take
4 effect. So there will be an approximately 3-month
5 period between when we publish these amendments as
6 final, when we launch the protocol and open it for
7 adherence, and when the amendments take effect. And,
8 again, by "take effect," I mean that the fallbacks
9 apply in your contracts. So "effectiveness" does not
10 mean that the rate referenced in your contract changes
11 to adjusted SOFR, it just means that legally you have
12 the contractual fallbacks.

13 The idea behind this 3-month period is that
14 hopefully a broad set of market participants will
15 adhere during that 3-month period, and then on the
16 effective date, the fallbacks will take effect on a
17 go-forward basis, and as long as a lot of market
18 participants have adhered to the protocol, they will
19 also apply on a legacy -- they will also apply to
20 legacy contracts, and that will limit the amounts of
21 work that market participants need to do to
22 distinguish between contracts that have the fallbacks

1 and contracts that don't have the fallbacks.

2 The statements from LCH and CME last year
3 indicated that the CCPs anticipate making the change
4 on the date, which is now in second quarter 2020, on
5 which all of this takes effect. And so in the event
6 that those plans come to fruition, that would also
7 result in consistency across the cleared and the non-
8 cleared market for implementation of these fallbacks.

9 So the last item on this slide relates to
10 the pre-cessation issues. That's, at this point, to
11 be determined based on when the market receives the
12 information explained in the letter and presumably any
13 other information that market participants feel they
14 need in order to provide additional feedback on the
15 pre-cessation issues. When that happens, ISDA again
16 will reconsult, and then based on the responses to
17 that consultation, we'll determine how to best
18 implement a pre-cessation trigger. It's possible that
19 it may be via some sort of complementary documentation
20 solution to everything that I've described. It's
21 possible, if the timing lines up, that everything
22 would be combined. But the key issue right now is the

1 market learning more about how this pre-cessation
2 issue may play out, while at the same time moving
3 forward as quickly as possible to address the risk in
4 the derivatives market of a permanent cessation of
5 LIBOR. So.

6 MS. ZAKIR: Thank you, Ann.

7 At this time, I would like to open the floor
8 to questions and comments from the members, any
9 questions or comments regarding Tom's presentation,
10 Bis and Richard's presentation, or Ann's.

11 Lee Betsill?

12 MR. BETSILL: Thank you. If the Chair will
13 allow, I would like to make a statement regarding
14 Ann's comments on pre-cessation, and specifically on
15 CCP rulebooks.

16 ISDA, in its response to the FSB OSSG, has
17 implied that as one of the initial steps, CCPs need to
18 provide greater certainty on the actions they would
19 take if the FCA would determine that LIBOR was no
20 longer representative. We think that this approach
21 does not recognize the role of CCPs at this stage in
22 the process. Our role is to provide risk management

1 to the marketplace. And expanding on this, we note
2 that certain swaps and derivatives contracts are
3 required to be cleared by law, and CCPs stand ready to
4 clear approved products.

5 However, let's not forget that swaps are
6 initiated under ISDA's swaps definitions. Hence, any
7 widespread adoption of pre-cessation triggers needs to
8 be the result of a market-led solution in combination
9 with coordinated regulatory action.

10 We, as CCPs, stand ready to assist with
11 these efforts, including, where and when relevant,
12 rulebook changes supporting fallbacks.

13 CME Group has stated publicly our support
14 for efforts by the official sector, ARRC, ISDA, and
15 their industry-wide working groups to improve and
16 strengthen LIBOR fallbacks. In the interest of market
17 stability and to ensure a coordinated response, we
18 recommend a proactive approach to address the
19 potential scenario that LIBOR will be declared non-
20 representative. We recommend including this scenario
21 as a trigger in the ISDA fallback language so that
22 there is greater certainty and the market's actions in

1 such an event are coordinated across all markets.

2 If such a trigger is adopted by ISDA, CME
3 will incorporate ISDA fallback language in our
4 rulebooks to ensure they are aligned with the ISDA
5 protocol.

6 We would like to thank ISDA for the
7 consultation that they undertook on pre-cessation
8 triggers and their intention to conduct a potential
9 follow-up consultation for clarity on implementation.

10 As a clearinghouse for swaps, we applaud
11 ISDA's lead and will align with ISDA for both triggers
12 and methodology as much as possible across the OTC
13 derivatives marketplace, reserving the right to make
14 necessary adjustments based on consultation with our
15 client base.

16 We also believe that coordination among the
17 FCA and other impacted regulators is key. The FCA can
18 take a non-representative decision post-2021 based on
19 panel bank participation and other factors. To
20 provide certainty in the market, a non-
21 representativeness decision should be coordinated
22 among impacted regulators, and the process to announce

1 such a decision be communicated in advance.

2 Thank you.

3 MS. ZAKIR: Thank you, Lee.

4 Dennis McLaughlin?

5 MR. McLAUGHLIN: Thank you. I'd like to
6 thank the members of the panel for dealing with the
7 issues around this difficult topic. And I, in
8 particular, thank Ann for a very good presentation, a
9 very clear presentation, of what some of the issues
10 are that we face.

11 From LCH's perspective, we have monitored
12 closely ISDA's work in connection with rates reform,
13 and we continue to engage with regulatory authorities
14 and their clearing members regarding a response to the
15 market's transition to risk-free rates, including the
16 adoption of ISDA fallbacks and the switch and
17 discounting to SOFR and other RFRs.

18 We would endorse the FCA's and other
19 regulators' position that it is important that a
20 benchmark is representative of the relevant underlying
21 market. If a relevant regulator announced that a
22 benchmark was non-representative, we would find it

1 challenging from a risk management and regulatory
2 perspective to continue to clear swaps linked to that
3 benchmark. For these reasons, we continue to consider
4 the consequences if LIBOR is considered to be non-
5 representative.

