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IN THE UNITED STATES COURT OF FEDERAL CLAIMS

STARR INTERNATIONAL COMPANY,)
INC., Individually and on)
Behalf of All Others)
Similarly Situated,)
Plaintiffs,) Case No. 11-779C
vs.)
UNITED STATES OF AMERICA,)
Defendant.)
-----)

Courtroom 4
Howard T. Markey National Courts Building
717 Madison Place, N.W.
Washington, D.C.
Wednesday, October 29, 2014
9:30 a.m.
Trial Volume 22

BEFORE: THE HONORABLE THOMAS C. WHEELER

Josett F. Whalen, RMR-CRR, Reporter

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I N D E X

WITNESS:	DIRECT	CROSS	REDIRECT	RECROSS	VOIR
CRAGG	4980	5143			5070
	5073				

EXHIBITS FOR ID IN EVID

Plaintiffs'

Number168	5123
Number266	5024
Number457	5125
Number500	5018
Number609	4979
Number625	5018
Number628	5125
Number661	5126
Number1202	5089
Number1214	5050
Number1469	5129
Number1475	5129
Number1478	5129
Number1513	5130
Number1843	4979

	EXHIBITS	FOR ID	IN EVID
1			
2	Plaintiffs'		
3	Number1845		4979
4	Number1849		4980
5	Number2248		4980
6	Number2329		5130
7	Number2388		5130
8	Number2473		4997
9	Number2485		5131
10	Number2504		5131
11	Number2527		4997
12	Number2528		5131
13	Number2536		5050
14	Number2539		5132
15	Number2540		5132
16	Number2542		5047
17	Number2563		5132
18	Number2564		5133
19	Number2572		5133
20	Number2726		5135
21	Number2734		4997
22	Number2735		5135
23	Number2816		5119
24	Number2826		5119
25			

Starr International Company, Inc. v. USA

1	EXHIBITS	FOR ID	IN EVID
2	Plaintiff's		
3	Number 2857-A		5123
4	Number 2872		4997
5	Numbers5300-5381		5123
6			
7	Defendant's		
8	Number933		5091
9	Number1555		4980
10			
11	Joint		
12	(none)		
13			
14			
15			
16			
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19			
20			
21	*All exhibits premarked for identification prior to		
22	trial.		
23	*See full attached list of admitted exhibits following		
24	transcript.		
25			

1 about yesterday where you had, as shown on what I've
2 marked as Plaintiffs' Trial Exhibit 5391, a pool of
3 securities that included RMBS bonds but also included
4 credit card securities, corporate bonds and other bonds;
5 is that correct?

6 A. Yes. The CDO market had about 1.2 trillion
7 issuances at 2007, and about half of those, 641 billion,
8 contained subprime collateral, so I'm using the term
9 "multi-sector CDO issuance" to refer to those in
10 particular.

11 Q. Now, you also talked yesterday about how, as you
12 went into 2006 and 2007, subprime defaults increased. Do
13 you recall that?

14 A. Yes.

15 Q. And would you turn to Plaintiffs' Trial
16 Exhibit 5310.

17 And is this a demonstrative that you prepared that
18 relates to that issue?

19 A. Yes.

20 Q. Can you explain what this demonstrates.

21 A. This demonstrates that -- so this -- across the
22 horizontal axis we have year by year, and then on the
23 vertical axis is the cumulative default rate on subprime
24 mortgages after a twelve-month period.

25 And what we see over the 2003 to 2007 period is

1 that, you know, at first the default rates on subprime
2 mortgages were rising slowly and then 2006 and 2007 they
3 rapidly increased. And these are default rates after
4 just a year.

5 Q. And this shows that those default rates were at
6 3 percent in 2003, 3.5 percent in 2004, 4.5 percent in
7 2005, and then doubled to 9 percent in 2006 and then
8 increased to 11 percent in 2007; is that correct?

9 A. Yes.

10 And what's important in kind of interpreting,
11 these are the mortgages, the subprime mortgages, that
12 were initiated in 2006, for instance, so that vintage had
13 a 9 percent default rate. Those that were originated in
14 2007 have an 11 percent default rate.

15 Q. That's --

16 A. And obviously a 2003 mortgage isn't going to
17 default after twelve months in 2007 because four to five
18 years has gone by.

19 Q. That's an important qualification.

20 These are the default rates after twelve months
21 for subprime mortgages originated in the year indicated.

22 A. Yes.

23 Q. Do you have some other charts on this subject?

24 A. I prepared a series of charts which illustrate,
25 you know, the same points.

1 So if we go to 5311, you can see this is the
2 18-month default rate, so after a year and a half you can
3 see that in the 2007 vintage, a fifth of them have
4 defaulted, whereas, you know, three or four years earlier
5 just a fraction had defaulted.

6 You know, I've done it with -- you know, done
7 these calculations with other data sets, which I show in
8 5312, for instance, or 5313. But the overall point
9 that -- that these data illustrate is that, as we go into
10 2006 and 2007, as the market becomes heated up,
11 underwriting standards have fallen, and default rates
12 reflected that as the -- as they increased.

13 Q. And what is the default rate that is shown here
14 after 18 months for a subprime mortgage originated in
15 2007?

16 A. And you're looking -- just so we're on the same
17 page here, which exhibit are you looking at?

18 Q. Well, I'm looking at the 18-month one for 5311.

19 A. Yes.

20 And you asked about 2007?

21 Q. Yes.

22 For subprime mortgages originated in 2007, what
23 percentage of them defaulted after 18 months?

24 A. 20.5 percent.

25 Q. And that number was 17.5 percent for subprime

1 mortgages originated in 2006; is that correct?

2 A. Yes.

3 Q. And 9.5 percent for 2005?

4 A. Exactly. That's half of the 2007 number.

5 THE COURT: Just one second. I have a point of
6 confusion here.

7 When it's 18 months and you're saying that it was
8 a default on a mortgage originated in each of those
9 years, does that mean that for a mortgage that originated
10 in 2006, 17.5 percent defaulted within 18 months going
11 probably into 2007?

12 THE WITNESS: Exactly.

13 THE COURT: Okay. Thank you.

14 BY MR. BOIES:

15 Q. And that number would have been 5 percent for
16 2003?

17 A. Yes.

18 Q. And 6 percent for 2004?

19 A. Yes, sir.

20 Q. Now, you also mentioned your demonstrative
21 Plaintiffs' Trial Exhibit 5312.

22 A. Yes.

23 Q. And this shows -- is this the same data but for a
24 default after six months?

25 A. Exactly.

1 So this is -- I mentioned earlier that I referred
2 to more than one data set, and this is just a -- the
3 six-month default rate calculated using alternative
4 data.

5 Q. And what does this show, for the record?

6 A. This shows that after six months, in 2004, 2005,
7 you know, less than 1 percent had defaulted within a half
8 a year, in 2006 it's 1.5 percent, and then in 2007 it's
9 two and a half times higher at 2.5 percent.

10 Q. Would you turn to Plaintiffs' Trial Exhibit 5313.

11 A. Okay.

12 Q. And I want to be sure that I understand what
13 you've done here.

14 This shows the default rates for mortgages
15 originated in 2003 to 2007 after twelve months; is that
16 right?

17 A. Yes.

18 Q. And is that the same information that is in
19 Plaintiffs' Trial Exhibit 5310?

20 A. Yes.

21 Q. The numbers are different. Why are the numbers
22 different?

23 A. They're different because they're being drawn from
24 a different data source. It's not atypical that you
25 would see a -- you know, a difference in the pattern.

1 You know, they -- the vintages for 2003 through
2 2006 are virtually identical, and it's the 2007 number
3 where one source is higher than the other. But they both
4 show the same pattern, which is that in 2006 and 2007,
5 default rates had increased substantially.

6 Q. Did you also look at the extent to which
7 individual firms had or had not increased their issuance
8 of multi-sector CDOs?

9 A. Yes, I did. In fact, as I think we spoke
10 yesterday, there's an overall increase in the volume of
11 originations of subprime mortgages, particularly in
12 2006 and 2007. That naturally leads to the issuance of
13 more CDOs because, as we talked about yesterday, these
14 securities are being -- these mortgages are being
15 packaged into -- you know, put into a sieve which issues
16 RMBS, and the low -- lower-quality tranches, you know, go
17 to places like CDOs.

18 Q. Did you prepare any exhibits that deal with the
19 multi-sector CDO issuance of individual companies?

20 A. Yes, I did.

21 Q. Which are those?

22 A. Well, they start at PTX 5314 and then they extend
23 through I guess about another -- up through 53- --
24 PTX 5320, so I've got -- I've presented CDO issuance by
25 firms here.

1 Q. Let me go to PTX 5314.

2 What does this exhibit show?

3 A. So this is a specific -- this is an exhibit that's
4 specific to Goldman Sachs and shows that its CDO issuance
5 going from 2005 to 2006 doubled. And then I've just
6 highlighted that this is -- this covers the period when
7 AIG had internally decided at the end of 2005 to stop
8 writing CDS contracts on these types of CDOs.

9 Q. And this shows for 2005 CDO issuance by
10 Goldman Sachs of \$12.6 billion; is that right?

11 A. Yes.

12 Q. And CDO issuance by Goldman Sachs in 2006 of
13 \$25.4 billion?

14 A. Yes.

15 Q. And turning to PTX 5315, what does that show?

16 A. So this shows the -- instead of the annual
17 issuance, this is now the cumulative issuance. And you
18 can see, going from 2005 to 2006, its issuance had
19 increased substantially so that its total was 38 billion
20 in 2006, and they continued to issue into 2007 so that
21 the total issuance was almost \$50 billion.

22 Q. Then 5316, what does this show?

23 A. This is a similar pattern that's demonstrated for
24 Merrill Lynch, where in 2005 it issued \$14 billion worth
25 of these types of CDOs and then in 2006 its issuances

1 almost tripled.

2 Q. So that Merrill Lynch issued \$40.9 billion worth
3 of CDOs in 2006?

4 A. Yes.

5 Q. And do you have a cumulative chart for
6 Merrill Lynch like you had for Goldman Sachs?

7 A. I do.

8 So you can see that for Merrill Lynch, its
9 cumulative CDO issuance increased going from 2006 to
10 2007 so that in 2007 its combined issuance was
11 \$83 billion.

12 Q. And you're referring here to what exhibit?

13 A. PTX 5317.

14 Q. And this shows that you had 14 billion in 2005 and
15 then on a cumulative basis 54.9 billion of issuance in
16 2006 and then again on a cumulative basis \$83 billion of
17 CDO issuance in 2007 by Merrill Lynch?

18 A. That's correct.

19 Q. And would you turn to your chart PTX 5318 and
20 explain that.

21 A. So again, this is for another firm. This is for
22 Citigroup. It -- in 2005 it issued \$11.1 billion worth
23 of these types of CDOs, and then in 2006 its issuance
24 more than doubled to \$26.3 billion.

25 Q. And then is 5319, PTX 5319, a cumulative chart or

1 an annual chart?

2 A. This is an annual chart.

3 And it shows, rather than for -- rather than for
4 2006 the comparison, this is now the comparison to 2007,
5 where Citigroup's CDO issuance in 2007 was more than
6 twice its issuance in 2005, so in 2005 it issued
7 \$11.1 billion worth of these types of CDOs and then in
8 2007 it was \$28.3 billion.

9 Q. Would you turn to PTX 5320 and explain that.

10 A. Yes. Now, this accumulates the -- over the three
11 years that we've been looking at. In 2005, as we've seen
12 issuances, were 11.1 billion. If you add in the
13 issuances in 2006, the cumulative total is \$37.4 billion.
14 And in 2007, it was \$65.7 billion cumulative.

15 And you can see that Citigroup is a little late to
16 the game in the sense that their volume of CDO issuance
17 is higher than the others, so they're -- you know, and
18 somewhat they're catching up, although they're catching
19 up at what turns out to be the wrong time -- the wrong
20 part of the cycle here.

21 Q. As part of your investigation, did you analyze the
22 extent to which, if any, CDOs that were issued in the
23 period that we're talking about were later the subject of
24 litigation?

25 A. Yes.

1 Q. And did you prepare an exhibit relating to that?

2 A. I did, yes.

3 Q. Which exhibit is that?

4 A. That's PTX 5321.

5 Q. Would you explain what PTX 5321 is designed to
6 show.

7 A. Certainly. Over the last 18 months, two years, a
8 lot of the actions that the Department of Justice had
9 brought regarding the origination of mortgages, many of
10 those have now --

11 MR. DINTZER: Your Honor, we're going to have to
12 object. We can't figure out how this -- how reciting
13 actions that the Department of Justice has brought falls
14 within the scope of any economic analysis.

15 I mean, it is what it is, and we did what we did,
16 and if we did what we did successfully, that's good. But
17 none of that has anything to do with Mr. Cragg's
18 expertise unless he's an expert at telling the
19 Department of Justice what they already did, so -- so
20 we'd ask the Court to block this testimony on this slide
21 as not relevant.

22 The plaintiffs can cite to this if they want to in
23 their -- the existence of these things, but I don't
24 understand how that's economic expertise.

25 THE COURT: Mr. Boies?

1 MR. BOIES: I can explain the relevance. Would
2 the Court prefer that I did outside the presence of the
3 witness, however?

4 THE COURT: I think so. If we're going to discuss
5 this, I think it would be best if you stepped out in the
6 hallway briefly, Dr. Cragg.

7 THE WITNESS: All right.

8 (Whereupon, the witness was not present in open
9 court.)

10 THE COURT: All right. Mr. Boies?

11 MR. BOIES: Your Honor, I don't think that he is
12 intending to opine on the validity or invalidity of what
13 the Department of Justice did. I think what he is going
14 to do is use this as a data point, a fact, and then he
15 will apply his economic analysis to those facts.

16 For example, I know that there is a chart further
17 on that I have been looking for that may be 5365,
18 somebody suggests to me, that shows, just as an example,
19 the amount of CDOs that were allegedly problem CDOs for
20 AIG that were ultimately put in Maiden Lane II and
21 Maiden Lane III that were the subject of these
22 Department of Justice assertions. And I think that that
23 is certainly relevant in terms of assessing how AIG came
24 to be in the position it was, as well as the control
25 issues associated with the giving of releases that the

1 Court has heard about.

2 Obviously, the more the CDOs in Maiden Lane III
3 with respect to which releases were given were the
4 subject of later assertions by the government that these
5 were fraudulent, the more valuable those releases came --
6 became to it or were to the counterparties.

7 So I think there are a variety of things that
8 these initial facts will be relevant to in the witness'
9 analysis, but all we're doing now is having him identify
10 what those facts are. He's not purporting to evaluate
11 the legal issues I don't believe.

12 THE COURT: All right. Any reply, Mr. Dintzer?

13 MR. DINTZER: Yes, Your Honor.

14 These actions -- and they don't have the Bates
15 here, but I believe all of these actions happened well --
16 the actions by the department happened well after the
17 relevant dates in the case, and so that -- they
18 couldn't -- the actions themselves couldn't play a role.

19 Whether the chart that Mr. Boies identified -- I
20 don't believe the expert has done an analysis where he
21 went back and found out which of the CDOs were
22 specifically found to be fraudulent or alleged to be
23 fraudulent. If he had, we don't see that in his report,
24 and so if that is a citation to his report where he's
25 done that specific analysis, you know, a CDO-by-CDO, this

1 is a bad one, we didn't see that.

2 And maybe I'm wrong and maybe Mr. Boies can point
3 me to -- if he's going to do that analysis.

4 Other than that, Your Honor, the fact that
5 ultimately there were allegations and that I -- I believe
6 all of these were settled -- I might be wrong -- which
7 means that -- that I'd be surprised if they went CDO by
8 CDO.

9 But regardless, it doesn't have any role in his
10 actual -- in economic analysis. He can make whatever
11 economic analysis he wants, but these later settlements
12 don't provide any information to that.

13 THE COURT: I think as factual data points that he
14 may rely upon, I'm going to allow this. I think it's --
15 I mean, I don't know how important it's going to be to
16 the ultimate outcome of the case, but I think it has some
17 relevance.

18 And I think maybe the defendant opened the door to
19 this subject in alleging the other day through
20 cross-examination of Mr. Farnan that AIG had been
21 derelict in conducting its own business. And as I said
22 at the time, I didn't think that resonated very much
23 with me because I thought there were others participating
24 in this economic crisis to the same extent, if not more,
25 and I think this information would tend to corroborate

1 that.

2 MR. DINTZER: Could I be heard on that,
3 Your Honor?

4 THE COURT: Sure.

5 MR. DINTZER: Just along those lines -- and we
6 heard what Your Honor said about that, but to be clear,
7 Mr. Cragg had his report where he lays out what he
8 understands were the causes of AIG's problems. That
9 report and his rebuttal report and his deposition
10 existed before Mr. Roberson did the examination of
11 Mr. Farnan.

12 And to the extent that plaintiffs' expert is
13 providing basically a -- what they believe is a road map
14 to why AIG was not responsible for its conduct, that --
15 that -- we don't think that that has any relevance.

16 None of the people who came to talk about the
17 decisions that were made and the prices that were set on
18 the loans said that it was -- it was because of
19 malfeasance or anything along those lines.

20 But to the extent that they are offering this,
21 this information, and to the extent that AIG's problems
22 may have affected its riskiness in 2008, which the
23 plaintiffs are also making an issue out of based on
24 they're saying that there wasn't any reason to ask for
25 these terms, those are being raised by the plaintiffs.

1 And so I understand -- we absolutely heard what
2 Your Honor said about the testimony, about Mr. Farnan,
3 and we understand that, but it's important for the Court
4 to just understand that I believe Mr. Roberson was
5 eliciting that testimony in anticipation of the expert
6 who had already and was already planning on opining about
7 this.

8 THE COURT: Okay. Well, I appreciate that
9 explanation, but I just think under all of the
10 circumstances we have here that I'm going to allow this
11 testimony and the analysis that he's done.

12 MR. DINTZER: We understand. Thank you,
13 Your Honor.

14 THE COURT: All right. Very well.

15 MR. BOIES: And I will say, Your Honor, that we're
16 not going to spend a lot of time on this.

17 THE COURT: Sure. I understand.

18 MR. BOIES: We agree with the Court that this is a
19 tertiary or --

20 THE COURT: It's kind of a side issue.

21 MR. BOIES: It is. And I recognize it. But it
22 has floated in and out, and I wanted to just deal with it
23 directly.

24 THE COURT: Okay. Let's have Dr. Cragg come back
25 in.

1 (Whereupon, the witness was present in open
2 court.)

3 THE COURT: Thank you for your patience,
4 Dr. Cragg. The upshot of all of this is that you're
5 going to be allowed to talk about Plaintiffs' Trial
6 Exhibit 5321.

7 THE WITNESS: All right. I'll do my best since
8 you guys all discussed it already.

9 BY MR. BOIES:

10 Q. And could you summarize what significance this has
11 to you, but do so relatively quickly since we have been
12 through it.

13 A. Yes.

14 So one of the critical issues during this period
15 of time was the representations and warranties that were
16 being made on both -- on the collateral at all levels.
17 And as it turns out, many of those reps and warranties
18 were violated because of fraud in the underwriting
19 process, and so this -- this exhibit summarizes the
20 results of litigation related to these issues.

21 Q. And this relates to litigation brought against
22 Bank of America, Citigroup, JPMorgan, and involving
23 Merrill Lynch and Countrywide; is that correct?

24 A. Yes. Exactly.

25 Q. And you summarize here various statements that are

1 contained in Plaintiffs' Trial Exhibits 2734, 2527, 2473
2 and 2872; correct?

3 A. Yes.

4 MR. BOIES: And Your Honor, I would offer those
5 exhibits for the limited purpose of establishing the
6 statements made by the defendant there and to illustrate
7 what the witness has relied on in his analysis.

8 MR. DINTZER: We're going to object on relevance,
9 Your Honor, based on the argument that we've provided.

10 THE COURT: All right. The objection is
11 overruled, and the following exhibits are admitted for
12 the purpose stated: Plaintiffs' Trial Exhibits 2734,
13 2527, 2473 and 2872.

14 (Plaintiff's Exhibit Number 2734 was admitted into
15 evidence.)

16 (Plaintiff's Exhibit Number 2527 was admitted into
17 evidence.)

18 (Plaintiff's Exhibit Number 2473 was admitted into
19 evidence.)

20 (Plaintiff's Exhibit Number 2872 was admitted into
21 evidence.)

22 BY MR. BOIES:

23 Q. Dr. Cragg, I now want to move to what was
24 happening in the second half of 2007 and 2008, and you
25 talked about the default rates of subprime mortgages and

1 how those increased.

2 How did that affect that was happening in the
3 financial markets generally?

4 A. Well, if you remember yesterday, I was speaking
5 about the role that AAA collateral played in the
6 wholesale funding market. It was used as collateral in,
7 you know, trillions of dollars worth of repo
8 transactions. And the reason that collateral and the
9 level of wholesale lending increased was that
10 counterparties considered that collateral to be as good
11 as money, that they could lend back and forth, and they
12 didn't have to worry about counterparty credit risk.

13 It turns out that as you go into 2007-2008,
14 counterparties and the market overall became concerned
15 about that underlying assumption that AAA RMBS securities
16 could be treated like money and ultimately that lack of
17 confidence, as it plays itself out over the course of the
18 end of 2007 and then into 2008, into, you know, a massive
19 crisis in confidence as it turns out.

20 Q. And have you prepared some demonstrative exhibits
21 that illustrate the points that you're making?

22 A. Yes.

23 So starting on the PTX 5322, there are several
24 demonstratives which I think are useful for
25 demonstrating the dynamic that was occurring over this

1 period of time.

2 Q. Let's start with PTX 5322.

3 What does this exhibit demonstrate?

4 A. Well, this exhibit is -- you know, along the
5 horizontal axis we have time, and then on the vertical
6 axis we have index values for various tranches of
7 subprime RMBS.

8 The blue line corresponds to, you know -- it's an
9 index, so it's price levels that people thought that the
10 AAA RMBS were worth.

11 The orange line here corresponds to AA RMBS.

12 And then the red line corresponds to the
13 lower-quality BBB RMBS.

14 So that's what's shown in the picture. The
15 economic content of this I think well illustrates the
16 dynamic that was occurring in the wholesale and repo
17 markets.

18 So in particular, as people started to worry
19 about RMBS that contained subprime collateral, they no
20 longer accepted that in repo transactions. And that
21 started to lead to real problems in the market.

22 So you can think of, if you're not accepting that
23 as collateral, it starts to suck liquidity out of the
24 market, so, you know, someone who has an overnight repo
25 transaction that was covered with a AAA RMBS, at some

1 point the counterparties could say to you, Well, I'm not
2 going to roll the repo to the next day. You have to have
3 replacement collateral to keep your funding.

4 And that process started towards the end of
5 2007 and really accelerated in the beginning of 2008.
6 And if you're sitting there with a repo that you can't
7 roll overnight, you know, you have essentially, you know,
8 three options. You could try to deleverage. You could
9 try to raise funds to cover that financing by selling
10 your security. Or third, you can replace it with some
11 other collateral.

12 Or alternatively, the counterparty can take a
13 bigger haircut and say, I'll lend you less against this,
14 against this collateral.

15 THE COURT: You have some acronyms on this chart
16 that I wanted to ask you about.

17 What does "ABX" stand for?

18 THE WITNESS: So ABX is the -- it was -- this
19 index was created in 2006 by a company called Markit, so
20 they started selling securities on this index, so you can
21 buy or sell contracts as they relate to this ABX index.
22 In particular, "ABX" stands for asset-backed index.

23 THE COURT: And then remind me about PDCF and TSLF
24 in the first bullet.

25 THE WITNESS: So these are two credit facilities

1 or two liquidity facilities that were created by the
2 Federal Reserve.

3 "PDCF" stands for prime (sic) dealer credit
4 facility.

5 THE COURT: Yes. I've heard about them
6 previously.

7 THE WITNESS: Yeah.

8 BY MR. BOIES:

9 Q. Now, let me just ask a clarifying question.
10 You've got an index for AAA, you've got an index
11 for AA and you've got an index for BBB; is that correct?

12 A. Yes.

13 Q. Now, when we were going through and describing
14 CDOs yesterday, we talked about how you had a super
15 senior tranche, a AAA tranche. We then talked about a
16 single A tranche.

17 Was there also a AA tranche in here?

18 A. Yes. Exactly.

19 Q. So these were just examples.

20 A. Those were examples, yes.

21 Q. There would be additional tranches.

22 A. Exactly. There would be layers of securities
23 ultimately. I can't remember what the average is, but
24 certainly over six layers of securities for any -- the
25 financing of any SPV.

