

UNITED STATES OF AMERICA
COMMODITY FUTURES TRADING COMMISSION

PUBLIC ROUNDTABLE:
RECOVERY AND ORDERLY WIND-DOWN OF
DERIVATIVES CLEARING ORGANIZATIONS

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1 P R O C E E D I N G S

2 (9:10 a.m.)

3 MR. WASSERMAN: So if I could thank
4 everyone for coming. I guess to get us started if
5 I could recognize Chairman Massad to give a couple
6 of opening remarks.

7 MR. MASSAD: Well, good morning and
8 thank you. I'm pleased we don't have snow today.
9 I appreciate all of you for being here and
10 particularly appreciate the panelists. We really
11 are grateful to you for spending the time to
12 discuss these very, very important issues with us.
13 You know, this whole issue of CCP recovery, CCP
14 resilience is obviously getting increased
15 attention these days, and that's a very good
16 thing. There have been a number of papers by
17 various stakeholders, some of whom are here today.
18 And this roundtable is a very good opportunity for
19 us to exchange views. And I spoke about this in
20 my speech at the FIA Conference last week. I
21 spent a fair amount of time talking about this
22 issue also. And I emphasized looking at issues in

1 context, meaning instead of just focusing on one
2 particular aspect of the overall framework, we've
3 got to make sure we look at the overall framework
4 and how each of these issues fits in because
5 effective risk mitigation is obviously dependent
6 on having a strong overall framework. And I
7 talked a little bit about what we've done here in
8 terms of updating our regulations post Dodd-Frank,
9 in terms of developing specific regulations for
10 the systemically important clearinghouses, the
11 fact that those are consistent with the PFMI and
12 the importance of the PFMI. And I also talked
13 about the supervision that we do and the oversight
14 that we do because again simply writing rules is
15 not enough.

16 The goal of course of all of that is to
17 never get to the issues we're going to talk about
18 today. And we try very hard of course to have a
19 strong risk mitigation framework, to be proactive
20 in our oversight, so that we don't ever get to
21 those issues. To my knowledge no U.S. CCP has
22 ever had to use resources beyond a defaulting

1 member's resources to deal with a problem. But
2 that doesn't mean we shouldn't talk about it which
3 is why we're here. It doesn't mean we shouldn't
4 plan for it, and in fact our rules require us to
5 plan for it because we know that no matter how
6 good a regulatory regime is, in extraordinary
7 circumstances something could happen. So that's
8 why we're here; that's why the staff is reviewing
9 the recovery plans of the systemically important
10 CCPs. So we're again very grateful to all of you
11 for being here for this very important
12 conversation, and I think it will help us very
13 much to be informed in our thinking about these
14 issues, and I look forward to a very productive
15 discussion. And I don't know if my fellow
16 Commissioners, if Commissioner Bowen would like to
17 say something.

18 MS. BOWEN: Good morning, everyone; I'll
19 be really brief. I also would like to thank the
20 staff for setting up today's roundtable. We've
21 seen a lot of analysis recently considering
22 whether we should support a recovery resolution or

1 recapitalization regime for CCPs. So I'm really
2 looking forward to today's discussion because it
3 tackles many of the key issues concerning a CCP's
4 default waterfall, including the auction process,
5 variation margin haircutting, and wind-down.

6 I also look forward to this conversation
7 because it is critically important that our CCPs
8 have a well considered, data driven approach to
9 their overall risk management process. I'm
10 confident that in looking at this today that an
11 ounce of prevention will be a lot safer than a
12 pound of cure if heaven forbid we were ever to
13 face such a bad day.

14 So I look forward to hearing your
15 recommendations and I'm sure they will be
16 beneficial to the Market Risk Advisory Committee
17 which I sponsor, and I hope to see many of you at
18 our first meeting on April 2.

19 Thank you.

20 MR. WASSERMAN: Commissioner Giancarlo?

21 MR. GIANCARLO: Thanks, Bob. I'm
22 pleased to participate and welcome everybody to

1 today's staff roundtable on Recovery and Orderly
2 Wind-Down of DCOs. As advertised the purpose is
3 to gather the views and information from critical
4 stakeholders. And I echo the Chairman's emphasis
5 on seeing the whole framework, and that is exactly
6 why we're here today.

7 But just very briefly but importantly
8 what I wanted to say is to commend the leadership
9 on these issues by the staff of the CFTC including
10 its Division of Clearing and Risk. One of the
11 most satisfying elements that I've experienced
12 from coming the private sector into the public
13 sector is to really see the extraordinary
14 expertise and competency of agency personnel and
15 their clear dedication to public service, and
16 that's nowhere more evident than in the Division
17 of Clearing and Risk that are mostly responsible
18 for today's events.

19 When it comes to regulation and
20 oversight of the derivatives clearinghouses DCR's
21 extensive and long-standing expertise is likely
22 second to none amongst global regulators. And as

1 we move more derivative products to central
2 counterparty clearing as part of the global
3 regulatory reform effort and in accordance with
4 Dodd-Frank, the CFTC's DCR capabilities are both
5 critically essential and very reassuring.

6 So with that I think you for coming
7 today and I look forward to the program.

8 MR. WASSERMAN: I'd like to thank
9 Chairman Massad and Commissioners Bowen and
10 Giancarlo for those remarks.

11 I guess I would first like to introduce
12 my colleagues here who are with me. Immediately
13 to my right is Phyllis Dietz who is my boss, the
14 Director of the Division of Clearing and Risk.
15 And to her right is my colleague Julie Mohr, who
16 is Deputy Director in charge of Examinations in
17 Clearing and Risk. And to my left, someone to
18 whom I owe a great deal of gratitude, the person
19 who actually bore the laboring role in getting
20 this thing set up, Associate Chief Counsel Kirsten
21 Robbins.

22 And I would also like to thank everyone

1 here for coming today, in particular the
2 panelists, happily doing so was significantly
3 easier when we first tried to do this two weeks
4 ago. We have an extremely talented group of
5 panelists here representing a broad array of
6 interests and I expect that today's discussions
7 will be both lively and of considerable assistance
8 to staff as we work to understand these
9 extraordinarily complex and difficult issues.

10 CCP recovery issues have been the
11 subject of intense interest, not only here at the
12 CFTC, but also among CCPs, their members, and buy
13 side firms. As the Chairman mentioned, over the
14 past year or so we've seen a number of very
15 helpful position papers written by these
16 stakeholders, including a number of the
17 institutions who are represented here today.
18 These issues have attracted also the interest of
19 regulators of clearing members, both here in the
20 U.S. and in the international sphere, including
21 but definitely not limited to the CPMI and IOSCO
22 groups that were responsible for the PFMI's.

1 Today's roundtable is likely to feed into these
2 larger discussions. Last year CPMI and IOSCO
3 published a report on recovery of financial market
4 infrastructures and is likely to look at these
5 issues some more in coming months.

6 When I use the term "recovery" I'm using
7 it as defined in that report. The actions of a
8 CCP consistent with its rules, procedures, and
9 other ex ante contractual arrangements to address
10 any uncovered loss, liquidity, shortfall, or
11 capital inadequacy, including actions to replenish
12 depleted prefunded financial resources and
13 liquidity arrangements as necessary to maintain
14 the CCP's viability as a growing concern, and the
15 continued provision of critical services. This is
16 distinguished from resolution which involves the
17 actions of a governmental resolution authority.

18 The report sets forth some important
19 criteria for recovery tools. The set of recovery
20 tools considered as a whole should be
21 comprehensive and effective in allowing the CCP to
22 fulfill its responsibilities under the PFMIs to

1 allocate fully any uncovered losses and cover any
2 liquidity shortfalls. The set of tools should
3 also include plausible means of addressing
4 unbalanced positions and replenishing financial
5 resources. Each tool should be effective in the
6 sense of being timely, reliable, and having a
7 strong legal basis. Critically the tools should
8 be transparent and designed to allow those who
9 would bear losses and liquidity shortfalls to
10 measure, manage, and control their potential
11 exposure. The tools should feed appropriate
12 incentives for the FMI's owners, participants, and
13 other relevant stakeholders to control the amount
14 of risk that they bring to or incur in the system,
15 monitor the CCP's risk taking and risk management
16 activities, and to assist in the CCP's default
17 management process. The tools should also be
18 designed to minimize the negative impact on direct
19 and indirect participants and the financial system
20 more broadly.

21 Today we will have four panels, each of
22 which will discuss one of the very complex issues

1 that have arisen pertaining to DCO recovery.
2 First, the use of variation margin gains
3 haircutting. Our second panel will be on
4 reestablishing a matched book. After lunch our
5 third panel will be on wind-down, and our last
6 panel will be on liquidity risk management. There
7 are many other issues related to recovery, but
8 those will need to wait until another day. Our
9 goals of the discussion today will aid DCOs in the
10 formulation of their recovery and orderly
11 wind-down plans, ensure that the marketplace as a
12 whole is engaged with DCOs in the development of
13 these plans, and assist staff with the review of
14 such plans.

15 I'd like to make some important
16 administrative announcements. As a public service
17 we have wifi available. Instructions are in the
18 written agendas that are on the table near the
19 door as you came in. Restrooms are outside this
20 room. Go to you right as you leave, dog leg
21 right, then at the end of the space it will be on
22 your left. We have some coffee and tea in the

1 back as well as some bottled water. Panelists,
2 please press the button to activate your
3 microphone when you speak. This roundtable is
4 being audio cast to folks calling and they can
5 only hear you if the microphone is on. If you
6 forget to turn it on, if you're speaking too far
7 from the microphone, you may see me pointing to my
8 ear. On the other hand, please turn your
9 microphone off when you stop speaking as we only
10 can have only a limited number of them on at a
11 time. If you use abbreviations or technical terms
12 please explain them the first time they are used.
13 I should note that while I and some of my
14 colleagues may be asking questions and may express
15 tentative views, anything we say represents at
16 most our personal views and does not represent the
17 view of the Commission or the staff as a whole.
18 We will be making a transcript of this roundtable
19 which will be posted on the CFTC website. And,
20 finally, we will also be making the video
21 available eventually on YouTube. Previous videos
22 of CFTC staff roundtables have accumulated

1 hundreds of views. (Laughter) So our first session
2 then will be on variation margin gains haircutting
3 and just a brief introduction there. So in
4 haircutting variation margin gains a DCO -- and I
5 am using interchangeably DCO, which is of course
6 the CCPs that are regulated here by the CFTC and
7 CCP -- a DCO may reduce pro rata the amount it is
8 due to pay participants with in-the-money net
9 positions while continuing to collect in full from
10 those participations with out-of-the-money net
11 positions. As a recovery tool variation margin
12 gains haircutting has several advantages. First,
13 it may be analogous to the pro rata distribution
14 in insolvency. It could be expected to cover
15 comprehensively, reliably, and promptly all losses
16 caused by a participant default on any given day.
17 And in comparison to cash calls, that is
18 assessment, variation margin gains haircutting
19 carries less performance risk because the activity
20 is within the control of the DCO. Nevertheless
21 there are a number of concerns regarding the use
22 of this tool on multiple days. The analogy to

1 insolvency breaks down when the tool is used more
2 than once. Moreover there is concern that when
3 faced with the prospect of not receiving future
4 variation margin gains participants will
5 eventually refuse to pay variation margin losses
6 when due. The incentive to refuse to pay
7 variation margin losses may well increase each
8 time the tool is used.

9 And so I would like now to ask the
10 panelists for our first session to introduce
11 themselves by name and title and organization.
12 And, Sunil, if we could start with you.

13 MR. CUTINHO: Hi, I'm Sunil Cutinho.
14 I'm the President of CME Clearing.

15 MR. WHITEHURST: Good morning, my name
16 is Philip Whitehurst. I'm with LCH.Clearnet
17 Limited on product development area.

18 MR. MCCLEAR: Good morning; I'm Kevin
19 McClear. I'm ICE's Corporate Risk Officer.

20 MS. HOPKINS: Lindsay Hopkins; I'm
21 Clearinghouse Counsel to the Minneapolis Grain
22 Exchange.

1 MR. KAMNIK: Good morning. Joe Kamnik;
2 Chief Regulatory Counsel at the Options Clearing
3 Corporation.

4 MS. WALTERS: Kristen Walters. I'm with
5 BlackRock's Risk and Quantitative Analysis Group.
6 I'm their Global Chief Operating Officer.

7 MS. JORDAL: Tracey Jordal; Executive
8 Vice President, Senior Counsel, Pacific Investment
9 Managing Company.

10 MS. RAMANATH: Raj Ramanath; I manage
11 clearinghouse risk at JP Morgan.

12 MR. DION: Jean-Phillipe Dion; I'm the
13 Director of Market Infrastructure for RBC Capital
14 Markets and I'm representing ISDA here today.

15 MR. FRANKEL: Oliver Frankel, Goldman
16 Sachs, representing FIA.

17 MR. NEWELL: Jeremy Newell; General
18 Counsel and Head of Regulatory Affairs of the
19 Clearinghouse Association.

20 MR. HORGAN: Rich Horgan; Chief
21 Financial Officer for Rosenthal Collins Group.

22 MR. KADLEC: Tom Kadlec; President of

1 ADM Investor Services and I'm representing the
2 firm and Commodity Markets Council.

3 MR. PRIOLO: Phil Priolo; I'm the
4 Director of Credit for the Exelon Corporation.

5 MR. WASSERMAN: Thanks very much. So,
6 folks, we'll need to speak fairly close to the
7 microphone. And so the first question, would
8 folks like to address the advantages and
9 disadvantages of using variation margin gains
10 haircutting?

11 Sunil?

12 MR. CUTINHO: So, Bob, if you would
13 allow me I think it's important to actually set
14 some context before we talk, otherwise we will
15 just focus on -- we won't have a good
16 representation of the environment within which we
17 are considering these options. I think one of the
18 most important things to think about is that the
19 -- you know, variation gains haircutting is a
20 recovery tool it's one of the last recovery tools.
21 But before we get to this point we have to
22 understand that the financial safeguards package

1 that we have is exhausted. So what does that
2 really mean? It means that more than five of the
3 largest firms have failed and all the safeguards
4 package that has meant to withstand the losses of
5 the global financial crisis, the 1987 crash, the
6 FDCM, and all these stresses, simultaneous
7 stresses have all been exhausted. So we are
8 facing a stress situation that is far in excess of
9 what we've seen.

10 So under these circumstances and as was
11 pointed out previously, and by yourselves when you
12 presented the option, variation gains haircutting
13 as a limited purpose recovery tool is attractive
14 because of certainty. If laid out ex ante, if it
15 works transparently, then it has the benefit of
16 expediency in the way it works, far better than
17 insolvency where there is a lot of uncertainty.
18 The other benefit of variation gains haircutting
19 if presented as an ex ante recovery tool way at
20 the end in such situations is it encourages
21 participants' behavior to participate in the
22 recovery before we get to that point because

1 gainers will know that there is no windfall
2 profits and those profits are going to be
3 haircutted. So participation in auction is
4 incented, participation in recovery ahead of time
5 is incented. So we believe that that's one of the
6 great benefits of it.

7 One of the other things that we can look
8 at which people most -- some of them consider as
9 negatives of variation gains haircutting is it's
10 not a perfect tool. I think in such circumstances
11 perfection is not very to achieve. If we were to
12 look at it from a net equity perspective -- you
13 know, CCPs don't have a view into net equity of a
14 client because net equity of a client at a
15 clearing firm is across multiple CCPs and clients
16 can have assets that clearing them was -- that are
17 not passed onto a CCP as well.

18 So given the information that a CCP has
19 and under such circumstances I think it presents
20 as a very good option.

21 MR. KADLEC: I think context is
22 incredibly important and I echo Sunil's comments.

1 I also agree wholeheartedly with Commissioner
2 Bowen that prevention has to be emphasized. It's
3 been emphasized to our community, the FCM
4 community, and in recent rules that the Commission
5 has passed, increased capital, increased timing of
6 meeting margin calls, et cetera. That clearly
7 should be addressed at the exchange -- well, I
8 hope it has.

9 Regarding the variation margins from a
10 commercial standpoint it's only accepting if there
11 are limitations and it's quantified from my
12 perspective. For example, is it all commodities,
13 or it just the commodities in question and the
14 failures of the large five firms? Is it
15 agriculture, which is so dear to my heart that
16 most likely does not have the depth and breadth to
17 cause a CCP failure? So I think I am -- with
18 certain limitations we would be supportive of
19 variation margin haircuts, but it would really
20 need to be vetted out in a full discussion, and
21 limited to in buckets if you will.

22 MR. WASSERMAN: So are you suggesting --

1 I mean of course many of the CCPs already have
2 articulated services and different waterfalls, but
3 are you saying that you would be looking for this
4 or something at a level more limited than a
5 particular waterfall?

6 MR. KADLEC: We are through the
7 waterfall. So post waterfall what I'm saying if
8 small commercial hedgers are not part of the
9 problem why would they share in the variation
10 margin haircut? If they're not part of whatever
11 the financial problem is do they get some kind of
12 protection or do they have to -- just because they
13 have money at an exchange do they have to -- are
14 they part of the bank?

15 MR. WASSERMAN: Folks?

16 MR. FRANKEL: I think, Bobby, you
17 provided the answer to that concern which is if
18 the agricultural products were siloed in their own
19 clearing service with their own default fund it
20 would make the clearing slightly more expensive,
21 but it would protect them from any contagion from
22 a disaster in rates or some other macro product.

1 So it's achievable to do that.

2 I was going to say in answering more
3 closely Bob's question about whether VM gain
4 haircutting could be exercised more than once, I
5 think the question I ask back is what's the
6 alternative if the clearing service has yet to be
7 able to transfer the defaulter's positions to
8 another clearing member or to the market as a
9 whole? It seems like the only alternative would
10 be to wind-down and I think that's not an option
11 for clearing services who will be considered
12 critical to the function of markets. And so I
13 think the choice is always to continue. And to
14 continue means to continue to haircut gains until
15 we have closed down the positions and transferred
16 them to another participant away from the CCP.

17 MR. CUTINHO: I just want to respond to
18 a few things that Oliver pointed out. You know,
19 of course if you want to keep limiting and
20 limiting, limiting the impact you can keep
21 granularly breaking up the waterfall and
22 separating out products, but I don't think that is

1 often a solution. That's because, you know, it
2 becomes impractical at some point in time.
3 Clearing as a service, even the waterfall on the
4 products that you put in a risk pool offers
5 benefits. This is why context is very important.
6 In terms of limiting its impact of variation gains
7 haircutting we have already spoken about blowing
8 through the safeguards package that's a shared
9 pool of resources. So in effect you have shared
10 in protecting the entire market that is a part of
11 that risk pool. So I don't think the solution is
12 siloing. If we get too impractical because you
13 will always end up in a situation where some
14 market participants would say that why are we
15 impacted, we were not the defaulter. So variation
16 gains haircutting by definition is impacting non
17 defaulting clients irrespective of the product.
18 But to Oliver's point we have true separation.
19 Certain products such as credit default swaps,
20 they have a separate risk profile, they are part
21 of a separate safeguards package. There is
22 limited recourse and it has no impact on the

1 transparent, liquid, systemically important
2 markets in our case.

3 MR. WASSERMAN: Raj?

4 MS. RAMANATH: I think Sunil raises a
5 very valid point in terms of segregating or
6 siloing certain products to limit the impact, but
7 I think to Tom's point there is also concern that
8 the end users whose gains have been haircut had a
9 certain expectation in terms of cash flows that
10 they are suddenly not going to be getting. And
11 putting it in the context that Sunil raised in
12 terms of a market environment where you already
13 loan through the guaranty fund which is sized to
14 cover two with extreme but plausible scenario.
15 Almost all the CCPs that I'm a part of have
16 unfunded assessments, at least one times equal to
17 the guaranty fund. So you're potentially looking
18 at exhausting resources which cover like four or
19 five largest member defaults. And in such a
20 scenario if you are looking at variation margin
21 haircut the rest is potential fear of the kind of
22 distress it would lead in the market, and the kind

1 of impact it would have on market confidence.

2 And I hear what Tom says in terms of
3 limiting the impact, but that's possibly not -- to
4 the extent that the silos have been designed up
5 front you would expect the impact to be limited to
6 those silos, but you can't limit it to specific
7 products within those silos. It's going to be
8 very challenging to implement something of that
9 nature. But, again, within the silo it impacts
10 participants who are possibly not the ones who
11 would need to provide the CCP with hedges. So
12 variation margin haircut as a tool has the
13 potential to further exacerbate market stress if
14 it is not implemented in a manner which is well
15 thought out or limited and subject to appropriate
16 controls. And therefore as a firm we feel that if
17 variation margin gain haircut is implemented, and
18 against the recovery tools it's probably the most
19 effective of recover tools, it needs to be
20 implemented under some sort of supervision which
21 ensures that to the extent that variation margin
22 gain haircut is implemented the CCP will

1 necessarily return to a balanced book, and that
2 people who have taken those losses have not take
3 those losses in vain. You want to avoid a
4 scenario where you implement variation margin gain
5 haircut, but nevertheless eventually realize you
6 can't get to a balanced book and have to wind-down
7 the CCP. And therefore you need to (1) ensure
8 there are sufficient controls that would make sure
9 that when implemented it would return the CCP to a
10 balanced book. And just to give members and
11 participants predictability it cannot be
12 implemented indefinitely. There has to be a
13 certain limit either by way of time or in terms of
14 resources on the extent to which variation margin
15 gains haircut is implemented so that participants
16 can plan for it and it does not impact the
17 confidence of the market. And to the extent that
18 they are suffering losses it's important that --
19 and this is in line with the CPMI IOSCO report on
20 recovery -- in terms of compensation for any loss
21 allocation and recovery to the extent that
22 variation margin gain haircut is implemented,

1 participants should be compensated for the losses
2 that they suffer, either through any recoveries
3 that are made from the defaulted member's estate,
4 or even beyond that from the future earning of the
5 CCP which is primarily standing at that point in
6 time because participants have taken that hit.

7 MR. FRANKEL: Agreeing with all your
8 points there. A question, when you reach the
9 prescribed limits for use of gains haircutting
10 what actions should be taken then?

11 MS. RAMANATH: I'm sure you've seen the
12 white paper that JP Morgan as a firm has released.
13 We strongly believe that along with the recovery
14 plan there also needs to be a clear resolution
15 plan supported by prefunded resources that could
16 give confidence to the system. And therefore if
17 you see that the recovery tools are not working,
18 or if they are impacting system stability, then
19 the resolution authorities step in.

20 MR. FRANKEL: But still what can the
21 resolution authority do to (a) cut the losses, and
22 (b) cover the source of those losses? What are

1 the extra tools the resolution authority has that
2 are not prescribed already in recovery?

3 MS. RAMANATH: The resolution authority
4 would have access to these prefunded resources
5 which they can use to recapitalize the CCP. And
6 the way we end this -- and this probably goes to
7 strengthening the front point and --

8 MR. FRANKEL: Just a point, if it's for
9 recapitalizing the CCP it's not for absorbing the
10 current set of losses, so how do we cover the
11 current set of losses without gains haircutting?

12 MS. RAMANATH: It would recapitalize the
13 CCP and help manage -- to silo out the trades and
14 help manage any issues with the bad trades as
15 well. Although I think you raise a very good
16 point in terms of how are the resources
17 sufficient. And I think that goes back to a very
18 fundamental point which needs to come up front
19 which was that you need to strengthen the front
20 end of the system to ensure we don't get to such a
21 point, which means (1) you need to ensure that the
22 total loss absorbency resources are sized to be

1 such that they are sufficient to withstand a very
2 large stress. It's probably something that's
3 transparent, mandated by some kind of regulator to
4 ensure that it's going to be sufficient at all
5 points in time. And then of course to the extent
6 that you're also aligning incentives by ensuring
7 appropriate structure from a governance and
8 waterfall structure perspective, ensuring that
9 you're only introducing appropriate products for
10 clearing, which is liquid products which have a
11 very strong risk and default management framework.
12 I think you go a long way in terms of avoiding the
13 problem the first instance.

14 MR. WASSERMAN: So I mean to that last
15 point, in terms of ensuring proper loss absorbency
16 I think it's fair to say that we have a standard
17 in the PFMIs, cover two for most folks. I think
18 one of the key issue folks have pointed out is
19 that very much depends on the rigor of the stress
20 testing that leads to the calculations of fact.
21 And of course there will be other discussions in
22 other fora internationally on stress testing. You

1 raise a couple of other points about product
2 eligibility and the like and that is course part
3 of our rules, but again probably something we'll
4 be discussing elsewhere. I think though as a
5 number of folks have noted we do have --
6 essentially what we're dealing with is very much
7 an end of days scenario where you've gone through
8 a whole lot. But let me let Phillip comment.

9 MR. WHITEHURST: Thank you. I obviously
10 agree very much with a number of the points that
11 have been made. I think we've heard the term
12 "context" used quite frequently by various
13 spokespeople so far, so it might be useful, might
14 work better in the realities rather than in the
15 abstract. For example, if we take a swaps market
16 example, what is the situation in which something
17 like this variation margin gain haircutting kicks
18 in. So we take initial margin, we take that to
19 very high levels of confidence. We typically --
20 all CCPs here would know their own metrics, but we
21 probably take that to about a 40 basis point move,
22 40 to 50 basis point move, so if we're

1 conservative on that and let's say it's 40, you
2 then have a very big position, something sort of
3 \$25-50 million or a one basis point movement in
4 the market which is an extremely large position as
5 far as we're used to dealing with. Then we would
6 take additional concentration multipliers, and
7 that's a scale of say 50 million PV01 position,
8 you'd be taking double the initial margin through
9 initial margin multipliers. So that initial
10 margin is then giving you coverage for a 80-100
11 basis point market move. So if we put that in the
12 context of 10 year dollar swap rates, for example
13 at 225, that's taking you down below 150 or back
14 above 3 percent. So that's initial margin.

15 Then we look at the default fund which
16 is the next major loss absorbing layer, and again
17 of the CCPs can comment in our case at about a \$4
18 billion funded default fund. So for 50 million
19 PV01 position that's another 80 basis points of
20 cover. So again you are sort of widening that
21 move out to sort of 160 basis points where you've
22 got funded cover. You then have typically an

1 assessment that is usually the default fund again,
2 so that's another 80 basis points. And that's the
3 point in our case where variation margin gain
4 haircutting would kick in. So just to give that
5 context here, we're talking about 10 year dollar
6 swap rates having gone negative for, for example,
7 a person who's long the bond market and before
8 they would be experiencing variation margin gain
9 haircutting. So that's the extent to which this
10 market has moved.

11 And then I think the thing I would like
12 to say on -- sort of in addition of a number of
13 things we could say, but certainly the point there
14 is that the person who is getting haircut there,
15 if it's a rally and if the market has moved from
16 225 down through 0 we're in a situation where we
17 have paid out all of the profit to a person with
18 that position, which if you contract with for
19 example the bilateral world you would have been
20 already out at 225 because that's where you are if
21 you're in a bilateral contract. So you're getting
22 a lot protection. You can ride quite a long rally

1 if you're long, or quite a long sell off if you're
2 short, and it's only in the point that there's
3 been a really extreme move well into implausible
4 territory that you are starting to experience
5 haircuts. So you've had plenty of time to think
6 and plenty of time I think to make a decision
7 about exiting the market at the point that you are
8 extracting I would say super profits.

9 So I think hopefully that helps provide
10 a little bit of context admittedly just in a swaps
11 market.

12 MR. WASSERMAN: Kristen, would you like
13 to come in?

14 MS. WALTERS: Yes. So as a fiduciary I
15 think that we generally view our variation and
16 initial margin as sacrosanct. And I think of
17 course as we've also discussed that given the
18 choice between recovery and resolution we would
19 propose resolution given our general view that our
20 clients would prefer to be money good versus
21 position good. And we think there are a number of
22 issues that pertain to keeping, you know,

1 positions in place at a CCP where it's in the
2 event of a large failure is basically a risk
3 management on the part of the CCP.

4 So our view is that we would not touch
5 any client margin beyond the defaulting member and
6 that in order to prevent this it is essentially
7 ensuring that there is a fully funded default
8 waterfall including risk based contribution from
9 the CCP to at least the size of the largest
10 clearing member's contribution of -- probably
11 would be 8-12 percent of the overall size of the
12 fund. We also think that the only instance that
13 we can see variation margin haircutting being used
14 would be in a situation where the CCP has gone
15 through the entire fully funded default waterfall
16 liquidation, an orderly liquidation or resolution
17 has been instituted and in the context of
18 potentially replacing management, using the
19 existing operations, recapitalizing the failed CCP
20 that net variation margin or variation margin from
21 the point of default could be used, but only over
22 a very short window.

1 MR. WASSERMAN: Just to be clear, when
2 you say a "short window", I mean at based if you
3 go to the money good --

4 MS. WALTERS: Yes.

5 MR. WASSERMAN: -- if you go to a
6 service termination --

7 MS. WALTERS: Yes.

8 MR. WASSERMAN: -- you're going to have
9 to have VM haircutting if that's the analogy to
10 insolvency?

11 MS. WALTERS: Well, if you have a fully
12 funded recapitalization plan in place I don't
13 think you would necessarily need to rely on margin
14 for that. It could be fully funded by the
15 clearing members and the CCPs.