6 And notwithstanding our existing powers to
7 use alternative rates, we will shortly be consulting
8 on a rulebook change to provide for an automatic
9 trigger into fallback arrangements where a competent
10 authority determines LIBOR to be non-representative.

11 As you would expect, such considerations
12 require thorough legal and regulatory analysis and
13 governance review, and we are currently considering
14 the possible options in this context, and we will
15 release relevant announcements at the appropriate
16 time.

17 Thank you.

18 MS. ZAKIR: Thank you.

19 Rob Mangrelli?

20 MR. MANGRELLI: Thank you. And thank you,
21 Ann, for the thorough overview of where ISDA is at.
22 Maybe just a question on the ISDA front, if I may.

1 You noted that in response to the topic of pre-
2 cessation triggers, one of the possible impediments
3 would be to those who are hedging underlying cash
4 market risk where they may be continuing to use a
5 LIBOR rate for some period of time. I guess with that
6 topic in mind, given that ARRC has recommended
7 fallback language that possibly differs in several
8 ways from ISDA's recommended language, one of which
9 being the inclusion of a forward-looking term SOFR if
10 available in waterfalls, if ISDA is going to
11 reconsider a topic like triggers, has any thought been
12 given to reconsidering other topics where ISDA and
13 ARRC language may differ materially?

14 MS. BATTLE: I think on the forward-looking
15 term rate, it's important to consider how derivatives
16 based on SOFR and the other risk-free rates currently
17 trade, which is based on a compounded rate. That is
18 also how some SOFR bonds have traded. I think it's
19 well-known that the expectation in the loan market may
20 be for a forward-looking term rate if and when it's
21 available. I think the difference is therefore
22 between the ISDA fallbacks and the ARRC fallbacks, are

1 based on the differences with respect to how these
2 contracts trade on a go-forward basis for the
3 different financial instruments, and in looking at it
4 in that light, I think it becomes more reasonable that
5 there are slight differences. You likely want the
6 fallbacks for your contracts to be based on how you
7 would trade that new rate on a go-forward basis.

8 All of that being said, we absolutely
9 appreciate and completely agree that market
10 participants who enter into one-for-one hedges need to
11 continue to be able to do so. Whether that is to
12 enter into a one-for-one hedge based on the hedge
13 alone that is entered into based on a rate other than
14 just a compounded form of SOFR, or if you have a loan
15 that's going to fall back to a different rate.

16 I think the reality, like the reality today,
17 for market participants who enter into those one-for-
18 one hedges is that some bilateral communications and
19 conversations are going to have to occur. We've
20 recently been discussing with our working group
21 language that counterparties could use to ensure that
22 their hedges match up if the fallbacks take place,

1 and, in some cases, that might mean adhering to the
2 protocol using the ISDA definitions, but then entering
3 into some tweaks to true up what that hedge might be.

4 So I recognize that's not as elegant of a
5 solution as that which I just described, but in
6 talking to, you know, buy-side corporate end users,
7 some of the regional banks that transact with those
8 market participants, it's not too far from the reality
9 of how these one-for-one hedges are entered into
10 today.

11 I'm not sure if Tom also wants to comment on
12 this issue.

13 MR. WIPF: Yes. Thank you, Ann.

14 I think the view we took at the ARRC was
15 that we have tried to put tools out that will create
16 forward risk reduction, and having pre-cessation
17 triggers, knowing that this bit of uncertainty is
18 which we still see today. Market participants do have
19 an opportunity now on new issue, to a large degree, if
20 they choose to continue to use LIBOR, to have the
21 ability to use these fallbacks. And I think what we
22 did in terms of forward-looking term was to set a

1 waterfall in place that that seemed to be a preference
2 that we heard, but we just go very quickly to SOFR
3 compounded in arrears. So to the extent that's not
4 available or not a choice across these particular cash
5 products, which I think is where this is heading, we
6 have tried to put forward tools.

7 And I do think the goal across all of these
8 groups has been consistency at every level, but to
9 some degree, as we quickly approach the 751 day
10 point -- who's counting? -- we sort of arrive where
11 we're backing into some of these deadlines, and I
12 think when we think about the deadline itself and we
13 understand how this all plays out -- and I think Ann
14 has given us a real good picture of how this all plays
15 out at the end -- we have a deadline and then we have
16 tools. And I think what the ARRC and ISDA is trying
17 to do is to lay as many of those tools on the table as
18 possible for market participants knowing that most
19 likely all the tools that people would like to have
20 may not be available in time for the deadline. So
21 really letting people begin to understand that the
22 deadline is sort of an immovable object, the tools are

1 a bit more of a variable, but getting them out seems
2 to be the goal.

3 So that's really how we looked at it at the
4 ARRC, but I would say that across ISDA and ARRC -- and
5 Ann is on the ARRC and has been an active
6 participant -- we do want consistency where possible.

7 MS. ZAKIR: Thank you, Tom.

8 Kristen Walters?

9 MS. WALTERS: Thanks very much. Thanks to
10 the panel. I think from a derivatives market's
11 perspective -- well, actually, I know from a
12 derivatives market's perspective, everything that Ann
13 and Tom have told us about the timeline for the ARRC,
14 with ISDA, everything they said that was going to
15 happen has actually happened in a highly organized and
16 deliberate way. So I think for derivatives, which
17 obviously is the focus of this Committee, there is a
18 very good state of preparedness.