1 Q. And what does this show in terms of the index for
2 BBB subprime securities?

3 A. Well, with the BBB subprime securities, you know,
4 very rapidly the market lost its confidence in there
5 being cash flows adequate to back the interest and
6 principal payments that were owed on those securities.

7 Q. And are these securities what we referred to
8 yesterday as RMBSs?

9 A. Yes.

10 So I think you -- it's the previous picture that
11 you have.

12 Q. It's on my RMBS chart, which is PTX 5390 for
13 identification.

14 The BBB doesn't get paid until after the tranches
15 above it are paid; is that correct?

16 A. That's right.

17 And we talk about the bathtub, you know, the
18 first -- as the money is flowing out of the pool of
19 mortgages, it first goes into the RMBS bucket -- sorry --
20 the super senior bucket. And then once that's full, it
21 then goes into the AAA bucket. And then once that's
22 full, it goes into the single A bucket, and so on.

23 I mean, effectively that's how the cash flows are
24 being distributed across the different securities. And
25 you can see why the super senior has the highest rating

1 because they're getting the first slice of the cash flows
2 that come out of the pool of mortgages.

3 Q. Now, with respect to the AA index that's shown on
4 PTX 5322, it falls very sharply, and then in the last
5 quarter of 2009 and continuing in 2010 into early 2011,
6 it goes up and then comes down a little bit and then goes
7 up again.

8 A. Yes.

9 Q. Whereas, the BBB sort of flat-lines down at about
10 5 or 10 percent; correct?

11 A. That's right.

12 Q. What was causing the increase and then the
13 decrease and then the increase again in the AAA index, as
14 you understood it?

15 A. So for both the AAA and the AA indices, I had
16 just started to describe the process of illiquidity
17 being created in the repo market. And the core piece
18 that leads to investor uncertainty here is people start
19 to see the default rates on the 2007 and 2006 subprime
20 collateral, and they make a number of inferences from
21 that.

22 One is, well, they'd like to know what its impact
23 is on the intrinsic value of these bonds and then -- and
24 by that I mean, if you looked objectively at the cash
25 flows, what would you value them at. And then they

1 realize like, well, I can't actually tell what the cash
2 flows are because it's all embedded in this very
3 complicated, you know, structure. It's like, you know, a
4 colander full of spaghetti. If you start to try and,
5 you know, pull one, you know, piece of spaghetti you
6 can't -- I mean, it's all tangled up.

7 And so that causes, you know, a loss of confidence
8 in all securities that contain subprime collateral.

9 And what you see during this period -- and you see
10 this reflected in the discussions at the FOMC -- is that
11 the concept of fire sale pricing or panic pricing sets
12 in.

13 So there's a liquidity spiral that happens. I
14 started to describe it. At first, you can't roll your
15 repo, so your option is I can either sell this or replace
16 it. But the core of that is that no longer is the
17 underlying security illiquid, so it's -- you know, as a
18 result, you've got to find a replacement.

19 Those who can't find a replacement have to sell.
20 And that creates, you know, fire sale pricing. And that
21 then reinforces this downward spiral as the next person
22 who, you know, suffers from this fire sale pricing then
23 sees that the haircut on their repo is even higher, and
24 it all becomes a self-reinforcing spiral down where, for
25 this type of collateral, the market has lost its

1 confidence in the underlying value.

2 And what's I think very interesting about both the
3 AA and the AAA indices is that you see them, you know,
4 particularly falling rapidly in March and then after
5 September again, when market confidence is really
6 declining. And then after the recovery, when people
7 begin to realize that, you know, our confidence is --
8 our lack of confidence is unwarranted, you see the
9 pricing of these -- of this AAA and AA collateral
10 bouncing back.

11 So it reflects -- these indices really reflect
12 the lack of liquidity, the panic pricing, the fire sale
13 prices, and then when they -- when liquidity starts to
14 return to the market, not surprisingly, the indices also
15 recover.

16 Q. Let me ask you to look next at PTX 5323, and is
17 this a demonstrative that you prepared?

18 A. Yes.

19 Q. And what are you trying to illustrate in this
20 demonstrative?

21 A. So this demonstrative summarizes what was
22 happening and the importance of the repo market.

23 So if you remember yesterday, I had spoken about
24 how repo was very important in the parallel banking
25 system, and it was particularly important to

1 broker-dealers who were at the center of the parallel
2 banking system because, you know, half of their funding,
3 half of their balance sheet was supported by repo and --
4 and they're highly levered, so for them, the repo market
5 is extremely important.

6 What you see with the overall size of the repo
7 market is that by the time we get to March 2008, it's
8 over \$4 trillion, about \$4.5 trillion. And it starts to
9 fall off very rapidly following the cycle that I just
10 described, so by the time you get to September of 2008, a
11 trillion dollars has been drained out of this market, so
12 a trillion dollars of financing has been, you know,
13 sucked out of the wholesale market. And that cycle
14 continues, so another trillion dollars is lost again over
15 the period September to December 2008.

16 So this crisis of confidence and the lack of --
17 you know, the illiquidity that is reflected in the RMBS
18 market has a really important impact on financial markets
19 and particularly those that are at the center of the
20 parallel banking system.

21 Q. Now, you said one of the alternatives that
22 broker-dealers had when confronted with this collapse was
23 to deleverage. Do you recall that?

24 A. Yes.

25 Q. And did you prepare a chart that illustrated the

1 extent to which that actually happened?

2 A. Yes.

3 PTX 5324 is a continuation of the earlier chart
4 that we looked at. I can't remember what number it is,
5 but it looks just the same. And it shows that going from
6 Q1 of 2008 forward there's a very rapid deleveraging that
7 starts to happen.

8 And one of -- you know, we talked a little bit
9 about the GSEs yesterday, you know, the
10 government-sponsored entities that guarantee a huge
11 fraction of the RMBS market. There's actually over this
12 period real concern about them also, and so that's
13 another factor that's leading to the illiquidity in the
14 RMBS market. And then how that, you know, ultimately
15 gets, you know, reflected is shown in the average --
16 leverage ratios for primary dealers, so that as that
17 trillion dollars and then -- grows to \$2 trillion
18 dollars, that forces a deleveraging of the primary
19 dealers.

20 And of course, that -- you know, those who,
21 you know, don't have access to liquidity have to start
22 selling securities, and that just reinforces this whole
23 negative dynamic, this whole negative cycle.

24 Q. Now, we talked yesterday about how with respect to
25 these multi-sector CDOs that AIG issued the CDSs only for

1 the super senior CDOs. Do you recall that?

2 A. Yes, I do.

3 Q. And did you prepare a chart that gives examples of
4 evidence that you relied on in determining the
5 significance of that?

6 A. Yes.

7 PTX 5323 summarizes AIG's approach to managing its
8 CDS portfolio.

9 Q. And would you go through these points and explain
10 what their significance is.

11 A. Certainly.

12 So first off, the CDS contract itself is a
13 negotiated contract. And AIG was negotiating the
14 coverage, the insurance that it would provide on the
15 super senior layer of the CDO. It did two things in its
16 negotiation.

17 One is, it, you know, tried to ensure that the
18 cushion that lay below the super senior CDO was large, so
19 it was trying to make the share of the cash flows that go
20 to the super senior -- you know, just making that share
21 smaller so that any losses get suffered in the tranches
22 below.

23 In terms of its calculation of where the division
24 between the super senior tranche and the AAA tranche
25 occur, that's called, you know, the attachment point. In

1 negotiating the attachment point, AIG was stressing the
2 cash flows so that in all but the most extreme
3 circumstances, using the post-war period, that in all
4 those circumstances AIG would not lose money, so that --
5 would not have to make a payments under the CDS
6 contracts, so, you know, that could or could not result
7 in it losing money ultimately. But it was trying to
8 ensure that there wasn't going to be default coverage
9 that it was going to be exposed to.

10 Q. Can I just stop you for a second.

11 You mentioned "attachment point," and would you
12 explain what you mean by "attachment point."

13 A. So the attachment point -- let's say the -- for
14 this CDO that we have in PTX 5391 that 80 percent of the
15 securities are subordinated to the super senior security.
16 That would mean that the attachment point is at the -- is
17 at 20 percent.

18 So it's a way -- it's the industry lingo for,
19 you know, saying what fraction of the SPV is actually
20 insured.

21 Q. Let me be sure I understand it.

22 If the attachment point were 20 percent, that
23 would mean that as long as the pool of securities threw
24 off 20 percent of what they were supposed to throw off,
25 the super senior tranche would be okay?

1 A. Yes.

2 Q. But if it only threw off 19 percent, there would
3 be a loss of 1 percent by the super senior?

4 A. Yes.

5 Q. And if it threw off 25 percent, 20 would go to the
6 super senior and 5 would go down to the AAA?

7 A. Yes.

8 Q. Now, were there any other provisions in CDS
9 contracts that AIG negotiated that were designed to limit
10 its risk other than only providing protection for the
11 super senior tranche?

12 A. Yes.

13 So in terms of how these contracts were designed
14 to pay off, these are called physical settlement
15 contracts, which means that if there's an event of
16 default, AIG pays to the counterparty the par value of
17 the bond, and then it gets the bond back and then it
18 receives the cash flows from the bond.

19 So that's kind of how the contract works. That's
20 different than the contracts that were used in the
21 2006 and 2007 periods, which were called pay-go contracts
22 or pay as you go, which meant that for each time there
23 was a cash flow shortfall, the insurer would make up for
24 the difference, so they're just going along, you know,
25 over time making sure that the cash flow is there, but

1 they don't actually get the security back.

2 So AIG's contract is, you know, substantially
3 different in that way.

4 The other aspect of the contract that matters
5 during this period of time is that in terms of -- so you
6 can imagine, with a contract like this you'd want the
7 counterparty to post collateral if they're going to have
8 to buy back the bond at some point in time.

9 The amount of collateral that AIG was required to
10 post, it only did so after the bond fell in price, let's
11 say, you know, 10 percent, so there's a period where it
12 doesn't have to post any collateral. It's only after
13 there's a significant fall in the price of the underlying
14 security that it has to then post collateral on the
15 contract.

16 Q. Did AIG also have to post collateral in the event
17 that AIG was downgraded in terms of its rating?

18 A. Yes.

19 So there are two ways that that collateral
20 threshold moves around. One is if the underlying credit
21 rating in the bond changes. And then the other is if
22 AIG's credit rating declines.

23 So as AIG's credit decline -- credit rating
24 declines, that threshold amount gets smaller so that that
25 the cushion before it has to post collateral gets

1 smaller.

2 Q. Now, the fourth point on your chart
3 PTX 5325 refers to the percentage of AIG's CDS portfolio
4 that was diversified.

5 Do you see that?

6 A. Yes.

7 Q. Did you prepare a chart that deals with that in
8 greater detail?

9 A. Yes.

10 So the point here is that the -- AIGFP's overall
11 CDS portfolio is not -- is diversified. It's not all
12 invested in multi-sector CDS.

13 If we look at PTX 5326, this illustrates the point
14 that we saw in the last slide, which is that the
15 multi-sector -- that the CDS on multi-sector CDOs was
16 limited to 20 percent of the overall notional value.

17 You can see here in PTX 5326, which is simply a
18 chart of the fraction of the overall CDS portfolio that
19 the multi-sector CDOs represents, so the overall
20 portfolio that AIGFP held was \$441 billion, and the
21 multi-sector CDOs represent \$80 billion of that total
22 portfolio or 18 percent.

23 The largest portion of the CDS portfolio was for
24 what are called regulatory capital arbitrage CDS. And
25 when you look at the history of that and the corporate

1 arbitrage portfolio, neither of those had, you know,
2 substantial losses. Through September 2008, both
3 those -- you know, the major part of AIG's CDS portfolio
4 had lost \$400 million.

5 Q. Now, \$400 million sounds like a lot of money, but
6 that compares to regulatory capital of \$307 billion; is
7 that correct?

8 A. Yes.

9 Q. Let me go back to your chart PTX 5325.
10 The last point, can you explain the significance
11 of that.

12 A. So the last point here is that AIG had
13 constructed this portfolio so that it was a low-risk
14 portfolio. It was designed so that it wasn't going to,
15 you know, make payments, even looking at the most
16 stressed of scenarios over the last half century. And in
17 fact, it didn't actually have any, you know, events of
18 default until well into 2008.

19 And then perhaps most importantly, it wasn't
20 until September 30, 2007 did you have any collateral
21 calls that were being made on the CDS contracts.

22 And so even though there was concern about the
23 pricing of the underlying bonds, you know, as the
24 financial crisis started, it wasn't until into 2008 that
25 AIG had to start making -- posting collateral on these

1 contracts.

2 Q. In 2007, did AIG, as you investigated it,
3 undertake any actions to try to address potential
4 liquidity issues that it might face?

5 A. Yes.

6 As you could imagine, once the housing prices had
7 peaked in 2006 and they were starting to come down and
8 people started to observe what was happening with the
9 default rates on subprime mortgages, there was, you know,
10 overall concern in the market because nobody actually
11 knew where the subprime mortgages were.

12 And AIG, you know, proactively started to tell its
13 investors, its clients where it was exposed to subprime
14 risk and how it was managing that risk, so it definitely
15 started taking steps, and they're really quite -- what it
16 was doing was quite public.

17 Q. And did you prepare a demonstrative illustrating
18 some of the evidence that you took into account in
19 reaching that conclusion?

20 A. Yes.

21 If you look at PTX 5327, I've highlighted a
22 number of actions that AIG began to take to deal with
23 potential liquidity issues that would come out of that
24 point -- you know, the recession started in December of
25 2007 -- the actions it took as people began to think that

1 a recession was starting, so a number of actions that it
2 took to deal with potential liquidity issues.

3 In November 2007, it made investor presentations
4 about what it was doing, and it formed a liquidity risk
5 committee to, you know, prepare for stress scenarios in
6 the current marketplace, so it was to deal with,
7 you know, the stress that would be expected in the normal
8 course of action or normal course of a downturn.

9 AIG had -- as part of its investment portfolios,
10 there had been demand to borrow bonds from hedge funds
11 and from broker-dealers for their clients, and AIG was
12 lending out bonds. That's called securities lending.

13 When you make a loan of a security in a
14 securities lending deal, you get collateral back, and
15 the parties agree to how the collateral is invested, and
16 then they split the proceeds from the -- from that
17 investment.

18 So if you -- if I lend you a corporate bond, you
19 could give me cash or Treasuries back. I then invest
20 that cash in some kind of security. In this case they
21 were investing some of it in RMBS. And then I share the
22 proceeds with you when you give me back my bond and then
23 I give you back your collateral with a return on it.

24 AIG in the third quarter of 2007 had started to
25 reduce the size of its securities lending portfolio that

1 had been invested in RMBS. By the time we get through
2 September 2008, AIG had reduced the overall size of its
3 securities lending portfolio that was invested in RMBS.
4 It had reduced that by 25 percent, so it was pulling out
5 of that market.

6 Q. In addition to those steps, did AIG undertake any
7 efforts to raise additional capital from the private
8 market?

9 A. Yes.

10 So as the financial crisis develops and starts to
11 blossom, in March and April, it started to have to make
12 collateral postings on its CDS portfolio. And it was, as
13 I described earlier, worried about its overall liquidity
14 needs.

15 In May 2008, AIG raised \$20 billion, and then
16 again on August 18, 2008, AIG raised another
17 \$3.25 billion, so it was raising money through the
18 2008 period to bolster its liquidity needs.

19 Q. Now, you mentioned mark-to-market losses --

20 A. Yes.

21 Q. -- and collateral postings?

22 Did you analyze the extent to which the collateral
23 calls that were being made by counterparties deviated
24 from the intrinsic values of the underlying CDS contracts
25 and their underlying CDO security?

1 A. Yes, I did.

2 Q. And what did you conclude?

3 A. Well, overall, you know, my primary conclusion is
4 that the amount of collateral that AIG was required by
5 its counterparties to post way exceeded any reasonable
6 estimate of the actual risk of nonpayment on the CDS
7 contracts. You know, if you look at the -- you know, the
8 underlying CDO contracts that AIG was insuring, the risk
9 there was very small and the risk had not actually been
10 really realized.

11 And so the process that was under way, you know,
12 Chairman Bernanke described it this way, that it was like
13 mad cow disease. And I think he got that analogy from a
14 colleague of his named Gary Gorton who called it E. coli
15 disease, where what was happening -- and they called --
16 both of them referred to it that way, is because the fear
17 of the impact of subprime was just like the fear that
18 happens in the food market where, when you hear about,
19 you know, potential tainting of food in some part of the
20 country, everybody stops consuming that.

21 And that's what happened with securities that
22 were -- that had a taint of subprime with them. People
23 fled from those securities and then destroyed the market
24 for anything that's related to subprime collateral.

25 MR. BOIES: Your Honor, I would -- with respect

1 to PTX 5327, I would offer Plaintiffs' Trial
2 Exhibits 500 and 625 for purposes of illustrating what
3 the witness has relied on.

4 MR. DINTZER: Your Honor, we have no problem with
5 them coming in under 703 for the sole purpose to support
6 the witness' testimony. I believe that's what counsel is
7 proffering them for.

8 THE COURT: Yes.

9 MR. BOIES: Yes.

10 MR. DINTZER: If that's it, then we do not object
11 to that for that sole purpose.

12 THE COURT: All right. Plaintiffs' Trial
13 Exhibits 500 and 625 are admitted for the stated
14 purpose.

15 (Plaintiff's Exhibit Number 500 was admitted into
16 evidence.)

17 (Plaintiff's Exhibit Number 625 was admitted into
18 evidence.)

19 BY MR. BOIES:

20 Q. Did you prepare some demonstratives that show the
21 deviation, in your judgment, of the mark-to-market value
22 or collateral call demands and the intrinsic values of
23 the underlying AIG CDS contracts?

24 A. I did. It's PTX 5328.

25 Q. And can you explain briefly what this refers to.

1 A. So this chart has three bars. The first bar
2 represents what BlackRock had -- and I'll explain what
3 they were doing in just a second -- what BlackRock
4 projected would be the maximum losses associated with the
5 AIG -- if it actually got the CDO portfolio, what the
6 maximum losses would be. And that -- those losses are
7 the difference between the dotted line here, which is the
8 total notional amount of the portfolio, which is
9 \$77 billion. That's what AIG would have to pay to the
10 counterparties to buy all the bonds. If it did so,
11 BlackRock estimated that that bond portfolio was worth
12 \$69.8 billion, and that's in their base case.

13 Now -- and let me just explain. In the stress
14 case, BlackRock said that that portfolio was worth
15 \$61.9 billion.

16 Now, BlackRock was a -- is a very well-known
17 investment management service, does a wide variety of
18 activities in the fixed-income market. And AIG had hired
19 them, then eventually the Federal Reserve Bank of
20 New York hired them, to value the intrinsic value of the
21 AIG portfolio.

22 And the way they did that was to project what
23 would be the cash flows associated with the SPVs over
24 time, so it went through the calculations that I had
25 alluded to yesterday about what would be the impact of

1 defaults, the drop in housing prices, how would those
2 impact the cash flows that came out of the SPV as they
3 flow into the CDOs that are insured by AIG.

4 So BlackRock made those projections, and these are
5 the results of those projections.

6 So the losses --

7 Q. Let me just stop you for a second because I want
8 to be sure that I'm understanding what you're saying.

9 The notional value of the AIG multi-sector CDO CDS
10 portfolio was at this point in time \$77.1 billion; is
11 that correct?

12 A. Yes.

13 Q. And what is the time that that is true for?

14 A. So we're looking at the end of September 2008, so
15 right -- you know, this is -- you know, the beginning and
16 end of September 2008, that's the size of the notional
17 amount or the par value of the bonds that AIG had written
18 CDS contracts on.

19 Q. And am I correct that what you're saying is that
20 in the base case, BlackRock estimates that the value of
21 that portfolio is not 77.1 billion but is only
22 69.8 billion?

23 A. That's correct.

24 Q. And that would imply a \$7.3 billion loss.

25 A. Exactly.

1 Q. And BlackRock also did a stress case?

2 A. It did a stress case, yes.

3 Q. And in the stress case, they estimated that there
4 would be a \$15.2 billion loss so that the portfolio was
5 only really worth \$61.9 billion?

6 A. Yes.

7 So that 15.2 billion that you mentioned is the
8 difference between the notional amount, the dotted line
9 here of 77.1 billion, and the gray bar, which is
10 61.9 billion.

11 Q. And with respect to the collateral postings,
12 you're saying, as of this time, AIG had already posted
13 \$36.9 billion?

14 A. That's right.

15 Q. And that implied that the portfolio was only worth
16 40.2 billion.

17 A. Yes.

18 Q. That is that there would be a loss of 36.9 billion
19 on it.

20 A. That's exactly how -- well, so they had posted
21 collateral of \$36.9 billion, and the implied value of the
22 portfolio was \$40.2 billion therefore.

23 Q. Did you investigate as to how it actually turned
24 out, that is, what the underlying values of the AIG
25 multi-sector CDS portfolio turned out to be?

1 A. Yes, I did.

2 Q. And do you have a chart on that?

3 A. That's at PTX 5329.

4 Q. And can you explain what this shows.

5 A. So I've looked at what was the actual cash flow
6 experience on the CDOs, how do they actually perform over
7 time, so up through earlier this year, to see what the --
8 you know, the implied -- you know, what the actual
9 experience has been on this portfolio.

10 And the -- the implied -- so the CDS contract
11 implies an outflow or a loss of cash when AIG has to
12 perform on the contract, so when it performs, it gets the
13 bond back. And what this orange line represents is the
14 shortfall in expected cash flows from the bond.

15 So they were expected to pay an additional
16 \$16.6 billion over the last five or six years, so the
17 actual cash flows from these bonds has been lower than
18 expected.

19 When you compare that to the cash flow projections
20 that BlackRock made, so their base case is slightly below
21 that, they expected the cash flow projections to be about
22 \$15.7 billion short of what the bonds were contracted to
23 pay. And then in their stress scenario, the shortfall in
24 cash that's being generated by the CDOs relative to their
25 contract amounts is \$23.5 billion.

1 So it turns out that BlackRock, you know, did a
2 very impressive job of projecting what the actual cash
3 flows have looked like. And if you look at the
4 underlying assumptions that they use, one of the most
5 remarkable things is that they almost perfectly projected
6 the -- so in 2008, they almost perfectly projected the
7 path of housing prices over the last six years. You
8 might say they're in the wrong business, but that's what
9 they did.

10 Q. Would you turn to Plaintiffs' Trial Exhibit 5330.
11 Is this an exhibit that you prepared?

12 A. Yes.

13 Q. And can you explain briefly what this exhibit
14 shows.

15 A. So I've described to -- this panic pricing, the
16 mad cow effect, and it has a massive impact on AIG in
17 that AIG has to post collateral to its counterparties,
18 and it has to post collateral which is far in excess of
19 any reasonable measure of risk, as the BlackRock
20 projections show.

21 In this graph, I have the actual collateral calls
22 over time. That's the blue line.

23 So starting in June 2008, AIG had posted just over
24 \$15 billion of collateral. Over the course of the
25 summer, it increased by \$5 billion.

1 And then as you go into the financial crisis and
2 in particular AIG's downgrade on September 15, the
3 collateral calls on AIG increase from about \$23 billion
4 up to \$35 billion. And by this point, the collateral
5 calls exceed BlackRock's stress projections by over
6 \$20 billion, so AIG has posted \$20 billion of excess
7 collateral relative to any risk, you know, any reasonable
8 measure of risk.

9 MR. BOIES: Your Honor, with respect to
10 Plaintiffs' Trial Exhibit 5330, I would offer
11 Plaintiffs' Trial Exhibit 266 for the limited purpose of
12 illustrating what the witness has relied on.

13 MR. DINTZER: No objection, Your Honor.

14 THE COURT: All right. Plaintiffs' Trial
15 Exhibit 266 is admitted for the stated purpose.

16 (Plaintiff's Exhibit Number 266 was admitted into
17 evidence.)

18 BY MR. BOIES:

19 Q. Let me ask you to turn to PTX 5332.

20 And is this an exhibit that you prepared?

21 A. Yes.

22 Q. And am I correct that the blue line here is the
23 same blue line as what appears on PTX 530?

24 A. They're identical. Yes.

25 So that's the -- that blue line, the dark blue

1 line that you're referring to, are the actual collateral
2 calls that AIG's counterparties made.

3 Q. And what is this PTX 5332 designed to illustrate?

4 A. Well, it's designed to illustrate the difference
5 between the collateral calls and the actual defaults on
6 the underlying CDOs.