16 MR. WASSERMAN: Yeah, but if by
17 assumption that's fact. In other words you have
18 fully funded what you thought was necessary but --

19 MS. WALTERS: Yes.

20 MR. WASSERMAN: -- it turns out that was
21 wrong.

22 MS. WALTERS: Yes.

1 MR. WASSERMAN: So the alternative I
2 think is variation margin haircutting at least
3 once, but does it sound like it is admissible
4 under those kinds of extreme circumstances to have
5 it for a short window?

6 MS. WALTERS: So if I understand our
7 conversation so far we have been talking about
8 haircutting in the context of a recovery, where
9 we're trying to keep the CCP viable. So in that
10 situation I think we believe the answer is no. In
11 the situation where we're in resolution and we're
12 actually trying to liquidate all of the
13 outstanding positions, because at the point of
14 failure that's when the CCP will be at its most
15 risk neutral state with only defaulting positions.
16 So we feel that in the context of matching off
17 positions and also an auction for the defaulted
18 positions, that if you had to use variation margin
19 haircutting for a day, 48 hours, over a weekend,
20 we feel that would be the least worst thing to
21 happen, but we're not proponents of it at all in a
22 recovery situation.

1 MR. WASSERMAN: Sunil, would you like
2 to?

3 MR. CUTINHO: Yes. I have a few things
4 that I want to respond to. First is on this idea
5 of, you know, I think Oliver's question, the
6 variation gains haircutting and if variation gains
7 haircutting fails what's the solution with those
8 open positions. We haven't had a matched book. I
9 think the next panel we're going to talk about it;
10 that's when we talk about a targeted tear up, or a
11 tear up of some contracts while we keep the others
12 going. I think we jump into recapitalization
13 funds as being a solution. I think it's not a
14 solution. We generally think that recap fund is a
15 way to accelerate resolution, it's not a way to
16 promote recovery. The way we think about it is --
17 remember those five largest institutions have
18 failed, and thanks to Phil for eloquently pointing
19 out circumstances we are considering this -- if
20 you're talking about more funds and promoting
21 recovery and avoiding this stage, then having
22 capital outside the system is of no good, right.

1 So having capital in the waterfall, even if used
2 in the right order is much better because when
3 those five institutions fails at least that
4 capital is available and we will not get to this
5 stage. If our goal is never to get to this stage
6 then it is important to have -- and if the fear is
7 that assessments are not going to be available
8 then let's prefund assessments for those
9 institutions where we feel that they are super
10 risky, systemically seriously damaging to the
11 world economy, we'll put that in the waterfall.
12 Because when those institutions fail we'll use it
13 in the right order. If they don't fail we will
14 not use it, but if they fail that capital is
15 available to resolve the issues. So it's much
16 more effective than having capital outside the
17 system than having it in the system.

18 I think we spent too much time on CCP
19 contribution to the waterfall. I think the
20 important element there is the contribution should
21 be a function of the risk that the CCP brings.
22 And the second thing is where is it in the

1 waterfall, you know. Having it junior in the
2 waterfall and having a substantial percentage
3 junior in the waterfall is an important, you know,
4 alignment incentive for the CCP to make sure
5 losses don't even bleed into that layer. We're
6 talking about a situation here, as Phil pointed
7 out, and we can go on with other markets as well
8 aware. You know, five institutions have failed
9 and it's a very bad world. And if you compare
10 that to the world around the clearing, non cleared
11 world, it's worse off. So these tools that we're
12 discussing within the context, we're talking about
13 in a world where, you know, it's very uncertain
14 outside of clearing and within clearing we want to
15 actually promote recovery.

16 The idea of gains haircutting is
17 actually two things. One is it allows the
18 incentive effects to work to put recovery in
19 place. The second is it give some breathing room
20 for new capital to come in because the only reason
21 that it is an attractive option is that our
22 markets that are worth recovering for. This is

1 systemically important. If the market wasn't
2 important we would go straight to tear up and
3 wind-down, but tear up is not a very attractive
4 option for the market, so variation gains haircut
5 is a mechanism to actually restore confidence back
6 and then allow new capital to come in. And then
7 if it's a limited purpose because as you pointed
8 out if you keep continuing it people would lose
9 faith and it would stop being their obligations.

10 So it's a very limited purpose. We say
11 maximum of two cycles, and then allow capital to
12 come in and then continue if we must. If not, as
13 Oliver points out, tear up the contracts and use a
14 targeted tear up so that at least those markets
15 that are functioning well can continue.

16 MR. WASSERMAN: Kristen?

17 MS. WALTERS: I just wanted to add, so
18 the concept around the CCP's contribution to the
19 fund. So I definitely agree with the comments
20 when CCPs were entirely neutralized and they were
21 not for profit organizations, but I do think now
22 that a number of the CCPs are for profit

1 organizations that this concept of having fully
2 funded capital that includes a risk based
3 assessment relative to the overall fund itself is
4 very important.

5 With regard to variation margin
6 haircutting I think that we're concerned as a firm
7 that if it's used to restore the CCP it's simply
8 going to discourage market participants from
9 actually using these risk mitigating instruments.
10 So I think we've said before that we would like
11 mandatory clearing not to be in place unless at
12 least two CCPs clear the same product. Because in
13 the instance that you have issues with one CCP you
14 can actually migrate positions and reestablish
15 them at another CCP.

16 MR. WASSERMAN: So I know there are a
17 welter of issues that are all sort of in a ball
18 and difficult to untangle. That said the skin in
19 the game is a very, very popular issue which is
20 going to be discussed more fully elsewhere on a
21 different, or maybe here but on a different day.
22 So I just want to -- because it's a fascinating

1 one, but we really should keep to the issues that
2 we have today which I think are going to fully
3 engage us for the next hour or so, and indeed the
4 whole day for the ones we have.

5 One of the points that I've heard a
6 number of people raise is with respect to limits
7 on variation margin gains haircutting. And I
8 would like to -- as people go on, if they could
9 speak to that. That said, Joe, I wanted to
10 recognize you.

11 MR. KAMNIK: Thank you, Bob. I was
12 going to make a profound point about skin in the
13 game but I won't now. (Laughter) I wanted to
14 point out a few differences with our market and
15 the other derivatives markets that we're talking
16 about here. And I'd like to ask Kristen a few
17 questions of I could. So we talked about the
18 concept of recovery versus resolution and you
19 pointed out perhaps leaning toward resolution
20 versus recovery, but for the options market we're
21 the only game in town. So I'd like to ask you
22 would your analysis be different in that case?

1 And I'd also like to make another
2 distinguishing point which is we don't pay out
3 variation margin gains in the options market. So
4 I think Jean-Phillipe provided a better
5 terminology for us which is a pro rata reduction
6 in unpaid payment obligations. It's more of a
7 mouthful than VMGH, but I'd just like to point out
8 that we're talking about something that's a little
9 broader than just variation margin.

10 One other point before you answer the
11 question, I don't think it's necessarily the case
12 that if the prefunded resources are depleted that
13 there is a risk management flaw within the CCP. I
14 think it's possible that the prefunded resources
15 could be optimally calibrated, but that there's an
16 unforeseen, unpredictable event in the market
17 that's not captured by the stress tests that
18 deplete the resources.

19 MS. WALTERS: I think that's correct.
20 And again I have to preface everything I say as a
21 risk manager. So certainly there are large
22 operational errors that could occur that could

1 cause that type of situation that would not result
2 in a risk management failure necessarily of any
3 clearing member of the CCP itself.

4 And your first question was?

5 MR. KAMNIK: I want to see if your
6 analysis on recovery versus resolution was
7 different for the options market where OCC is the
8 only clearing agency for the listed options.

9 MS. WALTERS: Well, I mean I think we
10 view that as a concern in -- I mean it's very
11 difficult to do. So even our point that we'd like
12 to have multiple or more than one CCP for each
13 product that exists potentially for interest rate
14 swaps and CDS, but it's actually very difficult.
15 So we do think there's a lot of work to be done to
16 actually make sure that there are multiple CCPs
17 simply before there is mandatory clearing.

18 I think in your market things are also
19 physically settling in some instances which I
20 believe makes --

21 MR. KAMNIK: Some are, that's right,
22 some are.

1 MS. WALTERS: -- the variation margin
2 haircutting -- I don't think it's even feasible.

3 MR. KAMNIK: Right. So as I mentioned
4 it's more accurately depicted as the pro rata
5 reduction of unpaid payment obligations for us.
6 We have premium payments coming in that could be
7 haircut similar to variation margin, and then we
8 have a small futures business in which variation
9 margin haircutting would work also. But I think
10 it's important, and it echoes what point Sunil
11 made earlier that these institutions broadly, and
12 I think OCC is classified somewhat separately
13 because of the distinctions with its role in the
14 marketplace, but they're worth of recovery based
15 on the fact of the systemically important nature.

16 So I'll leave it at that.

17 MR. WASSERMAN: Tracey, I think you
18 wanted to come in?

19 MS. JORDAL: Sure. I think there are
20 multiple things said here. I think in the end
21 what we're talking about here is the use of client
22 assets in order to assist in the recovery and/or

1 resolution of the CCP. And I mean client assets
2 in terms of end users who have gained in their
3 positions. I think from our firm's standpoint as
4 a basis client assets or end users who are non
5 defaulting clients should never be penalized.
6 However, as a tool of last resort to the extent
7 margin is considered to be used we believe that
8 variation margin gains haircutting is a bit
9 lopsided because it just penalizes the winners.
10 So in our view you really should take into account
11 both VM and IM which is more of a mutualization of
12 a haircutting when you look towards haircutting
13 any type of margin as a recovery tool.

14 In terms of how many times should it be
15 used, I think Kristen made a good point and others
16 where I think the more times you use it the less
17 incentives people will have to pay in. Because
18 once you pay in the first time and you know that
19 it's going to be haircut there is going to be less
20 incentive to pay in or even participate in another
21 auction.

22 MR. WASSERMAN: So I should note while

1 we are talking here about either variation margin
2 gains haircutting or as Joe accurately points out
3 one might reframe it because of the options
4 context to simply gains based haircutting, our
5 rules and our statute would not permit initial
6 margin haircutting. Actually taking the
7 collateral posted by clients.

8 But, Richard, I think you wanted to come
9 in?

10 MR. HORGAN: Yes. I think to continue
11 what Tracey was saying is I don't think that it's
12 been clear on what is the FCM's responsibility to
13 its customers. Keep in mind many of these futures
14 contracts are tied to some type of physical
15 contract and if I am getting it variation margin
16 haircutted what is my responsibility to my
17 customer to continue to pay them. It's very
18 typical for a futures broker to settle up every
19 day with your clients on a variation payment and
20 would I still be obligated to make those variation
21 payments, and then are we creating an additional
22 system risk where then you're just transferring

1 that exposure down to the FCMs?

2 MR. WASSERMAN: What does your client
3 agreement say?

4 MR. HORGAN: My client agreement would
5 probably allow me to -- and I would have to think
6 about that a little bit more, but my client
7 agreement would probably allow me to hold back
8 some monies, but also I have a responsibility from
9 just a business enterprise perspective to continue
10 to meet my obligations to m clients.

11 And then also the variation payment or
12 haircutting concept in many instances -- the
13 futures is just one component of the portfolio
14 that the customer is managing and whether it's a
15 gain or a loss on the future side in many respects
16 is just part of the whole transaction itself. By
17 the way agricultural hedging is something that
18 we're a little bit more familiar with.

19 MR. WASSERMAN: I guess the question I
20 would have is to the extent that the DCO, which
21 you're a member, has this as an available tool, is
22 it possible for you to arrange with your clients

1 through the client agreement some way of
2 addressing the risks that that posed to you
3 sitting in the middle?

4 MR. HORGAN: I think you could. I think
5 you will have some challenges with the education
6 of the client and the sophistication and trying to
7 walk them through that process.

8 MR. WASSERMAN: An unenviable task.
9 Jean-Phillipe?

10 MR. DION: Maybe just starting off by
11 recognizing a lot of the context that was provided
12 where VMGH or pro rata reduction in payment
13 obligations is never a first best outcome. That
14 of course the first best outcome is a participant
15 default that does not consume the entirety of the
16 defaulter's initial margin.

17 Then at that point if we're discussing
18 reduction in gains it's important to understand
19 that the pros and cons are not absolute, they're
20 relative. And they're relative to contract close
21 out or contract tear up which in many cases a CCP
22 clearing member would not necessarily

1 contractually be obligated to make the client
2 whole in the case of a CCP default.

3 Now that being said, maybe bringing us
4 back to your original question which was limits,
5 limits in the use of VMGH are very important. And
6 specifically the foremost limit is the success of
7 the CCP's default management process and the
8 ability or the success of the auction process
9 perhaps more specifically in the case of, for
10 example, an LCH. Because in that kind of a
11 scenario where the defaulter's portfolio is
12 accurately and well hedged, and the loss on the
13 portfolio is being stemmed, then we're considering
14 ultimately haircutting the losses attributed to a
15 hedge portfolio where there is no longer
16 significant market movement on the book versus
17 close out and ultimately potentially service
18 closure of the CCP. So the relative pros of VMGH
19 are incredibly important here. And foremost the
20 most important limit is that the CCP have a
21 successful default management process because that
22 makes the comparison much easier in that case, and

1 ultimately that's what I think we're discussing
2 here.

3 Now judging the success of the CCP's
4 default management process and how that occurs
5 with the resolution authority is an important
6 question, and perhaps thankfully not necessarily
7 one that this panel will deal with, but the next
8 one.

9 MR. WASSERMAN: Phillip?

10 MR. PRIOLO: I just wanted to give a
11 little bit of an end user perspective here. You
12 know, somebody who is an end user and a risk
13 manager and a credit professional, you know, the
14 use of forced clearing is something that we're
15 obviously against, but if that is, you know --
16 that ship has sailed, right? That's probably
17 neither here nor there, and, you know, as somebody
18 as a risk manager I feel I could, because I've
19 heard some of those who represent CCPs talk about
20 you're better off if you're with a CCP than if I'm
21 doing bilateral trades, and I don't necessarily
22 agree with that view; however, I think if you're

1 talking about this scenario where you're getting
2 into variation margin gains haircutting, you know,
3 I'll use the word doomsday, I'll use the word --
4 you know, you're in a pretty dire financial
5 picture. Systemically markets are in pretty bad
6 shape at that point. So to be at that stage where
7 you've had four or five financial institutions
8 fail and we're now trying to cut gains on
9 variation margin, I don't know what other tools
10 you have left in the tool chest at that point.
11 And so as somebody who is fairly new to this and
12 an end user I'd not before that, but I don't know
13 what else is out there that you'd be able to use.
14 So it seems prudent at that point that that might
15 be where you need to be.

16 MR. WASSERMAN: Yeah, the term I heard
17 someone mention earlier is "least worst".
18 Phyllis, I think you?

19 MS. DIETZ: Yeah. We've been talking in
20 terms of the haircutting being the tool of last
21 resort. Is there any possibility that it might be
22 employed further up in the waterfall in a

1 different way, or is it truly the least desirable
2 and that's the very last measure? Any thoughts on
3 that?

4 MS. JORDAL: We believe it's the least
5 desirable. I think it's important to have the
6 other risk management tools calibrated correctly.
7 I mean you made a good point, you can't foresee
8 unforeseeable events but you need to do your best.
9 So, you know, skin in the game, another topic for
10 another day. What's the right percentage?
11 There's been a lot of percentages thrown out
12 there. Are people valuing, are their models
13 correct? So I think there are other things that
14 should be done and variation margin gains
15 haircutting should be definitely a tool of extreme
16 last resort. And I think it would be a doomsday
17 tool.

18 MR. WASSERMAN: Lindsay?

19 MS. HOPKINS: We would agree that it's
20 very last resort from us. Coming from a much
21 smaller exchange perspective I recognize and agree
22 with a lot of the comments that have been made and

1 the pros that variation margin gains haircutting
2 has. And I think it could work effectively for a
3 SIDCO or a larger CCP, but we're not a SIDCO and
4 we really don't know how our business could
5 recover in terms of reputation. That is if we
6 were to haircut variation margin gains -- I mean
7 we're designing our plan to be viable, that's what
8 it's required to be in the rules, but if we were
9 to haircut variation margin gains maybe we cover
10 some of our losses in the short term, but we do so
11 at the expense of our long-term viability and
12 reputation. And we think we lose our market and
13 we go into wind-down at that point. So I guess I
14 would just hope that there's a recognition that
15 one size doesn't fit all when it comes to tools
16 that are used in recovery.

17 MR. WASSERMAN: Kevin?

18 MR. MCCLEAR: I wanted to answer
19 Phyllis's question, but first I'll say I think
20 variation margin gains haircutting is most
21 appropriately placed at the end of the waterfall.
22 However, it could be used higher in the waterfall.

1 And the thinking would be that you want to keep
2 some of your resources available so when you get
3 to the auction or the partial tear up that you
4 have resources to pay for those positions. That's
5 something that's not really thought of often is
6 that when the clearinghouse has an auction or goes
7 to tear up it needs to provide fair and reasonable
8 commercial value for those positions.

9 MS. WALTERS: I think the point that I
10 would make again is around -- so last resort in
11 the context of a resolution. I think we've seen
12 during the financial crisis and after the
13 financial crisis that the regulators have put into
14 place resolution procedures that actually work and
15 prevent systemic risk. And there are regulatory
16 rules in place around regulatory drive stress
17 testing, full transparency around risk management
18 practices, and a regulatory process for resolution
19 and orderly wind-down. So I think rather than
20 thinking of recovery and the use of variation
21 margin gains haircutting as kind of the avenue,
22 it's also very important to think about the fact

1 that CCPs by their nature should be under the same
2 umbrella as banks and they can be allowed to fail.
3 And that potentially that's actually the right
4 avenue to be thinking about instead of the thought
5 of touching customer margin.

6 MR. WASSERMAN: So just some issues onto
7 the rules. Essentially a CCP's recovery plan
8 needs to -- and it's recovery and orderly
9 wind-down needs to be complete within itself.

10 MS. WALTERS: Yeah, understood.

11 MR. WASSERMAN: It is not permissible to
12 expect a resolution activity such as we have in
13 the United States under Title II of Dodd-Frank.
14 You can't have that in your plan. If in this case
15 the requisite agency, the so-called key turners
16 were to decide to invoke resolution they may do
17 so. And one reason may be because the plan is
18 either seen as likely to fail or is likely to
19 create some systemic risks that are unacceptable.
20 But from the perspective of what has to be in the
21 CCP's rulebook and arrangements, essentially
22 either you have recovery or you have essentially

1 an orderly wind-down in service termination. You
2 can't invoke resolution.

3 MS. WALTERS: Completely understood. My
4 point is more that at the point at which the
5 default fund is completely gone then recovery is
6 no longer an option, so the thought would be that
7 actually wind-down might in fact occur. And a
8 point is that we would prefer from a fiduciary
9 perspective to protect client assets, not to use
10 variation margin gains haircutting as a way to
11 continue a recovery using client funds rather than
12 recognizing that recovery is no longer feasible
13 and then move to the path of wind-down.

14 MR. WASSERMAN: Fair enough. Sunil?

15 MR. CUTINHO: First is I think we may
16 part ways with some of our fellow CCPs. Variation
17 gains haircutting or any variation haircutting is
18 absolutely the last; cannot occur anywhere below
19 that. We have to exhaust the assessments, we have
20 to exhaust the funded portion; cannot occur
21 anywhere before. Because it is -- you're passing
22 losses to a broad set of market participants, you

1 know, and so it's not attractive. It's not the
2 best outcome.

3 In terms of money good versus position
4 good we agree money good is better than position
5 good within the context of, you know, allocations
6 versus tear ups which we are going to talk about.
7 I mean that's the point in time where we are
8 saying well one way to resolve an open book or an
9 unmatched book is to give somebody positions. And
10 another way is just close out the market and give
11 everybody certainty, cap their risk, and give them
12 back their assets. I think under those
13 circumstances money good is better than position
14 good because you are not -- you don't want to give
15 people risk. But I think we are talking a few
16 steps before. And this is a continuum, these are
17 not absolute, these are a set of tools, so
18 variation gains haircutting is basically -- occurs
19 slightly before tear ups. It is something that is
20 put in place so that it gives some more time
21 before we take the ultimate action of tearing up
22 and closing the book.

1 MR. WASSERMAN: Before I recognize
2 Oliver I just want to begin trying to get people
3 focused here on this issue of limits because
4 theoretically, right, you can do variation margin
5 gains haircutting an unlimited number of times and
6 you will eventually -- it's come to a balanced
7 book as positions expire, theoretically. I think
8 it's probably fair to say most folks would say
9 doing that an unlimited number of times would not
10 be acceptable. Okay. I've heard someone say
11 great, it should be a limited number of times, and
12 what I'd like to hear from folks is, okay, how
13 would one set those limits, is this a governance
14 issue, is this a rules issue? What are the limits
15 to the number of times you could apply this?
16 Oliver?

17 MR. FRANKEL: I think it's a governance
18 issue, and I think it's an incentives issue.
19 We've talked about gains haircutting as a loss
20 allocation solely, but as Raj mentioned gains
21 haircutting, any loss allocation done through
22 gains haircutting is meant to be accompanied by a

1 similar faced amount of debt from the CCP, backed
2 the recovery of its claim on the default as a
3 state and some share on its future revenues. The
4 latter being effective we believe in mitigating
5 the moral hazard that the CCP would continue to
6 gains haircut forever. So at some point the CCP
7 would think well rather than keep subjugating my
8 revenues stream I should tear up contracts. The
9 alternative to gains haircutting is to tear up
10 contracts and the decision around it needs to have
11 some governance and needs to have the right
12 incentives both. What the right governance is I'm
13 not sure we want to discuss right now, but I would
14 imagine the risk committee would be the best of
15 all place to do that.

16 MR. WASSERMAN: You raise an issue that
17 was raised before which is sort of okay, what is
18 the compensation for the gains haircutting. And
19 one of the things I've heard mentioned is well, an
20 interest in the recovery. What I guess I would
21 consider sort of like reversing the waterfall.

22 MR. FRANKEL: Yes.

1 MR. WASSERMAN: That has recoveries
2 eventually coming from the defaulter, right, and
3 they will in the fullness of time however much
4 they are that those should essentially be used to
5 reverse the waterfall. Is there anyone who
6 disagrees that the gains should be reserved for
7 that purpose, you know, that after whatever
8 expenses there are of collection, that those
9 should go back to whoever lost them?

10 MR. MCCLEAR: Yes. It has to operate
11 that way.

12 MR. WASSERMAN: Okay.

13 MR. MCCLEAR: And can I make just one
14 point of clarification? Because with respect to
15 using variation margin gains haircutting earlier
16 in the waterfall, and this ties into your point,
17 that would be done to facilitate a recovery, to
18 buy time, and to help pay for the auction. To the
19 extent you've got to the end, you've had a
20 successful auction or a tear up and there were
21 remaining funds, you would use those remaining
22 funds to reimburse the people that you variation

1 margin gains haircutted. So all of that is out
2 anyway. It's just a tool to buy more time to
3 facilitate recovery.

4 And to your point to the extent that you
5 do recover from a CCP perspective from the
6 defaulting clearing participant, of course you
7 have the reverse waterfall and it goes in the
8 first instance to pay the people that were
9 variation margin gains haircutted.

10 MR. WASSERMAN: So there seems to be
11 agreement on that point. And there was a second
12 point that was raised which is well, what about
13 the future revenues of the CCP. And so here's the
14 problem I'm seeing and, Kevin, I think you sort of
15 raised it, one of the requirements here under our
16 rules, under the PFMIs, is you need to have a
17 viable plan for the replenishment of your
18 resources, right. By assumption you've gone
19 through the resources you already have, you've
20 gone through your prefunded, you've gone through
21 assessments. If we say that no, we can't reserve
22 any of that before we do variation margin gains

1 haircutting how are we going to replenish that?
2 And it seems to me from work in other insolvency
3 areas one thing is equity in the entity. In other
4 words whoever provides -- someone is going to have
5 to provide new value. It's going to have to be
6 voluntary because we've run through all of the
7 commitments that are there. So it seems to be you
8 either have to reserve something from your
9 authority or you need some way to induce people to
10 put more money in. And if you give away all of
11 the future revenues already to those who are
12 getting haircut, where is the source of an
13 incentive for someone to put in new value?

14 MR. WHITEHURST: You see, I think we are
15 meaning that into cure rather than prevention. So
16 if we go back to sort of the prevention and to
17 Phyllis's question earlier, we're not advocates of
18 margin gains haircutting high up, but I think it
19 is an interesting thing that you could consider.
20 What would it do? And I think to Oliver's point
21 it's about incentives. If you put variation
22 margin gains haircutting further up then you'd be

1 giving people affected by potential variation
2 margin gains haircutting the incentive to act
3 sooner to exit their position. And I think the
4 perspective -- you know, we can look at this
5 through -- is that on the one hand as a CCP in a
6 situation you've got a problem which is mounting
7 losses, you've got a runaway market and you've got
8 mounting losses. Now the other problem if you
9 like is that in fact it's about having to continue
10 to pay out profits. So you're giving incentives
11 to those people who have the profit making
12 position, but they at some point will potentially
13 be haircut and therefore, you know, you can have
14 the public sector versus private sector
15 conversation about what CCP should be, but as a
16 private sector organization CCP wants to get
17 hedges and the market is running away, and the
18 people with the potential hedges are continuing to
19 hold their positions. You have variation margin
20 gains haircutting as a very powerful way of giving
21 those profit makers an incentive to exit the
22 market. And to the extent that there are other

1 CCPs that they can move their position to, and
2 that's a possibility to the extent they're able to
3 go bilateral with those positions, but that puts
4 the profit maker in a situation where they remain
5 money good. They have to exit their position at
6 the problem CCP, and they can reestablish it
7 through other methods, other instruments.

8 So I think the incentive side of this
9 has to be really strongly considered.

10 MR. WASSERMAN: Kevin?

11 MR. MCCLEAR: No, I agree. And going
12 back to your question about the timing and the
13 length of variation margin gains haircutting I
14 think it's very difficult to define an advance
15 because we don't know what the situation is going
16 to be. We don't know the nature and extent of the
17 shortfall. So I think what we've agreed, and it's
18 appropriate, it comes down to governance. And I
19 think -- well, I know what we plan to do and it
20 relates to what Oliver referenced -- we have in
21 the event of a default, we second to default
22 management committee made up of member firms.

1 We'll consult with them, we'll consult with our
2 risk committee. We have an established risk
3 committee obviously at each of our clearinghouses.
4 We'll communicate with the regulators. And
5 ultimately we'll go to our board and we'll do this
6 on a day by day basis as the market situation
7 evolves.

8 MR. WASSERMAN: Sunil?

9 MR. CUTINHO: Yeah. So in terms of
10 limits I think since it affects end clients it's
11 important in the rules ex ante to have the number
12 of variation margin gains haircutting hardwired.
13 It doesn't mean that that's where it will stop,
14 but if it were to exceed those levels then it's
15 important to have governance in place. I think
16 governance is important. More CCPs as we talked
17 about have good governance, a diverse set of
18 participants. The most important thing about
19 governance is there is an obligation to the
20 market, there's an obligation to recovery in the
21 market. I think history shows that it's very
22 important that you cannot set up governance at,

1 you know, in those times; it has to be preset
2 governance. The importance of the governance is
3 the best interests for the market rather than
4 their own personal self interest. So governance
5 and independence and some level of certainty. Of
6 course I agree that, you know, what set of tools
7 will be used, you know, you can't clearly
8 pre-enumerate all the tools that will be used, but
9 it's important to give some level of certainty
10 that there will be X number of cycles. We believe
11 two variation gains haircutting cycles in the
12 rules, and then if one were to exceed that because
13 there is capital coming in and it's only a
14 question of timing, then the governance sets in
15 and says let's not tear up the contracts because
16 the next step is tearing up. So you can keep the
17 institution going.

18 MR. WASSERMAN: So let me press on that
19 point because I think I heard Kevin say that the
20 governance he was looking at would be a
21 consultation with the risk committee. And so I'm
22 going to look over at folks on this side and say

1 is consultation enough or are you looking for
2 something that may be a bit more focused?

3 MR. FRANKEL: Assuming the risk
4 committee has proper representation from all the
5 stakeholders, I think the risk committee is
6 actually the best form of governance, not just the
7 consultation. I think there's a concern the -- I
8 remember we've heard it from a number of
9 stakeholders that just continuing the service
10 regardless of what losses might accumulate may not
11 be the best strategy and that some form of partial
12 tear up of certain problem contracts might be the
13 way to go forward should the default management
14 fail.

15 You know, the governance is going to be
16 looking I would imagine at how effective the
17 default management process is and where it's
18 stumbling, and making a judgment on whether the
19 contracts that would be torn up to solve the
20 problem would be problematic to the industry as a
21 whole. I think there are complex decisions that
22 need to be made there. I'm not sure the CCP is

1 best placed itself to make those decisions alone.