19 I just want to comment again on cash
20 products. So of the \$36 trillion in LIBOR-linked
21 products that will exist after the deadline, \$2
22 trillion -- about \$2.3 trillion are in cash products:

1 student loans, credit cards, bank loans, floating rate
2 notes, and mortgages. And so the ARRC has helped with
3 fallback language for these products.

4 However, even though there is language, it's
5 not necessarily clear that there's a mechanism to
6 apply the language. And I would highlight floating
7 rate notes as an example. These require unanimous
8 consent of all noteholders in order to amend any of
9 the interest rate provisions.

10 And this, to me, is a bit of an elephant in
11 the room with regard to whether or not LIBOR continues
12 to exist beyond the deadline. I think, from our
13 perspective, as a firm, and my personal perspective,
14 the future of LIBOR is unclear, particularly as it
15 pertains to these cash products. I know there is work
16 with the New York State Legislature around the issue I
17 talked about for floating rate notes, but I do think
18 that additional consideration needs to be taken.

19 I guess the final point is from a disclosure
20 and awareness perspective, a tremendous amount has
21 been done amongst market participants, but not a lot,
22 if anything, or minimal amounts of it happened in the

1 consumer space. You know, personally, I've had a
2 couple friends who refinanced their mortgages
3 recently, and, you know, they kind of asked their
4 mortgage broker more about SOFR. And, of course, the
5 mortgage brokers had absolutely no idea what SOFR is,
6 what -- and so I just -- there are a lot of consumer
7 products out there that reference LIBOR, and we do
8 need to have a solution if we truly intend to cease
9 LIBOR at the end of 2021.

10 Thanks.

11 MS. ZAKIR: Thank you, Kristen.

12 Frank Hayden?

13 MR. HAYDEN: Yeah, I want to say excellent
14 panel. Thank you very much. I appreciate everything.
15 And to echo what Kristen said, the thing that just
16 caught my mind's eye is the fact that on these term
17 and spread adjustments, you know, Bloomberg is going
18 to be publishing them. And I recognize that they're
19 great and everything else, and I recognize ISDA is
20 great and everything else. But I'm very -- you know,
21 I'm kind of concerned that people that aren't members
22 of ISDA or subscribe to Bloomberg terminals may not be

1 able to see these adjustments. And so are they going
2 to be publicly available for other people to see?

3 MS. BATTLE: So the equations for the
4 adjustments will be publicly available from both ISDA
5 and Bloomberg. I would note that the consultations we
6 ran were open to ISDA members and non-members given
7 the importance of the adjustments that the decision we
8 made very early on in the process that we would reach
9 out beyond our members.

10 Bloomberg will be coming out in the near
11 term with information about how to access the spread
12 and term adjustments. They will be available on the
13 terminal, but they also will be available via a
14 separate API or in a web-based fashion. Access to the
15 spread and term adjustments, like real-time access to
16 LIBOR, will not be free, and I can't at this time
17 speak about the Bloomberg commercial arrangements.
18 However, the adjustments and the fallback rates on a
19 delayed basis -- and "delayed" does not mean a long
20 delay -- will be available in a web-based format for
21 free.

22 So if you want real-time access, just like

1 if you want real-time access to LIBOR, there will be a
2 fee associated, but the information will ultimately be
3 publicly available, including outside of a Bloomberg
4 terminal.

5 MR. HAYDEN: Yeah, I would just say with
6 that, it needs to be available in a commercially
7 reasonable manner. I mean, if it's delayed where, you
8 know, folks who are not members can't access the data
9 and it freezes up the market, it creates the systemic
10 risk we're trying to address, right?

11 MS. BATTLE: Absolutely.

12 MR. WIPF: Just quickly on that, I think
13 there has been one development at the ARRC that I
14 think we'll hear more about, but when we do start
15 speaking about cash products -- and Kristen and I
16 totally agree -- these are the places where we need to
17 see more progress.

18 As you may know, Fannie and Freddie have
19 announced a consumer-based adjustable rate mortgages
20 that will reference SOFR. And the Fed has recently
21 produced a consultation on producing averages of SOFR,
22 which will be compounded and on a screen. So

1 basically on the Fed screen at some time in the first
2 half of 2020, for particular parts of the market and
3 particular products, there will be an ability to see
4 an average of 30-day, 90-day, and 180-day SOFR, which
5 will be compounded. And potentially we know when the
6 mortgage product will be used in advance. So to the
7 extent that there is a certainty of payment in a
8 particular product -- in many cases, consumer
9 products, loans, and others -- you would be able to
10 look at what 3-month SOFR was on an average basis, and
11 an index that people who need that certainty of
12 payment well in advance could utilize that. And that
13 should cover a lot of real estate in the market as we
14 think about particular products that I think that
15 we've called out on a go-forward basis. Again, the
16 fallbacks and the floating rate note challenges are
17 huge, but there are a few other things sort of on the
18 horizon that might be able to be helpful to some
19 market participants perhaps away from the derivatives
20 markets or some of the larger institutional markets.

21 MR. HAYDEN: Thank you.

22 MS. ZAKIR: Thank you.

1 Stephen Berger, Citadel?

2 MR. BERGER: Thanks. I very much
3 appreciated the data that was presented by Richard and
4 discussed by Bis as well about the size of the legacy
5 IBOR swap market. I just had a few questions. And I
6 guess I want to preface this by saying I'm completely
7 sympathetic to providing relief for legacy swaps to
8 ensure that if there are amendments to fallback
9 language or referencing new rates, that they don't
10 trigger requirements that they otherwise would have
11 been subject to. But I just want to make sure I'm
12 understanding the data that was presented correctly.