7 If you look at the very bottom, close to zero
8 here, there's a dotted blue line. Prior to September --
9 that dotted blue line represents the actual events of
10 default that occurred on the multi-sector CDO that
11 under- -- that were -- that the CDSs had insured. There
12 are only three events of default.

13 And so on an event of default, AIG has to buy back
14 the bond and it gets the bond back in return. That
15 represents 6 percent of the total notional amount of the
16 CDS portfolio, so less than \$3 billion up through,
17 you know, the Lehman failure.

18 So when you look at the realized risk on this
19 portfolio, it was very small.

20 Q. Now, this line of collateral postings jumps up
21 around September 15; is that correct?

22 A. Yes.

23 Q. Now, if you turn to Plaintiffs' Trial
24 Exhibit 5339?

25 A. Yes.

1 Q. Does this show the daily net outflows from
2 collateral postings and securities lending?

3 A. Yes.

4 So PTX 5339 is an amalgam or the combined amount
5 of collateral that AIG was posting each day, and it's
6 combined with the shortfall on securities lending, so on
7 any given day with the securities lending portfolio there
8 could be a shortfall on the loans that came due, so AIG
9 would owe money to its counterparties that way. And then
10 there's some other collateral calls on another small
11 portfolio.

12 So this is the combined outflow on any single day.
13 And you can see on September 15, the total cash flow
14 impact or liquidity impact on AIG of the downgrade, as
15 well as the run that by this point was occurring on its
16 securities lending portfolio, as well as other wholesale
17 funding for AIG, that that day required an outflow of
18 \$14.3 billion.

19 Q. When did Lehman declare bankruptcy?

20 A. On that day. It was I think 12:42 in the
21 morning.

22 Q. So that September 12 was the last business day
23 before Lehman declared bankruptcy, and September 15 was
24 the first business day after Lehman declared bankruptcy?

25 A. Yes. It also coincided with the first day that I

1 started working at the Brattle Group, but that's less
2 important to the story.

3 Q. And I hope there was no causal connection.

4 A. I hope not, too.

5 Q. Now, am I correct that looking at your chart,
6 PTX 5329, prior to September 12, during the month of
7 September, AIG had only had a net outflow from collateral
8 postings and securities lending combined of less than a
9 billion dollars?

10 MR. DINTZER: Your Honor, we don't mind a little
11 leading, but that probably crosses the line for us, so
12 we'll have to object on that one.

13 THE COURT: All right. Maybe you can rephrase?

14 MR. BOIES: I will, Your Honor.

15 BY MR. BOIES:

16 Q. If you look at what you've prepared as
17 Plaintiffs' Trial Exhibit 5339, how much net outflow
18 from collateral postings and securities lending had AIG
19 made in the month of September prior to September 12?

20 A. Well, you can calculate that by adding up these
21 blue bars through November 11. And if you add those up,
22 they combine to less than a billion dollars.

23 So even though earlier in the month you had the
24 government taking over the GSEs -- I think that was on
25 the 8th and 9th of September -- it hadn't -- its -- how

1 would you say it -- its liquidity outflow -- it was
2 keeping up with its liquidity outflow and it wasn't
3 getting stressed, at least at the beginning of the
4 month.

5 Q. Okay. So September 1 to 11, how much was it?

6 A. A billion.

7 Q. A billion?

8 A. A billion dollars, yes.

9 Q. Are you rounding?

10 A. I'm rounding, yes.

11 Q. What was it?

12 A. 900 million.

13 Q. And then on September 12 what was it?

14 A. Well, on -- and so of that billion dollars, I
15 should note that \$700 million flowed out on September 11.
16 On September 12, \$1.7 billion flowed out of AIG that day.
17 And what was -- so that's Friday. By that point -- so
18 that's 1.7 or -- is that what you wrote or is that
19 17 billion?

20 Q. 1.7 billion.

21 A. Sorry. I couldn't see the decimal point.

22 AIG was starting to really have trouble
23 maintaining its wholesale funding sources, so it was
24 having trouble rolling its commercial paper. It was also
25 no longer able to roll its securities lending. And then

1 there are a couple of other programs where it was
2 beginning to experience the beginning of a run on AIG as
3 the market started to pull back from AIG specifically.

4 Q. And how much were AIG's cash outflows from
5 collateral postings and securities lending on
6 September 15, that one day?

7 A. That one day, that's \$14.3 billion.

8 Q. And how about on the 16th?

9 A. On the 16th it was another 7 billion.

10 Q. Did you reach a conclusion as to what effect, if
11 any, the Lehman bankruptcy had on financial markets in
12 general and AIG in particular?

13 A. Well, the events around that period and
14 specifically the failure of Lehman, which also coincided
15 with the effective failure of Merrill Lynch because it
16 was taken over by B of A that weekend, that caused
17 enormous disruption in an already fragile market. And
18 it -- it affected every -- every major financial firm.

19 Q. And have you prepared demonstrative exhibits that
20 summarize some of the evidence that you have relied on in
21 reaching that conclusion?

22 THE COURT: Before we get to that, maybe we'll
23 take a morning break. We'll come back at 11:15.

24 (Court in recess.)

25 THE COURT: You may go ahead.

1 MR. BOIES: Thank you, Your Honor.

2 BY MR. BOIES:

3 Q. Dr. Cragg, would you look at Plaintiffs' Trial
4 Exhibit 5333.

5 A. Yes.

6 Q. And is that a document that you prepared?

7 A. Yes, I did.

8 Q. And what is the purpose of preparing that document
9 or what does it demonstrate?

10 A. Well, it -- I think it's a summary -- my own
11 opinion is that, you know, Lehman Brothers and the
12 failure of Lehman Brothers and the series of events that
13 happened to the financial sector at that point in time
14 was, you know, incredibly destabilizing, and I don't
15 think there's any -- anyone in the economics or finance
16 community that disagrees with that. These are a number
17 of quotes that correspond to my own conclusion.

18 Q. And what about Plaintiffs' Trial Exhibit 5334? Is
19 that a document you prepared?

20 A. Yeah. I think this is a -- again, it's I think an
21 undisputed fact among scholars and financial
22 practitioners that in that period of time the liquidity
23 crisis affected everybody. You know, it affected solvent
24 firms tremendously. It just -- during that -- you know,
25 during September 2008, it was, you know, in terms of the

1 impact on liquidity -- and I'm emphasizing liquidity, not
2 solvency -- it was tremendous.

3 You know, Chairman Bernanke in his FDIC testimony
4 summarized it well when he said: During September and
5 October of 2008, 12 of the 13 most important financial
6 institutions in the United States had either failed or
7 were at risk of failure. And he said that here at trial
8 also.

9 Q. Let me ask you to look at Plaintiffs' Trial
10 Exhibit 5335.

11 Is this a demonstrative exhibit that you
12 prepared?

13 A. Yes, it is.

14 Q. And what does it show?

15 A. Well, this is a calculation -- this is a graph of
16 the difference between overnight LIBOR, which is the
17 London interbank offer rate, so it's the rate at which
18 banks lend to each other, subtracted for the -- from the
19 OIS spread, which is the expected return on Treasuries
20 for that same day, so it's the difference between,
21 you know, the risk-free rate and then the rate that banks
22 charge each other. And that spread is used in a lot of
23 research as a way of analyzing when financial events
24 happen.

25 And you can see that during the crisis week, when

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1 Lehman, Morgan Stanley, Goldman Sachs, Merrill Lynch,
2 when the money market mutual funds, the commercial paper
3 market, when AIG, when all of those events were happening
4 at the same time, the overnight LIBOR spread skyrocketed
5 and hardly surprising because nobody wanted -- everyone
6 was hoarding their liquidity. They were all, you know,
7 in fear of failure, because of liquidity.

8 Q. Let me ask you to look at PTX 5338.

9 Is that a chart you prepared?

10 A. Yes, it is.

11 Q. And what does that illustrate?

12 A. Well, this corresponds exactly to -- so that -- so
13 just -- so first off to say that this is the CDS spread,
14 credit default spread for AIG, so it's the -- if you
15 wanted to bet on AIG's failure, you'd buy a credit
16 default swap.

17 And you can see that AIG, you know, through the
18 beginning of September, its credit default swap was,
19 you know, rising slightly but basically, you know, flat.

20 And then corresponding exactly actually to your
21 demonstrative on the flip chart there, as that cash
22 begins to flow out of AIG, which is happening exactly at
23 the same time that everybody is experiencing that
24 liquidity crisis, you see AIG's CDS spread skyrocket.

25 And that's because the market saw that there's a

1 run on AIG, and so if you wanted to make a bet on AIG's
2 failure, which you would do by buying a credit default
3 swap, that becomes a very expensive proposition, which
4 reflects the likelihood of AIG's liquidity problems
5 leading to a default.

6 Q. Is it fair to say that Plaintiffs' Trial
7 Exhibit 5335 illustrates the effect of the Lehman
8 bankruptcy on the market generally as it related to banks
9 lending to each other?

10 A. Yes.

11 Q. And is it fair to say that Plaintiffs' Trial
12 Exhibit 5338 reflects the effect of the Lehman bankruptcy
13 on AIG?

14 A. I -- yes. In the sense that both the Lehman
15 bankruptcy and the events on AIG, it's all in a lot of
16 ways -- there's a lot of feedback that's happening in the
17 system.

18 The failure of Lehman and Merrill Lynch and,
19 frankly, the other investment banks over that week have
20 an enormous impact on the market overall, which has an
21 enormous impact on AIG. But, you know, there's feedback
22 between all of these events.

23 Q. And let me ask you to look next at
24 Plaintiffs' Trial Exhibit 5341.

25 A. Yes.

1 Q. Is that a chart that you prepared?

2 A. It is, yes.

3 Q. And can you explain what this shows.

4 A. Well, this shows the cumulative liquidity outflow
5 from AIG over the course of 2008, so I'm taking a longer
6 snapshot over time.

7 And if you look at the beginning of the year, on
8 December 31, 2007, AIG had posted only \$2.7 billion of
9 collateral. It had no problems rolling its commercial
10 paper at that point. There was no -- it had no issues of
11 liquidity.

12 And then over the course of the -- up through the
13 summer and even up to August 31, 2008, AIG is steadily
14 posting more collateral on its CDS contracts. You know,
15 it's raised money during this period. It's raised
16 \$23 billion during this period. But there's this,
17 you know, crazy mismatch between the true value of the
18 CDOs that it had insured and, you know, the way they were
19 being marked.

20 During that first week of September, so going from
21 August 31 to September 8, as your chart reflects there,
22 there's no change in the amount of cash outflow from AIG.
23 And then as your chart indicated as we looked at it more
24 closely, the run on AIG begins to start. And by "run" I
25 mean counterparties getting nervous about AIG and its

1 ability to repay short-term funding. And then that takes
2 off with the failure of Lehman, and so on.

3 So on the day -- over the course of Friday to
4 Monday, September 15, when the Lehman bankruptcy
5 occurred, and then to the end of the week, AIG in one day
6 posts an additional 15 or so billion dollars and then
7 over the rest of the week -- so that's the difference
8 between the value on Monday, the 15th, 49.1, and Friday,
9 the 12th, 34.7, so that's about \$15 billion.

10 Q. That's how much?

11 A. 15.

12 And then --

13 Q. Do you want to add that -- do you want to take
14 that arithmetic issue a second time?

15 A. So I'm taking the difference between 49 and 34.

16 Q. Oh, that's the 15.

17 A. Yeah.

18 Q. I got you.

19 A. And then going out to the rest of the week is
20 \$25 billion.

21 Q. I got you.

22 So it goes up 15 and then up another 25?

23 A. Yes.

24 Q. So it goes up --

25 A. \$40 billion over a five-day period or, you know,

1 five-business-day period.

2 Q. And this is the cumulative liquidity outflows
3 from collateral postings, postings related to downgrades
4 and securities lending balance outflows; is that
5 correct?

6 A. Yes. The -- when you say the -- AIG's downgrade,
7 its impact, its impact is on collateral postings. If you
8 remember, when I talked about that threshold amount on
9 the CDS contracts, that threshold gets smaller, and so
10 when there's a -- with a downgrade, and so AIG has to
11 post collateral as a result of the downgrade.

12 And so what you have is this -- I think -- I know
13 in my report there was a picture of -- maybe it's in here
14 somewhere -- of AIG's liquidity spiral.

15 Q. Was that -- let me just see.

16 Was that Plaintiffs' Trial Exhibit 5336?

17 A. Yes. 5336, exactly.

18 This summarizes I think the series of market
19 impacts that were happening to AIG.

20 So at the beginning of the year you have
21 downgrades on the CDO portfolio. Those are the
22 securities underlying it. The counterparties demand
23 collateral for those contracts. It turns out that that
24 is right in the middle of this mad cow period. I call
25 this the run -- actually, Gary Gorton, who I think -- who

1 presented this theory to the Federal Reserve Board in
2 August, where they have a retreat every August. He
3 presented this, called it the run on repo.

4 So the run on repo is happening. That leads to
5 negative valuation adjustments. That leads to collateral
6 call drains. Eventually the credit rating agencies get
7 concerned about AIG's liquidity. That of course caused
8 more liquidity problems and that ultimately then leads to
9 a run on AIG.

10 So that whole process is happening because of
11 these market events which are driving AIG's problems.

12 Q. Now, was AIG very highly leveraged compared to
13 other financial firms at this time?

14 A. No. It looked like, you know, very much like a,
15 you know, traditional bank or insurance company.

16 Q. Did you prepare a chart comparing AIG's leverage
17 with that of other important financial institutions?

18 A. Yes, I did. I just don't remember the number.

19 Q. Is that Plaintiffs' Trial Exhibit 5337?

20 A. Yes, it is.

21 Q. And what does this show?

22 A. So it shows the ratio of AIG's liabilities or
23 total assets to the market value of its equity. And that
24 gives you a measure of how much leverage there is.

25 For AIG, in 2005, 2006 and 2007 -- so I'm looking

1 at this on, you know, an ex ante before basis before the
2 financial crisis occurs -- it's, you know, 4.3, 4.7 and
3 6.4 in 2007. When you compare that to a variety of other
4 financial institutions, you know, large conglomerate
5 financial institutions, it has a, you know, lower
6 leverage than, let's say, Bank of America, Citigroup,
7 Goldman Sachs, JPMorgan, Lehman Brothers or
8 Morgan Stanley.

9 Q. Am I correct that when AIG moves from a
10 4.3 liabilities to market value of equity to 4.7 in
11 2006 to 6.4 in 2007, that shows an increased leverage?

12 A. It does. And that partly reflects that -- two
13 factors. One is AIG's, you know, liabilities or assets
14 might be rising, but its market value of equity is also
15 declining (indicating).

16 Q. And if you compare AIG's leverage in 2007 of 6.4,
17 is that comparable to Bank of America's leverage of
18 8.4 and Citigroup's of 14.1?

19 A. Yes. This is a standard measure of leverage. You
20 can of course measure leverage in other ways, but this
21 is, you know, a very standard way of doing it. And by
22 this measure, AIG is less leveraged than these other
23 institutions are.

24 Q. And Lehman Brothers is the most heavily leveraged
25 of the ones you've identified here at 19.4?

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1 A. Yes.

2 Q. And Morgan Stanley the second highest leveraged?

3 A. Yes.

4 Q. At 17.9?

5 A. Yes.

6 Q. Now, did you examine whether from an economic
7 standpoint AIG would have been able to raise capital in
8 the private sector in September of 2008 in the absence of
9 the Lehman bankruptcy and the resulting destabilization
10 of financial markets?

11 A. Well, AIG had raised money in August. I mean,
12 markets were tight at that stage, but it still was able
13 to raise money. It was rolling its short-term funding,
14 so both on a wholesale -- on the securities lending
15 portfolio, which is, you know, funded on a wholesale
16 basis, that was rolling. Its commercial paper programs
17 were also rolling, so AIG was, you know, able to,
18 you know, have -- you know, get liquidity from the market
19 as it needed over that period of time.

20 So without the -- you know, the Lehman crisis and
21 the related issues, it would seem that AIG should be able
22 to do that. I think that's what Mr. Baxter also had
23 concluded in his testimony, too.

24 Q. Let me ask you to turn now to the economic theory
25 of the Federal Reserve as the nation's central bank.

1 A. Yes.

2 Q. And in that connection let me direct your
3 attention to Plaintiffs' Trial Exhibit 5342.

4 And is that an exhibit you prepared?

5 A. Yes.

6 Q. And what was the purpose of preparing this
7 exhibit?

8 A. Well, I'm trying to provide a synthesis of
9 material that supports my own conclusions about how the
10 Federal Reserve is the nation's lender of last resort,
11 how it's responsible, as a matter of economics, for
12 providing liquidity in times of financial crisis.

13 Q. And what do you rely on in that connection?

14 A. Well, generally speaking, I'm relying on --
15 you know, when we go back to, you know, my education,
16 you know, these issues were central to -- when you do --
17 you know, when you go through a macroeconomics class
18 with, you know, the people who educated me, the role of
19 the central bank is central.

20 And then throughout my career, you know, it's --
21 it plays a central role in the way I think about,
22 you know, the research I do and the types of activities I
23 engage in.

24 So this is -- you know, ultimately that's what I
25 rely on. These statements also confirm and, you know,

1 show that there's a, you know, very broad understanding
2 of what the Federal Reserve's role is as the lender of
3 last resort.

4 Q. And where Mr. Geithner says that the
5 Federal Reserve and the central bank had the
6 responsibility to provide liquidity in periods when
7 financial markets were disrupted and private sources of
8 capital or liquidity were inadequate, is that something
9 that you would agree with?

10 A. Oh, absolutely. I mean, I think what he says
11 here, Ms. Mosser, you know, also describes.

12 Mr. Bernanke as well as Mr. Geithner both point
13 to the principles of Mr. Bagehot and how the Bagehot
14 dictum is what is used by central bankers for guiding
15 their decision-making, where, you know, during a panic,
16 central banks should lend freely to whoever comes to
17 their door, as long as they have collateral, should give
18 them money.

19 I mean, that's -- when you think about the role of
20 a central bank in being the lender of last resort, it --
21 you know, it's the backstop that creates confidence in
22 the financial system, and confidence is -- you know, that
23 is what maintains the stability of the system.

24 And so in the -- the federal bank, as the lender
25 of last resort, is to create that confidence when there

1 is a crisis of confidence by market participants, so it's
2 there to restore confidence when there's panic.

3 Q. Did you investigate historically how the
4 Federal Reserve had used its section 13(3) lender of last
5 resort authority?

6 A. Yes, I did.

7 Q. And did you prepare a demonstrative exhibit that
8 summarizes some of what you found?

9 A. Yes, I did.

10 Q. And what is that?

11 A. So on PTX 5343 is a summary of some of the early
12 uses that the Federal Reserve made of 13(3) when it was
13 making loans to, you know, individuals and nonbanking
14 institutions and the types of collateral that it had used
15 for that.

16 So, you know, they -- you know, the history of
17 13(3) and its use by the Federal Reserve is very
18 interesting. In this demonstrative exhibit, you know, I
19 show that during the period 1932 to 1936, the
20 Federal Reserve had made 123 loans. And when you go
21 through them, they're -- they're -- I don't know. I find
22 them kind of curious and interesting, that, you know, in
23 1932 a quarter of a million dollars was lent to,
24 you know, a vegetable grower, you know, 300,000 to the
25 Smith Corona typewriter company.

1 Even some of the collateral is I think
2 historically interesting, you know, certificates
3 representing 10 barrels of brandy and 89 barrels of rum.

4 So how this had been used historically I think is
5 interesting. And then for a very long period of time
6 13(3) wasn't utilized, and that's partly because,
7 you know, the history of banking in the United States is
8 that there's been great stability since the creation of
9 the Federal Reserve Act and the Federal Reserve System,
10 so you wouldn't generally expect to see it being used.

11 You know, in the 1966 to 1969 period, there was an
12 authorization to extend credit to thrift institutions,
13 but that ultimately wasn't used.

14 And again, in 1970 -- I think this is during --
15 for the -- for the Penn Central crisis, again, it was
16 considered to be used but ultimately not used.

17 So 13(3) is there as an important tool for the
18 Federal Reserve, but it had only been used really,
19 you know, a very long time ago.

20 Q. Let me turn to some of the actions that the
21 Federal Reserve took in 2008.

22 And am I correct that you've prepared some
23 demonstrative exhibits that summarize those?

24 A. Yes, I did.

25 Q. And there's already been quite a bit of testimony

1 about some of these, so I'd like to go through these
2 relatively quickly, but if I could ask you to look at
3 Plaintiffs' Trial Exhibit 5344.

4 A. Yes.

5 Q. And is this an exhibit that you prepared?

6 A. It is, yes.

7 Q. And what liquidity assistance does this relate
8 to?

9 A. So this relates to the single-tranche open market
10 operations that the Federal Reserve began.

11 So if you think about the crisis period building
12 in the second half of 2007, the Fed reacted, you know,
13 using traditional tools. It lowered the discount rate,
14 and then it created the Term Auction Facility for
15 commercial banks where it auctioned off, you know,
16 tranches of liquidity.

17 And then it didn't really do anything until we get
18 into March, when, as I've described, the repo market, the
19 wholesale funding market, was really running into
20 trouble. And since it was going to affect a large
21 portion of the financial system, the Fed started to
22 create some new tools for that.

23 It did two things in that first week -- sorry --
24 the second week of March. It created the term structured
25 lending facility, which is like the TAF that was for

1 commercial banks. It created an analog for primary
2 dealers. And then later that week it created the primary
3 discount credit facility, which we've heard a lot about,
4 which is an analog to the discount window that the
5 Federal Reserve already had for commercial banks.

6 Now, the reason I give that history is that in the
7 week of March 12, 13, and 14, so that's Wednesday,
8 Thursday and Friday, that weekend was the Bear Stearns
9 weekend. They announced on I think the 12th the term
10 structured lending facility, but it wasn't operational
11 until for a couple of weeks.

12 So that week, the primary dealers were really in
13 crisis, and so the Federal Reserve created the
14 single-tranche open market operations where it auctioned
15 off liquidity to primary dealers as a Band-Aid for that
16 week to get them through the resolution of Bear Stearns.

17 Q. And when was the single-tranche open market
18 operations announced?

19 A. It was announced and started to be utilized the
20 same day as the term structured lending facility, which
21 was either March 11 or March 12.

22 Q. And the single-tranche open market operations,
23 that was pursuant to section 14 --

24 A. Yes.

25 Q. -- of the Federal Reserve Act?

1 A. Yes.

2 Q. And --

3 A. And I just made one point about that. You'll see
4 in that 5344, PTX 5344, that I've highlighted that the
5 collateral is agency mortgage-backed securities, and
6 that's the market -- so that was the -- at that point,
7 you know, the gold standard were Treasury certificates,
8 and then the next layer down were these agencies, the
9 GSE-backed mortgage-backed securities.

10 Those were no longer thought to be, you know,
11 gold-plated, and so this was a recognition of the run on
12 repo that was occurring. And it was a way of immediately
13 injecting liquidity into the repo market where, as we saw
14 earlier, starting in March, you know, a trillion dollars
15 started to get sucked out of that system.

16 Q. And what you've done in 5344 is compare the terms
17 of the AIG revolving credit facility with the terms of
18 the single-tranche open market operations?

19 A. Exactly.

20 Q. And then if you go to Plaintiffs' Trial
21 Exhibit 5345, is that a chart that you prepared?

22 A. Yes.

23 So this is a chart that summarizes the first time
24 that the Federal Reserve used 13(3) during the crisis.
25 It had been working on this program over the last couple

1 of weeks. It finally announced it -- well, I guess just
2 so -- it announced it on March 11, so that's exactly the
3 same day as the ST OMO program was announced.

4 And this was, again, a facility to provide
5 collateralized term funding to primary dealers. And
6 again, it was -- it used -- it kind of extended the
7 quality of securities to include agency-backed RMBS. And
8 again, the reason for that is to support or try to
9 resuscitate the repo market where people were fleeing
10 mortgage-backed securities, so this is another piece
11 of -- another policy tool that was being utilized to,
12 you know, try to create confidence in that particular
13 market.

14 MR. BOIES: Your Honor, I would offer
15 Plaintiffs' Trial Exhibit 2542 for purposes of
16 illustrating the witness' testimony.

17 MR. DINTZER: We don't object for that sole
18 purpose, Your Honor.

19 THE COURT: Plaintiffs' Trial Exhibit 2542 is
20 admitted for the stated purpose.

21 (Plaintiff's Exhibit Number 2542 was admitted into
22 evidence.)