2 MR. WASSERMAN: Kristen?

3 MS. WALTERS: I would just say from a
4 governance perspective that I think about these
5 variation margin haircutting as kind of a wartime
6 measure and it's always difficult to do things
7 during war. And we've talked about how obviously
8 if CCP members are defaulting, people are
9 potentially exiting positions, it's very, very
10 difficult to come in and try to use that technique
11 during wartime. So I think we would prefer a
12 peacetime approach where the risk committee and
13 governance structure of the CCP make sure that the
14 loss absorbing capabilities are completely, fully
15 funded and of a reasonable size and stress tested,
16 calibrated to stress conditions, so that the issue
17 of getting a last resort of variation margin gains
18 haircutting never actually arises, except again
19 when you get to the point where if all measures
20 don't work and you have to liquidate, then you
21 might have to use it minimally at the point of
22 default. But I do think that when you think about

1 how to intervene and ensure stability in the
2 markets, all the governance and risk approaches
3 that we use, we want to do them in peacetime up
4 front.

5 MR. WASSERMAN: No, that's fair. And
6 again I think as the Chairman mentioned, as others
7 have mentioned, we've been working very hard on
8 that. We are continuing to work on that in terms
9 of things like stress testing, and I imagine a
10 number of things are going to be looked at over
11 the course of coming months and years. It's just
12 that it is incumbent upon us to say yes we're
13 going to work very hard on those things, but what
14 if they don't work. What we are called upon to do
15 is to deal with any possible situation. We
16 certainly want to make sure that they are highly
17 unlikely, but they are possible and therefore
18 we're called upon to deal with that.

19 MR. WHITEHURST: Could I ask a question?
20 I think a couple of us have mentioned that fully
21 funded, I wonder if we could just discuss what
22 that means.

1 MR. WASSERMAN: Tracey?

2 MS. JORDAL: Sorry. I was going to say
3 something else not address that question, but
4 before anyone answers your question I think with
5 respect to all the other points that were made
6 prior to that I think, you know, your questions
7 about what -- if you give away future revenues
8 what incentivizes people to put more in and all of
9 that. I think it's all about putting confidence
10 back into the system and back into the
11 clearinghouse itself. So having transparency
12 where as an end user you can see how many times
13 will variation margin gains -- where I could read
14 the rules, although they might be massive and
15 huge, I at least know what I'm getting into. So
16 if it's just a -- there may be a recovery tool and
17 it might be variation margin gains haircutting,
18 but we don't know how many times, it will scare
19 end users. There will be concerns and then they
20 might not go back in if they see, okay, well I was
21 cut once, I was cut twice, I was cut three times.
22 Maybe next time it's, you know, what's the point

1 really. So I think there needs to be transparency
2 in the rules, very clear what the process is. And
3 as far as governance, governance is important. I
4 think proper representation is important as well
5 where you have all key participants being able to
6 participate in the process somehow.

7 MR. WASSERMAN: Tom?

8 MR. KADLEC: I would say that in answer
9 to, Kevin, moving up the variations, it's
10 completely unrealistic to me for our customer base
11 to think that they would want to participate.
12 They're going to be running for the hills and
13 disaster. They will be liquidating. We've seen
14 this happen in 2008 and 2009. So I would agree
15 with Sunil, it has to be the last of -- the best
16 option of terrible options.

17 In terms of governance, I'm a member of
18 the CME Clearinghouse Risk Committee and this is
19 fully discussed. You should push us to discuss it
20 more, but I think in a crisis the CME Risk
21 Committee and other CCP risk committees are going
22 to need proper oversight and perhaps hands on

1 oversight. So part of this to me is what will be
2 the collaborative industry. I mean you talk about
3 participants, well who are they? This discovery
4 process should really get granular, and who are
5 those people that will help these markets recover?
6 And that pertains to the confidence issue, it
7 pertains to aligning interests, which in a crisis
8 tend to splinter. And I'll leave it at that.

9 MR. WASSERMAN: Just one question. Tom,
10 when you say that oversight with respect to the
11 Risk Committee, do you mean the Risk Committee
12 will need to provide the oversight or someone will
13 need to oversee the Risk Committee?

14 MR. KADLEC: They need to be engaged and
15 a participant at the table in discussions and in
16 decisions be an active participant to lead and to
17 help direct the recovery process or dealing in a
18 wartime crisis as an example. Decisions are made,
19 decisions are not made in a textbook, they are
20 made -- frontline decisions are made right on the
21 frontlines. There is no playbook for them. So
22 the ability to get all participants in a room and

1 say what is the best for the industry and for the
2 end customer is critically important in my mind.

3 MR. WASSERMAN: So I thought I heard
4 Oliver saying, and you'll correct if I'm mistaken,
5 that essentially the Risk Committee would need to
6 be more than collaborative, but actually would
7 need to have some kind of veto authority over
8 things. Is that what you're saying or especially
9 as someone who is on that Committee what you think
10 about that.

11 MR. KADLEC: Details, I probably -- too
12 early to talk about details, but sure. I mean if
13 the final decision is with the Risk Committee then
14 they need to have what the CME Board or -- Sorry,
15 Sunil, I keep picking on you -- they would be --
16 I'm more talking really about regulators. I'm
17 more talking about the engagement in the
18 oversight, the proper oversight to be a fair
19 arbitrator, to align industry interests so we
20 don't have the splintering of the various people
21 around the room that will represent the end
22 customer versus clearing entities.

1 MR. WASSERMAN: So I'm going to turn
2 over to Phillip in just a second, but I would note
3 that there are a limited number of things that a
4 regulator can do. One of them however is that
5 almost by assumption here a DCO that is in this
6 position will have less than the required amount
7 of financial resources at that point in time and
8 thus would be subject to basically being shut down
9 for that reason. I would imagine, and I would
10 remind folks by the way of what I said earlier
11 about my views not necessarily being those of the
12 staff of the Commission, but there might well be
13 some folks coming into the Commission and urging
14 certain actions. So there is some involvement by
15 the regulator.

16 Phillip?

17 MR. WHITEHURST: Thank you, Bob. The
18 point I wanted to make has been mentioned a couple
19 of times, as if variation margin gains haircutting
20 is exclusively a buy side or an end user issues,
21 we take very seriously protecting end
22 participants. We've built a number of segregation

1 models, we work hard on the portability that
2 allows clients to move from a defaulting member
3 and also we're not an advocate of IM haircutting.
4 We think that's something that's very important.
5 But I think the context again here is VM gains
6 haircutting is a long way down the waterfall.
7 There has been significant pain experienced by a
8 number of people prior to this and specifically
9 the members. So we've seen exhaustion over
10 default from probably exhaustion over assessments.
11 So a lot of people have experienced a lot of pain.
12 And even in the VM gain haircutting phase it's not
13 as though it's targeting anyone in particular.
14 It's targeting gainers, but those gains are just
15 as likely to be members as it is end user. So I
16 mean that's our experience. Some of the biggest
17 positions that we hold are from dealers as well as
18 from end users. So I think it's important not to
19 regard VM gain haircutting as in some way the
20 exclusive jurisdiction of end users.

21 MR. WASSERMAN: I was going to recognize
22 Joe and then Sunil.

1 MR. KAMNIK: Thanks, Bob. Phyllis,
2 going back to your original question about the
3 placement of gains haircutting within the
4 waterfall, I conceptualize it as two distinct
5 buckets. You've got your waterfall of prefunded
6 resources, once that's exhausted you return to
7 your recovery tools of which gains hair cutting
8 should be the first layer. So I think that the
9 way Kevin was discussing it though was perhaps as
10 a liquidity tool. So if you're talking about it
11 as a loss allocation tool, you've depleted your
12 prefunded resources, you turn to that. It doesn't
13 appear to me as if there's a way to put it in a
14 higher place within the waterfall structure
15 because it's not appropriately within the
16 waterfall structure. But if you've exhausted your
17 prefunded resources and you've turned to you
18 recovery tools, and let's say you've made an
19 assessment but the assessment hasn't come in like
20 we saw with the Korean exchange in December 2013,
21 you may have to go to gains haircutting either as
22 a liquidity measure or as a loss allocation tool.

1 MR. MCCLEAR: Right. The way I think of
2 it, what Joe just articulated begs the question
3 whether assessment rates are part of the default
4 resources or are they part of the recovery. And
5 again, you know, ICE believes that variation
6 margin gains haircutting should come at the end of
7 the waterfalls. It's a tool of last resort. But
8 in answering Phyllis's question, there are ways to
9 apply it earlier. You would always go through the
10 prefunded resources, but maybe you don't have your
11 assessment rights yet, maybe you need some time,
12 or you haven't collected. But the ugly truth
13 here, and it's a running theme throughout this
14 discussion, and the question has been asked a
15 number of times, is what happens if you don't do
16 variation margin gains haircutting? And the ugly
17 truth is all of the clearinghouse rules are
18 established such that if you don't pay you're in
19 default, and if you're in default you wind-down,
20 and if you wind-down that means you tear up all
21 the contracts and you're done clearing.

22 MR. WASSERMAN: I recognize Phyllis and

1 then I promise Sunil.

2 MS. DIETZ: I think going to Joe's
3 comment when I asked the question about whether or
4 not the haircutting had to be the very last
5 measure that the gasping clearinghouse uses, it
6 really was going to the idea of not labeling it as
7 part of your default waterfall or recovery, but
8 just does it give some breathing room, does it
9 provide liquidity, is it terrible for reputation.
10 And if it would have, as I think was mentioned,
11 short-term benefits, long-term it might be bad.
12 So that was really my thinking just -- there was
13 an assumption as to where it came in the process
14 and I just wanted to make sure we fully vetted
15 that.

16 And I also just wanted to speak to Tom's
17 comment about the role of the regulator. I think
18 Bob is a much more gentle person than I am and
19 definitely the regulator would be involved. And
20 as Bob mentioned, you know, we have reporting
21 requirements as everyone here, certainly with the
22 clearinghouses know, we have quarterly financial

1 resource reports, we require incident reports. So
2 I think as a distress situation unfolds we would
3 be part of the collaborative team for sure. So I
4 think that is important to stress, that we would
5 be part of the decision making and discussion.

6 MR. WASSERMAN: Sunil?

7 MR. CUTINHO: Thank you, Phyllis. One
8 of the things I wanted to point out is the
9 regulator is informed, but Part 39.19 is about
10 informing the regulator.

11 So just a few things I wanted to
12 address. One is that I think there was a
13 discussion about incentives. For an institution
14 whose entire franchise is based on clearing the
15 incentives are perfectly aligned to rescue
16 clearing. I can't put it any other way. And you
17 can see through the actions of the institution
18 under different circumstances.

19 The second thing that I wanted to point
20 out is, you know, we confuse capital to liquidity
21 so I wanted to make sure that they are two
22 distinct things. Liquidity is a separate issue.

1 Here we're talking about a shortfall and
2 allocating those. That's we believe that
3 variation margin gains haircutting is absolutely
4 the last. I agree with Tracey and also Phil, at
5 the market participant level there cannot be any
6 discrimination. It offers certainty as we
7 mentioned before, if you redefine how many cycles
8 in the rules, but then the governance is all
9 about, you know, if there are situations where,
10 you know, more capital will come in and you don't
11 want to really stop the clearing at that point and
12 go to tear up, so that's why governance is very
13 important. And risk committees play a very
14 important role in that governance. They are there
15 during peacetime as well as during wartime. And
16 they need to be diverse representation of
17 stakeholders.

18 MR. WASSERMAN: And with that I think
19 that would have to be the last word for this
20 panel. I do want to make sure I give folks an
21 adequate break. And in 15 minutes, at 11 o'clock
22 very promptly we will be talking about

1 reestablishing matched books.

2 (Recess)

3 MR. WASSERMAN: Okay, we will start with
4 a couple of administrative things. First, if I
5 could ask and I should have followed this before,
6 folks who want to speak to please turn up their
7 cards and we'll help in a more organized
8 arrangement.

9 Second, I think we have some folks who
10 have joined us who have not had a chance to
11 introduce themselves. Marcus, I think?

12 MR. STANLEY: Yes, I'm Marcus Stanley
13 from Americans for Financial Reform. We're a
14 coalition of public interest groups working for
15 stronger and more effective financial regulation.

16 MR. WASSERMAN: And Bis?

17 MR. CHATTERJEE: Hi, I'm Bis Chatterjee.
18 I'm from Citigroup representing ISDA for this
19 session.

20 MR. WASSERMAN: Thank you. So our
21 second session is on reestablishing a matched
22 book. And as was somewhat alluded to in the last

1 panel, following a participant default, it's
2 essential that the DCO promptly liquidate the
3 positions of the defaulter in order to reestablish
4 a matched book.

5 The preferred tool to do this is a
6 voluntary auction accomplished within the DCOs
7 prefunded default resources. And again, giving
8 context, it's important to recognize that
9 historically such auctions have been invariably
10 successful and in fact, DCOs have been able to
11 complete them while applying only the defaulter's
12 resources. That is to say, the defaulter's
13 initial margin and guaranty fund contribution.
14 I'm reminded of the Lucas report in the Lehman
15 situation where the question was, well, gosh. Why
16 didn't you return more of the margin?

17 So we've generally been very successful
18 there. But despite this positive historical
19 record, the commission regulations and the PFMIs
20 require CCPs to develop a viable plan to
21 reestablish a matched book in the event that the
22 voluntary auction process is insufficient. The

1 primary tools that are available to accomplish
2 this task are three.

3 Forced allocation, a DCO may have rules
4 establishing a power to allocate positions that
5 have not been liquidated voluntarily to
6 non-defaulting participants. Perhaps limited to
7 those participants who are active in the markets
8 for those products as a price determined in
9 accordance with those rules. Partial tear up
10 which is arguably a bit of a flipside of that
11 terminates a portion of positions, either those
12 opposite the unliquidated positions of the
13 defaulter or possibly a risk-related, a set of
14 risk-related positions possibly even an entire
15 product class in a manner that is, again, set
16 forth ex ante in the DCO's rules.

17 Complete tear up terminates all
18 positions, matched or unmatched. And then, the
19 value of those positions is marked to market and
20 any remaining default resources are used to
21 compensate pro rata those with claims based on
22 those positions in a manner again set out ex ante

1 in the DCO's rules. These tools are much less
2 desirable than voluntary methods and each of them
3 carries drawbacks and risks and they can create
4 disparate impacts on different types of market
5 participants.

6 The potential for conflicting interest
7 among stakeholders complicates the DCO's
8 preparation of a plan to reestablish a matched
9 book using any of these tools.

10 I'd like to start first with perhaps a
11 more positive aspect and then, we'll get to the
12 more interesting scenarios which is how could
13 auctions be enhanced to promote a successful
14 outcome? For instance, could participation in the
15 auction be broadened? Is there a way that DCOs
16 can incentivize auction participation? So I'll
17 open it up at this point.

18 Sunil?

19 MR. CUTINHO: Thank you. We can speak
20 to our experience. We've had very successful
21 default management auctions throughout our history
22 and one of the things we learned from this

1 experience is two things. One is when we have
2 well-established and mature markets and, you know,
3 it's important not to restrict, structurally
4 restrict certain market participants from
5 participating in auctions because at that point in
6 time, you want the risk -- you want those
7 positions to be auctioned off and you want the
8 risk to be cleared.

9 So our experience dictates that we've
10 had successful participation from buy side as well
11 as sell side and we've had -- and that has
12 dictated the success. In constructing hedging and
13 auction mechanisms for over-the-counter products,
14 we've gone one step ahead. Those markets, you
15 know, we still don't have this public transparent
16 market there. Of course, they are just the
17 beginning.

18 In those markets we have an obligation
19 from the clearing member firms to participate in
20 the auctions. Those obligations come with some
21 penalties as well and there's a lot we can do with
22 the guaranty fund and incentives. So

1 participation in the auction dictates, and the
2 nature of participation dictates, how the member
3 firms fund would be utilized and when losses
4 accrue.

5 So I think as you pointed out,
6 incentives are very important. And this is what
7 helps us understand why recovery, recovery from
8 failures is actually what CCPs are about and
9 they've been successful tryout because of these
10 incentive effects.

11 MR. WASSERMAN: Kevin?

12 MR. MCCLEAR: Yeah. So at ICE we also
13 support broadened participation. So the customers
14 can participate in two means. One they can go
15 through their clearing participant and the
16 clearing participant effectively bids on behalf of
17 the customer and the customer origin.

18 We also support direct participation.
19 And we're honestly thinking through what the terms
20 and conditions of direct participation by the buy
21 side would be. What agreements they'd have to
22 sign, what terms and conditions they'd have to

1 comply with. One of the things we're struggling
2 with is we're also proposing to incent
3 participation from our clearing members in the
4 auction by having a mandatory auction.

5 And similar to what Sunil said, if they
6 bid poorly or fail to bid, then their guaranty
7 fund contributions would be juniorized. They'd
8 come first. And I should mention, too, that the
9 clearing members are generally incented to bid in
10 the auction because they want to protect their
11 guaranty fund contributions and their assessment
12 rights.

13 The last thing they want to see is a
14 fire sale and have to pay more of their guaranty
15 fund contribution and assessment rights out to the
16 benefitting party.

17 MR. WASSERMAN: Raj?

18 MS. RAMANATH: Yeah, I think in terms of
19 what Kevin said and what Sunil said, the current
20 structures at the CCP -- the CCPs, I think, do a
21 very good job of incentivizing members to
22 participate in the auction by seniorizing or

1 juniorizing the default fund. Is this better?
2 Yeah, so in terms of seniorizing and juniorizing
3 the default fund contributions of members, I think
4 the current structures do a fair job of
5 incentivizing the members to participate.

6 To the question on broadening the
7 auction to a wider audience, I firmly feel that it
8 can be done because there could be -- induces
9 participants who have the opposite risk, who can
10 provide the right kind of trades to the CCP. The
11 challenge we see in that is in terms of
12 incentivizing the inducers or the participants to
13 actively participate in the auction.

14 The concern we have is that they might
15 look at the auction portfolio with the intention
16 of front-running which is basically look at the
17 portfolio to figure out the kind of trades there
18 are with the intention not of participating in the
19 auction itself but to provides hedges to whoever
20 is the ultimate auction winner. And therefore,
21 there's some additional work that probably needs
22 to be done in terms of making sure that our right

1 incentives aligned to the extent that clients and
2 participants are -- clients are allowed to
3 participate in auctions.

4 MR. WASSERMAN: How is that problem
5 addressed? I mean, presumably members already
6 participate in the auction. They can bid better
7 or worse. The concern about front-running, how is
8 that addressed for members?

9 MS. RAMANATH: I think in terms of
10 members because there is a seniorization or
11 juniorization of the guaranty fund. If you look
12 at the portfolio, you do not participate in the
13 auction. Or you submit a bad bid; the amount of
14 guaranty fund that you've contributed is
15 potentially at risk.

16 If you are the winner, there's a chance
17 that your guaranty fund gets used first is going
18 to be close to zero. Whereas if you submitted a
19 bad bid, which is essentially what you would try
20 to do if you were trying to front-run, then you're
21 guaranty fund gets used up first. And knowing
22 that a substantial amount of your capital is at

1 risk would prevent members from front-running.

2 MR. WASSERMAN: So what I'm hearing you
3 say is that the prevention of front-running comes
4 from the sort of juniorization point that we were
5 talking about. And so, is there some other way to
6 expand participation to non-members, to end users,
7 buy side, whatever? Is there some kind of rules
8 or some kind of other arrangement that would
9 address the concern?

10 MS. RAMANATH: One way I could think of
11 is to have selective part -- so the extent of the
12 CCP is aware that there are end users who have the
13 kind of risk which would offset the risk that they
14 are trying to liquidate, it could be a selective
15 invitation to participate in the auction. But in
16 that instance, they would probably have to make
17 sure that the clients know that there would be
18 certain amounts that they would risk if they do
19 not -- if they fail to participate in the auction.

20 MR. WASSERMAN: Joe?

21 MR. KAMNIK: Thanks, Bob. So I agree
22 with the points made earlier about incentive

1 alignment currently existing with respect to
2 clearing members. You know, you can construct the
3 terms of the auctions such that there is a natural
4 incentive with a second price auction to bid to
5 fair value. Juniorizing also creates an incentive
6 but I think it's important to think about the
7 entire set of recovery tools that we're putting
8 forward and when we think the incentives that
9 we're providing within an auction.

10 For example, if partial tear up is the
11 next step after a failed auction, then as I can
12 see the problematic positions within the
13 portfolio, I may not be incentivized to bid a fair
14 price anymore if I know that I won't be subject to
15 a partial tear up. If complete tear up, however,
16 is the last step for all of its worth, at least in
17 this case, it probably incentivizes participation
18 to a greater extent than partial tear up does.

19 MR. WASSERMAN: Bis?

20 MR. CHATTERJEE: Yes, I think some of
21 the points being made are very valid in the sense
22 that if we have to get to a better auction, a

1 better quality auction, the two possible options
2 are you get more people to participate. You get
3 more people to participate than just the clearing
4 members and then, you figure out a mechanism where
5 whoever is participating in the auction is
6 incentivized to provide better levels.

7 So, I think, some of the points made
8 earlier were what if someone who has to
9 participate is giving you throw-away levels? So
10 I'd like to start by addressing the first part
11 which, I think, Raj started by saying what if --
12 we know that most clearinghouse rules force the
13 clearing members to participate in the auction and
14 if they don't participate their guaranty funds and
15 their assessments rights are already at risk.

16 So that kind of gives them some kind of
17 an incentive to participate. If you open up the
18 auction to indirect members and you want to make
19 sure that they don't get a free look or they're
20 not front-running or, you know, they look at the
21 portfolio saying, wow, I really know what's going
22 to be defaulted. Potentially my variation margin

1 gains could be at risk. Just because I saw the
2 portfolio, let me start unwinding the portfolio.

3 I think you can prevent all that kind of
4 behavior by asking indirect members to also
5 provide some kind of minimum skin in the game. So
6 it would be like you have the clearinghouse rules
7 say that we welcome indirect participants or
8 non-clearing member participants provided that if
9 you want a direct look at the auction portfolio,
10 you have to provide a minimum amount of resources
11 or skin in the game. And subsequently, if they
12 walk away and do not bid in the auction, that skin
13 in the game is part of the waterfall of resources
14 like any other clearing members' resources would
15 be.

16 So I think you could create some kind of
17 structures where essentially you're saying you
18 have to put a minimum amount of resources to be
19 eligible to see the portfolio and bid for the
20 portfolio.

21 MR. WASSERMAN: Okay, Kristen, Sunil,
22 then Oliver.

1 MS. WALTERS: Thank you. I actually for
2 the first time realized that to speak I'm supposed
3 to do this. I was like using the hand raise
4 before. So apologies for that.

5 So I think that when we think about an
6 auction, it would be in the context of immediately
7 after a default where the CCP no longer has the
8 financial resources to sustain itself. Which, in
9 case, that would lead to us to resolution and we
10 would want to -- that's the point where the CCP
11 would be closest to risk neutral, where the
12 defaulted positions. We'd want everything to be
13 matched off and then, the auction to be held
14 around the defaulted positions.

15 And our view is that in that specific
16 context, we think it would be beneficial to expand
17 the auction beyond clearing members. We think
18 it's better for price transparency as well as just
19 diversity in the auction process.

20 MR. WASSERMAN: Let me press on that.
21 Are you suggesting different auction processes?
22 One for the first auction where you're just try --

1 you know, the one that's always worked so far
2 where you would just have members but then, if
3 that doesn't work, a second expanded auction?

4 MS. WALTERS: No, I'm just -- I was
5 trying to be very specific to when we feel there
6 would be expanded participation. So it's
7 essentially in a resolution scenario where you've
8 matched off all the positions and you've isolated
9 the defaulted positions and there's an auction
10 that's facilitated as part of resolution. And in
11 that case, we think that it would make sense to
12 expand the auction participants.

13 MR. WASSERMAN: Okay. Sunil?

14 MR. CUTINHO: Well, I think when we are
15 speaking to auctions, our default management at
16 this point in time; we are not even close to
17 resolution. We are still -- it's a part of what a
18 CCP does normally when a member fails.

19 So when talking about incentives, a few
20 things that I wanted to respond to. One is even
21 in a situation where only clearing members are
22 participating and their funds are at risk, of

1 course, there are incentives for them to bid well.
2 But there's always one winner or probably a few
3 winners. But there are others who have bid on the
4 portfolio but they have not won the portfolio.
5 They've seen the portfolio.

6 So your question is still relevant,
7 right? So your question was well, there are in a
8 structure where only clearing members participate,
9 you know, there are clearing members who have seen
10 the portfolio but who have not won the auction.
11 How would we police their actions, right?

12 Would they go in and front-run? So this
13 is why I think the problem is the same even if
14 clients participate or clearing members
15 participate. The question of having clients put
16 some money is -- I mean, I think it is designed as
17 an incentive for clients to participate not
18 solving the problem of them front-running.

19 As far as solving the problem of
20 front-running, you know, these are regulated
21 markets we're talking about. And these are ex
22 ante relationships. We are not going to go and,

1 of course, there are times when clients would come
2 to participate in a default. They are subjecting
3 themselves to oversight.

4 We need to -- they are subjecting their
5 activity to be reviewed before and after the
6 auction was successful. So in our experience, I
7 think, yes, there is a chance where somebody sees
8 a portfolio, can front-run the portfolio but I
9 think the consequences of that are very serious,
10 whether it's a clearing member or a client. And I
11 don't see the skin in the game from clients being
12 and a way to prevent that.

13 Skin in the game for clients, having
14 clients put money into the waterfall just if they
15 have to participate in the auction; I think we are
16 immediately restricting the universe there because
17 client charters prevent them from participating in
18 mutualized risk. So I think that's essentially
19 the point we were making.

20 You cannot structurally limit people
21 from participating. Of course, you could have
22 several cycles of auctions. You could have an

1 auction where some members participate and then,
2 you could broaden the participation but even
3 there, you're exposing yourself to a risk where
4 more people get to see the portfolio.

5 So I think the solution is oversight of
6 the entity's activity at and after the auction is
7 a way to address that.

8 MR. WASSERMAN: Oliver and then, Phil.

9 MR. FRANKEL: I think this is actually a
10 really complex subject because it deals with
11 market structure. I think it's a complex subject
12 because it deals with market structure which, you
13 know, varies from market to market and so it's
14 hard to really find general principles.

15 I would say though, I would point out
16 that when members are committed to providing
17 liquidity for defaults, once they see the
18 portfolio, they actually try and find the
19 necessary risk from around their own client basis.
20 It's kind of critical.

21 Without that, it's not possible to offer
22 good prices. So it's kind of confusing if the

1 clients are also going to participate. I think
2 but it's okay. What needs to be certain is some
3 sort of clarity as to who's going to participate
4 in the auction so that this thing is not -- it
5 doesn't create a confusion about you were going to
6 rely on a price. It's not there and so,
7 everything falls down and creates trouble.

8 So clarity on whose going to participate
9 and also, members who engage in default drill
10 exercise, default drills, fire drills every six
11 months, if another participant end user wishes to
12 be involved in default management potentially, I
13 think it would make good sense that they would
14 participate in those drills. And so, that they
15 know that -- so that there's a confidence by the
16 CCP that when they're asked to bid on a portfolio,
17 they can do so in the appropriate time that they
18 won't get the positions backwards. That they
19 build the infrastructure to understand what's
20 going on and have an appropriate compliance set up
21 so that there isn't a leakage of information to
22 the execution desk improperly and so on.

1 I mean, so I think it's quite easy to do
2 to have participants and other members involved
3 but there has to be a fair amount of practice and
4 I would think a participant who's going to
5 participate in auctions needs to be qualified in
6 that fashion.

7 MR. WASSERMAN: We'll go to Phil and
8 then Sunil and then I'm going to try and move us
9 on to the next agenda item within this.

10 MR. WHITEHURST: Thank you, Bob. Yeah,
11 I think from our point of view that it is very
12 much about specifics of the instrument that you
13 need to take into account in these situations.
14 Certainly, first of all, auction for us is very
15 much pre-recovery. It's part of our default
16 management process and hopefully avoids ever
17 reaching those stages just as a point of
18 clarification.

19 Depending on the instrument you might be
20 looking at a liquidation route or you might be
21 looking at a hedging and then an auction,
22 typically in an OTC market. You're using the

1 hedging to take you out of what we might call the
2 open risk or the delta. And then, the auction is
3 to tidy out the book transfer, if you like. So
4 that's important, I think.

5 So what is the role for each type of
6 market participant at each stage in that process?
7 I think it very much depends on the market
8 structure. Certainly, certain market structures
9 there's very little client-to-client activity so
10 you would want to go to market makers and have
11 them provide hedging prices and probably also
12 auction prices just given the thousands of line
13 items that might be involved.

14 But in others, perhaps more in markets
15 where you would liquidate your positions, you
16 might be able to put them straight into order
17 books, for example. So I think it does depend
18 very much on what instrument and you'd have a
19 tailored default management process according to
20 the specifics of the instrument.

21 MR. WASSERMAN: Sunil?

22 MR. CUTINHO: I just wanted to reaffirm

1 this point that Oliver made. Default drills, yes,
2 it's very important that if we are expand -- I
3 mean, we do this all the time. If the structure
4 is broad enough to buy side participants, those
5 participants should participate in default drills.
6 It's a key aspect of -- they would understand the
7 compliance aspect of it as well as the operational
8 aspect of it.