13 So the table talks about legacy swaps. So
14 is it correct that -- in the paper, we talk about
15 there are in-scope swaps, legacy swaps, and then out-
16 of-scope swaps. So the table is just zeroing in on
17 that middle bucket, the legacy swaps?

18 MR. HAYNES: That's correct, yes.

19 MR. BERGER: Okay. And then I guess I infer
20 in the table that was presented that shows the kind
21 of -- the dealer-to-customer side of the market, we're
22 sort of zeroing in there on Phases 5 and 6, generally,

1 in terms of the UMR phase and schedule? Like --

2 MR. HAYNES: No, this includes anything
3 within 1 through 3 even, as long as those swaps in 1
4 through 3 would also be legacy.

5 MR. BERGER: Right. So the SD/SE bucket on
6 the top line is probably Phase 1 through 3.

7 MR. HAYNES: Exactly, exactly. But, yes,
8 you are correct that the bottom rows are likely 4, 5,
9 6, et cetera, yes.

10 MR. BERGER: Okay. And are we also -- are
11 we accounting for the fact that for relationships that
12 are under -- for relationships that would have under
13 \$50 million in IM, that those wouldn't be captured?

14 MR. HAYNES: Right. So, no, that's a good
15 question. So in this, we are not capturing that, and
16 part of the reason we're not capturing that, and we
17 kind of described this in the paper, is that we do not
18 have direct margin information unfortunately for
19 uncleared.

20 MR. BERGER: Okay.

21 MR. HAYNES: We've done some other estimates
22 just to kind of get a sense of what proportion of the

1 total market that segment represents, and we believe
2 it's relatively small. But you are absolutely
3 correct -- and we try to point this out -- that the
4 numbers up here are an overestimate because we do
5 scope those in.

6 MR. BERGER: Okay. That's helpful.

7 And then the other thing I would note, I
8 think an important caveat that was also made was that
9 for certain -- it's probably certain counterparty
10 types more than anything else, they already posting.
11 So for the largest category we see here, hedge funds,
12 I think the vast majority of those relationships are
13 already going to be posting collateral that may be in
14 excess of what a SIMM calculation would even suggest.

15 MR. HAYNES: Absolutely, yes, yes. Very
16 well worth emphasizing.

17 MR. BERGER: Okay. Thank you for those
18 clarifications and for doing this analysis, which is
19 very interesting and useful.

20 MR. HAYNES: Sure.

21 MS. ZAKIR: Thank you.

22 James Shanahan, CoBank?

1 MR. SHANAHAN: I want to thank the group for
2 their presentation today. And I also want to
3 compliment the ARRC on creating recently consistent
4 fallback language across cash products. I think that
5 the consideration of risk that could be created by
6 creating inconsistencies across cash products is
7 something that really needs to be drawn out. I would
8 encourage ISDA, though, at some point to reconsider
9 some of these independent variations, including
10 advocating for that a fallback waterfall consistent
11 with the ARRC, that a term LIBOR, forward-looking term
12 LIBOR, solution is I think where the ultimate market
13 will end up. And I think that failure to look at that
14 aspect could create a lot of noise through the aspect.
15 So that's something that we've advocated for
16 consistently, and I'd really encourage ISDA to take
17 that action.

18 MS. BATTLE: Thanks, Jim. I would note that
19 we did look into that quite aggressively for about a
20 year to a year and a half. I think the issue that we
21 continually ran up against is that it's perhaps a
22 logical impossibility to say that the derivatives

1 market in bulk will end up on a forward-looking term
2 SOFR because a forward-looking term SOFR, by
3 definition, is built based on OIS or futures-
4 referencing SOFR. So that logical inconsistency I
5 think is what ultimately prevented ISDA and, as I
6 said, more than 90 percent of the respondents to our
7 consultations to conclude that the direction of travel
8 for derivatives should be where the derivatives market
9 is expected to go. And I think for purposes of loans
10 and other products, we all, including ISDA, strongly
11 hope that we get to that massive SOFR derivatives
12 market so that there can be a very robust forward-
13 looking term LIBOR. And in that case, as mentioned, I
14 do think that we cannot, as ISDA, opine on what market
15 participants would do, but it would be reasonable,
16 based on how markets have acted in the past, that
17 market participants who do, for example, in turning to
18 a loan based on that forward-looking term, forward-
19 looking term LIBOR, will be able to hedge that.

20 But I can definitely assure you if you go
21 back to our work files from 2016, 2017, and even early
22 2018, we were aggressive on the forward-looking term

1 rate, but it just became a logical inconsistency.

2 MS. ZAKIR: Thank you.

3 Craig Messinger, Virtu Financial?

4 MR. MESSINGER: Thank you. I also want to
5 compliment the panel, a great discussion.

6 I want to touch back on the Bloomberg
7 conversation a little bit. Education is a real
8 problem, and Bloomberg has a very limited audience.
9 And I don't get a great deal of confidence that there
10 will be an easy way to disseminate where resources
11 will exist. So I would encourage -- you have a couple
12 quarters to do this -- thinking about a multitude of
13 news sources or other resources where people can find
14 either a public entry point to the information,
15 because Bloomberg is purely a commercial entry point,
16 and there are -- to my knowledge, there are no other
17 alternatives that have been suggested yet that would
18 not be commercial.

19 So if education is one of the pillars of
20 what we're trying to make sure we're out there
21 providing to the broader industry, we need to think of
22 other sources, whether that could be, you know, things

1 like the CFTC or SIFMA or whatever, but I think if I
2 was doing a Google search, I don't want to go to
3 Bloomberg, I want to know all the different sources
4 that I could go to. So I would encourage you to think
5 of that.