23 BY MR. BOIES:

24 Q. And if you would turn then to Plaintiffs' Trial
25 Exhibit 5346, is this a chart that you prepared?

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1 A. Yes, it is.

2 Q. And what does it show?

3 A. Well, it shows the next use of 13(3), the second
4 use of 13(3) that week. And it was a bridge loan to
5 Bear Stearns, which was failing at that point. It was,
6 you know, suffering. It had been one of the more highly
7 levered of the investment banks, and the run on repo was
8 really affecting it more than others.

9 And the reason for that is, in the run on repo,
10 people started to worry about counterparty credit risk,
11 and Bear Stearns had higher credit risk than the others,
12 and so it suffered from the run worse. And an overnight
13 loan was put in place in order to get Bear Stearns to the
14 weekend so that they could figure out what to do with its
15 pending failure.

16 Q. Let me ask you to look next at Plaintiffs' Trial
17 Exhibit 5347.

18 Is this a chart that you prepared?

19 A. Yes, it is.

20 Q. And what does it show?

21 A. So this is a summary of the Federal Reserve's
22 third use of 13(3). Again, it was at that week. It was
23 also announced on March 16. It was created over the
24 weekend.

25 And it was created to subsidize JPMorgan's

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1 purchase of Bear Stearns. And it provided a subsidy by
2 taking assets that JPMorgan didn't want to purchase as
3 part of its acquisition of Bear Stearns and putting those
4 assets into a special-purpose vehicle.

5 It used a 13(3) loan to finance the SPV as well as
6 a little bit of equity, but it was a way of essentially
7 guaranteeing that JPMorgan wouldn't have to bear the
8 costs of some of Bear Stearns' riskier assets.

9 Q. Would you look next at Plaintiffs' Trial
10 Exhibit 5348.

11 A. Yes.

12 So 5348 is a summary of the fourth use that the
13 Federal Reserve made of 13(3). And this was to -- also
14 on Monday. It created the Primary Dealer Credit
15 Facility.

16 Again, this is another collateralized loan
17 facility designed to address the -- you know, as I've
18 been calling it, the run on repo. And it did so by
19 allowing primary dealers to borrow -- in the tri-party
20 repo market to borrow against collateral that included
21 agency-backed RMBS.

22 And so this was a facility -- I mean, it was
23 created very quickly because it was just essentially the
24 Federal Reserve participating in the tri-party repo
25 market as if it was a regular counterparty in that

1 market, so whereas usually you would have -- in the
2 tri-party repo market you'd have, you know, let's say, a
3 bank doing a repo with another bank, now it -- and they
4 would use an agency-backed security, instead, in the
5 tri-party repo market, they would have a bank doing a
6 tri-party repo with an agency-backed security, and the
7 counterparty would now be the Federal Reserve Bank of
8 New York.

9 MR. BOIES: I have some follow-up questions, but
10 with respect to Plaintiffs' Trial Exhibit 5347, we would
11 offer Plaintiffs' Trial Exhibits 1214 and 2536 for
12 purposes of illustrating the witness' testimony and
13 indicating what the witness relied on.

14 MR. DINTZER: No objection, Your Honor.

15 THE COURT: All right. Plaintiffs' Trial
16 Exhibits 1214 and 2536 are admitted for the stated
17 purpose.

18 (Plaintiff's Exhibit Number 1214 was admitted into
19 evidence.)

20 (Plaintiff's Exhibit Number 2536 was admitted into
21 evidence.)

22 BY MR. BOIES:

23 Q. Now, with respect to the PDCF, that was announced
24 you say on March 16, 2008; is that correct?

25 A. Yes. So Monday, March 16, 2008.

1 Q. Was the 16th a Sunday or Monday?

2 A. I guess I'm assuming that it's -- so the 12th is a
3 Wednesday I believe, so it's Sunday, you're right.

4 Q. So it was -- it was announced on a Sunday and the
5 first loan was on Monday.

6 A. Yes.

7 Q. And as of March 20 --

8 A. Wait, wait. It had already done the ST OMO loan
9 earlier in the previous week, so it's not the --
10 necessarily the first loan. It's just, you know, the --
11 you know, the beginning of a series of loans that are
12 being -- you know, being extended.

13 Q. But the first loan under the PDCF would have been
14 on Monday, March 17; correct?

15 A. Yes.

16 Q. And there were a total number of recipients of
17 these 13(3) loans through the PDCF as of March 20, 2008
18 of 20 firms; is that right?

19 A. Well, the number of firms that could use the
20 PDCF.

21 Q. Those are the number that could use it.

22 A. Yes.

23 Q. That were eligible to use it.

24 A. Exactly.

25 Q. And the percentage of PDCF loans that were used by

1 the top five users was what?

2 A. 85 percent.

3 So of the 20 that were given access, the
4 predominant use was by a handful of firms.

5 Q. There has been some discussion as to whether this
6 was a "broad-based" facility or not.

7 What conclusion did you reach with respect to that
8 issue?

9 A. Well, it's actually -- I don't think that's a fair
10 characterization of the program when you call it
11 broad-based. Many institutions that participated in the
12 tri-party repo market in exactly the same way as the
13 primary dealers did were suffering in the same way.

14 And there are also a variety of other -- you know,
15 the acronym is, you know, SIFIs -- significantly
16 important financial institutions that were excluded from
17 this program.

18 And that was recognized. It was recognized very
19 quickly, both internally at working groups at the
20 Federal Reserve Bank of New York as well as -- during the
21 summer, as well as in the blueprint for reform that was
22 put out by the Treasury Department in March.

23 As well, you see, if you look through the record,
24 there's a slew -- you know, a variety of e-mails that
25 talk about, well, the problem is the PDCF has not -- and

1 the TSLF have not actually solved the run on repo the way
2 we hoped. If you look in the FOMC meeting notes, that's
3 what you see amongst, you know, the top officials at
4 the -- at the Federal Reserve.

5 So there's a recognition that this definition
6 doesn't -- didn't solve the problem and that something
7 else had to be done.

8 Q. There's also been some testimony or discussion as
9 to whether the PDCF was a very short-term facility.

10 And did you investigate that?

11 A. Yes, I did.

12 Q. And what did you find?

13 A. Well, it in fact, while it was announced to be I
14 believe through the summer of 2008, it was extended
15 several times. There's no -- it was a very easy program
16 to continue, and so I guess it was rolled over several
17 times over the course of the financial crisis.

18 And it had to be. I mean, it was -- it was a
19 lifeline.

20 Q. And when they announced the PDCF, did they
21 announce that the PDCF would continue for some number of
22 months?

23 A. Yes. Yes.

24 Q. And then when they extended it, did they always
25 provide that the PDCF would continue for some number of

1 months in the future?

2 A. Yes.

3 And the reason for that is, the presence of the
4 PDCF was designed to create confidence. And taking away
5 the PDCF at a time when there's still uncertainty would
6 have a negative impact on the market's confidence.

7 And that's something that, for instance,
8 Chairman Bernanke noted in -- during the summer. You can
9 see this in the FOMC meeting notes, where he was
10 observing that the PDCF wasn't being used during the
11 summer, but it seemed to be serving a positive purpose of
12 creating kind of a, you know, backstop or a discount
13 window for primary dealers.

14 Q. Let me ask you to look at Plaintiffs' Trial
15 Exhibit 2870. This is in your big, thick binder.

16 A. Did you say 2730?

17 Q. 2870.

18 A. Oh, by the way, as we're flipping through, I see
19 PTX 2857-A illustrates the point I was making with
20 Chairman Bernanke, which was he noticed that the PDCF,
21 towards the end of the summer, wasn't being used, but it
22 still served a -- you know, was valuable. And as you can
23 see, it obviously was used during the September financial
24 crisis.

25 You said 2870; right?

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1 Q. Yes, I said 2870.

2 A. This press release from February 3?

3 Q. Yes.

4 MR. BOIES: Which I would offer, Your Honor.

5 MR. DINTZER: Your Honor, this is not on their
6 exhibit list, so we would object.

7 MR. BOIES: Your Honor, the government witnesses
8 have asserted that the PDCF was an overnight facility
9 where they could lend money without worrying about having
10 to have it out for a significant period of time.

11 In fact, what the evidence shows is that when it
12 was originally announced, it was announced that you
13 could borrow overnight and you could roll it over and
14 that that program would last for several months so that
15 people knew at the time that they could in effect borrow
16 it for at least as long as that initial end date, and the
17 evidence will show that that initial end date at the very
18 beginning was announced to the market as it might be
19 extended, and in fact it was extended.

20 And so this was not just overnight loans, as some
21 of the witnesses have attempted to characterize it, but
22 it is money that was being loaned for an extended period
23 of time. And we think this is appropriate rebuttal
24 evidence.

25 THE COURT: Mr. Dintzer, would you like to --

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1 MR. DINTZER: Yes, Your Honor.

2 Avoiding the need to counter his characterization
3 of the witnesses' testimony, they did testify about the
4 nature of the loans, and more than one witness did that.
5 And the proper time, if counsel wished to use the
6 document of course, would have been to impeach them and
7 to -- or to refresh them or to do whatever he wanted to
8 do with the document.

9 The whole point of having the exhibit list is so
10 that both sides will have an understanding of what's on
11 the list so that we can then choose to use or not use or
12 whatever. But to have it now, after those witnesses have
13 testified, and whatever testimony is to be offered about
14 the document without them having the opportunity to
15 address it seems that -- seems unfair to the witnesses,
16 and so we would continue our objection that it not be
17 added to the exhibit list and that it not be entered into
18 evidence.

19 THE COURT: Well, this is a close call for me
20 because of the way in which we've been allowing the
21 government to go beyond the scope of the direct. If the
22 case had gone along in a more typical fashion where you
23 have one side and then the other present their case, it's
24 easier to then identify what is strictly a rebuttal
25 exhibit when you do it that way.

1 So it is a close call, but I think on balance I'll
2 sustain the objection.

3 MR. DINTZER: Thank you, Your Honor.

4 BY MR. BOIES:

5 Q. As part of your analysis, did you investigate the
6 extent to which the PDCF was more than an overnight
7 facility?

8 A. Yes, I did.

9 Q. And what did you find?

10 A. I found that it was used by a variety of different
11 institutions for certainly longer than, you know,
12 overnight. They would continually roll their loans for a
13 period of time. And that behavior continued for a couple
14 of years.

15 Not to say that the loan was out for two years,
16 but rather, in general, the program was extended and that
17 users would use the loan facility for more than an
18 overnight loan.

19 Q. Let me ask you to turn next to Plaintiffs' Trial
20 Exhibit 5349.

21 A. Yes.

22 Q. Is this a document that you have prepared?

23 A. Yes, it is.

24 Q. And what does it show?

25 A. Well, it shows in aggregate how the

1 Federal Reserve assistance changed over time.

2 You know, you can see the pattern here. You know,
3 starting at the beginning of 2008, total borrowing
4 through the Term Auction Facility had only grown to,
5 you know, about \$60 billion. In March -- so this is a
6 response to the -- kind of the beginning of the financial
7 crisis in the late 2007 period.

8 In March and over, you know, the course of the
9 summer, there was, you know, extensive use of the
10 Term Securities Lending Facility -- that's this section
11 here in lilac -- and then the single-tranche open market
12 operation, which I mentioned, which is the turquoise, and
13 then finally in the flesh-colored tone here is the
14 Primary Dealer Credit Facility.

15 The aggregate use of those programs up through
16 September was about \$340 billion, and so those were all
17 programs which were designed to try to resuscitate the
18 repo market, which -- where mortgage-backed securities
19 were no longer terrific or great collateral.

20 And then it's kind of interesting, so nothing --
21 so over the course of the summer, the period -- it was
22 relatively calm. However, Treasury thought actually
23 that there were still a lot of problems in the market, in
24 particular with the GSEs.

25 So while this focuses on Federal Reserve actions,

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1 in July there's actually a really significant event,
2 which is that Mr. Paulson went to Congress and asked for
3 the authority to provide unlimited backing to the GSEs.
4 You know, the phrase he used was: I need a -- I'm
5 asking for a bazooka because when you go into battle you
6 don't want to have a squirt gun because you might have to
7 use the squirt gun, and your hope is not to use the
8 bazooka.

9 So that was how he loaded up going into
10 September. And as we know, he used that authority at
11 the beginning of September because the GSEs which were
12 backing much of the mortgage-backed security market
13 really failed.

14 And that started, you know, the great unraveling,
15 and over the next few months another \$800 billion were
16 borrowed from the Federal Reserve.

17 Through all of these different programs, there was
18 particular use made of the Primary Dealer Credit
19 Facility, so I think that's actually the exhibit that I
20 had mentioned a little while ago.

21 Q. That was PTX 2857-A?

22 A. Yes.

23 That shows the PDCF exploding after the summer
24 when it hadn't been used.

25 Q. Could you turn to that in your big binder. That's

1 in your very large binder.

2 And what does Plaintiffs' Trial Exhibit 2857 show?

3 A. So this is an exhibit that I prepared in my
4 rebuttal report -- it's figure 6 -- which is the daily
5 use of the PDCF.

6 And starting with its opening at the end of
7 March, we can see immediately upon the program starting
8 it was immediately used over the course of the spring.
9 It then -- its use fell off through the summer and then
10 exploded with the financial crisis in the second week of
11 September.

12 Q. Did AIG have access to the Primary Dealer Credit
13 Facility?

14 A. No.

15 Q. To the Term Securities Lending Facility?

16 A. No.

17 Q. To the Asset-Backed Commercial Paper Money Market
18 Mutual Fund Liquidity Facility?

19 A. No. That was -- by the way, that was a
20 facility -- I meant to mention that facility was created
21 in the week of -- that Lehman and Merrill Lynch and AIG,
22 Goldman and Morgan Stanley, that they were -- during that
23 week that they were all having trouble, there was a,
24 you know, kind of a great sucking sound as the money,
25 you know, got sucked out of the money market mutual funds

1 and commercial paper markets, and you know, over the
2 course of a few days, several hundred billion dollars,
3 you know, just vaporized.

4 That program was created to stop the run in those
5 markets.

6 Q. Let me ask you to look at Plaintiffs' Trial
7 Exhibit 5351.

8 Is this a chart that you prepared?

9 A. Yes.

10 Q. And what does this chart demonstrate?

11 A. Well, it -- it -- it's a summary of how the
12 financial assistance was being utilized by a variety of
13 different institutions.

14 So the government provided a variety of different
15 types of support, so you got support through the new
16 programs that were created as well as the old programs
17 that were created to support commercial banks and thrift
18 institutions.

19 So, for instance, the Federal Home Loan Bank is,
20 you know, the discount window for thrifts, just like the
21 Federal Reserve is the discount window for commercial
22 banks.

23 This table adds up for each institution all of the
24 support they were receiving from the Federal Reserve and
25 the Federal Home Loan Bank Board for four dates in time:

1 April 1, September 1, September 15 and September 30.

2 And it lists, for AIG, Bank of America, Citigroup,
3 Goldman Sachs, JPMorgan, Lehman Brothers, Morgan Stanley
4 and Wells Fargo, how much use they made in aggregate of
5 these programs. And you can see that in April there had
6 been an extensive use made by a variety of these
7 institutions. As you get into the September period, much
8 more use is being made by these institutions.

9 And it's important because this support was
10 allowing them to -- you know, to survive and deal with
11 their liquidity needs in a way that AIG never was able to
12 benefit from until obviously in September.

13 Q. And you say AIG survived longer without liquidity
14 support than other financial institutions; correct?

15 A. Yes.

16 Q. And as of September 30, 2008, AIG was at that
17 point receiving liquidity support from the government;
18 correct?

19 A. Yes. That's the support it's receiving from the
20 revolving credit facility.

21 Q. And that's \$61 billion?

22 A. It is, yes.

23 Q. And that compares with what amount of support for
24 the same date for Bank of America?

25 A. So Bank of America \$63 billion, Citigroup

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1 \$124 billion, Goldman Sachs \$31 billion, JPMorgan
2 \$101 billion. Lehman Brothers was in bankruptcy.
3 Morgan Stanley received -- was receiving \$106 billion and
4 Wells Fargo \$27 billion.

5 Q. Now, on September 14, was there a change made to
6 the PDCF?

7 A. Yes.

8 So originally I had described how the PDCF
9 included securities, Treasuries and agency-backed
10 securities. Those are the primary collateral that was
11 acceptable.

12 Q. And do you have a chart on this?

13 A. Yeah, I do. The next one, PTX 5352.

14 Q. And what does that show?

15 A. So this shows -- illustrates the change that
16 occurred on September 14, where the types of collateral
17 that were usable at the Primary Dealer Credit Facility
18 were expanded.

19 So there was an anticipation that the following
20 week -- so it was expanded on September 14. The
21 expectation obviously was that there was going to be
22 chaos since Lehman was filing for bankruptcy that night.
23 And one of the ways that the government tried to,
24 you know, deal with that was to expand the Primary Dealer
25 Credit Facility to allow a whole different range of

1 collateral and lower-rated collateral.

2 And so you can see how -- you know, a comparison
3 between March 25 and September 29, 2008, that the type of
4 collateral that's being used is -- you know, is vastly
5 different, whereas previously it was investment grade and
6 government debt securities, now it included unrated debt
7 securities, non-investment grade debt securities,
8 nonsecuritized loans and equity.

9 Q. Now, you said with respect to an earlier chart
10 that Lehman was bankrupt and out of business by
11 January -- I mean September 30, 2008.

12 Did they nevertheless in September, before they
13 stopped, actually borrow money from the PDCF?

14 A. Yes, they did.

15 I just want to make one more point about
16 PTX 5352 if I can, which is, basically the collateral --
17 the acceptable collateral at the PDCF now became anything
18 that was used in the repo market, and that meant
19 basically any security where you got a valuation could be
20 used as collateral.

21 So it could be private equity. It could -- it
22 really could be anything, as long as you got a
23 third-party valuation.

24 Q. And did that include RMBSs and multi-sector CDOs?

25 A. Yes.

1 Q. And in the second half of September, was it
2 actually, as a practical matter, something that people
3 can do, that is, take RMBSs and multi-sector CDOs to the
4 repo market and get cash?

5 A. No. That's the whole problem that was trying to
6 be solved, is that there -- you know, the repo market had
7 become restricted to basically Treasuries.

8 You might be getting a little tired of me
9 referring to my work history, but I vividly remember
10 driving to work that week and there was an NPR radio
11 station on and that they had gone to a repo desk in
12 New York and were interviewing, you know, some repo
13 dealers, and there was nothing happening.

14 I mean, it was -- I don't, you know, usually
15 listen to -- I don't really remember very many radio
16 stories, but this just struck me that, you know, the
17 lack of noise in this trading room was just so
18 remarkable.

19 Sorry.

20 Q. No. That's okay.

21 Let me ask you to look at Plaintiffs' Trial
22 Exhibit 5353.

23 A. Yes.

24 Q. Is this a document that you represented?

25 A. It is.

1 So this, you know, summarizes how, after Lehman's
2 bankruptcy, its primary dealer continued to borrow from
3 the PDCF, so after the parent company went into
4 bankruptcy, the primary dealer subsidiary actually was
5 borrowing significant amounts over the course of that
6 week as, you know, various things were -- various other
7 things were occurring then.

8 Q. On September 15, 2008, how much had
9 Lehman Brothers' primary dealer subsidiary borrowed from
10 the Federal Reserve?

11 A. Well, on September 16, it was \$38 billion.

12 Q. And what about on September 15?

13 A. Then on September 15 it was \$46 billion.

14 Q. And in each case was a majority of that from the
15 Primary Dealer Credit Facility?

16 A. Yes.

17 Q. Did you investigate the extent to which, if any,
18 access to the Primary Dealer Credit Facility or a
19 comparable facility would have addressed AIG's liquidity
20 issues?

21 A. Yes, I did.

22 Q. And did you prepare a chart illustrating your
23 conclusions?

24 A. Yes.

25 PTX 5354 and PTX 5355 summarize the analysis

1 that I did on the loan amounts that AIG could have
2 received from, you know, a PDCF-like or the PDCF
3 itself.

4 Q. Let me ask you to look first at PTX 5354.
5 What does this demonstrate?

6 A. So what I've done is calculate -- based upon the
7 insurance regulations and the type of collateral that
8 each of the life insurance subsidiaries had, I've
9 calculated what would be the maximum loan amount that you
10 could get through the PDCF, so it's how much liquidity
11 could you get. And I've compared that to the liquidity
12 needs of each of the life insurance subsidiaries that
13 arose from their participation in the securities lending
14 program.

15 And you can see for each of these companies, the
16 blue bar, which is the loan that could have been,
17 you know, achieved in the tri-party repo market, which is
18 the PDCF at this point in time, the loan that -- for
19 instance, you know, the first company is -- at the bottom
20 of the page here is the index.

21 The first company is AIG Annuity Insurance
22 Company. Through tri-party repo or, you know, with the
23 government, you know, the PDCF, it could have achieved,
24 you know -- received \$27 billion at this point in time
25 and on the securities lending balance that was owed was a

1 little under 20 billion.

2 And so if you look at each of these life
3 insurance subsidiaries, you can see by comparing the
4 blue bar to the red bar that there's plenty of
5 collateral that can be used to cover the liquidity needs
6 that AIG's securities lending program -- that arose from
7 the securities lending program, because ultimately all
8 that needed to happen was the shortfall in wholesale
9 lending that was coming through securities lending just
10 needed to be replaced by repos, so it's actually a very
11 simple problem that they faced.

12 Q. Let me ask you to look next at PTX 5355.

13 A. And by the way, I would just note that, you know,
14 later on, you know, they -- you know, whereas as we've
15 talked earlier about how the PDCF was very quickly
16 created, it said it's just a relatively simple
17 transformation of the tri-party repo market, later on, a
18 same -- the same program was created for AIG, so once it
19 had entered the RCF, you know, a similar program got
20 created for this problem.

21 Q. But that was after the RCF was created.

22 A. Exactly, yes.

23 Q. If AIG had had access to the PDCF or a similar
24 facility in early September of 2008, could that have
25 prevented the need for the RCF?

1 A. Well, if you look at -- if we remember back to our
2 discussion about the liquidity shocked AIG on Monday,
3 September 15, much of that came from two sources. One
4 was because of AIG's downgrade, and the second was
5 because of the securities lending, kind of the run on
6 AIG's short-term funding, which included securities
7 lending, and so on.

8 If AIG had backstop liquidity earlier in
9 September, the rating agencies wouldn't have had to be
10 concerned about AIG's liquidity. That's ultimately what
11 led them to downgrade AIG on Friday, that that was one of
12 their -- that became one of their primary concerns.

13 MR. DINTZER: Objection, Your Honor.

14 The witness is offering an opinion that he not
15 only did not put in his report but he expressly
16 disclaimed in his deposition, and so we would ask the
17 Court to limit the witness and not let the witness offer
18 the opinion that he's offering right this second.

19 THE COURT: Mr. Boies?

20 MR. DINTZER: And if I may have voir, I'd be happy
21 to do that in this context.

22 THE COURT: May have what?

23 MR. DINTZER: Voir on this?

24 THE COURT: Okay.

25 - - - - -

1 VOIR DIRE EXAMINATION

2 BY MR. DINTZER:

3 Q. Sir, did you tell me in your deposition that you
4 haven't done the calculations to know whether access to
5 the PDCF alone would have resolved AIG's liquidity issues
6 in September 2008? You told me that you hadn't done
7 that, that analysis; is that correct?

8 A. I hadn't gone -- I presume you're reading from my
9 deposition, so yes.

10 MR. DINTZER: Okay.

11 And that's the exact analysis that he's offering
12 right now, Your Honor, so we'd ask the Court to -- we
13 object and we ask the Court not to permit him to give
14 that analysis.

15 THE COURT: What's the date of that deposition?

16 MR. DINTZER: June 3, 2014.

17 THE COURT: And you're reading from where?

18 MR. DINTZER: I'm reading from -- and I can -- if
19 Your Honor would like, we could provide it, but this was
20 obviously done on the fly.

21 But I'm reading from page 123, and I'll read the
22 full question:

23 "You haven't done the calculations to know
24 whether access to the PDCF alone would have resolved
25 AIG's liquidity issues in September 2008; is that

1 correct?

2 "ANSWER: That's what I just said. I described
3 the PDCF, my calculations showed that the PDCF would --
4 access to a facility like that would have provided
5 significant amounts of liquidity to AIG such that the
6 path that it was on would have been meaningfully
7 changed."

8 But that's different from and that -- he said,
9 "That's what I just said" when I asked him he didn't do
10 the analysis that he's just about -- that he's in the
11 process of offering.