9 The other thing is the default risks are
10 taken into account in distressed market scenarios
11 not just normal market scenarios. So this is how
12 CCPs solve for defaults under extreme
13 circumstances because these things cannot be
14 figured out or designed and when there is a
15 default, they have to be done well ahead of time.

16 MR. WASSERMAN: So, as I said, I --

17 MR. MCCLEAR: A real quick point on
18 that.

19 MR. WASSERMAN: Okay.

20 MR. MCCLEAR: All right. So I just
21 wanted to note, even if the customers or the buy
22 side participate directly in an auction, they

1 still need a clearing participant. They still
2 need to clear those transactions so the clearing
3 participant has to approve their bidding activity,
4 if you will. They have to be standing behind that
5 customer.

6 MR. WASSERMAN: Are you saying standing
7 behind them -- well, obviously, they have to stand
8 behind them financially but are you looking at the
9 clearing participant responsible from a market
10 rules?

11 MR. MCCLEAR: No, I was thinking in
12 terms of clearing.

13 MR. WASSERMAN: Okay, let's move on and
14 actually, I think I want to take together what we
15 have as B and C which is to say, what are the
16 tools that DCOs and really, not just SIDCOs but
17 this is really more general, should include in
18 their viable recovery plans in the event of a
19 failed auction? Whether that should include
20 forced allocation, complete tear up, partial tear
21 up and what are the risks that arise from the
22 tools? Who's affected by those risks depending

1 upon which tools and how?

2 Raj?

3 MS. RAMANATH: So I think at the outset
4 I would say that as a firm, JP Morgan firmly -- JP
5 Morgan as a firm firmly believes that there is
6 always a market clearing price for any trade. And
7 it's a function of what is the price and does the
8 CCPs have the resources to pay that price? And
9 therefore, we believe that if a clearinghouse
10 right sizes its resources, its loss absorbency
11 resources, even if the price is low during a
12 market-stressed environment, they would be able to
13 meet the auction price. And therefore, we ideally
14 should not get to this problem.

15 But then, from a certainty perspective,
16 we realize that we need certain tools that would
17 give us certainty that the clearinghouse would
18 always return to a balanced book. And looking at
19 the three options, forced allocation, partial tear
20 up and complete tear up, I think we believe that
21 neither forced allocation nor complete tear up is
22 a viable alternative and that from a systemic

1 stability perspective it could be very damaging.

2 And therefore, for lack of a better
3 alternative, we feel that partial tear up as a
4 tool can be used to a very, very limited extent
5 provided -- and when I say limited extent what I
6 mean is if the clearinghouse has, let's say 100
7 trades. It's been able to auction off 90 or 95
8 and there's just a handful of trades that it's
9 unable to manage, that's probably a scenario where
10 you use partial tear up as a tool.

11 And even by partial tear up is used, to
12 question about what are the risks? Clearly a
13 person who had a trade, whose trade is suddenly
14 torn up is going to face replacement cost on those
15 trades. They had a certain expectation with
16 respect to the trade and now that suddenly
17 vanishes. And they need to reestablish that
18 position. And to the extent that the participant
19 has this opened risk which they need to manage, we
20 feel that the participant should be entitled to a
21 certain degree of compensation for that
22 replacement cost which they need to get from the

1 CCP. And --

2 MR. WASSERMAN: I'm sorry. Let me press
3 you on that point just for a moment because -- so
4 to the extent what you have is essentially
5 reducing some -- if someone has a directional
6 position, to oversimplify just a bit. And we
7 reduce that directional position. They face
8 replacement cost risk but heck, that's a lot
9 better than complete tear up where they'd lose all
10 of it.

11 If someone has a hedged position, is it
12 possible that partial tear up might put them in a
13 less hedged more directional position and then,
14 what are the risks there?

15 MS. RAMANATH: So I think when we are
16 looking at the CCP's portfolio, we are looking at
17 portfolio of the participant only with respect to
18 that CCP. So a person who has a directional
19 position at one CCP might, in fact, be running a
20 balanced portfolio, a hedged portfolio, except
21 that the hedges they're in some other CCP.

22 Or it could be that they have a hedge

1 position at that CCP except that one leg of that
2 trade is now being torn off and they end up with a
3 directional risk. Which is why in either
4 scenario, we would expect that participant to try
5 to reestablish that position elsewhere either
6 eventually cleared at the same CCP or more likely
7 elsewhere outside of the system.

8 And the process of establishing the
9 trade is going to entail a certain cost which they
10 are going to suffer because the trade has suddenly
11 been torn up at a price that they couldn't control
12 which is where we feel the need for compensation
13 to step in.

14 MR. WASSERMAN: Okay, I think Sunil, all
15 the -- oh, Phil? Okay, Phil, Oliver and then,
16 Sunil.

17 MR. WHITEHURST: Okay, thank you. So I
18 think in terms of forced allocation, as a firm, we
19 have tended to move away from that as a method.
20 It has been in some of our waterfalls in the past.
21 It isn't any longer. That's really something
22 that's happened in consultation with our members

1 largely on the basis that it's not as
2 controllable.

3 I think there's a lot you can say about
4 the nature of the way you implement a forced
5 allocation. You've got a set of trades and a
6 piece of risk that you're trying to allocate. And
7 that can be allocated in lots of -- you could have
8 lots of different methodologies for coming at
9 that. So it's a question of how do you go about
10 allocating.

11 I think the thing I'd say about partial
12 tear ups that can potentially be quite powerful is
13 assume you can get around some of the netting
14 opinion problems that have existed. We've got the
15 question whether it's voluntary or mandatory. I
16 think there is potentially room for something
17 where you've got a set of problem positions and
18 you're looking then to find a way out of those
19 problem positions. I think there's a parallel
20 there almost between CCPs and the different
21 services they run and the idea that individual
22 services can be closed as distinct from a CCP

1 being shut down as in a way a form of partially
2 tearing up problem markets, if you like.

3 So I think there's a few things to
4 consider but certainly, forced allocation is
5 something we've tended to back away from.

6 MR. WASSERMAN: I'm going to go to
7 Oliver and Sunil. And then, Kristen, can I drag
8 you into this as well? So Oliver?

9 MR. FRANKEL: So we talked about the
10 context in the previous panel about how stressed
11 the markets must be. For and as Raj pointed out,
12 we don't think this can ever happen but it's a
13 possibility. But let's think about what the
14 conditions would be for an auction to fail. That
15 is there is no price at which members or other
16 participants would be able or willing to take on
17 the defaulter's positions. They would be nuclear
18 or whatever the description would be.

19 I think it has to be that the
20 participants in the auction would find that those
21 positions, those small set of positions,
22 hopefully, were unmanageable risk-wise. So there

1 was no calendar spread or any other source of risk
2 which would allow them to take that position.
3 That molds would have broken down which allowed
4 them to hedge them with something else. And so,
5 the market has reached really extraordinarily --
6 either the positions themselves are gone nuclear
7 and unmanageable with any other tool, their
8 pricing has become unrelated to anything that they
9 were being managed with before or that the market
10 itself has gone to extraordinary levels where not
11 that the market has moved 240 basis points but
12 potentially -- but it would necessarily -- the bid
13 ask spreads or mid to ask spreads has moved to 240
14 basis points which is an extraordinary idea.

15 And it would be symptomatic of a market,
16 the structure of a market problem so vast that we
17 don't know how to think of it. So the issues with
18 partial tear up that are being considered here of
19 what happens if people have hedge positions, I
20 don't think it's possible that people would have
21 hedge positions because if people had hedge
22 positions, they would have been able to bid at

1 auctions for them.

2 So I think we're in a situation, a
3 context, which is extremely stressed. The
4 relationships with the positions that can't be
5 auctioned have all broken and that tearing them up
6 is going to be the best action to take because
7 it's, you know, giving those positions to other
8 people is only going to magnify those problems for
9 the people who receive them. Better that those
10 same people have their positions torn up.

11 And presumably, the people who would be
12 otherwise force allocated, you know, they don't
13 have the opposition positions or they would have
14 offered them up anyway. So you're only increasing
15 the problem for those auction participants or
16 members in force allocating them. Tearing them up
17 has got to be the worst or the least worst outcome
18 there, too.

19 I mean, there's also -- it spreads the
20 problem just like gains based haircutting. It
21 spreads it very thinly and very far. That has to
22 be considered a virtue, too, in as much as it's

1 got to lessen the potential contagion that would
2 have -- that could come from this necessary
3 action.

4 MR. WASSERMAN: Sunil?

5 MR. CUTINHO: Thank you, Oliver. That
6 was a very good point I was going to start with
7 the context. I don't have to say that anymore. I
8 think the way to think about these is a series of
9 tools and that you do partial or full tear up
10 depends upon the circumstances, the nature of the
11 market. And that context is very important to
12 consider.

13 The one thing that I've heard there's
14 conversation about replacement costs. But at the
15 end of the day, what tear ups do, partial or full
16 tear ups do, is it gives you certainty. It caps
17 or crystallizes your losses and then it returns
18 back the collateral. That collateral, that margin
19 that was collected was for future ex ante risk
20 exposure or even covering replacement costs.

21 So you have that margin that comes back
22 to you. So you know that's why I'm -- I don't

1 understand, I mean, in a context that Oliver is
2 talking about, I don't understand what replacement
3 cost really means. So it'll be good for us to
4 understand what it really means because there is
5 no market in these circumstances.

6 MR. WASSERMAN: So and, Kristen, the
7 reason why I'm conscripting you in here is this.
8 My concern about partial tear up has been that if
9 you have someone on the buy side who has a hedge
10 or somewhat hedged position, then partial tear up
11 might be risk increasing. And then, they would be
12 placed, I think, in the position, actually posting
13 more margin because their net margin requirement
14 would increase. And they would have to figure out
15 a way to liquidate that and that scares me.

16 But I could be getting this wrong. So
17 let me turn to someone actually who is a risk
18 manager on the buy side to set me right.

19 MS. WALTERS: I actually think I would
20 agree with that and I thought that Raj's comments
21 were quite astute on the topic. So first of all,
22 I agree that there is particularly for -- we are

1 clearing standard products. There should always
2 be a clearing price. Therefore, by default, I
3 don't believe there should be a failed auction.

4 I also take your point, Raj, around
5 partial tear ups that if you are in a situation
6 where you have basically had a full tear up of
7 most of the positions and you have a handful
8 remaining, that would be the instance where I
9 would think partial tear ups would be a reasonable
10 thing to consider. So, Bob, I think I share your
11 view and, Raj, I'm assuming that you would as well
12 based on --

13 MR. WASSERMAN: Phil, Bis and then,
14 Kevin?

15 MR. PRIOLO: Again, as an end user, for
16 me having an unhedged position is an issue. It
17 presents, you know, being made financially whole
18 may not be the best outcome for me. I still need
19 a hedge. And to give you some context, we have
20 minimum hedge positions that our board sets and
21 they're approved by the board.

22 And if I fall below those positions, I

1 then need to go before the board and explain why.
2 And so, not having that hedge available to me
3 presents significant issues. It also presents
4 issues from an earning standpoint because I have
5 hedged earnings that I am reporting out to the
6 street. And then, I need to go back to the street
7 and explain that I no longer have hedges for those
8 because the exchange has failed.

9 So these are real issues for an end user
10 that for me are particularly disconcerting.

11 MR. WASSERMAN: Bis?

12 MR. CHATTERJEE: I think I'll just pick
13 up on some of the points made earlier. I think
14 the decision of which of these three tools to use,
15 whether it's forced allocation, partial tear ups
16 or a full tear up really depends on a couple of
17 things. One is what are we trying to do at that
18 moment? As Raj laid out, if the situation is that
19 you have most of your book priced in the default
20 management auction and you look at your resources
21 between what you have funded and what potentially
22 you can get. And you're really talking about a

1 few positions for which you are looking to solve
2 this problem and you really want to focus on
3 continuity of services, then you have to take one
4 method.

5 If you're looking at positions where
6 there are large number of these positions for
7 whatever reason, Kristen, I know you mentioned
8 standardized contracts but some of these may lose
9 liquidity or transparency over time. And they may
10 be still in the clearinghouse.

11 The question is if there are substantial
12 amount of these contracts for which you did not
13 get any pricing in the auction, forced allocating
14 them doesn't really solve the problem. You end up
15 giving these contracts for which the market's not
16 able to put a price on and you'll be giving them
17 to members who either may not have the financial
18 resources to manage these things or may not have
19 the risk management capability to manage these
20 resources.

21 And that's maybe one of the reasons why
22 some of these members never entered into these

1 contracts in the first place. So I think it's
2 very important to step back and say, what are we
3 trying to do when we consider one of these
4 options? Do we really want to continue the
5 service? And B) if we want to continue the
6 service, the choice of the tool really depends on
7 what happened in the auction. So if you have an
8 auction, you get prices on everything but you
9 don't have enough resources, then you probably
10 look at something like what was discussed earlier
11 and the variation margin of the gains haircutting
12 or even partial tear ups.

13 So I personally am concerned with the
14 situation where you have an auction. You don't
15 get prices on certain products and we force
16 allocate them because I don't think that helps any
17 of the participants.

18 MS. WALTERS: Yes, I think in the
19 financial crisis we did see that there were
20 clearing prices across markets with the exception
21 of highly structure products traded over the
22 counter or across banks. Basically, so sub-prime

1 CMBS. So there were situations that where repo,
2 for instance, just didn't work in those markets
3 because there literally was no pricing.

4 And certainly, as tear up derivatives we
5 all know that story. But I think in these
6 markets, the ability to have -- to find a price
7 even if it's not at the level that you might
8 desire it to be is completely achievable.

9 MR. WASSERMAN: And just before I go to
10 Kevin and then, Sunil, I mean I think the issue is
11 this. Again, likely, right, these are going to
12 have a certain degree of liquidity and you will be
13 able to get a price. If that price is such that
14 it's going to exceed the available resources, you
15 do have a problem. And we need to figure out,
16 again, ex ante, how that problem would be solved.

17 I mean, with respect to the forced
18 allocation versus partial tear up, my concern is
19 this. On the one hand, I realize that forced
20 allocation to members is going to create risks for
21 those members and they may question whether those
22 risks are measurable, manageable and controllable

1 like we were talking about what's in the CPMI
2 IOSCO report.

3 On the other hand, the members at least,
4 and particularly if you limit it to those members
5 who are participants in those markets, have a
6 certain degree of expertise in risk management and
7 in handling positions that is, I think, different
8 in kind to those of the buy side folks who I look
9 at as sort of the civilians in this.

10 And so, if you go to partial tear up,
11 and again, I'm less concerned about replacement
12 cost risk, more about creating directional
13 positions for the civilians, how do you account
14 for that risk? And that's really where I'm
15 getting concerned about partial tear up. But let
16 me go to Kevin and then, Sunil and then, Oliver.

17 MR. MCCLEAR: I was just going to share
18 that ICE currently has forced allocation in its
19 rules. But we too are proposing to move away from
20 forced allocation for the reasons that have been
21 articulated just now. We view it as
22 risk-increasing during a time of stress which is

1 not good. And to your point, the clearing members
2 need to measure their risk. They need to be able
3 to quantify and know their risk. That's very
4 important.

5 There are also additional burdens
6 associated with taking on contracts that if you
7 force a position, you might be forcing a position
8 that a clearing participant is inexperienced
9 managing from a risk perspective and there are
10 operational burdens, too. For instance, for some
11 of our contracts, we require price submissions on
12 a daily basis and they might not have the trading
13 desk to be in a position to submit the prices.

14 I did want to talk, too, just quickly
15 about complete tear up. I think there is a
16 limited use of complete tear up. So some of the
17 clearinghouses, as we discussed earlier, having
18 clearing silos for contract categories like at ICE
19 clear Europe we have three categories of FX, CDS
20 and F and O. And I think there are instances
21 where you might want to do a complete tear up of a
22 particular contract category to preserve clearing

1 of other markets that are still viable.

2 MR. WASSERMAN: Sunil?

3 MR. CUTINHO: I wanted to answer your
4 question. I think on paper it sounds as though,
5 hey, clearing members have the wherewithal to take
6 on these positions, forced allocation, so why not
7 do it? But I think we forget the fact that we
8 don't want to put our clearing members at risk as
9 well and especially under those circumstances
10 because if they fail to perform or they suffer
11 losses, then they will not perform to the
12 clearinghouse.

13 So this is why I think allocation of
14 positions when there is no market in those
15 positions is not a very good outcome for the
16 industry. So tear up crystallizes those losses.

17 The second thing I wanted to talk about
18 more, rather than just speaking about tear up is
19 the incentive effects that Joe mentioned. I think
20 if it is in the rules ex ante, it acts as an
21 incentive for markets to recover and not come to
22 that step. I think that is something we should

1 pay more attention to. If your tools promise
2 outcomes that are good and there is no downside,
3 then why would people participate in recovery?

4 So tear up, of course, it impacts firms.
5 It impacts end clients as well as market makers
6 and everybody. So that just acts as an incentive
7 for these entities to actually participate in the
8 auctions, participate in these markets. Markets
9 will come back. And that's why the context that
10 Oliver had presented before is very important.

11 And since it's a very theoretical
12 conversation about a scenario where there are no
13 markets, tear ups, I think is the best of all the
14 worst outcomes there.

15 MR. WASSERMAN: Oliver?

16 MR. FRANKEL: Thanks. I won't quote
17 Richard Bookstaber's definition of a hedge but I
18 would point out that in this typical -- in this
19 really stressful situation, the hedges aren't
20 working. When the hedges aren't working, it's
21 really exposures from both parts of the hedges
22 that are not working together. You're getting

1 losses from both sides of your -- what we're
2 considering to be hedges.

3 And so, tearing up one side of it is
4 only going to be helpful. If that weren't the
5 case, then people would have been able to provide
6 liquidity for those positions in the auction. So
7 I think you have to understand -- I think we have
8 to recognize that the context is the hedges aren't
9 working because if they had been working the
10 auctions wouldn't have failed.

11 MR. WASSERMAN: Let me toss another
12 question into the mix here and that is, are there
13 ways that the risks to participants from things
14 like partial tear up can be mitigated? For
15 instance, you could do partial tear up through
16 some random assignment. You can do it through is
17 there a way to favor positions that are more
18 directional and making them less directional. I
19 don't know. Are there some approaches there?
20 Bis?

21 MR. CHATTERJEE: So, Bob, I'd like to go
22 back to your comment earlier where you said

1 protecting the civilians. I'm assuming you're
2 talking about retail non-ECP kind of participants.
3 And I probably think there is some sympathy to
4 making sure they are protected. But one would
5 also question what they are doing in very liquid
6 contracts in the first place.

7 So that kind of leads to kind of what
8 you were -- you just mentioned is I think while
9 there is one school of thought that says any loss
10 allocation should not be seen as cherry picking.
11 You know, you don't pick somebody because they
12 wear a certain hat. If you go down that path and
13 saying, look, there is probably different degrees
14 of sophistication and financial resources
15 available to certain categories, I mean, this is
16 purely speculating.

17 But you could come up with a mechanism
18 where you, as kind of you outlined. You start by
19 again tranching the partial tear up process or
20 kind of creating bands in which the partial tear
21 up process works so that the first set of partial
22 tear ups are to a certain extent of the partial

1 tear ups come from the more sophisticated,
2 financially secure, a proxy could be the clearing
3 member had.

4 The next set-up could then next tranche
5 or next settle there then goes to the indirect
6 clearing members. So yes, there are ways which we
7 can explore to see well, do we want it to be blind
8 and fair and non-cherry picking which means it
9 hits everyone equally who has the opposite side.
10 Or do we create some kind of tier-based banding
11 based on some tranching or some caps on how much
12 goes to what kind of participants.

13 MR. WASSERMAN: Sunil?

14 MR. CUTINHO: I think the thing to
15 consider is in this situation when you're doing a
16 tear up, it's important to be fair and it becomes
17 very difficult for a CCP to treat different
18 participants differently. It's important to treat
19 them equitably to the extent it has knowledge.

20 So it has a knowledge of positions. It
21 knows what they are and it has knowledge of the
22 issues with those positions that couldn't be

1 auctioned off or those markets. So tearing up
2 those markets and doing it as equitably as
3 possible is what we would pursue because even in
4 our rules because it wouldn't be a good place to
5 be where you just start picking certain market
6 participants and they bear more of the losses
7 because that would go against the fairness
8 concept.

9 MR. WASSERMAN: Further on this issue?
10 Hearing none. The next question. Are there
11 processes, governance mechanisms that should be
12 implemented to alleviate some of these concerns?
13 I mean, because, for instance, I guess if -- well,
14 first off if you're going to be doing it
15 completely randomly, then one could look at that
16 as fair.

17 If you have other mechanisms, for
18 instance, how do you define product sets? How do
19 you define risk sets? Then there may be
20 governance concerns. What do folks think?

21 Sunil?

22 MR. CUTINHO: Okay. I think that we

1 should separate two things. One is the previous
2 question is about whether we change the impact of
3 tear ups based on who the market participant is.
4 I think that's where the fairness concept comes
5 in.

6 But there can always be algorithms that
7 are transparent and open that limit the exposure
8 to markets that are functioning well. So that's
9 what partial or targeted tear up is about. So you
10 can come up with algorithms that ensure that you
11 do not tear up across -- you keep markets that are
12 functioning well, going, while markets that are
13 not functioning where there is no prices, as
14 Oliver pointed out, those are torn up. And the
15 losses distributed equitably.

16 The thing about governance, we already
17 spoke to this. I think CCPs have good governance
18 structures already in place and it's important
19 that in such a situation, especially when we are
20 doing variation gains haircutting or tear ups that
21 it's important for that governance mechanism to
22 act according to the rules as well as act in the

1 best interest of the market.

2 I think independent rather than for
3 their own -- we cannot have a structure where
4 participants act in their own best interest. Here
5 they have to act in the best interest of the
6 market. So that's what we strongly believe in.

7 MR. WASSERMAN: Phil?

8 MR. WHITEHURST: Thank you, Bob. Yeah,
9 I think, I mean, if we come back to that question
10 as sort of randomness perhaps in a partial tear
11 up, I think from our point of view that would seem
12 to perhaps not meet some of the tests that are set
13 out by CPMI in terms of controllable and
14 manageable and those sorts of things.

15 I think also it's important to bounce
16 another test we haven't mentioned which is
17 minimizing systemic impacts. I mean, minimize
18 fairness isn't mentioned as a test of the tools.
19 But if we look about minimizing impact, you know,
20 as a risk manager what you're trying to do is if
21 you've got a problem position, you want that to be
22 dealt with with as little impact to the market as

1 possible.

2 And so, I think methods which give a
3 degree of visibility into the way that you're
4 going to go about allocating a piece of risk seems
5 to us to meet a better sort of standard if you
6 like.

7 MR. WASSERMAN: So let me -- you quite
8 rightly remind us of the criteria in the report
9 and talking about among other things, very
10 importantly, we want to minimize impact on the
11 market as a whole and create the right incentives.
12 So it seems to me there are a number of ways even
13 within partial tear up that you can do that.

14 One is simply, okay, we've got some
15 positions that either can't be liquidated or can't
16 be liquidated at a price that is within resources.
17 So you could simply randomly assign those to
18 members within their -- including customers and
19 then you'd get it to a matched book but perhaps
20 with negative impacts.

21 You could, as has been suggested do that
22 on some kind of preferential basis, perhaps,

1 depending upon the members or perhaps preferring
2 risk reducing within the bounds of the
3 clearinghouse because the clearinghouse doesn't
4 know what hedges folks have outside the
5 clearinghouse. And believe me, this is the last
6 time to try and have them try and figure that out.

7 Okay. You could expand the scope and so
8 avoid the -- one way to avoid breaking of netting
9 sets is by instead of doing a very surgical way,
10 expand what you're cutting and essentially do a
11 risk-related set of contracts. And that might
12 then be less risky both to the members who, or
13 participants rather, whether members or customers,
14 who bear the partial tear up and to the market as
15 a whole because of having that essentially
16 avoiding the netting set problem.

17 I guess, as you move down that scale,
18 though, the governance burden, the risk burdens
19 perhaps decrease, the governance burdens perhaps
20 increase because then you have to figure out well,
21 is there a certain discretionary aspect to that?
22 So how -- I guess, how do we approach that?

1 MR. WHITEHURST: Well, I mean I think
2 you make a lot of valid points, Bob. Again, we
3 don't have partial tear up available then, as I
4 say, drawing the parallel that we have siloed
5 services which would allow us to close a
6 particular marketplace. And to some extent that
7 is a kind of a partial tear up if you like. In
8 other words, not taking markets down that are
9 still functioning perfectly well.

10 I think for us, partial tear up it
11 probably comes back to the question of what you're
12 clearing. And I think amongst the most plausible
13 of these highly implausible situations is that
14 it's a particular type of product. So it may be a
15 particular index in CDS or it might be a
16 particular currency pairing in NDFs or a
17 particular currency in the swaps market, something
18 like that.

19 And I think partial tear up in that kind
20 of context, there is no price in this particular
21 product type, you're asking the question well, if
22 many other instruments have markets in which there

1 is still a functioning marketplace, to what extent
2 should those participants be involved in solving a
3 problem related to a particular marketplace and a
4 particular instrument perhaps. So for us, I think
5 when we consider partial tear up, we're not really
6 thinking about partly tearing up a subset of
7 contracts in a particular instrument.

8 I think, for us, the more likely type of
9 partial tear up is potentially tearing up all of
10 the contracts in a particular instrument which is
11 one of the instruments that you're clearing within
12 a particular asset class or risk category.

13 MR. WASSERMAN: Anyone else on this
14 point? Which event -- let me ask, perhaps, a
15 somewhat broader question which is this and we're
16 talking here about the concept of well, maybe you
17 tear up in particular product class. And one of
18 the things I've seen, I mean, I specifically
19 remember in the ISDA paper is well, maybe what you
20 do is you can terminate a particular service and
21 thereby save the other services.

22 And I guess my question is and I'm

1 reminded of what Lindsay said earlier about
2 reputational risk. Is that, in fact, practicable?
3 Which is to say, if you tear up a particular
4 service would -- do you see that that CCP could go
5 on even though it has suffered that kind of a
6 reputational loss?

7 Kristen?

8 MS. WALTERS: I think highly unlikely
9 and most improbable.

10 MR. WASSERMAN: Kevin? And then, Sunil.

11 MR. MCCLEAR: I think it's possible
12 because we talk in terms of reputational impact.
13 Nobody likes to fail. But again, it's all about
14 context and we're talking about an unprecedented
15 event. You've gone through four or five, maybe
16 more, of your clearing participants and it's
17 important to remember that clearinghouses are
18 central counterparties. So the only way for a
19 clearinghouse to default is if our clearing
20 participants default to us.

21 So I don't think at that point it's
22 really a question of a failure of our risk

1 management practices. I think it's just a unique
2 market circumstance that might warrant taking --
3 tearing up one particular contract category to
4 preserve others.

5 MR. WASSERMAN: Sunil, then Joe.

6 MR. CUTINHO: Just to add to what Kevin
7 was saying, and the context that Oliver provided
8 before, you know, the context within which we are
9 talking about partial versus full tear up is some
10 markets have completely broken down. There is no
11 markets to -- and that's why it's hard to find a
12 price, it's hard to find auctions.

13 So there are markets that are
14 functioning. So that's the circumstance under
15 which you are considering partial tear up versus a
16 full tear up. We think it's reasonable to
17 consider that even if you tear up one product
18 class as you put it, it's reasonable to expect
19 that the other product classes would continue.
20 That's why we are having this conversation around
21 us because those are other markets are important
22 and that's the very reason you're considering

1 partial versus full.

2 If all the markets have failed then the
3 set of tools you would consider will also differ.
4 They won't be partial tear ups. You will start
5 considering broader sets. The second thing is
6 netting set. Netting set is a complex discussion
7 beyond public roundtable but a lot of things to
8 consider. There is underlying versus options. So
9 we have to take in -- when you do partial tear up
10 it has to reduce risk. It has to minimize risk.
11 That's important to consider rather than
12 arbitrarily choosing just a certain set of
13 contracts to close without taking into account the
14 risk associated with that action.

15 MR. WASSERMAN: Joe and then, Phil?

16 MR. KAMNIK: Two things. Bob, to your
17 question about the viability of the CCP if you're
18 engaging in partial tear up, I think it's all
19 context-specific. And this echoes Kevin's point
20 earlier.

21 You have to evaluate whether the CCP has
22 operated its default management process

1 appropriately and prudently such that the auction
2 was successful but that the price obtained in the
3 auction was not such that the prefunded resources
4 could absorb it. And then, you had just an
5 overhang where you had to, you know, gains
6 haircutting didn't work for whatever reason and
7 you had to go into a partial tear up.

8 I would think that the context specific
9 nature of things would mean such that the
10 viability of the CCP for other product classes
11 could continue. The second point, you had asked
12 about partial tear up and maybe where do you draw
13 the line in terms of your subset.

14 It seems to me that you want to tear up
15 the smallest subset possible to return you to a
16 matched book. And that the fairest way to do it
17 is pro rata based on the open positions against
18 the defaulting members' contracts.