6 MS. BATTLE: Thank you. And we would
7 appreciate feedback on that point going forward.

8 MS. ZAKIR: Sam Priyadarshi, Vanguard?

9 MR. PRIYADARSHI: Thank you. At the
10 September MRAC meeting, the MRAC had approved for CFTC
11 consideration "plain English" disclosures for new
12 derivatives-referencing LIBOR and other IBORs. And
13 the language that was recommended was predominantly
14 referring to a permanent cessation, and there is no
15 mention in the "plain English" disclosures to a pre-
16 cessation trigger. Would the subcommittee reconsider
17 the "plain English" disclosures?

18 MS. BATTLE: I think we would be more than
19 happy to consider developments that occur. I mean,
20 the disclosures were published as a utility and
21 service, and hopefully something that's been helpful
22 to the market. And I completely agree if a portion of

1 them becomes obsolete or no longer fully accurate,
2 then the subcommittee should relook at them. I think
3 it's a little bit early to reopen them right now,
4 given the developments that we discussed.

5 MS. ZAKIR: Thank you.

6 We have time for about two or three more
7 questions, so we'll take those and then we'll move on.

8 Kevin McClear, ICE?

9 MR. McCLEAR: I apologize. I missed the
10 queue when we were talking about the CCPs' approach to
11 the LIBOR transition. So I really don't have a
12 question, and I don't have a statement, but I have
13 some talking points, and I'd be glad to give you ICE's
14 perspective on the LIBOR transition.

15 So let me first say we're a little different
16 in that we don't have a big book of OTC transactions.
17 We clear credit default swaps, but they're not LIBOR-
18 dependent. LIBOR is not a contract spec for the
19 credit default swaps. So we don't have a fallback
20 provision in our rule set for credit default swaps, so
21 we don't think there is anything we need to do with
22 respect to credit default swaps.

1 We do clear some futures contracts out of
2 ICE Futures Europe and ICE Clear Europe that have
3 LIBOR components. So short sterling futures and
4 Euroswiss futures are the two biggest. And with
5 respect to their transition -- I'm going to echo some
6 of what Lee said -- our approach is we serve the
7 market at ICE, and we're going to follow the market.
8 And we know how to transition. We've transitioned
9 before, and we'll be ready to transition. And most
10 importantly, in our futures rule set at ICE Futures
11 Europe and ICE Clear Europe, we have the ability to
12 fall back to an alternative rate, so we can continue
13 to clear the short sterling and Euroswiss futures I
14 mentioned. We have broad authority in our rule set.
15 We can choose the alternative reference rate ourselves
16 or we can select an industry best practice alternative
17 rate.

18 I'd also like to note what we've been doing
19 to facilitate the transition with respect to listing
20 alternative reference rate contracts. For a while
21 now, we've listed a 1-month to 3-month SONIA, SOFR
22 futures, ESTER, and Saron. Those are across all the

1 major currencies.

2 The other thing we've done to facilitate the
3 transition is we've developed a spread market between
4 LIBOR and the alternative reference rate contracts.
5 That will help the marketplace adjust, we think, to
6 the future use of -- or the LIBOR changes.

7 And I'm just going to conclude and loop back
8 by saying that when we transition -- and this was a
9 theme in the opening remarks -- we want to make sure
10 we're orderly. We don't want to cause any market
11 disruption. So we're really looking for a market-led
12 transition that allows us to prudently risk-manage our
13 book of cleared transactions.

14 Thank you.

15 MS. ZAKIR: Thank you.

16 Dick Berner, NYU?

17 MR. BERNER: Thanks for great presentations.

18 I just want to reaffirm the suggestion that Tom Wipf
19 made because the operational challenges are going to
20 be really considerable here in many, many dimensions.

21 I know the ARRC has a subcommittee that deals with
22 operational challenges, and I think the idea of having

1 a tabletop, maybe more than one tabletop, exercise to
2 deal with those operational challenges would be really
3 constructive.

4 I also want to back up what Craig said. I
5 think that having a number of venues in
6 which -- particularly for cash products and for
7 consumers, the information be made available as widely
8 as possible so nobody is surprised would be really
9 beneficial.

10 MS. ZAKIR: Okay. Thanks.

11 Let me go to the phone here. Are there any
12 comments or questions from members on the phone?

13 MS. YARED: Hi. This is Rana Yared, from
14 Goldman Sachs. Can you guys hear me?

15 MS. ZAKIR: Yes, we can hear you, Rana.

16 MS. YARED: Excellent. Third time is a
17 charm. First, thank you to all three of the
18 subcommittees for doing very important and, frankly,
19 yeoman's work. A couple of comments both on this one
20 and earlier when I had failed to get through.

21 So as it relates to the CCP Committee, I
22 wanted to mention that Goldman Sachs is extremely

1 supportive of that Committee's work and has a very
2 sharp focus on the resilience of CCPs and the work
3 that that Committee will do around resilience. Also,
4 I'll pick up that there were a couple of people who
5 mentioned that it will be a tricky and challenging
6 committee. That may, in fact, be the case, but I want
7 to encourage the group to focus on the points of
8 agreement and to use positive movement forward on
9 anything to be a good sign versus waiting to agree on
10 all the points to be able to make progress, and will
11 specifically note that there seems to be agreement
12 among the group that adequate margining is the single
13 most important resilience point that can be correct
14 because it is a first barrier to something actually
15 going wrong. And so we encourage the work around
16 that.

17 And then as it relates to LIBOR, I'll
18 disclose -- I don't know if it's a conflict or
19 not -- I am on the ISDA board, and will mention that
20 we continue to be focused on having the transition
21 move as soon as possible, the reason being we think
22 that that will cause liquidity to coalesce around SOFR

1 and to reduce the temptation to continue to use the
2 older benchmarks.