12 THE COURT: Mr. Boies.

13 MR. BOIES: I think that's what he just said here,
14 too. I've looked back at the live notes.

15 And the question is: "If AIG had had access to
16 the PDCF or a similar facility in early September of
17 2008, could that have prevented the need for the RCF?"

18 His answer is (as read): "Well, if we remember
19 back to our discussion about the liquidity shocked AIG on
20 Monday, September 15, much of that came from two sources.
21 One was because of AIG's downgrade, and the second was
22 because of the securities lending, kind of the run on
23 AIG's short-term funding, which included securities
24 lending, and so on.

25 "If AIG had backstop liquidity early in September,

1 the rating agencies wouldn't have had to be concerned
2 about AIG's liquidity. That's what ultimately led them
3 to downgrade AIG on Friday, that that was one of their --
4 that became one of their primary concerns."

5 I think he said exactly in substance what he said
6 at his deposition. He wasn't saying that access to the
7 PDCF alone would have cured the issue. And in fact, if
8 we go to the next couple of charts, I think -- I think he
9 will explain what combination of circumstances would have
10 been required.

11 MR. DINTZER: If I may be heard, Your Honor.

12 It was Mr. Boies' question, which was (as read):
13 "If AIG had access to the PDCF or a similar facility in
14 early September of 2008, could that have prevented the
15 need for the RCF?"

16 That's exactly in the deposition what he said he
17 didn't do, and so that's what prompted the objection,
18 Your Honor.

19 MR. BOIES: But the objection has to come,
20 Your Honor, to the answer, not to my question. I mean,
21 he could have objected to my question, but once he
22 answers it, the issue is whether his answer is consistent
23 with his deposition and his report.

24 And the Court has heard what --

25 THE COURT: Again, I think this is a close call,

1 but in this instance I'm going to overrule the
2 objection.

3 MR. DINTZER: Thank you, Your Honor.

4 - - - - -

5 DIRECT EXAMINATION (resumed)

6 BY MR. BOIES:

7 Q. On PTX 5355, do you outline the liquidity that AIG
8 could have obtained if it had had access to the PDCF?

9 A. Yes.

10 So on PTX 5355, I've extended the analysis to
11 examine the eligible assets of the parent, identified
12 what the liquidity available to the parent was, which was
13 \$12.6 billion. I've added that to the excess liquidity
14 available to the insurance subsidiaries, which,
15 you know -- and "excess liquidity" there refers to in
16 excess of the securities borrowing needs of
17 \$58.5 billion, so the total liquidity available to the
18 parent and subsidiaries through PDCF borrowing or like,
19 you know, similar type of borrowing was on the order of
20 \$71 billion.

21 Q. And just to be clear, when you say "excess
22 liquidity available to insurance subsidiaries," if you
23 look back on Plaintiffs' Trial Exhibit 5354, are you
24 talking about the difference between the red line and the
25 blue line?

1 A. Yes. Exactly.

2 So, you know, the blue line is the loan that could
3 be -- the collateralized loan that could be obtained from
4 something like the PDCF, and then the red line is the
5 amount that's owed to the securities lending
6 counterparties.

7 Q. Now, in addition to the PDCF, were you aware of
8 other sources of liquidity that AIG could have had access
9 to if it had access to the PDCF?

10 A. Well, I think the question relates to --
11 obviously, there was a lot of liquidity in the insurance
12 companies, and the question is whether the regulators
13 would allow that liquidity to be upstream to the parent.

14 And under what's, you know, called the Paterson
15 plan, the New York insurance commissioner was willing to
16 allow \$20 billion of the liquidity in the subsidiaries
17 could be upstream to the parent, so if you add that up
18 with the liquidity that we -- that I mentioned earlier,
19 the \$12.6 billion that could be applied through -- could
20 be received through a PDCF-like facility, and combine
21 that with the Paterson plan, that would have provided on
22 the order of \$30 billion to the parent.

23 Q. Did you analyze or investigate the extent to
24 which, if AIG had had access to the \$30 billion that
25 you've just identified, 12.6 from the PDCF and 30 from

1 the -- and 20 from the Paterson plan, as well as having
2 the securities lending problem solved at the insurance
3 subsidiary level, that AIG would have then have been in a
4 position to access private sources of capital?

5 A. I think at that point in time it's -- I mean,
6 it's difficult to really answer that, that hypo- --
7 you know, that hypothetical.

8 You know, it certainly looked to be the case over
9 that weekend that private sources were available if
10 there was going to be government participation, and so
11 what we've been talking about is government participation
12 to unlock a bunch of the liquidity at AIG.

13 So certainly it's consistent with, you know, the
14 evidence that I've seen, but to be able to definitively
15 say absolutely this would, you know, have solved all of
16 the problems, I think it's very hard to, you know, have
17 that level of certainty. The evidence I think points in
18 that direction.

19 Q. Let me ask you to look next at Plaintiffs' Trial
20 Exhibit 5356.

21 Is this a chart that you prepared?

22 A. Yes, it is.

23 Q. And what does it show?

24 A. Well, this contrasts during the two-week period at
25 the end of September the type of assistance that AIG

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1 received, which were the demand notes and the RCF, and it
2 compares that to the type of assistance that
3 Morgan Stanley received, which were primarily the PDCF
4 and the TSLF.

5 And I've compared the amount that was utilized at
6 three different points in September, so September 16,
7 September 22 and September 29. And if we look at the two
8 colored columns, you can see on September 16, AIG had
9 borrowed \$14 billion through the demand notes,
10 Morgan Stanley had borrowed \$16.5 billion through the
11 PDCF and the TSLF.

12 Now, obviously the interest rates on those are
13 very different. One is 12 percent on the demand notes.
14 The other is between 2.75 and 3 percent.

15 On September 22, which is Monday, a week after the
16 Lehman failure, AIG has borrowed at that point
17 \$37 billion, and Morgan Stanley has borrowed \$60 billion.
18 And this is the day that Morgan Stanley was announce --
19 you know, the day -- well, the business day after
20 Morgan Stanley had been announced to be a bank holding
21 company and additional credit had been extended to its
22 foreign subsidiaries.

23 And then on September 29, which is the end of the
24 month, AIG has borrowed \$55 billion, now through the RCF,
25 and Morgan Stanley has borrowed almost a hundred billion

1 dollars, 97.3 specifically. And contrast all of the
2 terms of the two -- you know, the types of loans that the
3 two institutions were getting and see, you know, a
4 dramatic difference.

5 AIG paid a 2 percent commitment fee.

6 Morgan Stanley paid nothing.

7 AIG paid 12 percent interest rate. Morgan Stanley
8 was paying, you know, between 2.25 and 3 percent.

9 AIG had to pay an 8.5 percent undrawn amount fee,
10 so even money it didn't use it had to pay for.
11 Morgan Stanley didn't.

12 AIG had to give up 80 percent of the equity in its
13 company, and Morgan Stanley didn't.

14 The RCF had a -- was -- was capped at \$85 billion,
15 which Morgan Stanley didn't have.

16 And then finally, you know, the haircuts on the
17 collateral were vastly different with AIG being haircut
18 25 percent and Morgan Stanley looking at a haircut on its
19 collateral of between 6 and 10 percent.

20 Q. Let me follow up on some of the things that you
21 said about the interest rate, and in that connection let
22 me ask you to look at Plaintiffs' Trial Exhibit 5358.

23 Is this a chart that you prepared?

24 A. Yes, it is.

25 Q. And what does this chart demonstrate?

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1 A. Well, this shows -- it's a summary of the terms
2 of the RCF, so I won't go through that.

3 But at the bottom of the chart, it shows how the
4 terms of the RCF were I think high on just an absolute
5 basis. And by that I mean comparing it to, for instance,
6 what AIG raised on a secure -- unsecured basis in
7 August 2008. At that point, less than a month earlier,
8 and it paid interest of 8.25.

9 On the RCF, the orange line here shows that the
10 interest rate is 13 percent when you include half of the
11 commitment fee, so it's a two-year loan, so if I amortize
12 the commitment fee over that two-year period to get to
13 13 percent.

14 And then once you include the amount on the
15 undrawn amounts, the effective interest rate goes up to
16 15 percent, so I've included that 8.5 percent that's paid
17 on the undrawn amount, you know, under the assumption
18 that only three-quarters of the facility is used.

19 So if you, you know, apply 8.5 percent to about
20 \$20 billion, that undrawn amount, and add it to -- as an
21 interest fee to the drawn amount, the total effective
22 rate on the RCF is up towards 15 percent.

23 Q. Did you compare the interest rate charged AIG on
24 the RCF with interest rates that the Federal Reserve
25 charged other 13(3) borrowers?

1 A. Yes, I did.

2 Q. And did you prepare an exhibit on that?

3 A. I did. The next exhibit, PTX 5359, presents that
4 comparison.

5 Q. And what does PTX 5359 show?

6 A. Well, this is the interest rates that were charged
7 by the government on a variety of different
8 13(3) facilities.

9 So on the far right, I have presented the two
10 interest rates that I had calculated in the previous
11 slide and then compared it to a variety of other interest
12 rates.

13 So the primary credit rate, for instance, is
14 2.3 percent, whereas the secondary credit rate is
15 50 basis points higher at 2.8 percent. The term
16 structured lending facility was charging 3 percent. The
17 Primary Dealer Credit Facility was charging 2.3 percent.
18 Maiden Lane was 2.5 percent. And then the programs that
19 were put in place for Citigroup and B of A were both
20 close to 5 percent, 4.9 percent.

21 Q. And did you make an analysis as a matter of
22 economic theory as to what the appropriate rate was for a
23 lender of last resort to charge in a financial crisis?

24 A. Well, in a financial crisis, I mean, we've heard,
25 you know, plenty of testimony about, you know, how the --

1 you know, Bagehot recommended -- and that guidance has
2 been used universally -- to charge a penalty rate that's
3 slightly above the normal rate and the normal rate being
4 what would predominate in a normal market, so using that,
5 you know, you know, trying to get the market back to what
6 normal circumstances would look like.

7 Q. Let me ask you to look at Plaintiffs' Trial
8 Exhibit 5357.

9 And is this a document that you prepared?

10 A. Yes, it is.

11 Q. And you have cited at the top a portion of
12 Chairman Bernanke's testimony where he agrees that "a
13 penalty rate is an interest rate that is slightly higher
14 than the interest rate that would be charged under normal
15 circumstances."

16 Do you see that?

17 A. I do, yes. That's exactly what I was referring
18 to, you know, conceptually that we've heard stated at the
19 trial. And you know, obviously, as we can read,
20 Mr. Geithner provides a similar view, as did Ms. Mosser.

21 Q. Now, there's also been some discussion about the
22 extent to which, if any, interest rates are related to
23 the quality of the collateral.

24 Did you examine the extent to which the primary
25 credit rate and the PDCF credit rate was or was not

1 related to the quality of the collateral that was posted
2 for PDCF borrowings?

3 A. Well, crudely I presented, you know, a graph of
4 the rate that was charged on the PDCF and demonstrated
5 how, when the collateral quality changed, the interest
6 rate didn't change. It continued to actually decline.

7 Q. Is that PTX 5360?

8 A. Yes, it is.

9 So as I was just saying, you can see, when the
10 type of collateral that was acceptable at the PDCF
11 expanded on September 14, there wasn't a coincident rise
12 in the interest rate but, rather, interest rates kept
13 declining over time.

14 Q. You also discussed the different haircut that was
15 given to RCF collateral.

16 A. Yes.

17 Q. Do you recall that?

18 A. Yes.

19 Q. And did you prepare an analysis that compared the
20 RCF collateral haircut with other collateral haircuts
21 applied with respect to the PDCF?

22 A. I did.

23 I was about to note the -- with regards to
24 PTX 5360, haircuts did rise on poorer-quality collateral
25 on September 14, so as the range of acceptable collateral

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1 changed, the level of haircut would change with the
2 different types of collateral, so you'd only be able --
3 you'd be able to borrow less for, you know, a given
4 dollar of collateral.

5 Q. Did the haircuts that were required for PDCF
6 collateral ever equal the 25 percent haircut that RCF
7 collateral was subjected to?

8 A. No.

9 In PTX 5361, this is a chart that I prepared that
10 summarizes the types of haircuts that were being
11 utilized during the financial crisis. And this is a
12 graph that summarizes the collateral rates that were
13 used for the Primary Dealer Credit Facility on
14 September 22.

15 So you can see for the RCF the haircut was
16 25 percent, and as we go from left to right, for equities
17 in the PDCF the haircut was 6 percent, for non-investment
18 grade corporate bonds it was 6 percent, non-investment
19 grade mortgage-backed securities it was 9 percent, or
20 non-investment grade CDOs it was 12 percent.

21 And then for Lehman, when it was in bankruptcy,
22 the haircut that was on average used was 16 percent.

23 And then the maximum amount that was applied to
24 Countrywide was 17 percent.

25 THE COURT: Mr. Boies, shall we take a lunch break

1 now?

2 MR. BOIES: Yes, Your Honor.

3 THE COURT: Let's reconvene at 1:45.

4 (Whereupon, at 12:46 p.m., a lunch recess was

5 taken.)

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1 "ANSWER: Well, I think it's very hard to know
2 whether to make that prediction.

3 "QUESTION: And you don't in -- "

4 And then there's an interjection to allow you to
5 finish your answer, and you continue, "There is an
6 appendix in both my direct report and my rebuttal report
7 where I explore how much liquidity was available through
8 the PDCF or PDCF-like facility with rules that were
9 similar.

10 "I identify how it could have resolved the
11 immediate needs related to the securities lending run, as
12 well as described how it could have happened with the CDS
13 collateral calls.

14 "The issue in making the full prediction that
15 you're looking for is that it's very difficult to say how
16 would the market have then reacted.

17 "So, for instance -- as well as other regulators.
18 As an example, Commissioner Dinallo had already
19 expressed, the New York insurance commissioner, the
20 willingness of that regulator to upstream \$20 billion of
21 liquidity to the parent company.

22 "So there are many different scenarios that could
23 have played out with that access, and I haven't
24 calculated whether that alone would have resolved the
25 issues at the time, but it certainly, the calculations I

1 have done show that it would have had a significant
2 impact.

3 "QUESTION: You haven't done the calculations to
4 know whether access to the PDCF alone would have resolved
5 AIG's liquidity issues in September 2008; is that
6 correct?

7 "ANSWER: That's what I just said. I described
8 that the PDCF, my calculations showed that the PDCF
9 would -- access to a facility like that would have
10 provided significant amounts of liquidity to AIG such
11 that the path that it was on would have meaningfully
12 changed."

13 Do you see that?

14 A. Yes, I do.

15 Q. And is that consistent with your views today?

16 A. Yes.

17 Q. And can you explain what you meant by the path
18 that AIG was on would have meaningfully changed if it had
19 had access to the PDCF?

20 A. Well, the PDCF or something like that would have
21 created liquidity for AIG in the short term. And
22 ultimately the run that was affecting AIG's securities
23 lending business and its commercial paper lines were
24 affected by the concern about AIG's overall liquidity.

25 So one of its central problems that week was that

1 counterparties were pulling back, just as they were
2 across a variety of other institutions but in particular
3 with AIG, but it had nowhere to use the collateral that
4 it had to create liquidity, and so if it could have, then
5 a variety of other things are likely to have changed,
6 including potentially, you know, the views of the
7 regulator towards AIG, you know, the views of private
8 parties towards AIG, you know.

9 So there's a lot of things that could have played
10 itself out quite differently if that access was
11 available.

12 Q. Now, I asked you this morning whether you had a
13 view as to what AIG's access to private capital raises
14 would have been if they had access to PDCF.

15 In addition to access to private capital raises,
16 were there other alternatives that AIG had to raise
17 liquidity?

18 A. Well, we've heard a variety of pieces of testimony
19 about alternative sources of funding that were being
20 explored over that period of time, whether it be through,
21 you know, the witness from Blackstone as well as others
22 who described access to sovereign wealth funds, for
23 instance.

24 So there was certainly interest at the time, but
25 of course, as we know, you know, the circumstances just

1 didn't materialize in a way that those private parties
2 could come forward.

3 Q. Thank you.

4 Now, let me direct your attention to another
5 subject that I started out with this morning, but I used
6 the wrong exhibits.

7 Do you recall I asked you about the PDCF and
8 whether there was a commitment at the time it was
9 developed and extended to keep it in effect for some
10 period of time?

11 A. Yes, I do.

12 Q. And I showed you some exhibits that we had not
13 included on our witness list.

14 Let me ask you to look first at Defendant's
15 Exhibit 933 and Plaintiffs' Trial Exhibit 1202.

16 A. So which is the defendant's exhibit?

17 Q. It's Defendant's Exhibit 933, and it's
18 Plaintiffs' Trial Exhibit 2012, and I don't think you've
19 got them in your book.

20 THE COURT: He's handing them out separately.

21 THE WITNESS: Oh, okay.

22 THE COURT: So you'll have them in just a
23 moment.

24 THE WITNESS: Thank you for rescuing me.

25 (Pause in the proceedings.)

1 BY MR. BOIES:

2 Q. Now, first let me ask you to look at
3 Plaintiffs' Trial Exhibit 1202, which is a
4 Federal Reserve press release dated March 16, 2008, which
5 I would offer.

6 MR. DINTZER: No objection, Your Honor.

7 THE COURT: Plaintiffs' Trial Exhibit 1202 is
8 admitted.

9 (Plaintiff's Exhibit Number 1202 was admitted into
10 evidence.)

11 BY MR. BOIES:

12 Q. And do you see in the second paragraph where it
13 says "the Federal Reserve Board voted unanimously to
14 authorize the Federal Reserve Bank of New York to create
15 a lending facility to improve the ability of primary
16 dealers to provide financing to participants in
17 securitization markets. This facility will be available
18 for business on Monday, March 17. It will be in place
19 for at least six months and may be extended as conditions
20 warrant"?

21 Do you see that?

22 A. Yes, I do.

23 Q. And what significance, if any, does that have to
24 your analysis as to whether the PDCF was simply an
25 overnight facility?

1 A. Well, it's -- obviously it's created for a
2 six-month period with the potential for it to continue.
3 I think the question as to whether it's effectively more
4 than an overnight facility relates to the incentives of
5 the parties to use the facility and how they -- what the
6 economic forces at play with regards to the facility's
7 use.

8 Given that it's, you know, a backstop liquidity
9 provision with the Federal Reserve acting in unusual and
10 exigent circumstances, taking collateral from solvent
11 institutions, you know, presumably given that policy
12 motivation, it will be in place until those circumstances
13 change.

14 Q. And as you under- --

15 A. And that could be through, you know, rolling it,
16 you know, night by night or extending the whole facility
17 again for a longer period of time.

18 Q. And as you understood it, during the time that the
19 facility was available from the Federal Reserve, were
20 participants permitted to simply roll their borrowings
21 night by night or day by day?

22 A. That's my understanding.

23 Q. Let me ask you to look now at Defendant's
24 Exhibit 933, which I would also offer.

25 MR. DINTZER: No objection, Your Honor.

1 THE COURT: Defendant's Exhibit 933 is admitted.
2 (Defendant's Exhibit Number 933 was admitted into
3 evidence.)

4 BY MR. BOIES:

5 Q. And this is a release from the Federal Reserve
6 Bank of New York, dated September 15, 2008.

7 Do you see that?

8 A. Yes.

9 Q. And if you go to page 2 of the exhibit, at the
10 very end do you see the heading "How long will the PDCF
11 be in operation?" Do you see that?

12 A. Yes, I do.

13 Q. And the answer that the Federal Reserve gives is:
14 "The PDCF will remain available to primary dealers until
15 January 30, 2009 or longer if conditions warrant."

16 Do you see that?

17 A. Yes. That's similar to the way I answered your
18 earlier question.

19 Q. And one more cleanup item, would you look at
20 Plaintiffs' Trial Exhibit 5352.

21 And this compares the kind of collateral that was
22 being used in late March of 2008 with that which was
23 being used in late September 2008 for the PDCF; correct?

24 A. Yes.

25 Q. And you have a bar chart for September 29, 2008

1 that totals about \$170 billion; is that correct?

2 A. Yes.

3 Q. And then you show in different colors how much was
4 accounted for by investment grade and government debt
5 securities, 29 percent, unrated debt securities
6 17 percent, non-investment grade debt securities 21 --
7 12 percent, nonsecuritized loans 3 percent, and equity
8 38 percent.

9 Do you see that?

10 A. Yes, I do.

11 Q. And then you also have dollar amounts associated
12 with each of those segments?

13 A. Yes.

14 Q. And is the dollar amount for unrated debt
15 securities that is printed here accurate?

16 A. It looks like it's -- actually it's small, so
17 that -- that percentage there being two billion wouldn't
18 make sense. It's I think on the order of 29 billion or
19 30 billion.

20 Q. And you can tell that amount by looking at how
21 much of the left-hand axis is occupied; is that correct?

22 A. Exactly.

23 MR. BOIES: With the Court's permission, we will
24 substitute a corrected version of this.

25 THE COURT: Sure, that will be fine.

1 BY MR. BOIES:

2 Q. Now let me turn back to where we were, and you may
3 recall that we were looking at Plaintiffs' Trial
4 Exhibit 5361, which compared the haircuts on various
5 kinds of collateral under various Federal Reserve credit
6 facilities. Do you recall that?

7 A. Yes.

8 Q. Let me turn now to what happened after the
9 revolving credit facility was put into effect.

10 First, as you indicated on Plaintiffs' Trial
11 Exhibit 5362, there was both a November 2008
12 restructuring and a restructuring that was announced in
13 March 2009 and actually went into effect in April of
14 2009; correct?

15 A. That's right, yes.

16 Q. And would you describe what Plaintiffs' Trial
17 Exhibit 5362 does.

18 A. So 5362 describes how the terms of the RCF
19 changed.

20 And I think to put it in context, it's important
21 to recognize that, in retrospect, the terms have been
22 described as onerous. And by "onerous" I think people
23 like Mr. Paulson or Mr. Liddy, who I think both used that
24 term, looked at the interest rates, looked at the
25 requirements of the loan and saw that it wasn't

1 sustainable, that it wasn't comparable and it wasn't
2 sustainable, and so for this to be a lasting solution for
3 AIG, something would have to be done because, as the
4 rating agencies noted right before, you know, both of
5 these restructurings, the capital structure and the cash
6 flow that was gobbled up by the RCF put the company at
7 risk in terms of the way they viewed whether it had a
8 sustainable cash structure.

9 So the November restructuring was a first move to
10 deal with the structure of the RCF, and then the March
11 restructuring was again another restructuring to put the
12 capital structure into a sustainable one so that AIG
13 could meet its objectives and the government's objectives
14 from a long-run perspective.

15 Q. And did the November restructuring include what
16 has been referred to as Maiden Lane II and
17 Maiden Lane III?

18 A. Yes.

19 So both of the Maiden Lane special-purpose
20 vehicles were created as part of the November
21 restructuring.

22 Q. Now, let me turn to Maiden Lane III first and
23 direct your attention to Plaintiffs' Trial Exhibit 5366.

24 Is this a document that you prepared?

25 A. Yes, it is.

1 Q. And what does this show about Maiden Lane III?

2 A. Well, it summarizes that Maiden Lane III was an
3 asset swap and that provided tremendous liquidity to
4 AIG's counterparties.

5 So if you think about both the counterparties and
6 AIG's position at this point, AIG had posted collateral
7 to the counterparties, as we talked earlier. That
8 collateral was well in excess of, you know, the expected
9 losses related to those CDOs.

10 With the Maiden Lane III structure, the
11 special-purpose vehicle was fully funded with the
12 collateral posted by AIG and additional equity, as well
13 as a loan from the Federal Reserve Bank of New York.

14 So AIG put up a total of \$37.5 billion. The
15 Federal Reserve Bank of New York put up \$24.3 billion.
16 And they used that to purchase the CDOs from the
17 counterparties.

18 So the CDOs -- so the counterparties received
19 additional liquidity against these illiquid securities.

20 Q. Let me stop you there for a minute.

21 There was notional value or par value of
22 \$62.1 billion; correct?

23 A. Yes.

24 Q. And AIG had already posted \$37.5 billion?

25 A. 32.5.

1 Q. \$32.5 billion.

2 And AIG was putting in another \$5 billion; right?

3 A. Yes.

4 Q. And the difference between this total of
5 \$37.5 billion and the notional value was what the
6 Federal Reserve Bank loaned; correct?

7 A. Exactly.

8 So the difference between those two is, you know,
9 about, what, 24.3 billion.

10 Q. Now, if the Federal Reserve Bank had guaranteed
11 these CDSs, the maximum exposure would have been the
12 amount that the Federal Reserve Bank loaned; is that
13 correct?