19 MR. WASSERMAN: Phil?

20 MR. WHITEHURST: Thank you, Bob. Yeah,
21 I think the thing I say to the reputation point; I
22 think you're absolutely right. There would likely

1 be damage. But I think you should leave that for
2 the market to judge. So I think there's a burning
3 bridge problem. There's a market that's failing.
4 I think you're trying to deal with that first.

5 If you're then able to do so and keep
6 other services open, then I think that's better in
7 that immediate circumstance. And then, I think
8 what you're probably going to see from
9 participants is that there's a post mortem.
10 There's a why did we get to this situation?

11 You know, on the one hand it could be
12 the marketplace failed and therefore, we don't
13 hold the CCP particularly accountable or there
14 might be a post mortem, wow, the CCP management
15 really screwed up there. So actually, we're going
16 to withdraw in our activity with that CCP because
17 we don't have trust in them anymore. But at least
18 you're beyond the point of -- so the critical
19 problem might be an outcome that you'd consider.

20 MR. WASSERMAN: And just to be clear, I
21 think the concept of having these segmented
22 services makes a lot of sense. Rather my concern

1 trying to what Kristen said, trying to something Tom
2 has said earlier is that the likely reputational
3 impact is going to be my heavens, this was a
4 failure.

5 In retrospect, oh, gosh, how could we
6 ever have expected this? Well, it's your job and
7 that there would likely be loss of confidence such
8 that in constructing your planning, you shouldn't
9 say, oh, we've got that segment and nothing to
10 worry about. Yeah, you probably need to have it
11 segmented but I think there's a great deal to
12 worry about in terms of the goal of having
13 continuity of operations because of the likely
14 impact on market confidence.

15 Do we have any other issues here
16 relevant? In which event, it looks like we have
17 actually ended a panel early which is fine. A
18 couple of very important announcements.

19 First, for those who are not familiar
20 with this area, we used to have a snack shop here
21 in the building. That is unfortunately no longer
22 the case. There are some shops basically on 20th

1 Street and there's a very nice snack shop in the
2 breezeway as you go down here or on L Street or if
3 you to your right out the building by 21st and M
4 and there's as well some places to sit down.

5 Also, I know it is very difficult to get
6 folks back on time from lunch. We know from the
7 CPMI IOSCO report it's important to set good
8 incentives. And I have figured out a way to do
9 so. I have baked four cakes. There are two
10 orange with buttercream frosting and two chocolate
11 with triple chocolate fudge buttercream frosting
12 as well as a small pan of blondies with chocolate
13 frosting.

14 At 1:20, 10 minutes before the lunch
15 period ends, they will be placed on those tables
16 and available on a first come, first serve basis.
17 We'll see how the incentive structure works.

18 MS. DIETZ: See you in a while.

19 (Recess)

20 MR. WASSERMAN: Okay. If I could ask
21 everyone to please take their seats. Okay, if you
22 could -- and anyone else? Okay. Well, we seem to

1 have gotten folks back from lunch so I guess the
2 incentive structure worked.

3 And I think we have two new panelists
4 and I'm hoping I could get them to introduce
5 themselves. Herb?

6 MR. HELD: Herb Held. I'm from the
7 FDIC.

8 MR. WASSERMAN: And Lloyd?

9 MR. PLENTY: Yeah, Lloyd Plenty, BNP
10 Paribas Group Management representing ISDA.

11 MR. WASSERMAN: Well, thank you very
12 much. So our third session is on wind-down. And
13 I should note that by definition, the failure of a
14 DCO that has been designated systemically
15 important by the Financial Stability Oversight
16 Council could create or increase the risk of
17 significant liquidity or credit problems spreading
18 among financial institutions or markets and
19 thereby threaten the stability of the financial
20 system of the United States.

21 Concerns regarding the failure of a DCO
22 might be especially pointed for end users

1 including those in the agricultural, metals and
2 energy sectors who may find that they cannot
3 reestablish hedges that are lost in such a
4 situation. And I know we tend to be focused a lot
5 these days on central counterparties for swaps but
6 we should remember as well the singular importance
7 of clearinghouses for futures in that context.

8 On the other hand, a DCO must have
9 sufficient resources in order to continue to
10 operate. It is possible that a DCO may consume
11 the resources available to it pursuant to its
12 rules and be unable to quickly raise additional
13 funds through voluntary means. Yet, a DCO cannot
14 practically mandate that its participants provide
15 it with unlimited resources.

16 Indeed, organizations representing
17 clearing participants and banking regulators that
18 regulate the bank holding companies of which the
19 clearing members are often subsidiaries or
20 affiliates are insistent that liability must be
21 limited and measurable which ties in, again, to
22 this measurable, manageable, controllable. So you

1 may have a paucity of practicable alternatives.

2 A related issue is the timing of the
3 determination that wind-down is appropriate and
4 necessary. Clearing obligations must be paid
5 every business day. The failure of a CCP to make
6 payments for even a single day can cause serious
7 disruption to the clearing system. At the same
8 time, a process that forces a final decision
9 regarding service termination within a single day
10 may not permit sufficient time for the negotiation
11 of a private sector solution or for the requisite
12 procedures necessary to invoke the resolution
13 authority under Title II of Dodd-Frank to be
14 performed.

15 So I'd like to first talk about timing
16 here. And again, there are these practicalities,
17 right? What we're dealing with here and, indeed,
18 what we've been dealing with all day are
19 unprecedented situations. And while we can and
20 should have the kinds of tabletops that might help
21 us better understand some of these issues, I think
22 it's doubtful that certainly I'm very hopeful that

1 we will never get used to going through these
2 kinds of exercises.

3 And so, since we've got human beings
4 involved who take measurable time to think. We
5 need to work through things that are possible for
6 human beings. And so, the first question I'd like
7 to put to the panel is, is there a minimum amount
8 of time following a participant default or some
9 other point, say the exhaustion of available
10 resources, the failure of an auction however that
11 failure might be defined that should be required
12 before the determination to wind-down is made?

13 And I will remind panelists that if I
14 could ask you to put your tents up when you would
15 like to speak? And so, who would like to start us
16 off? Raj, please?

17 MS. RAMANATH: Thank you. I think I
18 would start off by looking at how a wind-down is
19 defined in the PFMIs. And if I look closely at
20 the definition, when I look at wind-down, it
21 specifically says a wind-down could be a transfer
22 of critical services to another entity with a

1 wind-down of the legal entity. And I think that's
2 kind of echoed again in the CPMI IOSCO final
3 report on recovery which says that, yes, a CCP
4 should have a plan for complete tear up in its
5 rules but that could be destabilizing and that's
6 probably a point at which the resolution
7 authorities would step in.

8 And therefore, as a firm, we believe
9 that rather than look at wind-down of the CCP,
10 it's probably more important to focus on the fact
11 that a systemically important institution should
12 necessarily have a resolution strategy with
13 respect to its critical functions just as any
14 other systemically important financial institution
15 does. And the resolution strategy should focus
16 more specifically in terms of continuity of the
17 activities, the critical functions of the
18 clearinghouse rather than actual wind-down of the
19 clearinghouse by itself.

20 And to the extent that we've had
21 mandatory clearing and I think the last
22 (inaudible) report spoke about close to 75 percent

1 of trades by notionals being cleared. It's
2 absolutely critical that there be continuity of
3 activity. If not, we are clearly faced with the
4 scenario where you are going to have a market
5 destabilizing impact should you not have some kind
6 of a resolution mechanism stepping in.

7 And if you think about it, you're facing
8 a scenario like that when you run through your
9 funded guaranty fund, your assessments. You've
10 looked at all your recovery tools and that's the
11 point at which you are wondering whether you
12 should wind-down a clearinghouse. And that's a
13 scenario when there's very significant stress in
14 the market and when you have that kind of stress
15 in the market, that's precisely the point at which
16 all the participants would look to the CCP to act
17 as a buyer to a reseller and vice versa.

18 And if that's a point at which you
19 wind-down the trades. You're going to have market
20 mayhem in terms of everybody trying to reestablish
21 those positions because they have all this open
22 risk. And therefore, we, as a firm, do not

1 believe that wind-down is viable for a
2 systemically important CCP. And there clearly
3 needs to be a resolution plan which is set out, a
4 resolution plan which is supported by some kind of
5 prefunded resources which would support the
6 recapitalization of the clearinghouse, that would
7 ensure that you can have continuity of the service
8 without waiting for some kind of contingent
9 liabilities or funds that might or might not come
10 in. And ensuring that recapitalization resource
11 ensures you do not have any sort of recourse to
12 some kind of taxpayer bailout.

13 And to the extent that you have these
14 recap resources which would help in the resolution
15 of the clearinghouse, we believe that the
16 ownership model would ultimately have to change in
17 favor of those who have helped the CCP survive.
18 And that's one of the reason, key reasons, why we
19 feel that when we look at wind-down, it's not in
20 the context of the clearing service in terms of
21 the critical functions it's doing.

22 If we speak about wind-down, it's

1 probably only with respect to the legal entity
2 which is going to be wound down.

3 MR. WASSERMAN: Sunil?

4 MR. CUTINHO: I want to address a few
5 things. We'll get to the timing in a second. I
6 think we talked about the context in the first two
7 panels. The important thing is we believe in
8 recovery versus a wind-down.

9 And let's start with the topic of
10 assessments versus recapitalization. Assessments
11 are a very important and credible recovery tool.
12 If the concern is -- I've heard this concern many
13 times. If the concern is availability of
14 assessments in stressed situations, there are a
15 few things for us to keep in mind.

16 The recap fund with capital outside the
17 waterfall is of no use for recovery. A better
18 mechanism, I think we talked about this before is
19 rather than have the funds outside the system, the
20 systemically important concentrated clearing
21 members that can bring down a systemically
22 important, if the concern is they wouldn't -- we

1 wouldn't be able to assess them in these
2 circumstances, then let's prefund that but put it
3 in the waterfall because the risks to, as we spoke
4 about, largest financial institutions failing and
5 then, markets in a disarray and then exhausting
6 all funds, if you have prefunded all of that
7 capital, the resources ahead of time and it's in
8 the waterfall, we wouldn't even exhaust the
9 mutualized pool.

10 We would that at our disposal when we
11 are resolving the default of these institutions.
12 So this is why we don't believe recap fund -- one
13 of the reasons we don't believe recap fund is an
14 effective tool. The other reason is that
15 availability of funds, a promised land, at the end
16 is not an incentive for all the recovery tools in
17 the system.

18 You know, we talked about auction
19 incentives. We talked about people participating
20 in auctions. Essentially if you're saying that
21 there is a windfall available at the end, then why
22 would somebody participate in an auction? So

1 again, I think that's another reason a recap fund
2 is not a very attractive solution.

3 The third thing is why punish all the
4 clearing members? The problem we have is clearing
5 member diversity. We need a lot more clearing
6 members rather than a few concentrated clearing
7 members. So the way to limit the risk is not
8 punish every clearing member to put additional
9 funds in a separate remote place but target those
10 to only those entities that bring concentration
11 risk to the system.

12 Because if you do that, that acts as an
13 incentive as well to reduce concentration. It
14 becomes a function of the risk. It becomes a
15 function of the system and then you make sure that
16 there's diversity. So all actions, all incentives
17 that are set in place is to make sure the system
18 is less concentrated and less risky and the
19 incentives are in place for it to recover from
20 failures of default of funds.

21 When it comes to timing, it's very hard
22 to enumerate all the timings ex ante. And when we

1 talked about situations when we arrive the
2 circumstance called wind-down and it's important
3 to have flexibility rather than enumerating those
4 situations ex ante.

5 Resolutions -- a wind-down is basically
6 explicitly, transparently setting out that the
7 outcome and this is exactly the things that are in
8 other systems as well. The outcome under these
9 extreme circumstances are bad so the incentive
10 effects for every market participant as well, we
11 don't want to be there. Let's participate in the
12 auctions. Let's control our risks. It's an
13 incentive for every institution in the system to
14 work for the benefit of the market rather than for
15 their own self-interest. So that's where I'll
16 stop for now.

17 MR. WASSERMAN: So let me first -- I'd
18 like to separate out the issue of the
19 replenishment of resources. I mean, maybe you
20 prefund it, maybe you carve out of your assessment
21 powers one times your default fund -- however you
22 accomplish that. Let's -- I don't think that is

1 necessarily, you know, that's necessary to the
2 issue we're discussing at this point in terms of
3 wind-down.

4 Let's say you've done that. My question
5 is okay, but it turns out that you still have
6 intractable problems otherwise. You haven't been
7 able to reestablished a matched book. Okay.
8 Maybe you've done partial tear up. You simply
9 don't have -- the resources you have that folks
10 have agreed to do ex ante turn out not to be
11 enough.

12 And so, I guess the question is -- and
13 actually we need to add another factor. I was
14 saying earlier, you may not assume the
15 intervention of a governmental resolution
16 authority. The recovery plan may not assume that.
17 That is very different from saying that it may not
18 foster the ability of the resolution authority to
19 act.

20 And so, tying back to my comments a few
21 moments ago, if you need to allow time for that to
22 happen, is it practicable to do that? Is there

1 some minimum time where you can even in light of
2 doing things like either whether it's suspending
3 clearing or doing variation margin haircutting
4 that you could keep things going at least that
5 long so as to allow time for those human beings to
6 act or alternatively, do folks feel, no, actually,
7 that you really do need to proceed very quickly to
8 service closure to avoid systemic risk?

9 So what do folks think about that? And
10 let me ask you, Kevin?

11 MR. MCCLEAR: So we think when we get to
12 this very end as a last step before the
13 clearinghouse has to wind-down, and we think in
14 terms of wind-down being tearing up the position
15 and we terminate clearing effectively. We think
16 there should be a timeout called, a suspension.
17 Sometimes people refer to it as a false weekend.

18 Where we all get together, by we I mean
19 the clearinghouse, its clearing participants, the
20 regulators, perhaps the resolution authority, and
21 we try and figure out can we work this out? Can
22 we "recapitalize" and we haven't talked about what

1 recapitalization really means. I can tell you
2 that the clearinghouse will have operating capital
3 at that point. We have regulatory requirements in
4 that respect. So we're a going concern. We're
5 not insolvent from an operation standpoint.

6 It's just a question of whether we have
7 willing clearing participants, whether we have
8 default resources which, as you know, are the
9 margin and the guaranty fund and the assessment
10 obligations. But we really think it makes sense,
11 there's not much to lose, we don't think, as that
12 point. We're effectively not clearing because
13 we've gone through the variation gains margin
14 haircutting and we're done with that.

15 And so, it's a last step. We think it
16 makes sense to have; I'll call it this suspension
17 period of a very limited time frame, one day, two
18 days. Again, I reference a weekend. If it
19 happens on a Friday we have that two days. If it
20 happens during the week, we think we need a
21 timeout.

22 MR. WASSERMAN: Tracey?

1 MS. JORDAL: So I think it's hard to put
2 a minimum number of days on the time frame. I
3 don't think it should be after a certain
4 participant default but maybe after certain
5 exhaustion points. So the point you can find
6 someone to step in or to the extent the auction
7 fails, then that makes sense to look towards the
8 wind-down.

9 But I think it's hard to put an exact
10 time frame on it right? But it can't be too long
11 because the longer you wait, I think the less
12 confidence people will have in the system which I
13 think goes back to the importance of having things
14 spelled out. So if you're going to use a recovery
15 tool such as variation margin gains haircutting,
16 people, you know, if you go through two cycles,
17 pretty much people know how long that might take.

18 But if it's an open-ended, you know, how
19 many times you might go through it, it might
20 lengthen the time period. And the longer -- when
21 people don't know what's going on or if there's no
22 clarity on what might happen is when people faith

1 and confidence in the system. But I think
2 wind-down makes sense but only after you've
3 exhausted the other options such as if the auction
4 fails or you can't find someone to step in.

5 MR. WASSERMAN: So let me just clarify.
6 So you are saying there should be a minimum but, I
7 mean, is this that there should be a minimum but
8 it should be extendable through some sort of
9 governance process or?

10 MS. JORDAL: You know, it's hard to put
11 like say -- it's hard to say it should be a
12 minimum of X days. I think it's a -- there
13 definitely should be a governance process and
14 then, it should be after certain things occur that
15 then you should look towards the wind-down. But I
16 think it's hard to say minimum three days or five
17 days or two days. That's sort of the balance that
18 you need to try to strike.

19 MR. WASSERMAN: So are you saying that
20 essentially those minimum may be too short or too
21 long?

22 MS. JORDAL: You don't want the minimum

1 too short. Sort of I'm saying both things. You
2 don't want it too short, right? Because you want
3 to be able to do it wisely but you don't want it
4 so long that people start to lose faith and
5 confidence in the system.

6 So whether it be -- I think the industry
7 needs to assess how long that those periods might
8 take to get through if you do -- if the answer is
9 variation margin haircutting one cycle, how long
10 does that take? And then, one day. So if you go
11 through two cycles it's two days. So maybe a
12 minimum two to three days. But that's if people
13 agree that two cycles through variation cutting
14 makes sense versus one.

15 MR. WASSERMAN: And that's a question I
16 put before the panel. Kristen?

17 MS. WALTERS: So I agree with Tracey's
18 kind of discussion around kind of the exhaustion
19 point. I think that at the exhaustion point it
20 becomes more kind of a maximum amount of time
21 versus a minimum. And again, I think we've talked
22 about the fact that when you get to this

1 exhaustion point where the CCP does not have
2 sufficient financial resources to sustain itself,
3 we do support CCP resolution not recovery.

4 So again, believing that financial
5 stability is best served in a market where rapid
6 and complete winding down of a failing CCP's
7 positions and reducing any timing. So repaying
8 monies back as quickly as possible would be our
9 preferred approach. So in that context, what you
10 would want to do is at that exhaustion point, you
11 would immediately when the CCP still has -- is as
12 close to risk neutral as possible, I think I
13 mentioned this previously, the only unmatched
14 positions are the small number of defaulted ones.
15 That's when you would actually start a complete
16 tear up and return of collateral to clearing
17 members.

18 So we would basically suggest acting
19 very quickly and decisively because the longer you
20 wait, the more market volatility, the more
21 procyclical behavior and the more difficult it is
22 to address.

1 MR. WASSERMAN: Joe?

2 MR. KAMNIK: So I feel like I say this
3 every time before I comment but it's
4 context-specific. So in the ordinary case, I
5 think it's useful to talk about times when
6 wind-down should not be invoked. The first time I
7 would say would be when there is a depletion of
8 your prefunded resources.

9 Presumably, we've all developed ex ante
10 rules-based recovery tools for that very reason.
11 The second time I would suggest would be when
12 there's a failed auction. Presumably, we have
13 partial tear up or complete tear up would be the
14 wind-down. So let's say there is a partial tear
15 up possibility within the rule set, you want to
16 explore that option if the amount of problematic
17 contracts are such that they could easily be
18 absorbed by partial tear up.

19 So I think the overarching concern here
20 is if the CCP is running the default management
21 process effectively, then I think you want to keep
22 things ongoing as long as you reasonably can.

1 There is a point that I think Tracey made earlier
2 which is at a certain point in time, the
3 confidence in the viability of the CCP is going to
4 erode.

5 And when that starts to happen, the
6 option of wind-down increases. But generally
7 speaking, I think you want to go through the tools
8 that you have at your disposal and try to get them
9 to work first.

10 MR. WASSERMAN: Richard?

11 MR. HORGAN: You know, I think if you're
12 assuming that you're winding down and you're
13 tearing up, the time frames would be some type of
14 analysis as it relates to how the market
15 participants can reestablish if they were hedged
16 positions or they were part of a portfolio, how
17 long would it take an energy company to maybe use
18 an alternative source to manage their risk and
19 manage their hedge structure so they know that
20 there is limited time but it gives them an
21 opportunity to seek alternatives when they know
22 that their positions are going to be torn up.

1 MR. WASSERMAN: Sunil?

2 MR. CUTINHO: I want to address a few
3 things though. When you mention timing, if we are
4 talking the timing of an authority stepping in
5 during the wind-down process, one thing is very
6 important though. If you don't allow the ex ante
7 transparent default management and recovery tools
8 to play themselves out and we prematurely step in,
9 then that will cause disruption in and of itself
10 because at that point in time, market participants
11 do not know what to expect whether it's the
12 rulebook that they are used to and the transparent
13 set of rules or something else, a different set of
14 rules.

15 So I think it's very important to keep
16 in mind the timing of intervention, so to speak.
17 When you talked about timing for more capital to
18 come in, we have discussed variation gains
19 haircutting. The purpose of some of these tools,
20 variation gains haircutting and partial tear up,
21 is to give chance for capital rightly pointed out
22 by Kevin, capital outside of the operating

1 capital. More funds in the guaranty fund to come
2 in at that point in time.

3 But the most important thing there is to
4 close out the risks. There cannot be any ongoing
5 risk. More capital comes in for the markets that
6 are running and active and have to be continued as
7 a going concern. I think that's the timing
8 question.

9 The suspension is not a good idea, I
10 think, because if you suspend markets -- if there
11 are functioning markets and markets are moving,
12 suspending clearing is very, very bad. It
13 accumulates risks. If trades cannot be cleared,
14 you cannot even reduce risks. So it's not a very
15 good outcome because at this point in time when we
16 are close to this edge, we want markets to
17 recover.

18 So having clearing services providing
19 clearing for these markets is very important at
20 this point in time.

21 MR. WASSERMAN: So let me see if I can
22 synthesize what you're saying. What I think I

1 hear you saying Sunil is well, okay, we would, and
2 I thought I heard you say for two cycles, go
3 through variation margin gains haircutting and
4 then, maybe continue subject to some kind of
5 governance procedure. But if not, then I'm
6 hearing it's at that point that you would go to
7 wind-down?

8 MR. CUTINHO: Correct. So and then you
9 still have tools, partial tear up or full tear up
10 and then, full tear up is nothing but wind-down as
11 Joe pointed out.

12 MR. WASSERMAN: Oliver?

13 MR. FRANKEL: Right. I don't think --
14 recovery has the best chance of working if the
15 whole process is totally transparent and is
16 clearly laid out in rules and those rules can't be
17 trumped. So I think it's critical that we don't
18 have some intercession that otherwise -- that
19 would deteriorate the incentives that we've
20 created with proper recovery tools.

21 There is a need, I am assuming, for
22 consideration of some alternatives if things get

1 very bad. But I don't know why that period needs
2 to start at any particular point. The period for
3 consideration of what to do could start at any
4 time as long as it doesn't intercede with the
5 ongoing effective application of the recovery
6 tools.

7 For the market to -- I would like to
8 echo Sunil's point that if you intercede or if you
9 suspend clearing and you really run the risk of
10 creating a real market problem and certainly a
11 buildup of exposure for the CCP and the clearing
12 members which cannot be productive. So I would
13 not recommend an explicit suspension but rather
14 the process should be going in parallel, not
15 virtually, but in parallel in any case but in a
16 way that doesn't intercede or disrupt the
17 confidence that may be had in the recovery tools
18 and the incentives that they would provide.

19 MR. WASSERMAN: So, Oliver, what I think
20 I'm hearing you agreeing with Sunil with this kind
21 of a okay, you keep on clearing but you have the
22 haircutting for a specific number of cycles to

1 whatever that number is established ex ante rather
2 than suspending clearing for that period?

3 MR. FRANKEL: Yeah, definitely not
4 suspending clearing. That would be a bad idea but
5 what I'm recommending is that as soon as there is
6 a concern that the default management may run into
7 a problem, so it's a very large clearing member or
8 the contract's being cleared and not that liquid
9 or there might be -- any concern. There should be
10 a war room type set of meetings going on to
11 discuss what would happen if the recovery tools
12 don't work, what are we going to do? So that
13 participants can know they know they've got the
14 incentives to work but the incentives and
15 everything should work but should they not work?
16 There are -- these discussions don't start de novo
17 at some point without no information. They've
18 been already ongoing for quite a period.

19 I don't think it makes sense to start a
20 two day pseudo weekend with no information. That
21 should have already happened.

22 MR. WASSERMAN: Let me press you just a

1 bit because I would separate out two issues. One
2 of which is when do you start the discussions and
3 the planning and the meetings of the risk
4 committee? And I would think that would be very,
5 very, very quickly as after the default happens.
6 The second is what the rules provide and, in other
7 words, when the essentially service closure bell
8 might be rung and I think I -- I thought I heard
9 you say and others say, well, there needs to be
10 some degree of certainty in the rules as to how
11 that would happen, perhaps subject to some kind of
12 governance but that you do need certainty in. Or
13 am I getting --

14 MR. FRANKEL: No, that's right. I'm
15 saying yeah. The higher the certainty -- the high
16 uncertainty of the rules are -- more clarity
17 participants have into what the rules say and how
18 they operate the better because the incentives
19 will be clearer and will work better.

20 MR. WASSERMAN: Thank you. Raj?

21 MS. RAMANATH: To answer the question
22 around suspension, I would actually agree with

1 what Sunil and Oliver said which is that
2 suspending a market would only impact market
3 confidence. I mean, the risk is there in the
4 system it's not gone anywhere, it's not going
5 anywhere. And by suspending the market, you are
6 limiting the options in terms of what the
7 participants can do with respect to managing that
8 risk for that period of time.

9 And in a stressed market environment, I
10 think it's very important to focus on market
11 confidence and how suspension would impact it.
12 Any negative impact to market confidence would
13 only limit any further hedges or any further price
14 that the CCP can get with respect to the defaulted
15 portfolio and therefore, that's a point at which
16 you need to do anything and everything possible to
17 boost confidence, to encourage people to come back
18 to the market and provide the prices rather than
19 to stay away from the market.

20 MR. WASSERMAN: Lloyd?

21 MR. PLENTY: Yes, I was just going to
22 echo a bit what Raj and, sorry -- echo a bit what

1 Raj and Oliver said. I mean, I think we're in a
2 scenario here where clearly you've got a
3 systemically important name which is in trouble.
4 So I think one, the war room, if you want to call
5 it that, that description, should happen very
6 quickly. And I suspect that you'll have -- if
7 it's a major clearing member, you're probably
8 having the same issue across jurisdictions and
9 across CCPs maybe internationally.

10 So I think the ability to start
11 developing some sort of strategy is very
12 important. I think secondly, the ability to
13 suspend should be really one of the last resorts
14 because some of the major CCPs will have
15 quasi-monopolistic positions and therefore, what
16 are the alternatives to having that service
17 available?

18 MR. WASSERMAN: Philip?

19 MR. WHITEHURST: Thank you, Bob. Yeah,
20 and I think I'd echo what a lot of people have
21 said so far. I think you might be suspending
22 lifelines if you're going to suspend clearing.

1 And I think another point to raise more generally
2 about timing is also one of materiality which is
3 to say, obviously, again, context. We're in
4 places; we don't want to be here. But the VM gain
5 haircutting can initially be relatively small in
6 scale and the question again would be, well, what
7 is the circumstance that we're in and if there are
8 relatively modest amounts of haircutting going on,
9 is that grounds for closing the services?

10 We would describe wind-down as closing
11 the service, tearing up all the contracts. So
12 again, that's whether it's purely a time-bound
13 issue or whether it's also a scaling of how much
14 haircutting is going on, that, to me, would also
15 seem to be a relevant thing to be accounting for.

16 MR. WASSERMAN: Kevin?

17 MR. MCCLEAR: I started so maybe I'm
18 going to finish. So I just wanted to make it
19 clear, when we recommend a suspension, we
20 recommend that it's the absolutely very last step.
21 I mean, we advocate, wholly support, I agree with
22 everybody. You have to run through the plan

1 recovery process including variation margin gains
2 haircutting.

3 But before the point of the vari --
4 which is the termination of clearing by the
5 clearinghouse where we do the complete tear up of
6 all the contracts, we don't think it hurts to have
7 a short one, two day suspension to sit around the
8 table, as I say, to talk about is there any last
9 step that can be taken to save the clearinghouse.

10 MR. WASSERMAN: So let me follow up on
11 that because on the one hand I think again, and
12 I'll confess, my prejudice is that humans needs
13 measurable time to act in terms of at least hours
14 and preferably days just simply to deal with
15 unprecedented situations.

16 On the other hand, it could be argued,
17 well, look. Yeah, you can do that but you can
18 continue paying and collecting albeit subject to
19 haircuts. But let me put a different issue on the
20 table that I've heard mentioned elsewhere and I'd
21 like to get the views of the folks here which is
22 what are the risks of doing that? Of delaying

1 wind-down? I'm now looking at this from the other
2 perspective and saying, I've said a few minutes
3 ago, gosh, we really need to allow time for things
4 to act. But what is the cost we're paying in
5 terms of risk, in terms of systemic risks?

6 And so, if we have an arrangement where
7 we have, whether it's a suspension, whether it's
8 variation margin gains haircutting, and, Phil,
9 you'd say, well, if it's not too much that's fine.
10 But how do we know what is too much and maybe it
11 is? So are folks concerned about systemic risk of
12 during those couple of days or however long we
13 have for that building up?

14 Oliver?

15 MR. FRANKEL: And you mean, in that
16 period no more trading and no -- or does trading
17 continue, I mean, clearing continue?