3 And we're also appreciative of the comments
4 that were made earlier about certain pronouncements
5 that various government organizations have made about
6 new products having exposure to old reference rates
7 past long stop dates. We think that will be
8 incredibly helpful in moving the market and in
9 coalescing the liquidity around the target new risk-
10 free rates.

11 MS. ZAKIR: Thank you, Rana.

12 Now the Committee will consider the
13 subcommittees' recommendations. Since the
14 recommendation was made by a member of the
15 subcommittee who is also a member of the MRAC, a
16 second is not needed. It has been moved that the MRAC
17 approve the initial margin impact findings and that
18 the findings be submitted to the Commission for
19 consideration. Is there any discussion? The floor is
20 open for questions and comments from the members at
21 this time.

22 Are there any questions or comments from

1 members on the phone?

2 (No audible response.)

3 MS. ZAKIR: If there is no further
4 discussion, we'll take a vote on the recommendation
5 from the Interest Rate Benchmark Reform Subcommittee
6 that the MRAC approve the initial margin impact
7 findings and that the findings be submitted to the
8 Commission for consideration. As a point of order, a
9 simple majority vote is necessary for the motion to
10 pass. All those in favor, say aye.

11 (Chorus of ayes.)

12 MS. ZAKIR: Members on the phone?

13 (Chorus of ayes.)

14 MS. ZAKIR: All those opposed say nay.

15 (No audible response.)

16 MS. ZAKIR: Okay. The ayes have it, and the
17 motion is passed.

18 This concludes the ISDA and legacy LIBOR
19 swaps and initial margin discussions. Many thanks to
20 our speakers. You may return to your seats.

21 At this time, I ask that Agha Mirza and
22 Dennis McLaughlin come forward and join Tom Wipf at

1 the speaker table.

2 The next item on the agenda is a follow-up
3 to our discussion from our September meeting regarding
4 the CME and LCH proposals for transitioning price
5 alignment interest and discounting for U.S. dollar
6 over-the-counter cleared swaps to the Secured
7 Overnight Financing Rate, SOFR.

8 I will turn it over to Tom to introduce the
9 topics and the speakers.

10 MR. WIPF: Thank you, Nadia. As you
11 mentioned, we, at the subcommittee last time back
12 here, did express, I think, the view that greater
13 consistency in the Single Step efforts would be a good
14 outcome. We appreciate the responses that we've seen
15 so far, but we'd like to get the updated version. So
16 we will introduce Dennis McLaughlin, who is the
17 Interest Rate Benchmark Subcommittee member and Chief
18 Risk Officer of LCH; and Agha Mirza, Interest Rate
19 Benchmark Reform Subcommittee member, Managing
20 Director and Global Head of Interest Rate Products at
21 CME.

22 So, Dennis, if you would like to begin.

1 Thank you.

2 MR. McLAUGHLIN: Thank you, Tom.

3 LCH entered into an extensive consultation
4 with its membership over transitioning to SOFR
5 discounting. And the first point that they suggested,
6 the strong consensus of the membership, was a date
7 around October, middle of October 2020, and I think we
8 settled on the date of October 17, give or take a day
9 or two, to actually do the transition.

10 The key points of the transition were, the
11 key elements that we came up with, and we actually
12 made a proposal then along these lines, and we
13 communicated this out to the market, was first that
14 there would be compensation for the valuation risk
15 change that would be provided as a combination of cash
16 and compensating swaps. Client accounts will be able
17 to elect cash only if they choose to do so via their
18 clearing broker because we recognize that there may
19 be -- they may have constraints that normal dealers
20 wouldn't have. An option would be used to facilitate
21 the cash-only election and to determine the cash-
22 compensating amounts.

1 And so we are targeting not a restricted
2 subset of products, but all U.S. dollar discounted
3 positions in swap here to be in scope, including the
4 non-deliverable currencies. So just to be clear, that
5 means U.S. dollar LIBOR, U.S. dollar Fed Funds, U.S.
6 dollar SOFR interest rate swaps, U.S. dollar CPI zero
7 coupon inflation swaps, and the non-deliverables you
8 need in countries, like Korean won, CNY, Indian rupee,
9 et cetera.

10 And we are targeting conversion, as I said,
11 to take place around 17th of October 2020, and we have
12 circulated this proposal to the market based on the
13 feedback that we got through the member consultations,
14 so it's public.

15 So that's the summary of what our proposal
16 is. I can go into more detail later.

17 MR. WIPF: Thank you very much, Dennis.

18 We will now pass to Agha.

19 MR. MIRZA: Thanks, Tom.

20 I would like to begin by thanking the CFTC,
21 its Chairman and Commissioners, and the members of the
22 CFTC's Market Risk Advisory Committee for the

1 opportunity to present here today.

2 CME Group believes that migrating the
3 discounting and price alignment environment for
4 cleared U.S. dollar interest rate swap products from
5 the daily effective Federal Funds rates to SOFR,
6 Secured Overnight Financing Rate, in accordance with
7 the ARRC Paced Transition Plan, will foster liquidity
8 across the SOFR term structure, an important
9 objective. By conducting a single-day transition, we
10 intend to efficiently move discounting and price
11 alignment while mitigating any potential risks and
12 ensuing valuation changes.

13 After extensive consultation with market
14 participants over several months, as well as ARRC's
15 Paced Transition Working Group, pending regulatory
16 approval, CME Group has determined and communicated
17 scope, timing, cash adjustment, and discounting risk
18 exchange in relation to this Transition Plan. We have
19 also provided a proposed roadmap in our most recent
20 communication to the market on December 3 for further
21 discussing the basis swap option mechanism, which I
22 will describe briefly, and the treatment of legacy

1 uncleared swaption contracts and operational readiness
2 with our clients and market participants.