14 A. Yes. If that's how the guarantee was structured.

15 Q. Now, if the Federal Reserve Bank had simply
16 guaranteed the notional value as opposed to constructing
17 it -- structuring it the way ML III was structured, what
18 would the effect on AIG have been?

19 A. You mean where the government steps in to the --
20 basically novates the contract between the AIG parent as
21 the guarantor on AIGFP's CDS. If the government had
22 stepped in to take that position, there wouldn't have
23 been a reason to post collateral since there's no credit
24 risk with the federal government, so that would have had
25 the impact of releasing the collateral, which would have

1 been returned presumably to AIG then.

2 Q. Let me ask you to look at Plaintiffs' Trial
3 Exhibit 5367.

4 Is that a document you prepared?

5 A. Yes, it is.

6 Q. And would you explain what this shows.

7 A. Well, this is a summary chart of each of AIG's
8 counterparties ordered by -- from largest to smallest,
9 its counterparties on the CDS on CDO portfolio.

10 For each counterparty, the orange bar is the par
11 value, and then the blue bar is the collateral payment
12 that AIG had already made, and then the dark -- the light
13 blue bar on top of that is the additional payment that
14 the counterparties received from Maiden Lane III, which
15 ultimately of course for each of them adds up to the par
16 value of the CDOs that they held.

17 Q. Now, with respect to the counterparties, if the
18 Federal Reserve Bank of New York had guaranteed the CDOs
19 instead of doing Maiden Lane III, what would have
20 happened to the light blue line, the additional payments
21 to the counterparties?

22 A. Well, that counterfactually wouldn't be made.

23 Q. So that would not have been made.

24 A. Right.

25 Q. And that total amount that was paid to the

1 counterparties was --

2 A. Was 24.3 billion.

3 Q. Or plus -- plus the five?

4 A. Yes, that's right.

5 Q. So that was about --

6 A. 29.3.

7 Q. -- \$29.3 billion that would not have been paid.

8 A. Yes.

9 Q. In addition to that, what would have happened to
10 the collateral payments that had already been posted?

11 A. Well, as we were just discussing, because there
12 would be no need for covering the credit risk associated
13 with these CDS contracts, given who the counterparty
14 would then be -- it would be the federal government
15 backing these contracts -- that would have released all
16 of the collateral that AIG had posted.

17 Q. So that the \$32 billion it already posted would
18 have come back and the counterparties would have lost
19 \$61 billion of liquidity; is that correct?

20 A. Yes.

21 Q. Let me turn to Maiden Lane II.

22 And in that connection, did you prepare a chart
23 that showed how the profits from Maiden Lane II were
24 divided?

25 A. Yes, I did. That's PTX 5364.

1 Q. And what does that show?

2 A. Well, this shows that on the RMBS portfolio that
3 AIG's security lending business was invested in, so it's
4 an illiquid portfolio which was swapped out to
5 Maiden Lane II, that the profits from this exercise were
6 split five-sixths for the Federal Reserve Bank of
7 New York and one-sixth to AIG, that this graph summarizes
8 how the actual residual profits from Maiden Lane II were
9 allocated between the two parties.

10 Q. So that the Federal Reserve Bank of New York
11 received about \$2,300,000,000 of profits and AIG received
12 about \$500 million of profits?

13 A. Correct.

14 Q. And with respect to Maiden Lane III, going back to
15 Plaintiffs' Trial Exhibit 5366?

16 A. Yes.

17 Q. How were the Maiden Lane III profits divided
18 between the Federal Reserve and AIG?

19 A. That was divided where -- with a
20 one-third/two-thirds split as I recall.

21 Q. Let me ask you to look next at Plaintiffs' Trial
22 Exhibit 5365.

23 Is this a document you prepared?

24 A. Yes, it is.

25 Q. And what does this document show?

1 A. Well, this is a summary of the components of the
2 Maiden Lane III portfolio securities that were listed in
3 the DOJ settlements and then likewise for the
4 Maiden Lane II portfolio securities, those that were
5 listed in the DOJ settlements, so it's a summary of
6 securities that were implicated in the various
7 prosecutions that we looked at earlier.

8 Q. And with respect to the Maiden Lane III portfolio
9 securities, which is a total of \$61 billion of notional
10 value, what percentage of those securities were listed in
11 DOJ settlements?

12 A. So 72 percent or a notional amount of 45 billion.

13 Q. And as part of your analysis, did you investigate
14 whether anything was done in connection with
15 Maiden Lane III that affected AIG's ability to seek
16 recovery for any claims that it might have against
17 counterparties?

18 A. Well, my understanding is that in creating
19 Maiden Lane III, a series of releases were entered
20 into --

21 MR. DINTZER: Objection, Your Honor. This calls
22 for a legal conclusion. I mean, whatever he's going to
23 say after "a series of releases were entered into," it
24 seems like that would be an interpretation of whatever
25 those releases are. And I understand he's looked into

1 all this stuff, but I don't understand what the economics
2 behind whatever he's going to say would be.

3 THE COURT: Mr. Boies?

4 MR. BOIES: Your Honor, a number of nonlawyers
5 have talked about the releases in this trial. And all he
6 is I think going to talk about is his understanding as an
7 economist of what happens when you have potential claims
8 and then you release them. I think it's pretty
9 straightforward.

10 THE COURT: I'm going to overrule the objection,
11 but certainly you can cross-examine when the time comes.

12 MR. DINTZER: Thank you, Your Honor.

13 THE COURT: Sure.

14 BY MR. BOIES:

15 Q. I think you may have actually either completed or
16 almost completed your answer.

17 I had asked whether as part of your analysis you
18 had investigated whether anything was done in connection
19 with Maiden Lane III that affected AIG's ability to seek
20 recovery for any claims that it might have against
21 counterparties. Do you recall that?

22 A. Yes. And I answered that AIG entered into a
23 series of releases that precluded it from recoveries of,
24 you know -- of litigations.

25 Q. Let me ask you to return to the question of a

1 guarantee, which I raised in connection with
2 Maiden Lane III. Do you recall that?

3 A. Yes.

4 Q. Did the Federal Reserve participate in providing
5 any guarantees to companies other than AIG?

6 A. Yes, they did. If you think back to, you know,
7 earlier this after- -- well, at some point today I
8 talked about Treasury getting the ability to guarantee
9 the portfolios of the GSEs, so there was a recognition
10 that the -- you know, the market -- you know, to create
11 more certainty in the market, ensuring that there was an
12 actual guarantee behind those securities was important.

13 And then the concept of guarantees was again used
14 in the week of the Lehman failure as a way of stemming
15 the outflow from the money market mutual funds.

16 As well, the FDIC used guarantees as a way of
17 keeping an outflow from the institutions that it
18 oversaw.

19 And then as well, there were guarantees created
20 for Bank of America and Citibank later that -- later in
21 2008.

22 Q. And did the Federal Reserve participate in the
23 Bank of America and Citibank guarantees?

24 A. Yes, it did.

25 Q. Did you prepare a demonstrative that relates to

1 the Citibank guarantee?

2 A. Yes, I did.

3 Q. Which is that?

4 A. It's PTX 5368.

5 Q. And what does that document show?

6 A. Well, this describes in summary terms the
7 guarantee that the government provided to Citigroup on a
8 portfolio of \$301 billion. It was designed to limit the
9 losses on this portfolio so that investors and others
10 would have confidence or more confidence in Citigroup.

11 Q. Now, in addition to that guarantee, did Citigroup
12 receive other financial and liquidity assistance from the
13 government?

14 A. Yes. They received, you know, a wide range of
15 assistance from the government.

16 Q. And did you prepare a demonstrative that
17 summarizes some of that?

18 A. Yes.

19 The next exhibit here, PTX 5369, provides a
20 guarantee of -- not a guarantee of -- a summary of
21 additional financial support that Citigroup got from the
22 government. These include FHLB advances of 89 billion,
23 TSLF funding of 30 billion, PDCF funding of 22 billion,
24 TAF funding of 16 billion, and ST OMO funding of
25 3 billion.

1 Q. Let me ask you to look at Plaintiffs' Trial
2 Exhibit 5370.

3 Is this a document you prepared?

4 A. Yes, it is.

5 Q. And I think we've seen something very similar to
6 this earlier, so I don't want to spend a lot of time on
7 it, but is this your calculation of the outstanding
8 balance of the AIG revolving credit facility?

9 A. Yes.

10 This document demonstrates the impact of the
11 November and March restructurings on the amount
12 outstanding on the RCF facility, so we can see in
13 November one restructuring have a direct impact on the
14 balance and then the March restructuring have another
15 impact, which actually was implemented in December.

16 Q. Now, there's been testimony both yesterday and
17 today that you've given about the sale and potential sale
18 of assets by AIG. Do you recall that?

19 A. Yes.

20 Q. Did you prepare a chart that gave examples of
21 certain sales of assets by AIG?

22 A. Yes.

23 The next slide here, PTX 5371, is a summary of
24 assets sold by AIG. It's obviously not the universe, but
25 it's a collection of some of the more -- a variety of the

1 larger sales that they engaged in.

2 Q. And at the time of the RCF in September of 2008, I
3 think you said that there was indications of interest on
4 various parties of buying certain AIG assets; is that
5 correct?

6 A. Yes. In general, AIG owned some of the most
7 attractive insurance assets in the world.

8 There was a -- there -- their companies in south
9 Asia, Southeast Asia, which were actually where the
10 company started in Singapore, AIA and ALICO were very
11 attractive assets given how long AIG had been in that
12 region and some of the special licenses that they gave
13 them access to gave them unique access to China, as well
14 as specialized insurance programs for machinery and other
15 types of heavy industry, which were, again, another very
16 special asset.

17 Q. And did you prepare a demonstrative that relates
18 to some of the evidence that you relied on in connection
19 with the interest that you testified about before of the
20 Chinese in acquiring certain AIG assets?

21 A. Yes.

22 PTX 5372 are some citations to the record and
23 other documents about the unique assets that AIG had in
24 China and Southeast Asia.

25 So the other day, we heard Mr. Studzinski speak of

1 conversations he had about AIA being worth \$50 billion.

2 Again, Secretary Paulson spoke about AIG being an
3 icon in China and how it was a gold standard in
4 excellence.

5 So there's a variety of places where people have
6 recognized in this record as well as, you know, outside
7 of the record about the valuable assets that AIG held in
8 Asia as well as those that it holds in the
9 United States.

10 Q. Let me turn to another subject.

11 And do you have an understanding one way or the
12 other as to whether or not the terms of the
13 Federal Reserve credit as approved by the
14 Board of Governors on September 16, 2008 were different
15 in any way from the final terms that were included in the
16 RCF dated September 22, 2008?

17 A. Yes. I've listened to the testimony and heard,
18 done my own investigation of the record to see, you know,
19 the extent to which the terms changed from the initial
20 terms that were approved to those that were finally
21 signed as part of the RCF.

22 Q. And did you prepare a demonstrative exhibit
23 related to that?

24 A. I did.

25 Q. And what is that?

1 A. That's the exhibit labeled PTX 5373.

2 Q. Let me ask you to look at that.

3 And you identify four terms here; is that
4 correct?

5 A. Yes.

6 Q. And I'd like to go through each of those one by
7 one.

8 A. Okay.

9 Q. First is the form of equity, and can you explain
10 what the form was that was approved by the
11 Board of Governors on September 16 and what the form was
12 in the September 22 RCF.

13 A. So the Board of Governors approved the use of
14 warrants and that the final terms that were effective in
15 the RCF were voting convertible preferred shares, so...

16 Q. Does that have a significance as an economic
17 matter?

18 A. There are several features of that which are
19 important. One is about voting control, and another is
20 related to the cost of exercising or -- or so I should
21 say the value of the equity is substantially different.

22 Q. Can you explain that.

23 A. Well, with warrants, given the par value of AIG's
24 shares being 2.50, it would have required a minimum
25 exercise price of \$30 billion to utilize the warrants,

1 and only with that expenditure would the government then
2 have voting rights.

3 With the voting convertible preferred shares,
4 there was no exercise price, and it provided immediate
5 voting control on all issues except for charter
6 amendments, which obviously require shareholder
7 approval.

8 Q. As you understand it, what, if anything, was
9 contemplated, at the time the Board of Governors approved
10 the terms of the credit facility, with respect to whether
11 AIG's shareholder approval would be required for the
12 issuance of stock?

13 MR. DINTZER: Objection, Your Honor. Outside the
14 scope of his expertise.

15 It's not clear how his economic expertise
16 addresses what the Board of Governors contemplated and
17 how that would relate to any of the opinions that he's
18 offering.

19 THE COURT: Mr. Boies?

20 MR. BOIES: I think it's a predicate, Your Honor,
21 for his economic testimony.

22 With respect to this issue, I can ask the witness
23 a hypothetical and I -- if the Court would prefer, I can
24 proceed that way, because what I need is not for him to
25 tell the Court that shareholder approval was required.

1 That's written in black and white. What I need him to
2 say is what the economic significance of that is, so if
3 the Court prefers, I'll proceed hypothetically.

4 THE COURT: I think I would prefer that, so he's
5 going to ask a different question.

6 MR. DINTZER: Thank you, Your Honor.

7 BY MR. BOIES:

8 Q. If it were the case that the terms of the credit
9 facility approved by the Board of Governors required
10 shareholder approval before stock could be issued and the
11 final terms of the credit facility provided that the
12 voting preferred shares would be issued without further
13 shareholder approval, would that change have economic
14 significance?

15 A. Yes.

16 Q. Why?

17 A. Well, it's a change in the degree of control that
18 the existing shareholders would have relative to the
19 government, and so that's a -- creates a cascade of
20 impacts from that change in control.

21 Q. And can you give some examples of those impacts.

22 A. Well, it could be about, you know, decisions about
23 board members, management, financing. You know, a wide
24 range of things could be impacted by that.

25 Q. Let me turn to another subject or actually a

1 series of related subjects.

2 You are aware that in this case certain witnesses
3 have explained the government's acquisition of equity in
4 AIG in a variety of ways.

5 A. Yes. That was a central area of examination
6 for -- in my opening report.

7 Q. And I'd like to take you through some of those
8 explanations and have you explain to the Court what, if
9 anything, you can say as an economist about the
10 rationality of those explanations.

11 A. Okay.

12 Q. First, there may have been a suggestion that the
13 terms of the AIG credit facility were necessary or
14 appropriate to punish shareholders for their "mistakes."

15 A. Yes.

16 Q. Have you investigated whether that potential
17 justification could be justified on an economic basis?

18 A. Well, I tried to formulate it as an economic
19 question and I've, you know, investigated that, yes.

20 Q. And have you prepared an exhibit that relates to
21 that?

22 A. I have. Let me just find it.

23 It's PTX 5375.

24 Q. And what does this exhibit show?

25 A. Well, it shows, first off, one of the people who

1 was making -- providing this explanation that it was
2 intended to be, you know, punitive. And as part of
3 something being a punishment as a rational --
4 economically rational justification, there would have to
5 be a reason to punish somebody for it to be, you know,
6 kind of a rational thing to have done, and that would
7 require doing an investigation as to why was it that AIG
8 was in the position that it was.

9 And as I've shown here, neither that investigation
10 was done nor, had it been done, would there be, you know,
11 ultimately a reason for punishing AIG.

12 Q. Now, did you also investigate whether there was an
13 economically rational basis for justifying the terms of
14 the AIG credit facility relating to equity on
15 "moral hazard" terms?

16 A. Yes. I've -- I have. I have.

17 Q. And did you prepare a chart on that?

18 A. I did.

19 5376, PTX 5376, is the chart that I've prepared
20 that summarizes my observations and analysis around this,
21 around this question.

22 Q. And what is your analysis of this question?

23 A. Well, there are a variety of observations I've
24 made about moral hazard, you know, the first being that
25 under Bagehot's dictum, under, you know, the guidance

1 that's directed at central banks for over a century,
2 there are really two ways that moral hazard is dealt with
3 during a crisis period. One is by charging a penalty
4 rate. And then the other is by understanding that the
5 time to provide corrective action is either before or
6 after, and so that was an important part of Bagehot's
7 dictum.

8 In addition, when you think about moral hazard,
9 it's an area where, as a policymaker, you're thinking
10 about the party having done something that you -- you
11 provided some framework which then they took advantage of
12 in some way. They deviated from what was expected of
13 them.

14 And you know, that's obviously a problem in all
15 kinds of different areas, that kind of incentive problem,
16 but to correct for that by taking equity is a -- is I
17 think an odd explanation. And it's odd for a couple of
18 reasons.

19 One is that you're -- by doing that, you are
20 expecting that other market participants are going to
21 interpret your actions as rational ones, and so that
22 requires that you have acted rationally already
23 previously.

24 And so for this explanation to make sense, it
25 would have to concord with all of the other actions

1 you've done, and there isn't that concordance between the
2 treatment of the primary dealers, AIG and then the
3 treatment of others in the past.

4 So there are -- you know, for people to be able to
5 infer something about the Federal Reserve that would make
6 sense, there would have to be a consistency of behavior
7 over the period. And as we've seen, that just doesn't
8 exist.

9 Sorry. I -- so, for instance, the broker-dealers,
10 the primary dealers were treated, you know, incredibly
11 well. They received backstop liquidity support at no
12 charge. Even at the height of the crisis, the very same
13 week that AIG was in crisis, they got special treatment.
14 They were given bank holding status, even though they
15 were basically in the same boat as AIG, except they
16 already had backstop liquidity support.

17 So it doesn't make sense to then isolate AIG as,
18 you know, requiring some special treatment for either a
19 penalty or moral hazard reason.

20 The other reason that I don't think this
21 explanation makes sense is that by March of 2008, the
22 government had already announced that they were seeking
23 alternative regulatory regimes, so to draw any inference
24 from the treatment of AIG at the height of the crisis
25 that it was going to affect future behavior some way, it

1 just -- from a policy perspective, everybody knew that
2 the tables were going to have changed and there would be
3 a different regime that was put in place.

4 Q. Let me turn to another potential explanation that
5 certain people have raised, and that is that the punitive
6 terms of the AIG credit facility were necessary to
7 protect against the risk of the loan.

8 Do you recall seeing that?

9 A. Yes.

10 Q. Did you evaluate whether that justification made
11 any economic sense?

12 A. I did.

13 That was a relatively recent explanation that's
14 been forwarded. And again, it's an explanation that I
15 don't think is economically supportable.

16 And the reason is that, first off, the loan was,
17 you know, fully collateralized, so from a risk
18 perspective, it was on the same footing as many of the
19 other institutions. And in particular, it was
20 collateralized with assets which were better quality than
21 were being pledged in, let's say, to the PDCF.

22 So that's one reason.

23 The other is, when you look at the terms that were
24 being charged for the loan, there's no concordance
25 between the credit quality or the -- of this loan versus

1 others that had been entered into by alternative
2 institutions, so there's -- from a credit quality
3 perspective, it's -- it's I think very difficult to --
4 well, I think it's impossible to justify the terms that
5 way.

6 Q. Would you look at Plaintiffs' Trial Exhibit 5378.
7 Is that a document that you prepared?

8 A. Yes.

9 Q. And does that set forth some of the evidence from
10 the trial that you considered in connection with the
11 opinion that you've just expressed?

12 A. Yes.

13 So, for instance, on the security of the loan, the
14 Federal Reserve had numerous consultants that they hired,
15 Morgan Stanley and Ernst & Young being more noteworthy
16 then in terms of them doing valuations over time. And if
17 you look at the level of the loan versus the value of the
18 collateral that Morgan Stanley and Ernst & Young
19 calculated at any point in time, there was always a very
20 large cushion between the principal amount and the value
21 of the collateral.

22 And you know, it's not surprising to see that in
23 the, you know, underlying calculations because in
24 numerous places top government officials have talked
25 about the loan being fully secured because that's

1 actually, you know, an important part of extending a
2 13(3) loan, that it's supposed to be fully secured.

3 So those are a couple of the observations.

4 And you can understand why the calculations come
5 out that way because when you look at the assets that
6 were in the AIG subsidiaries, they're some of the best
7 insurance companies in the world, highly rated by
8 A.M. Best and others, with -- in normal circumstances, in
9 a normal market, there would have been plenty of demand
10 for those, those assets.

11 Q. There's also been suggestion that somehow AIG was
12 different than primary dealers and therefore shouldn't
13 have access to 13(3) liquidity on terms comparable to
14 Morgan Stanley and other dealers.

15 Did you evaluate that to determine whether that
16 had an economic rationale or was consistent with the
17 economic theory of central banking?

18 A. Well, first off, you know, in general, Bagehot as
19 well as, you know, various parts of guidance that are
20 provided to the Federal Reserve on how to support the
21 economy overall lead one to -- or lead me to the
22 conclusion at least that you should lend to any and all
23 against adequate collateral, so the reason for that is
24 you're trying to create confidence or recreate
25 confidence. And it doesn't help to create -- you know,

1 in that pursuit by creating, you know, essentially in
2 groups and out groups.

3 Certainly if you're on the out group, that's not
4 helping create confidence there. It doesn't help with
5 the interaction between those types of institutions. And
6 it doesn't help in the long run, given that it's an
7 incomplete answer to the general problems that were faced
8 at the time.

9 And in particular, immediately after the creation
10 of the March facilities, various task force -- task
11 forces immediately started analyzing, well, what are
12 alternative definitions, what are more economically
13 rational ways of creating the -- you know, perhaps
14 creating boundaries for participation in government
15 programs.

16 Ultimately, the Federal Reserve's efforts, as we
17 heard from Ms. Dahlgren the other day, her task force,
18 you know, which was reporting to Mr. Geithner, that got
19 interrupted by the September crisis. The recommendations
20 that came from Treasury were already out in March.

21 Q. Have you prepared a demonstrative exhibit that
22 summarizes some of the evidence that you relied on from
23 the trial related to this opinion?

24 A. I have.

25 Q. And is that Plaintiffs' Trial Exhibit 5379?

1 A. It is, yes.

2 Q. And --

3 A. Yes.

4 So as we look through the various points that I've
5 made here on 5379, they, you know, in different words,
6 replicate what I was just -- what I was just saying.

7 Q. And when Mr. Bagehot says that in a panic,
8 central banks "must lend to merchants, to minor bankers,
9 to this man and that man, whenever the security is good,"
10 what significance, if any, does that have to your
11 analysis?

12 A. Well, this is a principle that goes back to the
13 19th century. It's a principle that has been utilized as
14 a guiding principle. When you look at, you know, the way
15 13(3) came about and its utilization historically, it
16 reflects this principle.

17 And so as an economic matter, it's certainly a
18 principle that's been a guiding principle. And there is
19 a very strong economic rationale behind it obviously
20 given that the longevity of this principle.

21 Q. And I think you said earlier that you had analyzed
22 what the Federal Reserve had done with respect to
23 13(3) loans back shortly after 13(3) was enacted; is that
24 correct?

25 A. Yes.

1 Q. And let me hand up two documents,
2 Plaintiffs' Trial Exhibits 2816 and 2826.

3 These are both additional Doomsday Book memos,
4 Your Honor, which I would offer.

5 MR. DINTZER: No objection, Your Honor.

6 THE COURT: All right. Plaintiffs' Trial
7 Exhibits 2816 and 2826 are admitted.

8 (Plaintiff's Exhibit Number 2816 was admitted into
9 evidence.)

10 (Plaintiff's Exhibit Number 2826 was admitted into
11 evidence.)

12 BY MR. BOIES:

13 Q. And is Plaintiffs' Trial Exhibit 2816, for
14 example, one of the documents that you relied on to
15 indicate the kinds of 13(3) loans that the
16 Federal Reserve has historically made?

17 A. Yes. I've seen this document before, and it's an
18 interesting one, given the -- you know, the summary
19 that's provided at the end in table 1.

20 And then PTX 2826 from -- you know, written by
21 Mr. Hackley, who used to be general counsel at the
22 Board of Governors, you know, I've seen this before.

23 And there's also another excellent history that
24 Mr. Hackley prepared of the Federal Reserve and the
25 origins of various principles from an economic

1 perspective as to, you know, where they come from and why
2 they're there.

3 Q. Is that a relatively thick publication, the
4 Hackley thing that you're referring to now (indicating)?

5 A. No. You might be thinking of Al Meltzer's history
6 of the Federal Reserve, which is like this
7 thick (indicating). Hackley's is about yea
8 thick (indicating).