18 MR. WASSERMAN: However you want to set
19 it up. In other words, by essentially having the
20 patient still on the table rather than -- well,
21 let me stop that analogy. By having the
22 clearinghouse continue to operate in this dire

1 state where it is whether suspended or it's
2 continuing to pay and collect but it's collecting
3 in full and paying in part.

4 There are those who said, gosh, during
5 that time, the clearinghouse is not going to be
6 mitigating risk but we may be afraid that it is
7 creating risk during that time. And again, I've
8 heard that in other forums and other places. I'm
9 trying to get the view from the folks sitting
10 around this table, is that something you're
11 concerned about? Do you think that's right? Do
12 you think no, actually, this is better? Where do
13 you want to go?

14 MR. FRANKEL: I mean, I certainly would
15 want to be able to flatten my positions if I
16 haven't already. I don't know I wouldn't have
17 already and if flattening my position is helpful
18 for the default management process as we hope the
19 incentives would create, albeit we've avoided the
20 situation. But in any case, I'd want to be able
21 to have the -- you know, during this period to
22 control my risk to the clearinghouse. I think

1 that's kind of critical.

2 And, by the way, if I can do that, I
3 don't see how -- if everyone can do that, I don't
4 see how keeping the clearinghouse going can be
5 anything but helpful to the system generally. I
6 don't think the clearinghouse itself can
7 contaminate the system if people are allowed to
8 control their exposures to it.

9 MR. WASSERMAN: Well, let me press just
10 one little bit more on that because -- so during
11 this time, yes, you can flatten your risk if you
12 can find someone to take the other side. But
13 again, during this time when you lose, you will be
14 called upon to pay in full. When you gain, you
15 will collect in part. But do you still feel,
16 look, that's still the best or the least worst
17 outcome?

18 MR. FRANKEL: And I presume you're
19 talking about contracts for which there is no
20 price found in the market and so, I'm still just
21 exposed to something that for which the best
22 remedy would be tear up. Good question. I mean,

1 I -- it's a good question.

2 MR. WASSERMAN: Sunil?

3 MR. CUTINHO: I just want to follow up
4 on what Oliver just said. You know, if you take
5 the case, I don't see how keeping the
6 clearinghouse clearing creates more risk because
7 if you imagine the risk management framework and
8 the things in place, at this point in time, to
9 focus would be on controlling the risks within the
10 system. We are still in a mode where there's
11 clearinghouses functioning.

12 So if you completely stop or suspend
13 markets, the risk is changing. There are other --
14 even if this particular market is broken, other
15 related markets are functioning. So when those
16 markets are changing, there is history there. If
17 you go back in time, you cannot simply shut down
18 clearing or pause it.

19 I don't think -- I think pausing
20 clearing or shutting down clearing even for a
21 brief moment in time would only increase systemic
22 risk rather than reduce it. So as Oliver pointed

1 out is you want a price discovery mechanism.
2 Clearing backs the price discovery mechanism. So
3 if you shut clearing out, where would that price
4 discovery mechanism go? So you need that price
5 discovery mechanism so that clearing may very
6 continue and will never up in that wind-down stage
7 to begin with. But if you pause it, it will
8 definitely accelerate wind-down.

9 MR. STANLEY: I see Kristen has her tag
10 up too and she may have been about to answer this
11 but I'm just getting a little confused by the sort
12 of we see on the sort of the clearing member sell
13 side and the clearinghouse side this assumption
14 that the suspension of clearing is disastrous from
15 a financial stability standpoint and that other
16 mechanisms such as bilateral trading and
17 potentially other clearinghouses cannot apparently
18 be relied on.

19 But then we see from the end user side
20 and BlackRock is certainly a major, major buy side
21 player. The perspective seems to be get me out of
22 this mess as fast as possible. Give me my money

1 and let me go handle my risk myself because I
2 don't want to be tied to a wounded entity. And I
3 think that perspective is that in normal times,
4 mutualization of risk through the clearinghouse is
5 beneficial, it helps systemic risk. But if the
6 clearinghouse itself is injured then the
7 mutualization serves as a risk-spreading mechanism
8 in some ways.

9 So I was just curious why this
10 difference in viewpoint seems so strong or maybe
11 I'm misinterpreting it.

12 MR. WASSERMAN: Let me turn to Phil for
13 a second.

14 MR. PRIOLO: I would say that assuming
15 there is sufficient information out there that you
16 know that the clearinghouse is considering
17 suspending operations, winding down, whatever that
18 might be, I would obviously not be advocating
19 further hedging on that clearinghouse.

20 We'd be talking about how we would be
21 moving positions to other exchanges if the other
22 exchanges are unaffected by these types of things.

1 So I think, I don't know how much public
2 information would be out there. I mean, if the
3 exchange was talking about a wind-down, I would
4 hope some of that information would be out there.
5 But we would be suspending trading, looking at
6 other alternatives to hedge.

7 MR. WASSERMAN: So let me separate out
8 your issues there though. Because and I think
9 others were saying, yeah, in this kind of a
10 circumstance, they would be working to
11 self-liquidate. The question here though, and
12 certainly, there's nothing right in any part of
13 this that would stop folks from basically saying,
14 you know, I really have concerns about dealing
15 with this entity.

16 I want to go to the sidelines for a
17 while and see if they can bring themselves back or
18 maybe they can't or if I can find a competitor,
19 let me go there. But the issue, what we're
20 dealing with here is not the kind of self-
21 liquidation or individualized activity that
22 participants would be taking but rather

1 essentially a service termination.

2 And so, basically, within the rules,
3 saying look, if the following happens because
4 here's the deal. Under the PFMIs you have to
5 address fully any uncovered credit loss. And so,
6 if you have enough resources great. If you don't,
7 the ultimate way of doing that is saying okay,
8 under my rules I'm going to at a certain point,
9 and what that point is what we're discussing, say
10 we're done. The contracts end here, add up all of
11 my obligations, add up all of my available
12 resources. Distribute them pro rata without
13 having to involve the bankruptcy attorneys and
14 basically fold up the tent and go.

15 And I guess you're right. I mean, I
16 think there is on some folks, not among others, a
17 view that well, to have that kind of service
18 termination would be destabilizing. And so, I
19 guess the question is when folks are thinking
20 about this from the energy space, from the
21 agriculture space, is it, in fact, destabilizing?
22 Is he all right when he's saying, wait a minute,

1 we've got these price discovery mechanisms that
2 depend upon the clearinghouse and if the
3 clearinghouse shuts down, so do those price
4 discovery mechanisms.

5 So that's really where I'm getting --
6 trying to get folks to think.

7 MR. PRIOLO: I think everything you said
8 is true. I agree with yes. It would be a
9 destabilizing if I had to wait or decide whether
10 to continue to hedge on that exchange or someplace
11 else. A suspension would be, I think, far more
12 destabilizing.

13 MR. WASSERMAN: And termination?

14 MR. PRIOLO: Well termination leaves me
15 then with I need another option to hedge, right?
16 So then I'm assuming there are other exchanges
17 that are available to be able to do that. If not,
18 then we have a bigger issue, I think, right?

19 I mean, I spoke to Sunil at lunch and we
20 keep talking about all of these events that are
21 happening and there are probably other things
22 going on in the world besides what we're talking

1 about here that are going to be pretty
2 destabilizing to the world itself. These events
3 are, as I said before, doomsday events so I would
4 say we probably have a lot of other things to
5 worry about too and if I have no place to hedge
6 any of my generation, I'm a physical energy
7 supplier.

8 So I have ISOs that I can sell that to.
9 I can take it to the spot market. I would be
10 unhedged.

11 MR. WASSERMAN: Tom?

12 MR. KADLEC: Yeah, I think the answer it
13 depends. And whatever the confidence, I think
14 Tracey mentioned it. Confidence in the
15 marketplace however we get to a confident, a more
16 confident place in the market, we have to use
17 those tools.

18 There was a suspension of trading after
19 9/11 for four days if I remember correctly. That
20 brought some stability, people to get organized
21 and garner some confidence.

22 So I would -- I think it's a tool that

1 you should use. I don't think it's a prominent
2 tool, Kevin, I think but the pause should be
3 considered and it can be used in a variety
4 instances. The most important thing for a hedger
5 is continuity of markets and however we can
6 continue that continuity is what I would look for
7 to support our customers.

8 MR. WASSERMAN: Kristen?

9 MS. WALTERS: Thank you. So I think
10 what I would just say just to your point earlier,
11 I think the reason -- so the view of BlackRock, so
12 we actually don't have any of our money or any
13 skin in the game whatsoever. We're entirely
14 acting on behalf of our clients as fiduciary.

15 So when we talk about kind of money good
16 versus position good, as a fiduciary that's the
17 really, the only answer. And we tend to think
18 that in a crisis situation that end investors will
19 want money good and they will not want to have
20 positions outstanding that could risk additional
21 losses.

22 What I would say that I didn't mention

1 previously is or I should have mentioned is that
2 so we are without equivocation complete supporters
3 of central clearing. So we think it is absolutely
4 a stabilizer of markets. It's good for
5 transparency, loss distribution, collateral. So
6 the points that I'm making is really just in the
7 context of after there's been it's kind of the
8 point of no return for a CCP where they've
9 literally exhausted the financial resources that
10 they have.

11 And in that case, we think that the
12 liquidation is a good one. I just wanted to note
13 that the decision of when to do that, I think the
14 regulatory bodies should be making that decision
15 or be involved in that dialogue because they
16 physically are overseeing the activities of the
17 CCPs. So certainly there needs to be an ongoing
18 dialogue.

19 And once that decision has been made,
20 then the appropriate regulatory body should be
21 brought in to actually affect the orderly
22 wind-down.

1 MR. WASSERMAN: So I should note, I
2 mean, as a regulator as I sort of alluded to
3 earlier, a CCP, DCO in this position is going to
4 be under-resourced, is going to be then in
5 violation of the resource requirements and we
6 would always have the ability to essentially bring
7 them to that wind-down. I don't know that we
8 would have the ability to do the reverse. To say
9 no you can't.

10 MS. WALTERS: Oh, no, I'm sorry. I was
11 basically saying that the point of kind of no
12 return where a CCP doesn't have sufficient
13 financial resources, so it's basically utilized
14 all of its loss absorbing capabilities. At that
15 point, we think that a regulator would be best
16 placed to work with the CCP to determine when the
17 wind-down, when that actual point occurs.

18 MR. WASSERMAN: Sunil?

19 MR. CUTINHO: Bob, I just want to make a
20 point of clarification. I think we talk about
21 suspension and wind-down. We look at them as two
22 different things. When you mentioned suspension

1 or when suspension was mentioned, it is occurring
2 some time before wind-down. And wind-down, when
3 we think of wind-down, it has to be orderly.
4 Orderly is the operative word here, right?

5 It's orderly wind-down. Suspension does
6 not make it orderly especially in certain
7 situations when a lot of firms have failed and
8 there are markets that are functioning and then,
9 there are markets that are not functioning. So
10 when there are functioning markets and the CCP can
11 clear those markets through mechanisms we have
12 spoken about, then if a decision is made to
13 suspend just for pure reason that we need time, I
14 don't think that is confidence boosting for the
15 markets.

16 And it'll actually accelerate the
17 wind-down or it'll make it a disruptive wind-down.
18 So that's the point we were making.

19 MR. WASSERMAN: Raj?

20 MS. RAMANATH: I was actually going to
21 step back to some of the points that Phillip and
22 Tom made with regards to there being an alternate

1 market where they can go out and hedge trades. I
2 think if the kind of scenario that we are talking
3 about is where the two, three or four largest
4 members have failed, and when you look at the
5 large members, they are probably the largest
6 members across multiple CCPs. And therefore, it's
7 unrealistic to assume that the problem is
8 associated only with one CCP is one jurisdiction.

9 The problem is more likely going to be
10 more widespread than that. And therefore, I don't
11 think it's an automatic assumption that the
12 problem is there at one CCP but all the other
13 markets are working fine and there's no issue
14 anywhere else at all. So I would caution against
15 assuming that there are other markets where you
16 can go and easily get the hedges. I think the
17 stress of the market is going to be far more
18 widespread than that.

19 MR. WASSERMAN: And so, while I --
20 certainly your conclusion resonates. Let me just
21 press you on one point. I think it is almost
22 certainly the case and pretty much certainly the

1 case that if a financial institution defaults to
2 one clearinghouse, it and most likely all of its
3 affiliates will promptly be in default to every
4 other clearinghouse of which it is a participant.

5 That is a separate question, though,
6 from what impact that default across all of those
7 CCPs will have on the default resources. In some
8 cases, it may have a very large exposure, in other
9 cases a much smaller exposure. In some cases, it
10 might even be positive. So I think are we on the
11 same page that you're not necessarily going to
12 have challenges to the default resources even
13 though I think your point, your ultimate
14 conclusion is right that you can't count on the
15 markets working well.

16 MS. RAMANATH: I would agree to some
17 extent and that the impact of one member across
18 different CCPs would be different. But then, when
19 I think of a scenario like this, I'm not thinking
20 of one member defaulting but I'm thinking of
21 multiple members defaulting. Because you're
22 already blowing through something like cover 5 or

1 cover 6 kind of resources. And that's not the
2 level of stress that's brought by one member.

3 And where you have multiple members
4 defaulting, chances are the problem is much
5 bigger. That's all.

6 MR. WASSERMAN: Although, I mean, I
7 think and as I mentioned there will be work
8 elsewhere on stress testing but while it is
9 certainly the goal that the stress testing ex ante
10 is rigorous and that, in fact, your calculation of
11 extreme but plausible is rigorous and accurate, it
12 is also possible that even with the best of
13 intentions and the most diligent of activity, you
14 turn out to be wrong and you lose one member whose
15 exposures than anyone ever predicted. So at which
16 point you have the whole domino.

17 MS. RAMANATH: I would agree with that
18 in terms of --

19 MR. WASSERMAN: Philip?

20 MR. WHITEHURST: Okay. I think one way
21 of looking at this is kind of what is the far side
22 of wind-down. And I think the far side of

1 wind-down is that everybody who is clearing now
2 has the open position which that used to be in
3 clearing. And then, it seems to come down to a
4 function of choice which is to say, that no longer
5 does any participant have a choice. So everybody
6 now has an open position that used to be either a
7 hedge or they deliberately had that position.

8 They now need to reestablish that.
9 We've talked about the context. It's probably a
10 broken marketplace and it seems like a whole lot
11 of chaotic activity driven out of marketplace
12 which is in a very bad state. And again, we come
13 back to the ex ante rules and recovery rules that
14 we have with putting incentives in place, putting
15 people in a position where they understand what it
16 means while they have a choice to potentially
17 reduce their positions.

18 We heard about IM. We heard about VM
19 haircutting but certainly if you're targeting the
20 people who can help the CCP to the extent the CCP
21 is in this distressed state, again, it feeds back
22 to that. If the opposite is well, we've all now

1 got an open position and we've all got to dive
2 into a marketplace that's really struggling and
3 try to find each other again where you could have
4 kept some cohesion by having a lot of the matches
5 that already exist and not forcing those to be
6 dislocated.

7 MR. WASSERMAN: Marcus?

8 MR. STANLEY: Well, first of all, it
9 seems to me that you could design a process by
10 which the clearinghouse, in the course of winding
11 down, could act more or less as a matchmaker
12 between its members to sort of address this
13 problem, this chaotic problem.

14 I mean, the portion of the clearinghouse
15 book that is matched, the clearinghouse knows
16 different counterparties that are on each side and
17 could set up a process to essentially inform them
18 of the interest on the other side and make that
19 process much more orderly. In fact, one of the
20 people that we work with at AFR, I had an
21 organization called VMAC and took out several
22 patents around designing precisely such a process.

1 I can show them to you if you're interested.

2 But the second question I had is what --
3 are we clear about what wind-down brings to the
4 table that the clearinghouse cannot already do? I
5 mean, it seems to me that this morning -- what
6 normally a bankruptcy process does is it lets you
7 abrogate contractual rights. But this morning we
8 were talking about taking people's margin away,
9 doing complete tear ups. It seems like within the
10 clearinghouse process, there were lots of options
11 that we could give to the clearinghouse to change
12 those contracts.

13 And so, I'm curious what new thing
14 wind-down brings? Because I don't think we can
15 assume that it brings public or government
16 liquidity support. I think there's a lot of
17 problems with that.

18 MR. WASSERMAN: Absolutely. Although,
19 from a definitional perspective, what we're
20 talking about is not abrogating contractual
21 rights. Rather the clearinghouse rules are part
22 of the contract.

1 MR. STANLEY: Right, exactly.

2 MR. WASSERMAN: And 99.99, you know,
3 many, many 9s percent of the time, indeed to the
4 present, 100 percent of the time, they operate in
5 the gains or the gains and losses work just fine.
6 Rather service termination -- you know, wind-down
7 to service termination; I'm going to go in a
8 moment to wind-down for transfer which Raj started
9 us with.

10 But wind-down for service termination is
11 basically saying that under the contract, these
12 circumstances basically mean that we're going to
13 terminate. That essentially, as I said, all --
14 there will be no future gains or losses. We will
15 be tearing everything up from this point onward
16 and for this point -- from this point backward,
17 we're going to do a mark to market and what the
18 clearinghouse's obligation is is to pay out pro
19 rata the gains. And then, we put aside issues of
20 well, what happens to the eventual recovery. So
21 and ending things. But did you?

22 MR. STANLEY: And so, I guess just

1 rephrasing it was if the clearinghouse -- if it's
2 part of the initial contract with the
3 clearinghouse that it could move all the way to
4 complete tear up, what are we -- what new right
5 are we bringing given that so many rights are
6 involved?

7 MR. WASSERMAN: No. Rather this is
8 essentially the exercise of that right basic --
9 because under the circumstances there is no
10 alternative. And so, I'm going to call on Sunil
11 and the next -- I think I do want to talk a little
12 bit about transfer and then, ultimately, I'm going
13 to want to get to voluntary recapitalization. But
14 let me go to Sunil.

15 MR. CUTINHO: Actually you said most of
16 what I was going to say which is --

17 MR. GIANCARLO: Sorry.

18 MR. CUTINHO: -- wind-down for service
19 termination because I think it's not right that when
20 you terminate all the contracts and you wind-down
21 there is -- clients still have exposure in there to
22 recreate them. That wouldn't be the case if you're

1 terminating the service. That's essentially my point.

2 MR. WASSERMAN: Well, yeah, I mean, I
3 think -- but the point is that the good news is
4 you will have no further exposure to the now wound
5 down clearinghouse. The bad news is your ability
6 to reestablish your hedges is going to be
7 questionable at best and you know, as some folks
8 have said, the marketplace is likely to be less
9 hospitable than it was yesterday. And so, that is
10 the problem with wind-down.

11 MR. CUTINHO: But under these
12 circumstances, isn't the best thing to give people
13 their money back? I mean, money --

14 MR. WASSERMAN: Oh, yes.

15 MR. CUTINHO: -- good versus position
16 good. I mean, this is --

17 MR. WASSERMAN: I think the question is
18 it may well be, right, that essentially if you
19 have no other alternative, then essentially going
20 to service termination is what you do. And the
21 question, I guess, which thank you for segueing
22 into, is are there ways to avoid that?

1 So in other words, the clearinghouse,
2 under its current incarnation has failed. And so,
3 one way of doing that, and Raj pointed out very
4 early in this session that the PFMI's say, well,
5 you should -- we need you to look to service
6 continuity. And so, one way to achieve service
7 continuity is transfer. And so, I guess the
8 question is what are the ways that that can be
9 fostered?

10 Remembering that part of the evaluation,
11 for instance, under Title VIII for systemic
12 importance for financial market utility is the
13 lack of availability of alternatives. And so, are
14 there ways to ex ante, build in, some things that
15 will foster transfer?

16 Raj?

17 MS. RAMANATH: I want to go back to one
18 of the statements I made earlier on in terms --
19 I'd go back to the statement I made earlier on in
20 terms of there being prefunded resources, which
21 are set aside for use solely in the context of
22 resolution primarily because you do not want CCP,

1 which is systemically important, to stop providing
2 the service that it has been providing purely
3 because of the destabilizing impact that it would
4 lead to and the way we envisage something of that
5 nature happening is by ensuring there are -- in
6 concept it's similar to the bail-inable debt that
7 a bank raises, that there is a certain amount of
8 resource which is being held by a trust entity,
9 which can be used to the extent that you see that
10 the recovery process at the CCP is not going to
11 lead to its continuity.

12 You might return to a balanced book, but
13 you might not have the resources to reopen the CCP
14 on the next day and in such a scenario the way you
15 would see is you would transfer the key services,
16 the critical services of the CCP to a bridge
17 entity, which -- and that bridge entity would
18 essentially be capitalized by the recapitalization
19 resources, which are being set aside for --
20 explicitly for this particular purpose.

21 And to the extent that the continuity of
22 the services being managed because of these

1 resources, you would see a change in the ownership
2 and the management of the entity to make sure that
3 there's continuity.

4 MR. WASSERMAN: So, outside of a
5 resolution process where you would indeed
6 certainly have a transfer of control, but
7 remember, we cannot -- that's outside of the scope
8 for today, so how would you, as part of a recovery
9 process, a process, that is to say, that works
10 within the existing rules or the rules to be
11 established, you know, in peacetime, of the CCP,
12 how would you establish that bridge entity? I
13 mean, I can sort of see how you might
14 theoretically prefund, again, a -- what might
15 otherwise happen through assessments, but how do
16 you have that transfer of ownership and control?

17 MS. RAMANATH: I think one of the
18 reasons why we speak about the transfer of
19 ownership happening in the course of resolution is
20 because we feel that needs to be significant
21 regulatory oversight in terms of how the process
22 works by itself.

1 To the extent that there's change in
2 ownership and management, that is to be mandated;
3 to the extent that there is a decision in terms of
4 what services are deemed to be critical, what
5 needs to get transferred, we feel that there needs
6 to be significant regulatory intervention, which
7 is the reason why we believe that that's probably
8 a process that would happen as a part of
9 resolution rather than a recovery because the way
10 we see a recovery too, we see it as resources and
11 tools available to the current CCP management and
12 the challenge over here as you've already provided
13 the entire layer of waterfall all the recovery
14 tools that are possible to the CCP management, and
15 that still hasn't been enough, which is why we are
16 looking for a change in ownership and management.

17 MR. WASSERMAN: Sunil?

18 MR. CUTINHO: I think we have to figure
19 out what problem you're trying to solve. If the
20 problem you're trying to solve is making capital
21 available so that the system recovers, then as we
22 spoke before, Raj mentioned, there's five or more

1 of the largest institutions -- global institutions
2 have failed causing this large distress in the
3 market, exhausting everything.

4 When institutions fail, their
5 assessments are not available. So, if the whole
6 idea is, you know, let's get some of those
7 assessments ahead of time in peacetime and keep
8 them somewhere. The best place to keep them is in
9 the waterfall because we all want this -- we just
10 concluded -- I mean, I'm seeing this reiterated
11 again and again as recovery is much better.

12 So, if those funds are available in the
13 waterfall when these institutions fail, then you
14 have greater chances of recovery because you're
15 not bleeding through the mutualized pool. At that
16 point in time, all those funds are available.
17 Those are defaulters' funds. They are available
18 not only to help in the default management of the
19 -- or to bring a matched book, but imagine we are
20 porting clients and there could be shortfalls. We
21 don't know what the situation is going to be. In
22 those situations, capital at hand is very

1 important to cure any losses, any deficits.

2 So, having them remote I don't think is
3 a mechanism to help recovery. That's basically
4 the point we're making.

5 The second thing is that if the problem
6 is, okay, we need to do a transfer of service and
7 you just pointed out there are no other service
8 providers available but there are no other
9 clearing options available, but what ex ante
10 mechanisms can be put in place to have an orderly
11 transition of service? Again, the question comes
12 to, are those markets functioning? And those
13 markets, you know -- and is the CCP as a going
14 concern important for the market?

15 So, we just talked about mechanisms to
16 keep functioning markets going and allowing more
17 capital to come in. So, when markets are broken
18 and you tear up everything, and you want to
19 restart, it's almost like restarting a new fund.
20 At that point in time, capital will come in and
21 you can make decisions about equity ownership and
22 things like that, but I don't understand why it is

1 important to -- at that point in time you have
2 terminated everything and we are restarting,
3 what's the -- what problem are we solving by
4 trying to get a prearranged transfer, so to speak,
5 which is your question.

6 MR. WASSERMAN: Well, let me press you
7 just for a moment on that first point. And so
8 what I heard you saying is -- and tell me if I'm
9 getting it wrong -- rather than having those
10 additional prefunded resources outside, it would
11 be better to have them inside --

12 MR. CUTINHO: Yes, in the waterfall.

13 MR. WASSERMAN: -- taking that as a
14 given, are you suggesting something along the
15 lines of cover two plus something?

16 MR. CUTINHO: Yes, not for every
17 institution. You know, we have something called
18 concentration margin, we spoke about it, it could
19 build upon this idea of concentration margin.
20 Concentration margin is meant to target, you know,
21 those entities that present concentration risks,
22 so you want to make sure that there is enough

1 collateral to cover that.

2 There are other forms of concentration
3 in the market, maybe the percentage of clients
4 that are being cleared or how systemically
5 important an institution is, all kinds of other
6 risks that an institution's failure can present to
7 a market.

8 So, if the intent is, okay, if these
9 large institutions fail and they affect multiple
10 CCPs, then -- and their assessments are not
11 available, then that capital or that assessment,
12 might be a percentage of them, can be prefunded.
13 They don't have to be used. They can be used in
14 the right order. But if those institutions fail,
15 you have that assessment at your disposal. This
16 is not applied universally to every clearing
17 member because you want to create an incentive
18 effect. The incentive effect you are creating is
19 to avoid the problem in the first place, so if an
20 institution gets large and -- or has large
21 concentration, just like concentration margin, you
22 are providing an incentive for that institution to

1 bring down its risks so it can reduce its costs.

2 So, you can avoid getting to this place
3 -- avoid getting to the end of the world in the
4 first place.

5 MR. WASSERMAN: So, what I'm hearing you
6 say is that those folks who would have to prefund
7 assessments, then, would be those who create the
8 largest exposure --

9 MR. CUTINHO: Yes.

10 MR. WASSERMAN: -- basically, I mean,
11 let's be honest, right, your largest clearing
12 members --

13 MR. CUTINHO: Yes.

14 MR. WASSERMAN: -- so, if we were
15 sitting over there --

16 MR. CUTINHO: Yes.

17 MR. WASSERMAN: -- would be the ones who
18 would prefund --

19 MR. CUTINHO: Yes.

20 MR. WASSERMAN: -- not because of any
21 particular credit risk today, but because in some
22 hypothetical, systemic stress circumstance, they

1 are the ones who would create the greatest stress?

2 MR. CUTINHO: Correct. And that is --
3 yes, and we are bringing this up only as an
4 alternate -- if we think that these institutions
5 are the ones that cannot pay their assessments and
6 things like that, so when they fail, you cannot
7 pay your assessments. So, if this is a big -- we
8 think cover two is a good model, it covers a lot
9 of risk and of course you are saying we'll have
10 something about stress tests, and we just spoke
11 about it as far as the context is concerned, we
12 are confident that the current safeguards package
13 covers a lot of risk and clearing has proven that
14 through the financial crisis as well.

15 But if there is a big concern still
16 about risk to CCPs, let's understand where those
17 sources of risk come from and let's address them
18 in a targeted way rather than the alternate that's
19 being proposed.

20 MR. WASSERMAN: I'm going to recognize
21 Kristen and then I would really like to move to
22 the last question, which is the alternative to

1 transfer and that is recapitalization. So,
2 Kristen?

3 MS. WALTERS: Just a few quick points.
4 So, I think the clearing process was very well
5 tested during the financial crisis. I do think
6 that at that time the products were simpler than
7 they are today and there wasn't as much
8 concentration of risk in large CCPs just even the
9 fact that the bilateral markets, I think were at
10 like 30 percent of activity versus more than
11 two-thirds today. I think the assessment layer or
12 the concept of contingent liabilities would be
13 best replaced entirely by fully prefunded
14 resources set aside.

15 And then I just -- I could not have said
16 it as eloquently, Raj, but I agree 1000 percent
17 with all of the comments that Raj made around
18 resolution, prefunded, recapitalization resources
19 held in escrow or trust, bridge organization, and
20 new management to essentially leverage the
21 operational infrastructure of a failed CCP. So,
22 just, on the record, everything that she said, I

1 would agree with whole-heartedly.

2 MR. WASSERMAN: Well, that gives me a
3 nice segue because -- so, when you're talking
4 about change in ownership, I mean, again, from my
5 days more years ago than I care to admit, in
6 insolvency -- insolvency legal work, not personal
7 -- essentially what we're dealing with, you know,
8 new value is what brings ownership is what brings
9 control. Essentially what we're talking about is
10 sort of a workout. And so, again, isn't this the
11 way to deal with the fact that on the one hand
12 your requirements may exceed the available
13 resources, on the other hand, we can't make those
14 requirements unlimited as commitments, but on the
15 other hand, folks can come in voluntarily.

16 How do we foster that? How do we
17 structure that so that essentially the kind of
18 change of ownership and control and concomitant
19 new value can best be fostered and remembering
20 that we may have limited time in doing that? So,
21 Raj?