3 In the CME plan, all existing cleared U.S.
4 dollar interest rate swap products are in scope for
5 the transition with a target transition date of
6 October 16, 2020. This date, we believe, essentially
7 helps to accelerate the timeline outlined in the ARRC
8 Paced Transition Plan, and it also provides the market
9 adequate notice to facilitate an orderly transition.

10 In terms of the process on the close of
11 business on October 16, CME will conduct a standard
12 end-of-day valuation cycle determining settlement
13 variation and cash payments on open positions in U.S.
14 dollar interest rate swaps, as calculated in the
15 current Fed Fund-based discounting and price alignment
16 environment. Upon completion of this initial cycle,
17 CME Clearing will then conduct a special valuation
18 cycle determining settlement variation and cash
19 payments on those positions as calculated with SOFR-
20 based discounting price alignment. This will require
21 that value transfer attributable to the change in
22 discounting be neutralized, which will be done through

1 a special valuation cycle, including a cash adjustment
2 that is equal and opposite to the resultant net
3 present value of each cleared interest rate swap
4 product.

5 Another implication of this transition would
6 be that it would effectively move the discounting risk
7 for all participants from Fed Funds to SOFR at closing
8 curve level on October 16 of next year. To mitigate
9 both the potential re-hedging cost associated with
10 this transition and the sensitivity of valuations to
11 closing marks on October 16 of next year, we intend to
12 facilitate a mandatory process to book a series of Fed
13 Fund-SOFR basis swaps to participants' accounts. Such
14 basis swaps will restore participants' positions to
15 original risk profiles and will be booked at closing
16 levels at zero NPV on October 16.

17 Importantly, effective October 19, 2020, and
18 thereafter, CME Clearing will apply SOFR-based
19 discounting and price alignment to all cleared U.S.
20 dollar interest rate swap products. An important
21 point to mention, some of the buy-side clients have
22 indicated that they may not want to take the SOFR-Fed

1 Fund basis swap risk exchange, and to accommodate
2 that, CME believes that an auction should be made
3 available to market participants wishing to liquidate
4 any Fed Fund-SOFR basis swap exposures arising from
5 the mandatory discounting risk exchange process. We
6 intend to engage a third-party service provider to
7 conduct an auction to enable participating firms to
8 offload these positions. And we will be consulting
9 with the market participants on the details of the
10 auction mechanism and will communicate these in due
11 course.

12 CME Group moves forward with the scope,
13 timing, cash adjustment, and discounting risk exchange
14 aspects of the discounting transition. We intend to
15 begin internal and external validation of operational
16 and reporting requirements through first quarter of
17 next year with operational buildout and testing
18 proceedings through second quarter.

19 We fully support efforts to promote
20 liquidity in the SOFR benchmark and look forward to
21 facilitating wider adoption of SOFR and continued
22 partnership with industry participants.

1 Thank you.

2 MS. ZAKIR: Thank you, Agha.

3 Tom, would you please provide the
4 subcommittee's view on the current proposals? Are
5 there any other issues that the CCPs should consider?

6 MR. WIPF: Yes. Thank you.

7 I would first like to thank the CCPs for
8 these updated versions of their plans. I would also
9 like to thank the CCPs for their responsiveness to the
10 requests of the subcommittee around dates, and I think
11 we appreciate that response very much. We continue,
12 from our perspective, would like to see consistency
13 where appropriate, understanding that you will respond
14 to your stakeholders in the most appropriate ways for
15 your organization, but we do thank you for these
16 synchronized dates, and we think that will be very
17 helpful.

18 And I think very much we'd like to thank all
19 the CCPs for their comments today on this issue around
20 pre-cessation. Clarity around this is extremely
21 important as we move forward. Obviously, this has
22 been a bit of a challenge both for ISDA and folks in

1 the market as well. So I think any clarity that we
2 get on this, we appreciate all the clarity that we
3 received today, and hopefully that people in the
4 market can take that on board and think about that as
5 they begin to move forward and respond around this.

6 The subcommittee recommends -- the Interest
7 Rate Benchmark Subcommittee does recommend that the
8 MRAC hold a tabletop exercise simulating the October
9 2020 PAI transition.

10 MS. ZAKIR: Thank you, Tom.

11 Before we consider the recommendation from
12 the subcommittee, we'll open the floor to questions
13 and comments from the membership on Agha and Dennis'
14 presentation. Any questions or comments?

15 (No audible response.)

16 MS. ZAKIR: Are there any comments or
17 questions from members on the phone?

18 (No audible response.)

19 MS. ZAKIR: Okay. If there are no further
20 comments or questions, we will consider the
21 recommendation.

22 Committee members, you have heard the

1 recommendation coming from the Committee. Is there a
2 second?

3 MR. HAYDEN: Second.

4 MS. ZAKIR: Frank Hayden, Calpine. Thank
5 you, Frank.

6 It has been moved and properly seconded that
7 the MRAC hold a tabletop exercise simulating the
8 October 2020 PAI transition. Is there any discussion?
9 The floor is open.

10 MR. McLAUGHLIN: Just a --

11 MS. ZAKIR: Yeah, go ahead, Dennis.

12 MR. McLAUGHLIN: Just a question. Do you
13 expect the CCPs to run the exercise on the same date
14 or a different -- can we be flexible about the dates
15 that we each choose?

16 MR. WIPF: I think the goal would be to
17 replicate what this would look like, so where we are
18 today as if we were on the same date or similar dates.