9 THE COURT: Could you describe what you just
10 demonstrated with your fingers.

11 THE WITNESS: So the Hackley is a centimeter,
12 Meltzer's two and a half feet.

13 THE COURT: That's much better for the record.

14 THE WITNESS: Sorry.

15 BY MR. BOIES:

16 Q. We're going to try to pull out Plaintiffs' Trial
17 Exhibit 742, which is in evidence, and see if this is the
18 document that -- or one of the documents that you're
19 referring to.

20 While we're doing that --

21 A. Yeah, it's on the screen here.

22 Q. Is this the document that you were referring to?

23 A. Yes. I guess the copy I have is two-sided. I'll
24 bet that's one-sided.

25 Q. Yes, this is one-sided -- or it's actually

1 two-sided.

2 A. Oh.

3 Q. But Lending Functions of the Federal Reserve
4 Banks: A History?

5 A. Yes, exactly.

6 Q. That's what you're referring to.

7 Another and I think last explanation that has
8 sometimes been given for the requirement that the AIG
9 shareholders surrender 79.9 percent of their equity and
10 voting control is that that was necessary to deprive AIG
11 shareholders of a "windfall."

12 A. Yes.

13 Q. Are you familiar with that?

14 A. I am.

15 Q. And did you analyze that from an economic
16 standpoint and from the standpoint of a theory of central
17 banking?

18 A. Yes, I did.

19 Q. And what did you conclude?

20 A. Well, the -- you know, the -- one of the core
21 purposes of providing liquidity in emergency situations
22 is to rectify a market failure. And the market failure
23 arises from, you know, fear in the markets that then
24 causes liquidity to dry up. And that has the impact of
25 creating negative externalities for market participants,

1 so your bad thoughts have an impact on me trying to
2 achieve, you know, raise liquidity for myself.

3 And that's exactly what happened to AIG. The
4 market circumstances created a, you know, broad-spread
5 panic. They affected AIG by creating a run on it. They
6 affected AIG through creating fire -- you know, through
7 creating marks that impacted the CDS collateral calls in
8 a very artificial manner.

9 And so these negative externalities were
10 ultimately corrected through the provision of the -- of
11 liquidity to AIG. And I should say they really only
12 partially corrected, because if earlier support had been
13 provided, it's likely that the range of kind of
14 devastating circumstances would have been different.

15 MR. BOIES: Thank you.

16 I'm now going to spend a few minutes on sort of
17 housekeeping to go through some documents that I need to
18 get admitted.

19 First, I would offer Plaintiffs' Demonstrative
20 Exhibits 5300 through 5381 and Plaintiffs' Trial
21 Exhibit 2857-A for the purpose of illustrating the
22 witness' testimony.

23 MR. DINTZER: We have no objection to them coming
24 in purely as demonstratives, Your Honor.

25 THE COURT: Yes. Very well.

1 The demonstrative exhibits, Plaintiffs' Trial
2 Exhibits 5300 through 5381, and 2857-A are admitted as
3 demonstratives.

4 (Plaintiff's Exhibit Numbers 5300-5381 were
5 admitted into evidence.)

6 (Plaintiff's Exhibit Number 2857-A was admitted
7 into evidence.)

8 MR. BOIES: I would also offer Plaintiffs' Trial
9 Exhibit 168.

10 MR. DINTZER: No objection, Your Honor.

11 THE COURT: Plaintiffs' Trial Exhibit 168 is
12 admitted.

13 (Plaintiff's Exhibit Number 168 was admitted into
14 evidence.)

15 MR. BOIES: I would also offer Plaintiffs' Trial
16 Exhibit 457.

17 MR. DINTZER: Your Honor, just one caveat on the
18 demonstratives. We did not object to them coming in and
19 we generally don't. I have not kept a score sheet. I do
20 sense that there's at least one and maybe more that have
21 not been covered with the witness. And to the extent
22 that any were not actually addressed by the witness, then
23 of course they would not be demonstratives because they
24 didn't demonstrate anything that he said, so could we
25 reserve the right to object and pull out any that he did

1 not actually address?

2 THE COURT: I guess -- I think that would be
3 fine.

4 MR. BOIES: Your Honor, I have no objection to
5 that.

6 MR. DINTZER: Thank you.

7 MR. BOIES: That reminds me that while I'm doing
8 this, I will ask my colleagues to tell me if I've
9 missed a demonstrative exhibit that I should have gone
10 through.

11 Did we deal with Plaintiffs' Trial Exhibit 457,
12 which I offered?

13 THE COURT: No, not yet.

14 MR. DINTZER: Your Honor, is counsel offering this
15 under 703 or is he offering this for admission?

16 MR. BOIES: I would offer it generally. However,
17 if there's an objection, I would be happy to offer it
18 simply as a part of the evidence that the witness has
19 relied on for the present time and then come back to it
20 later in the case.

21 MR. DINTZER: We'd ask for that, Your Honor.
22 703 is fine with us.

23 THE COURT: Okay. Plaintiffs' Trial
24 Exhibit 457 is admitted under the criteria of
25 Federal Rule of Evidence 703.

1 (Plaintiff's Exhibit Number 457 was admitted into
2 evidence.)

3 MR. BOIES: We would next offer Plaintiffs' Trial
4 Exhibit 628.

5 MR. DINTZER: Your Honor, we have hearsay
6 objections about this. We have no problem with it coming
7 in under 703, but we have hearsay concerns about it, so
8 we object to it coming into evidence.

9 MR. BOIES: This is a GAO document, Your Honor.

10 MR. DINTZER: With an expert witness, Your Honor,
11 the only need that he has is that he relied upon it.

12 THE COURT: I'll admit it under the restrictions
13 of 703, so Plaintiffs' Trial Exhibit 628 is admitted.

14 (Plaintiff's Exhibit Number 628 was admitted into
15 evidence.)

16 MR. BOIES: We would offer Plaintiffs' Trial
17 Exhibit 661.

18 MR. DINTZER: Two comments on this, Your Honor.

19 The first is, of course, we have concerns as we've
20 expressed about relevance of the materials relating to
21 the Department of Justice's lawsuits regarding any of
22 these cases.

23 Second, to the extent that the Court wishes to, we
24 think that offering a complaint into evidence is
25 unnecessary and that the proper motion would be that the

1 Court take judicial notice of it.

2 So if -- if the Court believes that this is
3 relevant, we would ask the Court, instead of bringing it
4 into evidence as evidence, that it take judicial notice
5 of it.

6 MR. BOIES: I'll proceed that way, Your Honor,
7 with a motion for judicial notice. I just thought it was
8 easier to do it this way.

9 THE COURT: Frankly, I think it's easier to do it
10 this way just as a practical matter, so I will admit
11 Plaintiffs' Trial Exhibit 661.

12 (Plaintiff's Exhibit Number 661 was admitted into
13 evidence.)

14 MR. BOIES: We would offer Plaintiffs' Trial
15 Exhibit 671 for the limited purpose of illustrating the
16 witness' testimony and what the witness relied on.

17 I would be prepared to offer it for all purposes
18 as well, but that's -- I don't need it other than for
19 purposes of illustrating the witness' testimony.

20 MR. DINTZER: No objection for it coming under
21 703, Your Honor, but we would object to it coming in
22 generally.

23 THE COURT: Well, this is Mr. Geithner's testimony
24 from this case?

25 MR. DINTZER: Well, I don't believe so. I believe

1 it's something that was typed up.

2 MR. BOIES: I believe it's an interview,
3 Your Honor.

4 THE COURT: Oh, it's an interview? All right.

5 MR. BOIES: And I think it -- it is something that
6 ought to be admissible, but for my purposes I don't need
7 it for more than what the expert is relying on.

8 THE COURT: All right.

9 MR. DINTZER: And I'm being told that it may
10 already be in.

11 MR. BOIES: Oh.

12 MR. DINTZER: Our records show that it is in.

13 THE COURT: We agree with you. It's already
14 admitted.

15 MR. DINTZER: So I'll withdraw my objection.

16 MR. BOIES: And I'll withdraw my offer.

17 Next is, I have -- I have Exhibit 1469, which is
18 called an Excel --

19 MR. DINTZER: And I don't know if -- Counsel,
20 could you tell us, is that a plaintiffs' or defendant's
21 exhibit?

22 MR. BOIES: This is Plaintiffs' Trial
23 Exhibit 1469.

24 MR. DINTZER: I'm sorry. It says "native format"
25 in here.

1 MR. BOIES: Yes. That is what I was saying.

2 MR. DINTZER: Oh, I'm sorry.

3 What exactly is it?

4 MR. BOIES: This is the securities lending loan
5 balance from the AIG companies, and it was produced to us
6 in what is called native format, which means we don't get
7 a hard copy, we get something that's electronic, and
8 people deal with it with computers and the like.

9 THE COURT: Who produced it?

10 MR. BOIES: I believe it was AIG.

11 It was AIG, Your Honor.

12 We can have something that is printed out if --

13 MR. DINTZER: We may not have a copy in the
14 courtroom, Your Honor.

15 MR. BOIES: While they're finding that, let me go
16 on --

17 THE COURT: Okay.

18 MR. BOIES: -- to Plaintiffs' Trial Exhibit 1475,
19 which I'd also ask that it be pulled out, 1475, because
20 it also is a native format document.

21 MR. DINTZER: Same concern, Your Honor. We don't
22 have that available right now.

23 (Pause in the proceedings.)

24 MR. BOIES: I'll hand it up to the Court. This is
25 1475.

1 MR. DINTZER: Your Honor, for 1475, we have no
2 objection on 703 that this come in to support the
3 witness' testimony.

4 THE COURT: All right. Plaintiffs' Trial
5 Exhibit 1475 is admitted for the stated purpose.

6 (Plaintiff's Exhibit Number 1475 was admitted into
7 evidence.)

8 MR. BOIES: And next -- and I have now
9 Plaintiffs' Trial Exhibit 1469, which I would offer for
10 the same purposes.

11 MR. DINTZER: No objection under 703, Your Honor.

12 THE COURT: All right. Plaintiffs' Trial
13 Exhibit 1469 is admitted for the stated purpose.

14 (Plaintiff's Exhibit Number 1469 was admitted into
15 evidence.)

16 MR. BOIES: And I would now offer Plaintiffs'
17 Exhibit 1478. And this is introduced limited to showing
18 what the witness relied on.

19 MR. DINTZER: No objection under 703, Your Honor.

20 THE COURT: Plaintiffs' Trial Exhibit 1478 is
21 admitted for the stated purpose.

22 (Plaintiff's Exhibit Number 1478 was admitted into
23 evidence.)

24 MR. BOIES: And I would offer Plaintiffs' Trial
25 Exhibit 1513 for the same purpose.

1 MR. DINTZER: No objection under 703, Your Honor.

2 THE COURT: Plaintiffs' Trial Exhibit 1513 is
3 admitted for the stated purpose.

4 (Plaintiff's Exhibit Number 1513 was admitted into
5 evidence.)

6 MR. BOIES: And I would offer Plaintiffs' Trial
7 Exhibit 2329 without limitation. This is a
8 Federal Reserve Board of Governors government.

9 MR. DINTZER: No objection, Your Honor.

10 THE COURT: Plaintiffs' Trial Exhibit 2329 is
11 admitted.

12 (Plaintiff's Exhibit Number 2329 was admitted into
13 evidence.)

14 MR. BOIES: I would offer Plaintiffs' Trial
15 Exhibit 2388 for purposes of illustrating what the
16 witness relied on.

17 MR. DINTZER: No objection under 703, Your Honor.

18 THE COURT: All right. Plaintiffs' Trial
19 Exhibit 2388 is admitted for the stated purpose.

20 (Plaintiff's Exhibit Number 2388 was admitted into
21 evidence.)

22 MR. BOIES: And I would offer Plaintiffs' Trial
23 Exhibit 2485 on the same basis.

24 MR. DINTZER: No objection under 703, Your Honor.

25 THE COURT: Plaintiffs' Trial Exhibit 2485 is

1 admitted for the stated purpose.

2 (Plaintiff's Exhibit Number 2485 was admitted into
3 evidence.)

4 MR. BOIES: And I would offer Plaintiffs' Trial
5 Exhibit 2504 on the same basis.

6 MR. DINTZER: No objection under 703, Your Honor.

7 THE COURT: Plaintiffs' Trial Exhibit 2504 is
8 admitted for the stated purpose.

9 (Plaintiff's Exhibit Number 2504 was admitted into
10 evidence.)

11 MR. BOIES: And I would offer Plaintiffs' Trial
12 Exhibit 2528 for the same purpose.

13 MR. DINTZER: No objection under 703. We maintain
14 our relevance objection, Your Honor, but other than that,
15 no objection.

16 THE COURT: Plaintiffs' Trial Exhibit 2528 is
17 admitted for the stated purpose.

18 (Plaintiff's Exhibit Number 2528 was admitted into
19 evidence.)

20 MR. BOIES: When I can find a paper copy of
21 Plaintiffs' Trial Exhibit 2539, I will offer that for the
22 same purpose. That is also an Excel spreadsheet we will
23 have to identify.

24 THE COURT: All right.

25 MR. BOIES: Actually, I have that.

1 MR. DINTZER: No objection -- if this has been
2 offered, Your Honor, no objection under 703 for
3 Plaintiffs' Trial Exhibit 2539.

4 THE COURT: Plaintiffs' Trial Exhibit 2539 is
5 admitted for the stated purpose.

6 (Plaintiff's Exhibit Number 2539 was admitted into
7 evidence.)

8 MR. BOIES: I would offer Plaintiffs' Trial
9 Exhibit 2563. This is a Federal Reserve
10 Board of Governors document. This is not being offered
11 for a limited purpose. It's being offered generally.

12 MR. DINTZER: No objection, Your Honor.

13 THE COURT: Plaintiffs' Trial Exhibit 2563 is
14 admitted.

15 (Plaintiff's Exhibit Number 2563 was admitted into
16 evidence.)

17 MR. BOIES: I now offer Plaintiffs' Trial
18 Exhibit 2540 for the limited purpose of illustrating the
19 witness' testimony and what he relied on.

20 MR. DINTZER: No objection under 703, Your Honor.

21 THE COURT: Plaintiffs' Trial Exhibit 2540 is
22 admitted for the stated purpose.

23 (Plaintiff's Exhibit Number 2540 was admitted into
24 evidence.)

25 MR. BOIES: And I would offer Plaintiffs' Trial

1 Exhibit 2564 generally.

2 MR. DINTZER: No objection, Your Honor.

3 THE COURT: Plaintiffs' Trial Exhibit 2564 is
4 admitted.

5 (Plaintiff's Exhibit Number 2564 was admitted into
6 evidence.)

7 MR. BOIES: I would offer Plaintiffs' Trial
8 Exhibit 2572.

9 MR. DINTZER: No objection, Your Honor.

10 THE COURT: Plaintiffs' Trial Exhibit 2572 is
11 admitted.

12 (Plaintiff's Exhibit Number 2572 was admitted into
13 evidence.)

14 MR. BOIES: I would offer 25 -- Plaintiffs'
15 Exhibit 2565. And since this is -- this comes from the
16 government, I would offer this generally.

17 MR. DINTZER: Your Honor, I don't see a Bates
18 number, so I can't -- if counsel will represent its
19 origin, that would assist.

20 MR. BOIES: I believe it's a printout -- it comes
21 I am told from the Federal Reserve Web site. However, we
22 can set this aside until the break if you'd like.

23 MR. DINTZER: We'd appreciate that because there's
24 no timing or any other information to identify it, so,
25 Your Honor, if we could reserve on that one.

1 THE COURT: We'll hold that one in reserve.

2 MR. BOIES: I would offer Plaintiffs' Trial
3 Exhibit 2726 for the limited purpose of illustrating what
4 the witness relied on.

5 MR. DINTZER: Your Honor, can we get a
6 representation from counsel of what it is? I'm not sure
7 I understand what it is.

8 MR. BOIES: This is, as I understand it, a summary
9 of the terms of the financial assistance for
10 Bank of America, but I can -- maybe I'll just ask the
11 witness to turn to Plaintiffs' Trial Exhibit 2726, which
12 is in your big binder.

13 THE WITNESS: Yes.

14 BY MR. BOIES:

15 Q. Is this a document that you considered in
16 connection with your work?

17 A. Yes.

18 Q. And can you explain what it is.

19 A. This is a description of the B of A guarantee.

20 MR. BOIES: Your Honor, I would offer it on that
21 basis as evidence of what the witness relied on.

22 MR. DINTZER: I have no objection under 703,
23 Your Honor.

24 THE COURT: Plaintiffs' Trial Exhibit 2726 is
25 admitted for the stated purpose.

1 (Plaintiff's Exhibit Number 2726 was admitted into
2 evidence.)

3 MR. BOIES: And I would offer Plaintiffs' Trial
4 Exhibit 2735 for the same purpose.

5 MR. DINTZER: No objection, Your Honor.

6 THE COURT: Plaintiffs' Trial Exhibit 2735 is
7 admitted for the stated purpose.

8 (Plaintiff's Exhibit Number 2735 was admitted into
9 evidence.)

10 MR. BOIES: I would offer Plaintiffs' Trial
11 Exhibit 2814 generally since it is a Board of Governors
12 document.

13 MR. DINTZER: Your Honor, this isn't on our
14 exhibit list, unless I'm mistaken.

15 MR. BOIES: This is I think one of the doomsday
16 memos, Your Honor. I can confirm that at the break. But
17 I think this was simply produced to us in the course of
18 the trial.

19 MR. DINTZER: I apologize, Counsel.

20 We can confirm what counsel is saying, so I
21 withdraw my objection, Your Honor. I understand it is
22 actually part of the Domsday Book. Oh, it's already
23 admitted.

24 THE COURT: There you go.

25 MR. DINTZER: I have no objection.

1 MR. BOIES: Your Honor, that completes my exhibits
2 at this time.

3 Now, I am told that there are some demonstrative
4 exhibits that I did not use with the witness and --

5 THE COURT: Maybe we can take a well-deserved
6 break.

7 MR. BOIES: Yes, Your Honor, let's do that.

8 THE COURT: We'll reconvene at 3:45.

9 (Court in recess.)

10 THE COURT: Let's go ahead.

11 MR. BOIES: Thank you, Your Honor.

12 BY MR. BOIES:

13 Q. Dr. Cragg, I want to just ask you briefly some
14 questions about a handful of your exhibits that I did not
15 directly cover with you, although we covered some of the
16 aspects of them.

17 Would you turn to Plaintiffs' Trial Exhibit 5331.
18 This is in your --

19 A. Oh, the big book?

20 Q. -- binder of demonstrative exhibits.

21 A. Oh. I was going to call this the Doomsday Book.

22 Q. The big one. No. This is the smaller one.

23 A. All right. Yes.

24 Q. Is this a chart that you prepared?

25 A. It is, yes.

1 Q. And what is the significance of the material
2 that's set forth here?

3 A. So this is a -- in the September time period, the
4 SEC had put out a short selling ban. In particular, the
5 reason was -- I guess there was something like
6 900 institutions on the list that they had halted short
7 selling on. And the reason was because of the fragility
8 of the financial system at that point.

9 They say, "Financial institutions are
10 particularly vulnerable to this crisis of confidence and
11 panic selling because they depend on the confidence of
12 their trading counterparties in the conduct of their core
13 business."

14 And so it's a -- I think it's a clear statement
15 about where the market was in September, and it also is a
16 synthesis of the downward spiral that I've talked about
17 where you have fire sale prices, you know -- you know, I
18 should say collateral calls leading to fire sale prices
19 leading to more collateral calls, and so on. That cycle
20 is one of the hardest to stop in a panic, and that's what
21 had started back at the beginning of the year and that
22 the government was struggling to bring to -- bring to a
23 close.

24 Q. At the end of the first sentence in what you have
25 quoted, the SEC refers to "sudden price declines in the

1 securities of financial institutions unrelated to true
2 pricing valuation."

3 Do you see that?

4 A. Yes.

5 Q. And what significance, if any, does that have to
6 your analysis?

7 A. Well, this is -- well, on September 23,
8 Mr. Bernanke testified in front of Congress about how two
9 prices had emerged in the -- during the financial
10 crisis. There are true prices and then there are fire
11 sale prices. There are true prices that reflect the
12 intrinsic value, and then there are prices that reflect
13 panic.

14 And this is an example of how the SEC is
15 articulating that process. And in particular, if you
16 look at, for instance, AIG's stock price during this
17 period, it was very much that uncoupling of intrinsic
18 value from panic pricing.

19 Q. Let me ask you to turn to Plaintiffs' Trial
20 Exhibit 5340.

21 Is this a document you prepared?

22 A. Yes, it is.

23 Q. And I think you covered this to some extent
24 previously, but just very briefly, what is the
25 significance of what is identified here?

1 A. Well, during the trial, as well as in the other
2 documents, it's not only I who have spoken about how AIG,
3 you know, could have, you know, potentially raised
4 capital during the buildup period, you know, in the
5 absence of a Lehman failure, but there's -- there's
6 plenty of evidence in the record around that. And these
7 are statements by Mr. Baxter and Mr. Alvarez that relate
8 to, you know, the likelihood of AIG being able to raise
9 capital in the private sector until Lehman failed.

10 Q. Let me ask you to look at Plaintiffs' Trial
11 Exhibit 5363.

12 Is this a document you prepared?

13 A. Yes.

14 Q. And am I correct that this represents the total
15 amount outstanding at various points in time of a
16 combination of borrowings through the revolving credit
17 facility and TARP funding?

18 A. That's correct.

19 So this represents how that borrowing -- how there
20 was, you know, essentially a debt-for-equity swap in
21 November as well as March where the underlying amount of
22 borrowing didn't really change, although in
23 December 2009, at that stage the RCF is paid down with
24 the government's ownership in AIA and ALICO.

25 Q. Let me ask you to look next at Plaintiffs' Trial

1 Exhibit 5374.

2 Is that a document you prepared?

3 A. Yes.

4 Q. And what is the significance, if any, of the
5 evidence that you set forth here?

6 A. Well, this I think is a critical piece of
7 evidence -- or all of these are.

8 It's -- from an economic matter, as an economic
9 analyst, it's important to know that an AIG bankruptcy
10 was not an option for the government. And you know, all
11 of the key decision makers have said that during the,
12 you know, the course of the trial, and it's -- it's a
13 very important piece of information to an economic
14 analysis of how things played out over the course of
15 September.

16 Q. Let me ask you to look at Plaintiffs' Trial
17 Exhibit 5377.

18 Is this a document that you prepared?

19 A. Yes, it is.

20 Q. And what significance, if any, does the material
21 set forth here have to your analysis as to what an
22 appropriate approach is for a central bank in a time of
23 crisis?

24 A. Well, in Mr. Geithner's book, he had or has --
25 you know, he spoke about what he called moral hazard

1 fundamentalists. And he was talking about those in a
2 way -- talking about them in a way where he's recognizing
3 that at this point in time it's -- it's not a sensible
4 approach.

5 Q. Let me ask you to --

6 A. And the reason for that is I think
7 well-articulated in the end here, is that it damages
8 confidence and has the impact of accelerating the
9 downward spiral.

10 Q. Let me ask you to look next at Plaintiffs' Trial
11 Exhibit 5380.

12 And this also deals with a subject that we touched
13 on, but I don't think specifically with respect to this
14 exhibit.

15 And can you briefly just explain what the
16 significance is of the material that you set forth here.

17 A. Well, this is, you know, a series of statements
18 that relate to the explanation or I would say the
19 attempted explanation that AIG shareholders experienced a
20 windfall -- would have experienced a windfall without the
21 punitive terms. And you know, there are a number of
22 reasons why that's I think a false perception.

23 One is, you know, there -- you know, what happened
24 with AIG is really the impact of the worldwide liquidity
25 crisis. And the -- not -- providing AIG with liquidity

1 support was a way of mitigating the negative externality
2 that's caused by the worldwide liquidity support, and so
3 it's a -- it's very important to understand what the role
4 of lender of last resort is and how it confers benefits
5 during a panic.

6 MR. BOIES: Your Honor, I pass the witness.

7 THE COURT: All right. Very well.

8 Mr. Dintzer, cross-examination.

9 (Pause in the proceedings.)

10 MR. MIZOGUCHI: Your Honor, yesterday afternoon we
11 talked about that exhibit matter, and you asked us to
12 supply a substitute for JX 64?

13 THE COURT: Yes.

14 MR. MIZOGUCHI: And if the Court would prefer, I
15 can do that now.

16 THE COURT: That's fine.

17 MR. MIZOGUCHI: And we've provided copies to
18 plaintiffs' counsel this morning, so they've seen this.

19 THE COURT: Excellent.

20 MR. MIZOGUCHI: If I may approach?

21 THE COURT: Yes.

22 MR. MIZOGUCHI: The first document, we took
23 DX 425, which was admitted into evidence yesterday --
24 that was the unredacted copy of the term sheet -- and
25 restickered it as JX 64-A.