22 MS. RAMANATH: Sure. So, I completely

1 buy your point about replenishments being
2 voluntary and that members should have the ability
3 to bring in those funds. I think considering the
4 environment that we're facing where you've had
5 multiple defaults, market is stressed out. The
6 question is, do participants have the ability --
7 have they planned sufficiently in advance to be
8 able to provide that kind of capital up front?
9 And even if we look at the current assessment
10 requirements and the capitalization requirements
11 around assessments, I don't think any of us are
12 required to capitalize any of the assessment
13 calls.

14 Some of us may do that in a prudential
15 manner to make sure that we have the balance sheet
16 strength to withstand that hit, but to the extent
17 that there are participants who do not capitalize
18 the assessments, even though there might be a
19 willingness and a desire to participate and to
20 contribute initial capital at that point in time,
21 that ability to contribute might not be there,
22 which is one of the reasons why we feel that, to a

1 large extent, a certain portion of resources needs
2 to be set aside for a rainy day such as this.

3 And to clarify, we're not saying that --
4 we are not trying to take away anything from the
5 waterfall or anything from the recovery resources
6 that are there. The CCP already has the ability
7 to call for those resources to the extent if you
8 are more than covered to what's required or to the
9 extent that if additional charges need to be
10 levied by way of concentration margin, additional
11 charges need to be levied by prefunding of
12 assessments, those are rights that are already
13 available and we are getting to this point only
14 because all that planning has not been sufficient.

15 And when such large resources have
16 vanished and it hasn't been sufficient to prop up
17 the CCP, it's hard to imagine that at that point
18 in time, members have the financial strength
19 managing the stress to still contribute additional
20 funds at that point in time. You are much better
21 off planning for it in peacetime than trying to
22 pull in those resources during the wartime kind of

1 a scenario.

2 MR. WASSERMAN: So, let me see if I can
3 press you just a little bit on that. So,
4 essentially the waterfall is whatever is defined,
5 I mean, agreeing, as I think we do, that whatever
6 it is, it has to be very clearly defined ex ante.
7 For instance, you could have a waterfall with
8 assessment powers of 200 percent or 300 percent.
9 Either one of them, you know, fits the bill in
10 terms of being manageable, controllable. Okay.

11 What I think I hear you saying is, well,
12 maybe instead of having a waterfall of 300
13 percent, and obviously those numbers I'm pulling
14 somewhat out of the air, you would instead have a
15 waterfall with 200 percent and then a 100 percent,
16 again, of the prefunded -- the otherwise prefunded
17 default contribution, would be held separately
18 behind some figurative glass that would, once you
19 run out of all the other resources, be broken.
20 And then do I further hear you -- understand you
21 to say, and by the way, if we get to that point,
22 then there's going to be a change of ownership and

1 that essentially the new value in question is a
2 prefunded 100 percent of the default fund, which
3 then, once you have to go there, is what flips the
4 ownership control? Is that where you're going?

5 MS. RAMANATH: Kind of except that I
6 would clarify that I'm not suggesting that we take
7 away that 100 percent assessment -- 100 percent of
8 resources coming out of the assessment of the
9 clearinghouse. The clearinghouse has the right to
10 right-size the resources, be it the funded
11 guaranty fund or the assessment, and to the extent
12 that it's being right-sized, it's being driven by
13 stresses that are going to be discussed and
14 decided. We think the clearinghouse has an
15 absolute right to call for that and we are saying,
16 independent of all the rights that the
17 clearinghouse has, let us also set aside a certain
18 amount of resources to be able to provide for a
19 rainy day.

20 MR. WASSERMAN: Sunil and then Kristen.

21 MR. CUTINHO: Let's look at a few things
22 and let's look at where we came from. At one

1 point in time, you know, assessments were un-kept
2 and there were multiple calls. We recognize and
3 we accept the fact that you can't have unlimited
4 liabilities for a clearing member. It needs to be
5 transparent, ex ante, and so they can plan for it.

6 It is also a part of the credit review
7 that you would perform on your counterparties,
8 their ability to make assessment payments, their
9 wherewithal.

10 But if we have a structure where there
11 is capital sitting outside and then, you know,
12 getting to that capital will change the ownership
13 of the institution then what incentive do market
14 participants have to actually make sure that they
15 bid in the auctions, they participate in the
16 auctions?

17 So, you're looking at capped liabilities
18 on one hand and ownership of equity on another.
19 So, that is what we have to take into account.
20 So, it's important to take into account incentive
21 effects of these structures.

22 We spoke about the value of having

1 capital in the system versus outside the system
2 from a default management perspective, but from an
3 incentive perspective also. You know, it's
4 important to keep in mind that having capital
5 outside that will give you equity ownership of an
6 institution also acts as an incentive. So, that
7 is what we should look out for when structures
8 like this are proposed.

9 MR. WASSERMAN: So, let me make sure I'm
10 understanding where you're going with this. What
11 I think I hear you saying is that if we create
12 this sort of prefunded recapitalization fund,
13 which would have the attribute of change of
14 ownership, again, we've talked in many contexts
15 about incentives, this would be creating an
16 incentive for clearing members to defect from the
17 auction and basically an incentive for them to let
18 the auction fail and then -- so that ownership
19 would then flip over?

20 MR. CUTINHO: It all depends on the
21 value you're getting in two perspectives, yes.
22 So, that should be taken into account. Yeah.

1 MR. WASSERMAN: Although, is there a
2 limit to that in the sense that in order -- you
3 know, again, this would be very strategic
4 behavior, but it's possible, but in order to do
5 that, they would have to be going through all of
6 the prefunded -- all of the prefunded and
7 committed resources --

8 MR. CUTINHO: Correct.

9 MR. WASSERMAN: -- to get to this last
10 point, so that strategic behavior would be far
11 from free. It would get them control of the
12 clearinghouse --

13 MR. CUTINHO: Yes.

14 MR. WASSERMAN: -- but at a --

15 MR. CUTINHO: Price.

16 MR. WASSERMAN: -- substantial cost.

17 MR. CUTINHO: Yes.

18 MR. WASSERMAN: And so, I guess on
19 question though is, you know, if in doing this,
20 are we -- I've been hearing a lot in other
21 contexts, particularly around a leverage ratio, of
22 cost of clearing and that essentially we are doing

1 things in various contexts that are having the
2 effect of making it very difficult for firms, both
3 large and especially small, to participate in
4 clearing. And so, if we add to the amount of
5 prefunded resources, are we not perhaps fostering
6 that very same cycle of making it difficult to
7 clear? Oliver?

8 MR. FRANKEL: Yes, we are. I will agree
9 with Sunil's point that -- I mean, suppose we're
10 in recovery and there is -- once you're in
11 recovery you've spent all the default funds and
12 assessment rights, and so, you're still relying on
13 default management to work if in fact the end game
14 were to take ownership, the cost there would be
15 free, because the default funds and assessment
16 rights would be sunk cost -- the assessment rights
17 would be a sunk cost at that point, so I think
18 Sunil's point on changing the incentives is the
19 right one and it's a worrisome one. You really
20 want recovery to work.

21 This wind-down issue can be handled in
22 many ways. It's very much remote. Recovery is

1 terribly remote. This is more remote than that.
2 You don't want anything to compromise the effects
3 and thus we are hoping and designing for recovery.

4 On the point about general costs, you
5 know, prefunding assessment rights or other
6 contributions, it would be very expensive. The
7 chances of any of these things happening is
8 extremely remote, by design, you know, I think the
9 (inaudible) talked about probability of exhausting
10 resources to be once every 550 years in any CCP,
11 it's an extraordinarily remote thing that we're
12 talking about. So, prefunding for that seems
13 unnecessary.

14 Certainly at all CCPs, I think FIA --
15 I'm sure -- FIA is proposing -- is sympathetic to
16 the issue and is proposing that clearing members
17 are required by their regulators to provide in
18 capital for two or three potential assessment
19 rights at any time to strengthen the assessment
20 rights. I think that's a reasonable and
21 cost-effective way of providing more confidence
22 that the assessments will be forthcoming.

1 MR. WASSERMAN: So, you want to change
2 Basel 282?

3 MR. FRANKEL: Yes, yes. We made the
4 same point to other -- but it may not be so much
5 on Basel. If for the bank clearing numbers, yes,
6 but also for the CFTC clearing members they need
7 to -- in the computation of adjusting that capital
8 and so on.

9 MR. WASSERMAN: Raj?

10 MS. RAMANATH: I was actually going to
11 respond to the point around incentives and whether
12 creating this additional layer of resources would
13 really impact incentives to -- in terms of auction
14 behavior. So, I would completely second the point
15 that you made in terms of the size of resources
16 that need to be lost before the ownership
17 structure itself would change, and that, itself,
18 would act as a disincentive for members to get to
19 that point.

20 I don't think the point is for members
21 to -- for participants to get some kind of
22 ownership. I don't think members are looking to

1 get ownership in CCPs. All that members are
2 saying is to the extent that resources are being
3 used, be it in recovery or in resolution, there
4 needs to be compensation and the compensation has
5 to -- in recovery we spoke about compensation as
6 coming in by way of not just recourse to the
7 defaulted members -- recoveries from the estate of
8 the defaulted members, but also by way of recourse
9 to future earnings of the clearinghouse.

10 And depending upon the level of earnings
11 of the clearinghouse, it might not even be
12 earnings, but it could be some kind of a debt or
13 equity instrument. So, the change in ownership
14 profile can occur even in a recovery phase, but
15 that does not mean people are looking to get to
16 the recovery phase as a reason to participate in
17 the auction and therefore I don't think that just
18 the change in ownership is reason for participants
19 to wait to get to that point before providing the
20 right bids. It doesn't impact incentives.

21 MR. WASSERMAN: Kristen?

22 MS. WALTERS: I agree, again, with what

1 Raj said. I would also say that -- so, the
2 purpose of the prefunded recapitalization
3 resources that are held separately is basically at
4 a foundational level it's there to promote
5 continuity of service. So, the reason that you
6 actually would resolve the failed CCP, create the
7 bridge organization, have a change in ownership is
8 because, invariably, there is likely a failure in
9 risk management at the failed CCP and given that a
10 CCP is, by definition, a risk management
11 organization, the new entity is basically there to
12 provide confidence to -- so, you have to have
13 sufficient funds to actually recapitalize the
14 entity and hopefully once you've stabilized with
15 the operations of the existing or the preexisting
16 entity and the new risk management ownership that
17 you would have more voluntary contribution.

18 The last thing I would say is, you know,
19 the other alternative around this continuity of
20 service concept is making sure, again, that we
21 don't -- that there are more than one CCP
22 available for all of these products, so the

1 concept of mandatory clearing without more than
2 one CCP is difficult because if you had that, we
3 wouldn't have to be talking about these issues
4 about resolution, you'd simply report your
5 positions to another CCP, which is something that
6 happens with FCMs in the futures market all the
7 time.

8 So, I think, if I'm not mistaken,
9 because we might have situations where we have
10 only one CCP clearing a certain product, that you
11 have to go into resolution in order to continue
12 the service in a viable way.

13 MR. WASSERMAN: Let me press you on that
14 just for a second because -- are you saying, let's
15 say, two clearinghouses of equal capacity?
16 Because one could see that a CCP clearing a
17 particular -- you know, you've got two CCPs
18 clearing a particular product. The fact that
19 they're both clearing the same product does not
20 mean that one could necessarily absorb the other.

21 MS. WALTERS: That's correct. I'm just
22 saying that from a principles-based perspective,

1 it's difficult to mandate clearing unless there
2 are more than one CCP available. So, if you have
3 that as a foundational element, then I think it
4 mitigates some of the concerns around
5 concentration of a very small number of CCPs in
6 the market, which is one of our largest, I think,
7 concerns as a fiduciary.

8 MR. WASSERMAN: Okay, and I will
9 recognize Sunil and then Phil and then I think we
10 really will need to end this session.

11 MR. CUTINHO: Bob, I want to talk about
12 two things, first is I want to reaffirm what
13 Oliver just stated. In terms of capital and
14 assessments, we do have good rules in place and
15 the thing about cost, you know, especially
16 leverage ratio, those regulatory rules are the
17 ones that can create problems such as
18 concentration rather than solve problems that we
19 are talking about.

20 The second thing is, I want to address
21 Kristen's point. I think I've heard this a few
22 more times. There is an assumption that we'll be

1 at this place only because failure of a risk
2 management at CCP and I would like to argue
3 against that. You know, we set the context
4 before, we said more than five or six firms have
5 failed. It's an unusual market circumstance. And
6 the risks that -- the shocks that we see are far
7 in excess of what we have seen in the global
8 financial service and global financial crisis as
9 well as 1987 crash, or LTCM or all these events
10 taken together simultaneously.

11 So, if you are talking about such
12 extreme circumstances, I don't see that why it is
13 failure of risk management of a CCP that will
14 bring us to this place. We are at this place
15 because we have exhausted -- there are firms that
16 have defaulted and as these firms have defaulted,
17 markets have broken down and as markets have
18 broken down, we haven't been able to close out or
19 auction out some of the defaulter's positions and
20 that's what brings us to these tail type of
21 events.

22 So, I'd like to put that on the record.

1 MR. WASSERMAN: And Philip, closing
2 word?

3 MR. WHITEHURST: Yes, and I guess
4 perhaps somewhat predictably I'm going to also
5 take the view that, I think I heard it, invariably
6 a failure in risk management. You know, I think
7 that could be one of the reasons -- there could be
8 a functioning marketplace out there and the CCP is
9 failing to deal with that circumstance and losing
10 money and clearly the CCP, on a secular basis,
11 faced the consequence of that activity, but I
12 think more likely, of these implausible
13 circumstances is that there's a market failure and
14 that, I think, is difficult to lay at the door of
15 a CCP in isolation. It's more the context in
16 which, you know, that product marketplace is
17 struggling to find a level at which people want to
18 transact.

19 MR. WASSERMAN: Well, this has been an
20 excellent panel. I'd like to thank the panelists
21 again. I want to give everyone a full 15 minutes.
22 There may even be some cake left. And so we'll

1 reconvene at 3:23.

2 (Recess)

3 MR. WASSERMAN: Okay. If we can mosey
4 on back to our seats, maybe we can let us out
5 early. And as we're finishing that process I do
6 want to, by the way, put in a plug. I just last
7 night read a paper that just came out this month
8 from the Reserve Bank of Australia on CCP loss
9 allocation in transmission of risk, which has
10 some, what I found, fascinating conclusions on
11 their analysis of how they thought it will
12 generally not, based on the real data they were
13 looking at, so I commend that to folks' attention.

14 Okay. So, our fourth and last session
15 is on liquidity risk management and this tends to
16 be something -- you know, folks tend to --
17 actually, before I start though we do have one new
18 panelist, so I'd like -- John, if you could
19 introduce -- two. Yes, two new -- so, John, if
20 you could introduce yourself and --

21 MR. SAVAGE: Absolutely. I'm John
22 Savage from Exelon Corp. I work in credit risk

1 management alongside Phil, who was here earlier.

2 MR. WASSERMAN: And Suzanne?

3 MS. SPRAGUE: And I'm Suzanne Sprague
4 from CME Group. I work in the clearinghouse with
5 Sunil Cutinho.

6 MR. WASSERMAN: So, folks tend to focus
7 a lot, and quite properly so, on credit risk, but
8 an important part of the PFMIs is management of
9 liquidity risk, and as we noted before, you are
10 required not only to allocate fully all credit
11 losses, but as well to allocate all liquidity
12 shortfalls.

13 And so, liquidity risk can arise in a
14 CCP when settlement obligations are not completed
15 when due as part of the settlement process. It
16 can arise between the CCP and its participants,
17 the CCP and its settlement banks and liquidity
18 providers, or even among the CCP's participants.
19 And the manner in which losses or liquidity
20 shortfalls are allocated may affect the ability of
21 the financial system as a whole to absorb these
22 liquidity shortfalls.

1 And I should note that liquidity is of
2 particular concern to my colleagues from central
3 banks, including our own.

4 CCPs hold highly liquid securities that
5 can reliably provide liquidity on a next day
6 basis. In the event of a liquidity shortfall,
7 CCPs need to have highly reliable arrangements to
8 convert such securities to cash in the requisite
9 currencies on a same-day basis. Thus, CCPs may
10 need to use tools to provide such liquidity that
11 rely upon clearing members or subset of clearing
12 members that are well-equipped to handle such
13 demands.

14 There are concerns regarding the
15 adequacy of such tools in light of the magnitude
16 of the demand for liquidity. Moreover, there are
17 concerns regarding potential performance risk.
18 Will the clearing members meet their liquidity
19 obligations during the time of need? And,
20 importantly, systemic risk. Will forcing clearing
21 members to do so, result in damage to the broader
22 financial system?

1 The design of these tools and governance
2 arrangements regarding their use might be able to
3 mitigate these potential risks and so I'd like to
4 start by asking: What are the burdens that these
5 recovery tools, that DCOs might have, as part of
6 their recovery arrangements, for instance,
7 rule-based requirements that participants provide
8 liquidity? What are the burdens that these tools
9 may place on participants? Raj?

10 MS. RAMANATH: Thank you. In line with
11 a comment that I made earlier in the panel
12 discussions, one of the things we believe is
13 critical is that we strengthen the front end
14 system and with respect to liquidity risk
15 management, I think it does -- if the CCP is going
16 to take very high quality liquid assets, which
17 retain value throughout the cycle, and these are
18 subject to appropriate haircuts, then I think to a
19 large extent you go towards avoiding the problem
20 of liquidity risk management.

21 I think a key challenge that, as a bank,
22 we face with respect to rule-based liquidity

1 commitments is any committed facility that we are
2 required to provide comes with it very significant
3 implications in terms of RWA, in terms of
4 liquidity cost implications, leverage cost
5 implications, in addition to G-SIB requirements,
6 and all these costs, when they are rule-based
7 requirements, they are -- these costs are not
8 really reimbursed as far as members are concerned
9 because if you look at the way the rules are
10 drafted, the haircuts that apply to these
11 facilities that members are required to provide
12 are mandated by the clearinghouses.

13 So, these are not clearly market
14 negotiated. An additional issue that might crop
15 up is whether the facility is mandated on all
16 clearing members or in the interest of systemic
17 stability are they targeted at select members who
18 do have access -- who have broker-dealer
19 affiliates. And the challenge with requiring
20 facilities only from broker-dealer affiliates,
21 while it ensures that from a systemic stability
22 perspective it does not impact a certain set of

1 members, it also creates an unfair burden on those
2 members who are providing that liquidity purely
3 because they do have access to the Fed discount
4 window.

5 And clearly, any sort of liquidity
6 production during a stress environment comes with
7 a significant cost. It's not unlike assessments
8 where just as assessments are something you can't
9 predict how markets would react during a stressed
10 environment, if you are providing liquidity in a
11 stressed environment the cost of that liquidity is
12 something that you can't predict up front, which
13 is why as a firm we believe that we are much
14 better off if liquidity is planned up front and
15 depending upon whether that's cover 1 or cover 2
16 liquidity requirement, to the extent that this
17 clearinghouse determines what its liquidity
18 requirement is, and it allocates this requirement
19 by way of higher minimum cash requirements, we
20 recognize that cash has a cost associated with it
21 as compared to posting securities as collateral,
22 but at least up front we know what the costs are

1 and we are happier taking that cost up front than
2 facing an unforeseen potential cost, which arises
3 during the stressed environment.

4 MR. WASSERMAN: Suzanne?

5 MS. SPRAGUE: Sure. Thank you. There's
6 a lot to comment there and we wanted to first kind
7 of set some context around liquidity for CCPs.
8 So, we do acknowledge that in the PFMIs and the
9 jurisdictional implementations of those, there is
10 a large focus on commercially viable lines of
11 liquidity, and so we at CME do support using
12 commercially viable lines of credit in the event
13 we think we won't be able to liquify collateral
14 same day. There are a couple dynamics that are
15 happening, though, one of them speaks to the
16 costs, which Raj had mentioned, so Basel is
17 placing increased capital requirements on
18 commitments to those facilities.

19 The other really relates more to
20 jurisdictional differences and what counts as high
21 quality liquid assets. So, for example, in the
22 U.S., U.S. treasuries cannot count on their own as

1 liquid assets. There is a need there, in a lot of
2 cases, for CCPs to be able to get a little bit
3 more creative about how they will put together
4 highly reliable and prearranged funding sources to
5 support the need for liquidity for U.S. treasuries
6 as well.

7 MR. WASSERMAN: Phil?

8 MR. WHITEHURST: Thank you, Bob. Yeah,
9 so I'd certainly agree with Raj in that a lot of
10 the burden on this work needs to be done up front,
11 you need to have done your liquidity planning in
12 peacetime so that you're not looking at placing
13 stress on the membership during a stressed event.

14 I think another point I'd like to make
15 is really around assessments and just, again, on a
16 practical basis, what are the scale of those
17 assessments. So, if you just forgive me for a
18 second to talk a few numbers. If we have a member
19 of a participant with a margin requirement of,
20 say, 100 and typically you have default fund
21 contributions in the region of sort of maybe 8 to
22 12 percent of those amounts, so let's say a

1 figure in the middle is 10, in terms of the
2 assessments that we make, we typically assess once
3 there is a relatively limited erosion of a default
4 fund so you've moved into depleting default fund
5 resources, we would typically look to assess once
6 there was a 25 percent depletion just as a matter
7 of what's in our rule books.

8 So, the claim in that situation would be
9 to assess a member for three units of margin, if
10 you like, on that example, so 100 of IM, 10 of
11 default fund, 25 percent erosion, that gives you
12 three as assessment.

13 Now, if you look at the daily
14 fluctuation in the initial margin of members, even
15 off a static risk position you're typically
16 getting a similar sort of fluctuation, which is to
17 say, the 100 IM requirement will fluctuate
18 typically between sort of 95 and 105, so, again,
19 not to draw any conclusions from that, but just to
20 put some perspective when we talk about
21 assessments and the potential liquidity strain
22 that they may place on the market, it's nothing

1 that's really unusual relative to the typical
2 movement in requirements from one day to the next.

3 MR. WASSERMAN: So, I guess, are you
4 getting maybe into that -- what I had as the last
5 question, which is that the magnitude of the
6 liquidity hit is relatively small?

7 MR. WHITEHURST: Again, I'm not trying
8 to downplay that there is that requirement, but,
9 again, it's a question of scaling, I think, for
10 people who don't look at this every day maybe
11 thinking that these assessments are sort of out of
12 the blue and of an order of magnitude that aren't
13 typically experienced. It's just trying to
14 provide a bit of context for that.

15 MR. WASSERMAN: And I suppose one other
16 point to get on the record here, I think one of
17 the things I think I may have heard you suggesting
18 is, well, you know, maybe we need to look at
19 increased liquidity from maybe margin. Is there
20 any problem with having increased cash as margin?
21 Suzanne?

22 MS. SPRAGUE: I think that's a good

1 thing to consider as well, especially with the OTC
2 clearing mandate. We do have new sets of clients
3 now that are required to clear new CCPs and those
4 clients don't always necessarily have access to
5 cash or treasuries, and so if a clearinghouse is
6 to set a minimum amount of cash requirement or
7 treasury requirement, then it has a couple of
8 different effects. One of them would be that
9 oftentimes the collateral transformation would
10 happen within the clearing member itself, so if
11 the client has non cash or non U.S. Treasury
12 collateral that it's bringing to its clearing
13 member, the clearing member then would need to
14 transform that and post cash or Treasuries to the
15 clearinghouse, which could potentially result in
16 systemic risk building up in a different place in
17 the clearing member.

18 The other potential issue there is, if
19 you think about the ability for different clients
20 to be able to access different clearing members
21 and then the potential concentration of a
22 particular asset that would build up in the

1 clearinghouse, in a default scenario you would
2 have the clearinghouse -- many clearinghouses
3 around the globe going to the market to liquify
4 only one or two types of collateral, which
5 potentially could then cause another systemic
6 risk.

7 MR. WASSERMAN: And before we move on,
8 are there any issues with if the clients do post
9 cash?

10 MS. SPRAGUE: Another good point. The
11 Basel leverage ratio proposal or its final form
12 currently also does require clearing members to
13 account for their leverage exposure in terms of
14 what is on balance sheet. Under some accounting
15 standards, cash actually does sit on balance sheet
16 for clearing members that they've collected from
17 their clients. So, we have already started to
18 hear that clearing members are no longer allowing
19 their clients to give them cash, so that, again,
20 places the focus back on securities and if the
21 only choices are cash and U.S. Treasuries, then
22 that leaves only U.S. Treasuries to be used as a

1 form of margin and the liquidity requirements to
2 support the high quality liquid asset nature of
3 U.S. Treasuries would, again, probably loop back
4 to clearinghouses getting or needing higher
5 amounts of committed liquidity or needing to rely
6 more on their members for committed liquidity.

7 MR. WASSERMAN: Kevin?

8 MR. McCLEAR: Thank you. ICE maintains
9 high liquidity requirements. I'll give an example
10 with respect to ICE Clear Credit. At ICE Clear
11 Credit, we clear the credit default swaps. It's a
12 systemically important clearinghouse. Forty-five
13 percent of the margin in the guaranty fund
14 requirement is cash, 30 percent is cash and U.S.
15 Treasuries, the remaining 25 percent is U.S. cash,
16 Treasuries, and G7 currencies.

17 So, we hold a lot of cash, but we have
18 to do something with that cash. We do not like to
19 hold that cash in the settlement bank for credit
20 reasons. If the settlement bank becomes
21 insolvent, the cash can disappear. So, we invest
22 that cash overnight in reverse repos. They unwind

1 the next day so we have our liquidity but we go
2 through that cycle every day.

3 The more cash we have, the more burden
4 that places on us to find counterparties for the
5 reverse repos and we want to diversify, obviously,
6 and we see that capacity tightening up because of
7 the capital charges.

8 With respect to the U.S. Treasuries, we
9 don't require our clearing participants to provide
10 liquidity. We do have a credit facility with a
11 parent, and for instance, with respect to ICE
12 Clear Credit, 100 million of that credit facility
13 is dedicated to ICE Clear Credit, but we think
14 that with respect to the U.S. Treasuries, we
15 should have access to the Fed for liquidity
16 purposes.

17 We do not want to borrow from the Fed.
18 We're not asking for access to the discount
19 window. We just want to be able to put up our
20 securities to the Fed and get cash back for
21 liquidity purposes.

22 MR. WASSERMAN: So, on that point I

1 should note that while, first off, the PFMI do
2 not permit you to count as a liquidity resources
3 --

4 MR. McCLEAR: Nor do we --

5 MR. WASSERMAN: -- extraordinary
6 provisions of liquidity, and of course, under --
7 while ICE Clear Credit is systemic, you know,
8 under Title VIII -- 806 -- I always get confused
9 whether it's (a) or (b), is very clear that any
10 provision of liquidity would be very
11 extraordinary.

12 MR. McCLEAR: Yep. We don't think
13 that's right, but -- so, what we are doing is,
14 we're looking for committed repo counterparties,
15 but we're finding that market to be extremely
16 tight. It's difficult to get committed repo
17 facilities in place, privately negotiat4ed,
18 committed repo facilities. We continue to work on
19 it, but it's getting tougher with the capital
20 requirements.

21 MR. WASSERMAN: Bis?

22 MR. CHATTERJEE: Yeah, Bob, going back

1 to initial -- you know, how you framed it, you
2 know, the issue of magnitude of liquidity and then
3 the quality of the liquidity, I think I personally
4 feel that, you know, assuming -- you know, a lot
5 of assumptions on how we got to the stage where,
6 you know, we need to be in recovery of continuity
7 to the clearinghouse, I think, you know, going
8 back to the financial crisis and, you know, the
9 broker-dealer that went down, the challenge is, I
10 think you could have a situation where a member or
11 -- you know, when faced with a liquidity call,
12 could probably meet it with some fair amount of
13 assets it has.

14 The challenge is, if you make that call
15 very restrictive on what you can give it, say, if
16 you just say, no, I just want cash, nothing else,
17 I think you might have a situation where you could
18 actually probably create a technical or a
19 cascading default because -- you know, going back
20 to what you were saying, what if it's only cash
21 and why do we rely on cash? And I think that's
22 maybe in the due course of business, normal course

1 of operations, normal course of like, you know, a
2 margin being posted, whether it's an initial
3 margin, variation margin, guaranty fund
4 contributions, it's okay to rely on cash and --
5 you know, or very liquid securities or high
6 quality, rather, I'd say, like treasuries. In a
7 recovery situation, I think you may need to look
8 at relaxing that a little bit because the danger
9 is that if you insist on cash, at that very
10 instant, you might have a member kind of similar
11 to what Kevin is saying, that cannot convert
12 collateral to meet that cash needs, it ends up
13 missing the call and leading to a technical
14 default.

15 MR. WASSERMAN: Well, let me press you
16 for a bit on that. So, what Kevin needs, what
17 Suzanne needs, you know, Phillip, in order -- the
18 whole reason they're coming to you is to meet an
19 uncovered liquidity shortfall. And under our
20 rules, the PFMIs and -- they need to meet their
21 obligation same day, in cash, in the requisite
22 currency. I don't think you're proposing, or are

1 you, that we relax that rule?