19 MR. McLAUGHLIN: Yep.

20 MR. WIPF: I think the view would be
21 actually to play that through and to tabletop that all
22 across. That would be -- I think that would be our

1 ideal outcome, where people in the market could
2 actually see how that would play out, perhaps identify
3 gaps that they may have in their processes, and
4 identify risks that may not know about until we
5 actually do it. So I think the goal would be to do
6 that with the CCPs, market participants, and others,
7 and have that done here.

8 MR. McLAUGHLIN: And so just earlier rather
9 than later? I mean, if we're transitioning in
10 October -- right? -- what would you suggest? May or
11 earlier in the first or second quarter?

12 MR. WIPF: I would say well before October.
13 I think the goal would be, you know, to some way get
14 this on the agenda as quickly and efficiently as
15 possible to set out the framework for that. I think,
16 you know, we have the scenario, so with the scenarios
17 that you've described, I think we have a lot of
18 information now that we didn't have before. So I
19 would suggest that we'll get back and we'll coordinate
20 with the subcommittee and with MRAC and CFTC if this
21 moves forward to set this up in a way that provides
22 the most value for people in the market as quickly as

1 possible to help them identify things that they -- you
2 know, maybe some unknowns they may have in terms of
3 their processes in doing this work.

4 MS. ZAKIR: Thank you, Tom.

5 And I know we haven't talked about the
6 timing for that, but obviously that's something that
7 we can discuss further and we'll provide notice.

8 Agha Mirza?

9 MR. MIRZA: And if I may comment that CME is
10 fully supportive of the tabletop exercise idea, you
11 know, and also supportive of Tom's suggestion that
12 this be done well in advance of the October date. We
13 intend to consult with the market participants on
14 operational readiness and reporting requirements in
15 the first quarter of 2020. So sometimes after that,
16 then we have had feedback and input from market
17 participants would be a good idea for the tabletop
18 exercise.

19 MS. ZAKIR: Thank you.

20 Any questions from members on the phone?

21 (No audible response.)

22 MS. ZAKIR: Okay. If there is no further

1 discussion, we will take a vote on the recommendation
2 from the Interest Rate Benchmark Reform Subcommittee
3 that the MRAC hold a tabletop exercise simulating the
4 October 2020 PAI transition. As a point of order, a
5 simple majority vote is needed for the motion to pass.

6 All those in favor, please say aye.

7 (Chorus of ayes.)

8 MS. ZAKIR: Members on the phone?

9 (Chorus of ayes.)

10 MS. ZAKIR: All those opposed say nay.

11 (No audible response.)

12 MS. ZAKIR: The ayes have it and the motion
13 has passed.

14 This concludes the business part of the
15 agenda.

16 MS. LEWIS: So it's now time for closing
17 remarks. I think we've lost some of our Commissioners
18 and the Chairman, so then I will just go to
19 Commissioner Behnam.

20 COMMISSIONER BEHNAM: Thanks, Alicia.

21 They're all upstairs having lunch together.

22 Thanks to Nadia, Alicia, of course, for all

1 the work you do. Thanks to the panel.

2 Tom, 751, we're all going to keep that in
3 our heads now.

4 A special thanks to all the Co-Chairs:
5 Stephen, Alicia, Lisa, Lee, Bob Litterman, who has
6 since left. I know we had a lot of discussion today,
7 and, Alicia and Lee, you have the Sisyphean task of
8 getting us over the hump here on CCPs. But I think
9 Rana said it the best, let's focus on what we can
10 agree on and move the conversation forward. It's
11 something that I think we all agree is very important
12 from a resiliency standpoint to make sure that the
13 ecosystem of our markets are healthy and well, and
14 this is certainly a very important issue to discuss.

15 And I would just comment, all morning was a
16 very good conversation.

17 Demetri, I appreciate your comment about
18 education, you know, in the context of the LIBOR
19 transition and making sure that we're
20 understanding -- within the CCP conversation and
21 understanding folks are educated about what's going
22 on, and that will help us and inform us to make better

1 decisions.

2 So moving forward, we have a lot on the
3 plate, LIBOR obviously moving in a very good
4 direction, still a lot of unresolved issues, but I
5 think as long as we can work collectively, we can move
6 forward and work towards 2022.

7 And the tabletop should be a good exercise.
8 We'll figure out a date that works for everyone.
9 There are going to be a lot of reports probably in
10 2020 and conclusions, but we'll figure out a time that
11 works for everyone. And probably we'll discuss this
12 later to make sure that we have everyone from the
13 firms who are zeroed in on this so that the exercise
14 can be most beneficial to the firms and the people who
15 are thinking about the transition.

16 So with that, thanks, everyone, for a long
17 morning and early afternoon, but we can all break now.
18 It's a busy time of year, so, as I've said before,
19 Happy Holidays, Happy New Year. And we're available
20 if there is anything we can do as we sort of move the
21 MRAC forward. There are a lot of exciting issues I
22 think we have before us, and 2020 should be a good

1 year. So thanks again, and look forward to seeing you
2 all soon.

3 MS. LEWIS: Thank you, Commissioner Behnam.

4 Before I adjourn, I just wanted to also give
5 the people on the phone one more opportunity if you
6 did not indicate your presence.

7 Suzy White, HSBC?

8 MS. WHITE: Hi. Yes, Alicia. I'm here.

9 MS. LEWIS: Okay.

10 Rana Yared, Goldman Sachs?

11 MS. YARED: Hi. I'm here.

12 MS. LEWIS: Okay, you're on the record.

13 Well, I want to thank everyone for attending
14 this meeting. Happy Holidays. This meeting is
15 adjourned.

16 (Whereupon, at 1:08 p.m., the meeting was
17 adjourned.)

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