2 MR. CHATTERJEE: Well, what I'm saying
3 is that at that point, you know, your options are
4 either to relax that rule or to consider, you
5 know, some kind of like a temporary kind of -- you
6 know, saying, look, if -- let's say I, as the
7 clearing member, am asked for cash, I don't have
8 cash but I have another form of collateral, I'm
9 giving that as a loan and saying I very well have
10 to meet my cash obligation, I'm just giving you a
11 loan and that, you know, with the full
12 understanding that, yes, if I can't give cash
13 today, your option is to declare me in default.
14 The other option is, I give you another form of
15 collateral as loan, which, you know, you consider
16 that I would have to replace and whether I take it
17 away from, you know, other facilities like, you
18 know, initial margin that's already sitting there
19 in cash, I'm replacing, you know -- so, I'm trying
20 to get to that point where you have the ability as
21 a clearing member to temporarily meet the call
22 with an asset, but you're not waiving your right

1 to saying, I'm going to, you know, replace it with
2 cash.

3 MR. WASSERMAN: But I mean, here's the
4 problem these guys are facing. We are making them
5 pay in cash and, again, the reason why we're
6 making them pay in cash is because, you know,
7 there would be difficulties if they were to pay in
8 kind rather than in cash. I'm guess you, as a
9 clearing member, if Kevin tells you, hey, Bis,
10 guess what, no cash today, but here's some
11 Treasuries -- I'm guessing you might have a little
12 bit of difficulty, especially when -- and then
13 passing that onto your customers. Okay.

14 So, he's going to pay you in cash. So,
15 he's got to get the cash from somewhere, so how is
16 it going to help him if you're giving him
17 something other than cash?

18 MR. CHATTERJEE: That's what I'm saying.
19 So, this doesn't happen in the normal course of
20 business, it would only happen in recovery, and
21 then he would have a similar thing to go to his
22 client or his end, you know, person on the other

1 side, because he's sitting in the middle, he's
2 just passing collateral from one person to the
3 other. To have the same ability that, you know, I
4 am meeting the collateral, you know, transfer, in
5 terms of a temporary asset that I will then
6 replace back with cash, because the options are,
7 one, you keep on asking for cash, you don't get
8 cash, and you declare more members in technical
9 default. So, because, you know, if you have a
10 very distressed recovery market like situation
11 where there's tremendous demand for cash, not just
12 in the clearinghouse, but away in the financial
13 system as well, there is a lack of liquidity or
14 cash in the financial system. But is there a lack
15 of assets? And that's the point I'm trying to
16 make is that, you know, you may have enough
17 assets, you just may not have the right kind of
18 assets that everyone wants.

19 MR. WHITEHURST: Bob, if I could? I
20 mean, I think from our point of view, to your
21 question, you know, should we relax that rule that
22 we make timely payments of cash, I think we don't

1 feel that's the right answer, we feel you've got
2 to put certain things as certain. I think some of
3 those -- that idea that we might accept something
4 other than cash when cash is what we would
5 normally require, it feels to some extent like the
6 end of a wedge potentially. And I think what we
7 need to do is plan around being able to service
8 those timely payments, that's, I think, a really
9 important thing that we should do.

10 We should then work on how to make sure
11 that's possible and I think unfortunately maybe
12 not ruling it out, but it's certainly very
13 difficult if we're accepting the payment in of
14 something other than cash. We recognize that we
15 have to supply cash out because you have standard
16 CSAs that require you to pay cash on so you might
17 be reliant on what we're paying you, you may have
18 positions in other CCPs that require you to pay
19 cash in, so that, to us, feels like an important
20 point to draw the line and to work around how to
21 avoid us being in a position where we're not able
22 to pay the cash out.

1 MR. WASSERMAN: John?

2 MR. SAVAGE: I was just going to
3 highlight from an end user's perspective the
4 ability to use letters of credit is obviously
5 important and that doesn't fit in this mold, but
6 from our perspective, we would love to post an LC
7 for a portion of the exposure and then cash
8 incrementally. So, you know, based on our bank
9 relationships and how we're structured.

10 MR. WASSERMAN: Kristen and then
11 Suzanne?

12 MS. WALTERS: On the liquidity topic I
13 would just say that I think we learned in the
14 financial crisis that this is one of the most
15 difficult types of risks to manage and it's almost
16 impossible to manage during wartime. So, I do
17 think that up front management and planning around
18 liquidity, I do think higher cash margin
19 requirements, as well as high quality collateral
20 all the time are requisite in order to really
21 manage this risk appropriately.

22 MR. WASSERMAN: So, actually, before I

1 go to Suzanne, I just want to make a point here.
2 The PFMIs require that the CCPs be able to meet
3 their liquidity -- highly reliable arrangements to
4 meet their liquidity obligations. They also
5 require them to due diligence with respect to
6 their liquidity providers. And so, I guess our --
7 I'm assuming you folks have done that diligence
8 and that you think the members are reliable.

9 MS. SPRAGUE: Yes. I can speak for CME.
10 That's part of our ongoing credit due diligence
11 process anyways, is evaluating the credit
12 worthiness of the clearing members. We did always
13 look at the liquidity profile of the clearing
14 members as well, that places a little bit more
15 focus on that element of the credit due diligence
16 process now that we are looking to members, in
17 some cases, for providing that liquidity, but I do
18 think it's important to make sure that that's part
19 of the process whether it's committed liquidity
20 from non-members or committed liquidity from the
21 clearing membership.

22 And I actually just wanted to make

1 another comment on what Kevin had said before.
2 So, we get into a little bit of a circular problem
3 because if the clearinghouse is under regulations
4 or incited through regulators to collect more
5 cash, yet at the same time a lot of regulations
6 require you to hold minimal bank risk, you get to
7 the problem where Kevin was describing fewer and
8 fewer places to invest the cash and things that
9 you would traditionally be looking to use to
10 preserve capital, such as overnight repo secured
11 by U.S. Treasuries or lower risk investment
12 products that are available, those, under the new
13 capital regulations, are offered less and less or
14 in lower amounts, and so the clearinghouse is
15 placed in a position where they have to look for
16 other places to be able to invest that cash and it
17 should not be at the expense of preservation of
18 capital.

19 But one of the problems that we're
20 seeing is there are now also regulatory
21 requirements for -- in some jurisdictions -- for
22 the clearinghouses to have rules that allow them

1 to pass on investment losses to the clearing
2 membership.

3 So, the clearinghouse has fewer options
4 of where to place that cash to the extent they're
5 making decisions that are no longer of low risk
6 and nature, then it's the clearing membership that
7 is bearing the risk of those losses, which we
8 think presents another systemic issue as well.

9 MR. WASSERMAN: So, before I turn to
10 Raj, I mean, so what I'm hearing is the
11 clearinghouses have looked to the members and
12 said, look, we think you can do this, and I guess
13 the question is, is this something where actually
14 it is going to be a real problem or that it's
15 going to be painful ex ante to make the
16 arrangements so that you are sure you can do it in
17 wartime?

18 MS. RAMANATH: Okay, before I address
19 that specific question, what I wanted to go back
20 to was one of the previous points Suzanne made
21 about evaluating members ability to meet our
22 liquidity requirements, and, again, when we think

1 of a recovery scenario and we put it in the
2 context of what exactly has happened in the
3 market, we are speaking of a scenario where the
4 largest members of the clearinghouse have failed
5 and typically if you are looking at a rule-based
6 liquidity requirement, typically your largest
7 members who failed are also the ones you would
8 otherwise have counted upon to provide liquidity
9 and to the extent that they have failed, you are
10 not going to get that payment from them, even from
11 a liquidity perspective, which is the fundamental
12 issue that you come to when you're relying on the
13 same set of participants for both credit and
14 liquidity sort of extension, which is one of the
15 reasons why notwithstanding all the due diligence,
16 if your members failed, chances are from a
17 liquidity perspective you're not going to really
18 get that amount.

19 As far as the remaining members are
20 concerned, depending upon the nature of membership
21 base and the access that they have or the ability
22 that they have to liquidate the collateral that

1 gets posted to them, it might be a question of
2 ability, it might just be a question of pain. If
3 it's a member who has access, for instance, to the
4 Fed discount window and there are Treasuries
5 posted to that member, it's a question of pain,
6 it's possibly a question of additional cost in
7 terms of what is the haircut rate at which
8 Treasuries are being posted to the member relative
9 to what is the haircut at which you get cash from
10 the Fed, and that discount -- that difference is
11 probably a pain value to the member, but that's
12 only one set of the population.

13 If the liquidity requirement is supplied
14 uniformly to all members, which is the case in
15 some CCPs that we've seen, then there are going to
16 be members who do not have access to the Fed and
17 the ability of those members to provide that
18 liquidity or to support that liquidity requirement
19 is going to be a function of whether they have
20 those back to back arrangements and therefore are
21 they able to generate that liquidity in short
22 measure during a stress environment. Or, if not,

1 they are not going to be able to provide that
2 liquidity.

3 So, I think it's a two-pronged approach
4 and it's not just one problem of cost alone.

5 MR. WASSERMAN: Let me just press on one
6 additional point. At one point -- you've alluded
7 to the difference between the haircut at the
8 discount window and the haircut at the CCP. Is
9 that a problem? Do the rules, as you currently
10 see them, suggest that that's likely to be a
11 problem? Or is that a more theoretical issue?

12 MS. RAMANATH: That's a good question.
13 So, the way the rules are drafted, it's going to
14 be the haircut -- the haircut at which the CCP
15 posts securities and, Suzanne, you can correct me
16 if I'm wrong, is the haircut that the CCP applies,
17 and I'm sure the CCP would do its best to make
18 sure the level of haircut that applies is relative
19 to the market and therefore, to a large extent, is
20 aligned to what the Fed is applying. But
21 nevertheless, there's no guarantee that it would
22 be exactly the same and therefore the potential

1 for that problem does exist.

2 MR. WASSERMAN: Suzanne?

3 MS. SPRAGUE: Sure. Maybe I'll just
4 give a little bit of background for folks that
5 aren't necessarily familiar with the rules that
6 we're talking about.

7 So, CME recently implemented the ability
8 for U.S. Treasuries to substitute in the event we
9 have a clearing member default who had Treasuries
10 on deposit and we couldn't sell, which is a very
11 rare event as we've been talking about for most of
12 the panels today, it's a flight to quality asset
13 and generally any market issues that we've seen in
14 the past are related to lack of supply, so more
15 buyers than sellers, an CME would be a seller in
16 this case.

17 So, what we've done is implement a
18 rules-based approach whereby we could use cash
19 that is deposited in the guaranty fund by
20 non-defaulting members, substitute in the
21 Treasuries of the defaulted member, and thereby
22 impose a limit on the amount of exposure any one

1 clearing member would be subject to by nature of
2 their guaranty fund requirement.

3 So, it's a way for us to be able to
4 provide highly reliable and prearranged funding
5 sources for U.S. Treasuries. It also, though, is
6 capping the amount of exposure any one clearing
7 member has. In addition to that, should the
8 clearing members that are not in default have
9 posted Treasuries themselves to the guaranty fund,
10 we also have the ability to ask them to exchange
11 it for cash. And we can then substitute in the
12 Treasuries of the defaulted member for the cash to
13 use in the temporary liquidity event.

14 The way that we've constructed that is
15 post haircut and so in the crisis scenarios we've
16 seen so far, the price -- the value of Treasuries
17 generally increases and so that gain would be at
18 the clearing member's advantage and then they are
19 free to choose to sell it if they would want to or
20 we do have a mechanism in the rule by which we
21 would agree to exchange it at a later date as
22 well.

1 So, we think that the incentives are
2 aligned in terms of a high quality liquid asset
3 being provided in that time as well as the
4 potential for increased market value in a time of
5 stress. We also think that it's important to take
6 into account the clearing member's ability to
7 manage those Treasuries and so we have further
8 refined the part of the rules that allows us to
9 require the clearing member to put in cash, which
10 would then be substituted. We actually look to
11 clearing members that are affiliated with U.S.
12 Government securities broker-dealers, so they do
13 have the expertise to deal in Treasuries and have,
14 in times of stress, been able to provide that
15 additional market capacity as well.

16 MR. WASSERMAN: So, before I turn to
17 Philip, let me just press you just for a bit,
18 because as I understood Raj's point, she was not
19 concerned that, in fact, the value of the
20 Treasuries would go down. What I heard her saying
21 was, well, look, we get those Treasuries -- some
22 folks, who might hypothetically have access to the

1 Fed discount window, would get those Treasuries
2 and there is a haircut they're going to be
3 incurring there, and so in terms of their
4 liquidity arrangements and their balance of
5 liquidity, if your haircut is less than the
6 haircut they're going to be incurring on the day,
7 that's going to cause some marginal liquidity
8 problems to them even if, in the fullness of time,
9 actually, the value of those U.S. Treasuries goes
10 up.

11 MS. SPRAGUE: Yeah, and at least for CME
12 we're pretty closely aligned, I believe. I don't
13 remember the exact numbers off hand in terms of
14 what the haircuts are at the Fed, but it is a
15 consideration that we make to evaluate our haircut
16 relative to that that could be posted to the
17 window. We also align them with our commercial
18 credit facility that we have in place, so largely
19 the haircuts that are -- 27 banks that participate
20 in that facility have vetted prior to the renewal
21 of that facility, we are cognizant of the fact
22 that that facility, in a lot of cases, would be

1 used on the other side by posting that collateral
2 to the window as well.

3 MR. WASSERMAN: Phil?

4 MR. WHITEHURST: Yes, and I was going to
5 say, really, I guess there's a -- you know, other
6 CCPs have alternative approaches. In the case of
7 LCH, we tend to take our default fund
8 contributions as cash, so I think you've then got
9 to look at, you know, what's the pros and cons of
10 that. On the one hand you've got the flexibility
11 with the CCP that takes something other than cash
12 and then has to potentially reverse out of that
13 versus a CCP that requires cash for the guaranty
14 fund initially, and I guess, to an extent, that's
15 the beauty of competition, participants are able
16 to look at which of those arrangements they prefer
17 the look of and possibly clear their business
18 according to that. So, there isn't only one way
19 to skin that particular cat.

20 MR. WASSERMAN: Well, I guess the
21 question is, does that end the issue? Because
22 even if -- let's assume -- if I'm hearing you

1 correctly, your default fund then is in cash?

2 MR. WHITEHURST: That's right.

3 MR. WASSERMAN: But your liquidity --
4 cover one liquidity may be greater than the
5 default fund simply because of that also includes
6 the collateral of the defaulter?

7 MR. WHITEHURST: So, obviously, having
8 the default fund in cash does not in itself solve
9 the liquidity issue. There are other ways in
10 which we meet our liquidity needs, but just on
11 that particular point about the default fund.

12 MR. WASSERMAN: So, getting towards the
13 end of this, the question, I guess, is, what are
14 the broader -- what is the magnitude of the
15 broader financial risks? In other words, are the
16 issues we're dealing with here marginal ones, you
17 know, some difference -- or not, but assume there
18 is -- some difference in haircuts?

19 I mean, I think I heard Phil saying a
20 bit earlier that, well, look, the amount we're
21 going to be looking for from folks in a liquidity
22 provision compared to the losses they're

1 potentially incurring on their positions in a
2 large market move may be relatively small, that
3 essentially, you know, the one thing that is not
4 open to question, and this came, I think, to us at
5 least very clear in the recent Swiss Franc
6 incident, where essentially there were some very
7 large movements relative to margin and, you know,
8 essentially folks had to make and, in almost all
9 cases, very reliably did make those payments in
10 cash.

11 And so, am I right in saying that, you
12 know, it's not clear to me, but maybe folks on
13 this side will correct me, that the magnitude of
14 the potential demand is systemically large
15 relative to the Treasury arrangements you have to
16 maintain to meet unexpected, extraordinary
17 variation payments, which absolutely have to be
18 made in cash? So, where am I getting it wrong?

19 MR. WHITEHURST: Bob, if I could
20 interject. Obviously, the -- I think, again,
21 there are two separate issues here. So, on the
22 one hand the sort of practical example I gave

1 earlier was about assessments in the event of a
2 default fund depletion. I think in the Swiss
3 Franc move you just described, that is a VM driven
4 situation and those sorts of moves can be
5 potentially larger. So, you know, I'm not
6 necessarily -- I wasn't wishing to suggest that
7 there are small liquidity requirements in the case
8 that markets move a long way, but that can happen
9 absent any default situation. That's something
10 that members in the ordinary course of business
11 are exposed to needing cash to meet margin
12 requirements on large market moves.

13 MR. WASSERMAN: And I apologize if I
14 mischaracterized your comment, but it sort of
15 inspired my own and maybe at the end you and I are
16 agreeing that the arrangements members already
17 have to have for Treasury, arrangements to be able
18 to come up with unexpectedly large amounts of cash
19 in order to meet variation margin requirements,
20 are fairly robust relative to the potential
21 liquidity requirements that might be imposed under
22 these recovery plans. Is that a fair or an unfair

1 assessment? Suzanne?

2 MS. SPRAGUE: That's the same conclusion
3 that we've come to as well in looking at times of
4 increased market volatility. The VM payments that
5 are made either for house-only activity or
6 customer and house activity are two to four times
7 what the assessment power averages for the
8 clearing numbers as well as looking at just the
9 assessment power ability on the clearing members
10 themselves, it's a fraction of the tier one
11 capital of these entities as well.

12 So, although, as Philip mentioned, the
13 numbers sound big when you talk about assessment
14 powers being two times guaranty fund, five times
15 guaranty fund. When you actually look at the
16 dollar amounts compared to the financial payments
17 the firms have made historically, it is a fraction
18 of that.

19 MR. WASSERMAN: Phil?

20 MR. WHITEHURST: I'm sorry. That's a
21 legacy tent up. I apologize.

22 MR. WASSERMAN: Bis?

1 MR. CHATTERJEE: Yes, Bob, the only
2 thing I'd say is, if you had a clearing system
3 where the only people that were posting the need
4 for variation margin and it was in cash, was just
5 the clearing members who, as Raj said, probably
6 have liquidity arrangements in place that they can
7 convert various kinds of collateral to cash. I
8 think that kind of system would probably be okay
9 even in a stress situation. But to the extent,
10 and this is where maybe I hate to call on Kristen,
11 but other end users who also have to meet their
12 variation margin, you know, calls to the clearing
13 members into the clearinghouse, a lot of them rely
14 -- they don't have access to Fed windows, you
15 know, a lot of them rely on third parties, some of
16 it could be the clearing member themselves or some
17 of it could be other arrangements to convert this
18 cash. In a -- you know, going back to the Lehman
19 situation, if you had various parties that were
20 relying on someone like Lehman for the collateral
21 transformation, providing them cash, you know --
22 and again, we're talking recovery, we're not

1 talking normal course of business -- one of the
2 clearing members defaults and you're trying to
3 clear a recovery, you don't know where the other
4 clearing members are. So, you might have a
5 situation where some of these end clients might or
6 might not be in a situation where they're not as
7 sure as the clearing members themselves to be able
8 to convert their collateral into cash and meet
9 that cash requirement.

10 So, you could have a situation where,
11 yes, you know, if the members -- direct members
12 themselves, have free access to Fed windows or
13 other collateral arrangements, yes, it's probably
14 not that big of a problem, but down the chain
15 where you have other participants in the market
16 who, you know, may rely on a bank for a letter of
17 credit or may rely on a dealer to convert their
18 securities to cash in a repo situation, that might
19 be where the trouble actually is.

20 MR. WASSERMAN: Well, let me press you
21 on that just for a bit because I know from the
22 residual interest debate that you cannot

1 reasonably expect your customers to post cash with
2 you until 6:00 p.m. tomorrow, next day, 6:00 p.m.
3 Okay. The demand that the clearinghouses are
4 making then are actually it's not going to be on,
5 in any event, the customers. They're only going
6 to have to pay their variation losses. And,
7 again, not until 6:00 p.m. tomorrow, so it's still
8 in the next day realm.

9 The clearing members, on the other hand,
10 and in the case of Suzanne, she's tried to, I
11 guess, find folks who seem likely to have
12 arrangements to get liquidity, so she's looking to
13 you. Meanwhile, I know when Suzanne and the Swiss
14 Franc case or somebody else in some other case
15 calls you, you're going to have to be fronting the
16 money for your client, who's not going to pay you
17 until tomorrow, and so, I guess, that -- what
18 that's telling me is you have some fairly robust
19 liquidity arrangements on a day-by-day basis
20 because, of course, you never know when the Swiss
21 National Bank is going to get frisky, and so
22 you've got to be prepared, and so if you are

1 prepared, because you already have those
2 arrangements to meet those needs, then aren't you
3 sort of covered for the kind of things that might
4 be happening as part of a recovery plan? Where's
5 the disconnect?

6 MR. CHATTERJEE: So, the disconnect is
7 -- you know, is to clearing members' clients, the
8 kind of assets they have, because not all of them
9 are holding Treasury assets. They invest -- you
10 know, they have investment portfolios and in a lot
11 of cases they rely on people to transform that
12 collateral for them, either temporarily or in a
13 case of need to sell it and generate cash.

14 So, if you have a recovery situation
15 accompanied by a market stress situation where you
16 have certain assets, you know, let's say someone
17 holds a large quantity of Swiss Francs and is
18 waiting to sell them, suddenly finds the value
19 drops 20, 30 percent, in that kind of a
20 combination situation, you have a problem in the
21 market that waiting a day doesn't cure it.

22 So, I think, you know, like I said,

1 going back to the simple example of just a
2 clearinghouse and the only people clearing, the
3 only people that have obligations are the clearing
4 members who our bigger institutions have access to
5 better sources of liquidity, I think the problem
6 is fairly self-contained.

7 But when you take it a step down and you
8 look at the assets and the process by which end
9 clients convert those assets, then you might have
10 a bigger situation is what I was trying to put
11 across.

12 MR. WASSERMAN: So, two things. So, I
13 take it then you think that the approach that CME
14 took in terms of trying to limit who they -- which
15 of the members they were going to look to, while
16 perhaps in some sense unfair putting differential
17 burdens from a -- if, you know, a reliability
18 perspective and perhaps even a systemic risk
19 perspective, sounds like it may have been the
20 right decision?

21 MR. CHATTERJEE: I personally see it
22 helping out in certain situations but, again, to

1 -- not knowing -- because it's not just an issue
2 of liquidity. This is a combination of market
3 conditions, of market risk, and liquidity. So, to
4 then -- you know, possibly -- you know, I'm not
5 saying that, but let's say if you have a situation
6 where somebody is like, why are you cherry picking
7 certain people, you know, you may have to live
8 with trying to explain why you picked certain
9 things because your assessment was they could
10 convert the collateral or they could take the
11 collateral imbalance issue. I think that's what
12 you would be wanting to deal with.

13 And so, if you inaccurately assess that
14 someone can do it but they cannot really, and so
15 as a clearinghouse you need to have that much
16 transparency into the clearing member and their
17 facilities and their operations.

18 MR. WASSERMAN: Okay. Further questions
19 or comments on liquidity? Raj?

20 MS. RAMANATH: I was actually going to
21 go back to the point that Kevin made about central
22 bank access and that's probably a point that's

1 worth exploring in terms of whether it is possible
2 for CCPs to have access to central banks on a
3 routine basis.

4 If you look at CCPs globally, I think,
5 LCH, for example, in Paris, Eurex in Germany, or
6 BMF in Brussels, and there are those CCPs out
7 there as well who have access to central bank on a
8 routine basis, such that their reliance on third
9 parties for liquidities minimal to zero and what
10 it does is it provides confidence to the
11 clearinghouse that at the time that it requires
12 liquidity, it's not dependent upon some third
13 party performing and that it necessarily has
14 access to that liquidity and it gets that.

15 So, I was just wondering if that's
16 something that's worth exploring, because that's,
17 again, something that the IMF had raised in their
18 report that they released back in January.

19 MR. WASSERMAN: So the one thing I can
20 say is that this institution has no power in
21 regards to your request. Phil?

22 MR. WHITEHURST: Yes, I was just taking

1 up that point. I think it is something that we
2 feel is potentially important and, again, just to
3 clarify, this is not the central bank as a lender
4 of last resort, this is central bank access to
5 convert the highly liquid assets that we might
6 have into cash for liquidity purposes, but we're
7 supportive of that type of access.

8 MR. WASSERMAN: Suzanne?

9 MS. SPRAGUE: I'll go back to, just
10 again, the full picture that's being painted, so
11 clearinghouses should take in cash. Otherwise, if
12 they take securities or non-cash assets, they
13 should have liquidity to support that, but then
14 they take the cash and they buy something and it
15 turns it back into a non-cash asset because
16 they're trying to mitigate bank risk, and so it
17 does pose the question of, what are we trying to
18 achieve and are there other ways that we should be
19 trying to approach that.

20 MR. FRANKEL: Exactly. So, the Bank of
21 England has offered its sterling monetary
22 facility, in particular it allows EU to start UK,

1 but the plan is EU recognized CCPs to have a bank
2 account at the central bank, which allows them to
3 place their cash there and not take on the reverse
4 repo risk.

5 The reverse repo risk worries me in that
6 when each day in the settlement cycle the CCP has
7 to work its way out of the reverse, it is for that
8 settlement cycle, exposed the bank money, and if
9 the settlement bank defaults at that time, not
10 only does it take away all the cash margin -- not
11 only does it expose the CCP to all the lack of
12 variation margin is paying on the trades and the
13 need to liquidate them, but it's also running away
14 with all the cash the CCP had and had invested.

15 This is a double risk there that --
16 resorting to -- using a reverse repo creates,
17 having a central bank cash account is a lot safer.

18 MR. WASSERMAN: So, I should note that
19 the PFMIs require CCPs to use -- to settle in
20 central bank money where that is practicable.
21 Obviously, not where it is not practicable.

22 Are there -- does anyone else have

1 anything to -- Kevin, I'm sorry. Yes.

2 MR. McCLEAR: I was just going to make a
3 quick point on the lodging of cash at the Federal
4 Reserve. There is a provision that allows
5 systemically important clearinghouses to apply for
6 an account, and we have applied, I think we're
7 getting closer to being approved, but that would
8 alleviate the concern that Oliver raised with
9 respect to our cash. We could post our cash up at
10 the Fed. We think all clearinghouses should have
11 that type of access, just not ICE Clear Credit or
12 systemically important clearinghouse.

13 MR. WASSERMAN: Okay. Anyone with any
14 other comments on this topic? Or on anything else
15 we've raised today? Or are folks -- have we
16 exhausted ourselves?

17 In which event, closing remarks can be
18 relatively brief. Thank you very, very much,
19 especially to those of you who came twice for
20 this, to the panelists, and thank you very much to
21 the audience. I certainly speak for myself and
22 I'm quite sure I speak for my colleagues when I

1 say that we learned an incredible amount today. I
2 think we're going to learn even more when we look
3 at the transcript in a little while, because I
4 always find that when I look at the transcript I
5 find things that I didn't remember, but I think
6 this has been an incredibly productive day and I
7 deeply appreciate all of you and I will turn it
8 over to Phyllis.

9 MS. DIETZ: And I just wanted to say
10 thank you for coming also and I deeply appreciate
11 Bob. He really studied up and read all the white
12 papers and came well prepared. So, we certainly
13 appreciate it.

14 And, you know, I would just like, in
15 closing, to just I think come full circle and
16 touch on something that Chairman Massad said this
17 morning, which is, the goal is really never to get
18 to this point of recovery and resolution and I
19 think that we do our part as regulators with our
20 regulation and oversight, clearinghouses do their
21 part through their business practices and
22 compliance with their own rules and clearing

1 members have responsibilities as well, and so, I
2 think it's appropriate to look at this from a much
3 broader perspective and keep the thought in mind
4 that we should keep doing what we need to keep
5 doing and hopefully we won't ever really have to
6 worry about recovery and resolution, although its
7 an important topic and obviously we need to give
8 it thoughtful and careful consideration. So,
9 thank you, everyone.

10 MR. WASSERMAN: And before I let you go,
11 Kristen made a very important point. As you may
12 note from the press release here, members of the
13 public or panelists who wish to submit their views
14 in writing on the topics addressed in this
15 roundtable can do so via the link at
16 comments.cftc.gov and follow the instructions
17 there and we're going to be receiving those --
18 staff is -- basically a month from today, April
19 20th, 2015.

20 Thank you all and safe travels home.

21 (Whereupon, at 4:27 p.m., the
22 PROCEEDINGS were adjourned.)

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CERTIFICATE OF NOTARY PUBLIC

DISTRICT OF COLUMBIA

I, Mark Mahoney, notary public in and for the District of Columbia, do hereby certify that the forgoing PROCEEDING was duly recorded and thereafter reduced to print under my direction; that the witnesses were sworn to tell the truth under penalty of perjury; that said transcript is a true record of the testimony given by witnesses; that I am neither counsel for, related to, nor employed by any of the parties to the action in which this proceeding was called; and, furthermore, that I am not a relative or employee of any attorney or counsel employed by the parties hereto, nor financially or otherwise interested in the outcome of this action.

(Signature and Seal on File)

Notary Public, in and for the District of Columbia

My Commission Expires: March 14, 2018