1 THE COURT: Very well.

2 MR. MIZOGUCHI: It has a different Bates number
3 than the original 64 because we took DX 425 and
4 restickered it.

5 THE COURT: Okay.

6 MR. MIZOGUCHI: And I'll hand up a copy of each.

7 THE COURT: That will be great. Thank you.

8 MR. DINTZER: May it please the Court.

9 THE COURT: Yes. You may go ahead.

10 MR. DINTZER: Thank you, Your Honor.

11 - - - - -

12 CROSS-EXAMINATION

13 BY MR. DINTZER:

14 Q. Good afternoon, Mr. Cragg.

15 A. Good afternoon.

16 Q. Now, the Board of Governors operates by a vote; is
17 that right?

18 A. Yes.

19 Q. And different members can have different
20 justifications for why they vote in any way.

21 A. Yes.

22 Q. And that can be true even if they vote for the
23 same thing, they could do it for different reasons.

24 A. Yes.

25 Q. When the Federal Reserve System was created, its

1 most important role was intended to be the lender of last
2 resort to banks.

3 A. It was certainly one of the core reasons it was
4 created, but overarching was the importance of banks to
5 the economic system and as a way of ensuring their
6 stability to create broad economic stability.

7 Q. Its most important role was intended to be as the
8 lender of last resort to banks when it was initially
9 created, sir.

10 A. That's how -- one of the core conceptions, yes.

11 Q. And it was created to prevent bank failures from
12 spinning out of control.

13 A. That was one of its roles.

14 Q. And in 2008, the largest portion of AIG's business
15 was insurance.

16 A. Yes.

17 Q. In 2008, 75 percent of AIG's pre-crisis operating
18 income came from its insurance business. That was its
19 core business.

20 A. I believe that's right.

21 Q. AIG has either unwound or plans to unwind its
22 Financial Products division, and maybe you know that
23 now.

24 A. Sir, I don't -- what time period is the question?

25 Q. Presently.

1 Is the Financial Products division unwound or is
2 it in the process of --

3 A. I believe it's in the process still of being
4 unwound.

5 Q. But AIG itself as an entity can exist without a
6 Financial Products division.

7 A. Yes.

8 Q. Because AIG was an insurance company, it was not
9 regulated or supervised by the Federal Reserve.

10 In 2008 and be- --

11 A. No. I think it's not regulated by the
12 Federal Reserve because it didn't have the types of
13 institutions associated with it which would be regulated
14 by the Federal Reserve.

15 So, for instance, it was regulated by the OTS.

16 Q. But not the Federal Reserve.

17 A. Exactly.

18 Q. Now, you talked about the Federal Reserve's role
19 as lender of last resort.

20 Most of the Federal Reserve Act is focused on the
21 regulation and supervision of banks; is that right?

22 A. I'll take your representation. I mean, you can do
23 the page counts.

24 Q. Okay. But 13(3) is the primary statute for
25 extending lender of last resort lending to institutions

1 that the rest of the Federal Reserve Act doesn't cover.

2 A. Yes.

3 Q. And that can come into play either when the
4 Federal Reserve assists an individual company or with a
5 more broad-based facility.

6 A. Yes.

7 Q. Now, we've talked about moral hazard a number of
8 times, and moral hazard is the idea that when people are
9 insured against the consequences of a risk, they will
10 engage in riskier behavior.

11 A. That, I'll accept your definition of that.

12 Q. And with moral hazard, the problem with moral
13 hazard is that the possibility that managers of
14 financial firms might make riskier investments if they
15 believe that the federal government will save them from
16 bankruptcy.

17 A. That's certainly one version of moral hazard.

18 Q. When the Federal Reserve considers using 13(3) or
19 the discount window to prevent a panic, it needs to
20 consider the trade-off between the moral hazard costs of
21 its role as lender of last resort and the benefit of
22 preventing the financial panic. There's a balance, a
23 trade-off.

24 A. I'm not -- I wouldn't articulate the
25 decision-making that way. But if it's helpful for us to

1 keep continuing your questions that way, we can.

2 Q. Well, I -- if you disagree, I'd be happy to show
3 you something to see if I can get your agreement with.

4 A. Okay.

5 Q. But do you agree that there's a trade-off between
6 the potential moral hazard costs and -- when it acts as
7 lender of last resort and the benefit of trying to
8 present a -- prevent a panic?

9 A. I think the benefit of preventing a panic far
10 outweighs the considerations of moral hazard during a
11 panic --

12 Q. Categorically.

13 A. -- in that you should be concerned about moral
14 hazard and the consequences, you know, either before and
15 set up rules that are clear or afterwards to deal with
16 the unexpected consequences that come out of a panic.

17 Q. Sir, are you familiar with a gentleman named
18 Frederic Mishkin?

19 A. Yes.

20 Q. And he has a textbook?

21 A. He does have a textbook.

22 Q. And I believe in your deposition you suggested it
23 is one that you found authoritative.

24 A. Yes.

25 MR. DINTZER: Okay.

1 May I approach, Your Honor?

2 THE COURT: Yes.

3 BY MR. DINTZER:

4 Q. And we have the whole textbook, sir, if you'd like
5 to see it, but I'm going to direct you to page 368.

6 A. Yes.

7 Q. And if you go to the second paragraph there, the
8 paragraph that begins "Similarly"?

9 A. Yes.

10 Q. "Similarly, Federal Reserve actions to prevent
11 financial panic may encourage financial institutions
12 other than banks to take on greater risk. They, too,
13 expect the Fed to ensure that they could get loans if
14 their failure would cause or worsen a financial panic."

15 Do you see that?

16 A. I do.

17 Q. "When the Fed considers using the discount weapon
18 to prevent panics, it therefore needs to consider the
19 trade-off between the moral hazard cost of its role as
20 lender of last resort and the benefit of preventing
21 financial panics."

22 A. Yes.

23 Q. Do you see that?

24 A. I do.

25 Q. And do you agree with that?

Starr International Company, Inc. v. USA

1 A. We just discussed, you know, the trade-off. I
2 made the trade-off, and I don't see any -- any
3 disagreement between Rick and I.

4 Q. Well, the next sentence says, "This trade-off
5 explains why the Fed must be careful not to perform its
6 function as lender of last resort too frequently."

7 A. Yes, I see that.

8 Q. Do you agree with that?

9 A. I think it's not a -- I think it's a sensible
10 observation.

11 Q. Yes or no, sir, do you agree with it?

12 A. Well, it's not -- it's not a yes-or-no-type
13 question because it talks about frequency, and so I'm
14 trying to give a definition of what I mean by answering
15 it yes or no since "frequently" is critical to the
16 answer.

17 Q. Okay. So I'm going to ask you for a yes, no, or I
18 don't know, and then you're welcome to explain your
19 answer.

20 Yes, no or I don't know, do you agree with the
21 sentence "This trade-off explains why the Fed must be
22 careful not to perform its function as lender of last
23 resort too frequently"?

24 A. I can either answer yes or no and explain why.
25 It's not a -- "I don't know" isn't the third alternative.

1 There's a fourth alternative, which is yes and no.

2 Q. Reasonable people can differ.

3 A. Absolutely.

4 Q. Okay. No further questions on that document,
5 sir.

6 Now, a 13(3) loan to AIG in September of 2008 had
7 the risk of creating moral hazard; true?

8 A. You'll have to be more specific about what you --
9 what you have in mind there.

10 Q. When the Federal Reserve considered the
11 possibility of making a loan to AIG in September 2008, it
12 understood that there was a risk of creating moral
13 hazard, yes or no, sir?

14 A. I think that question isn't well-posed until you
15 explain what type of moral hazard you have in mind.

16 Q. So you don't understand the question.

17 A. I can't answer that broad a question yes or no.

18 Q. Okay. Now, you discussed the Bagehot principle.

19 The interpretations of Bagehot have varied over
20 the last 130 years since he wrote his document; is that
21 right?

22 A. Yes.

23 Q. If you read Bagehot literally, you have to lend to
24 everyone, that -- this man and that man.

25 A. Yes.

1 Q. The Federal Reserve's lender of last resort
2 actions in the 1970s, 1980s, they can be read to have
3 been moving away from some of Bagehot's strictures.

4 A. In the breadth of the strictures that you just
5 described, I think that's true.

6 Q. So basically the lend -- the Fed in the '70s
7 and '80s didn't read Bagehot literally.

8 A. No.

9 Q. Okay. In fact --

10 A. In the regard that they don't literally lend to
11 every illiquid but solvent institution.

12 Q. They've never done that.

13 A. I'm not sure they've never done that, but in the
14 period in the post-'60s that's true.

15 Q. Central bankers have taken -- at least in the past
16 30 years, have taken a narrower view on what the lender
17 of last resort role is than Bagehot did.

18 A. In the very broad way you've described it, that's
19 true.

20 Q. Generally, the economics profession has rejected
21 the breadth of lending proposed by Bagehot.

22 A. I don't think that's true.

23 Q. Okay. Do you have your deposition up there?

24 It should be the smaller binder.

25 A. It says -- the larger one says "deposition

1 transcript."

2 Q. Okay. That's fine then.

3 A. Okay.

4 Q. And if you could go to page 155, sir.

5 And you're welcome to read -- your answer runs
6 just a bit long. You're welcome to read the whole thing.

7 The question on page 155 is: "Does Bagehot speak
8 to whether a central bank should provide funding to the
9 small businesses and the homeowners, or is Bagehot really
10 talking about financial institutions?"

11 Do you see that?

12 A. I do.

13 Q. And just -- you're welcome to read it all. The
14 part I'm going to draw your attention to is the third
15 paragraph, where it says -- where you say, "So he had a
16 very broad view of what that could be. Generally, the
17 economics profession, as well as central bankers, have
18 taken a narrower view on what the lender of last resort's
19 role is."

20 Do you see that?

21 A. I do, yes.

22 Q. And when you were saying that, you were saying in
23 comparison to Bagehot himself; correct?

24 A. Yes.

25 Q. Okay. And that was an accurate statement when you

1 made it; isn't that right, sir?

2 A. Yes.

3 Q. Okay. And so generally, the economics profession,
4 as well as central bankers, have taken a narrower view of
5 what the lender of last resort's role is than Mr. Bagehot
6 did.

7 A. Yes. That's how I explain it here.

8 Q. And now, the lender of last resort function is
9 designed to reduce market disruption.

10 A. Well, yeah, to deal with panic.

11 Q. There's no categorical answer as to whether a
12 lender of last resort has to wait until there is no loan
13 available from the private sector; is that right, under
14 13(3)?

15 A. I think that's right.

16 Q. There are also differences of opinion as well as
17 practice as to when it most behooves the lender of last
18 resort to act.

19 A. Yes.

20 Q. Because there are differences of opinion about how
21 the lender of last resort function is implemented, those
22 decisions are resolved by policy decisions; is that
23 right?

24 A. Well, ultimately, the -- a decision has to be made
25 that's a policy decision based upon, as we discussed

1 earlier, in the example of 13(3), it's based upon the
2 governors' vote.

3 Q. You cite a gentleman named Humphrey in your
4 report?

5 A. Yes.

6 Q. He wrote an article.

7 A. Yes, he did. He wrote several.

8 Q. What?

9 A. He wrote several that I cited.

10 Q. Several.

11 And you cite that as giving a succinct statement
12 of the -- of Mr. Bagehot's concept of the lender of last
13 resort.

14 A. Yes.

15 Q. And you read the article.

16 A. I did.

17 Q. And you found Mr. Humphrey to be an informed,
18 thoughtful commentator.

19 A. Yes.

20 MR. DINTZER: May I approach, Your Honor.

21 THE COURT: Yes.

22 MR. DINTZER: And this is DX 2201.

23 BY MR. DINTZER:

24 Q. And this is Mr. Humphrey's article; is that
25 right?

1 A. Yes.

2 Q. Lender of Last Resort: The Concept in History; is
3 that right?

4 A. Yes.

5 Q. And if we could go -- now, the pages are numbered
6 beginning with page 8, so if you could go -- starting on
7 what is the first page of the document but the numbered
8 page 8.

9 And he -- and he identifies sort of the origin of
10 the concept of lender of last resort actually to someone
11 named Thornton who preceded -- Henry Thornton, who
12 actually preceded Mr. Bagehot.

13 A. Yes.

14 Q. And so we're actually going farther back in time
15 to almost the beginning of the 19th century; is that
16 right?

17 It says 1802.

18 A. Yeah. I was going to say, we're back in the 18th
19 century.

20 Q. 18th century.

21 And if we can go to page 10 of this document,
22 numbered page 10?

23 A. Yes.

24 Q. And so Mr. Humphrey writes "Macro versus Micro
25 Responsibilities." He writes, "The second issue

1 considered by Thornton concerns the extent of the lender
2 of last resort's responsibility to individual banks as
3 opposed to the banking system as a whole. Suppose these
4 individual banks are unsound. Must the lender of last
5 resort act to prevent their failure; that is, are
6 bailout operations necessary to preserve the stability of
7 the payments mechanism? Thornton answered in the
8 negative."

9 Do you see that?

10 A. Yes.

11 Q. And so the point here is that the debate about
12 assisting individual banks actually goes back all the
13 way -- or individual institutions, but especially banks
14 he cited, goes all the way back to 1802.

15 A. That's what the article -- one of the objectives
16 of the article is to lay out some of the history here,
17 yes.

18 Q. And so that's a distinction, individual banks
19 versus the system, that he identifies dating all the way
20 back to 1802.

21 A. Yes.

22 Q. And so still on that page, the next thing that
23 he's doing, apparently he's quoting Mr. Thornton from all
24 the way back in the 1800s.

25 "It is by no means intended to imply, that it

1 would become the Bank of England to relieve every
2 distress which the rashness of country banks may bring
3 upon them; the bank, by doing this, might encourage their
4 improvidence."

5 Do you see that?

6 A. Yes.

7 Q. And he's talking about moral hazard basically. By
8 bailing each one of them out, it might encourage them to
9 act improvidently.

10 A. I'm not sure whether he's -- yeah, you know,
11 you're right. I missed the words "might encourage their
12 improvidence," so yes, I agree.

13 Q. Okay. And then -- and then if you go farther down
14 to the next nonquoting point, he writes, "Thornton made
15 four key points in this passage. First, the lender of
16 last resort's primary responsibility is to the market
17 ('the general interests') and not to the individual
18 bank."

19 Do you see that?

20 A. Yes.

21 Q. And so do you agree with that, with Mr. Humphrey's
22 analysis?

23 A. Yes. I do think that's the primary objective. I
24 think from a social welfare perspective, the government
25 or lender of last resort eliminating negative

1 externalities where it can is a good thing.

2 Q. The next sentence says, "The central bank has no
3 duty to sustain particular institutions."

4 Do you see that?

5 A. Yes.

6 Q. And do you agree with Mr. Humphrey on that point?

7 A. I would have to explore to a greater extent what
8 exactly he means. I can imagine us coming to consensus
9 on one version of this versus another.

10 Q. So reasonable scholars can differ agree --
11 disagree with whether the central bank has a duty to
12 sustain particular institutions.

13 A. Yes, they can.

14 Q. Next he says the lender of last resort must take
15 into account the moral hazard problem.

16 Do you see that?

17 A. I do.

18 Q. And you agree that the lender of last resort must
19 take into account whether moral hazard is created when it
20 assists particular institutions.

21 A. I think he's making a more general statement than
22 what you just made. I think the statement Mr. Humphrey
23 makes is the right one, "the lender of last resort must
24 take account of the moral hazard problem."

25 Q. Right.

1 And the sentence right before it is the central
2 bank has to sustain -- has a duty -- well, fine. I'll
3 take your answer at that, sir.

4 If we could go to the next page, where he
5 writes -- at the very top, he writes, "His third point."

6 Do you see that?

7 "His third point, however, was that even in this
8 later case, aid should be extended sparingly and on
9 relatively unfavorable terms."

10 Do you see that?

11 A. Yes.

12 Q. Do you agree with Mr. Humphrey on that point?

13 A. I'm not sure what he meant by "sparingly" here or
14 by "relatively unfavorable terms." My own view, which I
15 think is shared by many, is that in extending aid, the
16 objective is to calm panic, and so how you do that will
17 vary by circumstance. The general understanding of what
18 unfavorable terms are is the penalty rate, which we've
19 heard one might say ad nauseam at this stage.

20 Q. So let me just confirm, sir.

21 When he writes, however -- "His third point,
22 however, was that even in this later case, aid should be
23 extended sparingly and on relatively unfavorable terms,"
24 scholars can disagree about when a central bank should
25 extend aid and on what terms.

1 A. Of course.

2 Q. Okay. And then if we go back up, just -- and it
3 starts just -- because it addresses something you just
4 said, at the very last sentence that begins on
5 page 10 and carries over, he writes, "In short,
6 individual imprudence should be punished by losses. Only
7 if the financial repercussions of such punishment
8 threaten to become widespread should the lender of last
9 resort intervene."

10 Do you see that?

11 A. I do.

12 Q. And so basically individual institutions should
13 be punished by their own losses without the intervention
14 of the central bank unless it becomes necessary;
15 correct?

16 A. No. I think you've completely misread the
17 paragraph because you have to look further up.

18 "Thornton's solution to this problem was to advise
19 against bailout operations for banks whose distress
20 arises from 'rashness,' 'improvidence,' or 'misconduct.'
21 By subsidizing the risk-bearing function of poorly
22 managed banks, such rescue operations, he asserts, would
23 encourage other banks to take excessive speculative risks
24 without fear of the consequences."

25 So he clearly has in mind the need to observe and

1 supervise as part of the function of the lender of last
2 resort, because otherwise, as I think anybody would note,
3 moral hazard becomes a problem. You can't tell
4 responsible banks from bad banks, bad being ones that
5 have engaged in rash misconduct.

6 So it's -- for a lender of last resort's function
7 to be able to avoid moral hazard, the lender of last
8 resort has to supervise; otherwise, it will be making
9 mistakes in not being able to quell the economic
10 circumstances that lead to panic.

11 Q. Okay, sir. No further questions on that
12 document.

13 May I approach, Your Honor?

14 THE COURT: Yes.

15 MR. DINTZER: This is DX 2202.

16 THE WITNESS: Thank you.

17 BY MR. DINTZER:

18 Q. Sir, this one is titled Lender of Last Resort:
19 What It Is, Whence It Came, and Why the Fed Isn't It.

20 Do you see that?

21 A. Yes.

22 Q. Have you read this article?

23 A. I have.

24 Q. And I'm not going to take you through the whole
25 article, but I am going to take you to page 358.

1 A. Yes.

2 Q. And if you look at that page, it's number 3 on
3 that page.

4 Do you see that?

5 A. I do.

6 Q. It says "Charging Subsidy Rates."

7 Do you see that?

8 A. Yes.

9 Q. And he writes, "Third, the Fed has deviated from
10 Bagehot's instructions to charge high, that is,
11 above-market, or penalty, interest rates. Quite to the
12 contrary, it has accommodated AIG and other borrowers at
13 below-market, or subsidy, rates. It charged AIG rates of
14 8.5 to 12 percent at a time when junk bonds, equivalent
15 in quality to the near-bankrupt AIG's assets, were
16 yielding in excess of 17 percent."

17 Do you see that?

18 A. Yes.

19 Q. Okay. So he thinks that the AIG rates should have
20 been higher.

21 A. That's what he thinks, yes.

22 Q. And obviously, from what I gather from your
23 testimony -- you can surprise me here -- but you
24 disagree.

25 A. Yes. And I've confirmed that in our previous

1 conversation, so I don't want to surprise you again.

2 Q. Okay. Reasonable scholars can disagree about what
3 the proper rate was to charge AIG.

4 A. I think an informed scholar wouldn't. But I
5 imagine circumstances where there could be disagreement.

6 Q. Well, Mr. Humphrey is somebody that you cited and
7 that you agreed with me earlier was an informed
8 individual, and he's disagreeing with you, so can we say
9 that informed individuals, scholars, can disagree about
10 the penalty rate that AIG should have been charged?

11 A. I think I probably misspoke when I said
12 "informed." Informed about AIG's circumstances.

13 Q. Okay.

14 A. I don't think when he makes this, these
15 statements, that I'd be surprised if he actually knew
16 from the popular press what AIG's circumstances actually
17 were.

18 Q. Well, he calls AIG near-bankrupt.

19 Was that accurate?

20 A. Yes.

21 Q. Okay. So assuming --

22 A. Sorry.

23 Q. Let's --

24 A. He actually says "near-bankrupt AIG's assets,"
25 which that actually isn't true. It's the parent company

1 that was liquidity-constrained, and as a result, the
2 potential was that that liquidity squeeze might have led
3 it to -- led the parent to run out of cash.

4 Q. Sir, my only point is this. Mr. Humphrey, who
5 yourself cite and rely on in your report for some of his
6 articles, has identified that he believed a higher rate
7 for AIG would have been appropriate; is that correct?

8 A. That's what he says. Yes.

9 Q. Okay. No further questions on that document,
10 sir.

11 Now, the 13(3) requires a finding of unusual and
12 exigent circumstances; is that correct?

13 A. Yes.

14 Q. And an inability to secure adequate credit?

15 A. Yes.

16 Q. And an inability -- and the -- and the
17 requirement that the borrower is unable to secure
18 adequate credit gives the Fed a lot of room for
19 interpretation.

20 A. Yes.

21 Q. And 13(3) doesn't specify under what
22 circumstances the lending authority will be used.

23 A. Well, it says in unusual and exigent
24 circumstances.

25 Q. If the minimum requirements of 13(3) are met,

1 13(3) does not say that lending has to take place. Do
2 you agree?

3 A. Right. That's correct.

4 Q. And that's for the Federal Reserve to determine.

5 A. Yes.

6 Q. And Congress relied on the Federal Reserve to make
7 that determination, in fact, thought they required a
8 five-governor vote to make that determination.

9 A. Yes.

10 Q. The Federal Reserve's resources are not infinite.

11 A. That's correct.

12 Q. Every dollar lent to one borrower is a dollar that
13 can't be lent to another.

14 A. That's not quite true.

15 Q. Okay. If I could get you to look at your report,
16 your initial report, at section 190.

17 Okay. And you're welcome to read the entire
18 paragraph of 190. I'm just reading the quote that you
19 quote in your report.

20 "Every dollar that the Fed lends to AIG is a
21 dollar that cannot be used for other purposes: the Fed's
22 balance sheet constraints might be binding at some
23 point."

24 Do you see that?

25 A. Yes. That's what the memorandum said.

1 Q. And you cited it because you agree with it.

2 A. I think it's making a point which is consistent
3 with what I said, that there is a constraint to how much
4 the Fed can lend, and so there is a trade-off between --
5 or there can be a trade-off, depending on the
6 circumstances, of, you know, lending to one borrower
7 versus another.

8 Q. So every --

9 A. But what I was originally disagreeing with was
10 your initial characterization.

11 Q. Sir, I just want to make sure that we're on the
12 same page.

13 The -- every dollar that the Federal Reserve lends
14 to one borrower is a dollar cannot be lent, used for some
15 other purpose, yes or no?

16 A. And I said that's not necessarily true.

17 Q. Okay. You cite -- but you recognize you quoted
18 that in your report.

19 A. Yes.

20 Q. Okay.

21 A. Okay.

22 Q. No further questions on that, sir.

23 The Fed has discretion as to how they execute the
24 mandates of the FRA.

25 A. Yes.

1 Q. 13(3) gives the Fed the discretion to act. It's a
2 choice as to when it's -- it's its choice as to when it's
3 going to use that ability.

4 A. Yes. I mean, it provides guidance. You know,
5 there's -- on how to do that and when to do that. But
6 ultimately, there's a decision that has to be made.

7 Q. And those are policy decisions ultimately.

8 A. Policymakers make those decisions, yes.

9 Q. It's okay for the Fed to treat different borrowers
10 differently based on their financial status.

11 A. Yes.

12 Q. No financial institution was entitled to a loan
13 under 13(3).

14 A. When you say -- sorry. Can you repeat that?

15 Q. Sure.

16 No financial institution was entitled to a loan
17 under 13(3).

18 A. I don't think that's true.

19 Q. AIG was not entitled to a loan under 13(3).

20 A. That's not true either.

21 Q. Okay. Do you know who Chester Spatt is?

22 A. Yes.

23 Q. Who?

24 A. He's an economist. If I remember correctly, I
25 think he's at Carnegie-Mellon University. He used to be

1 I believe chief economist at the SEC.

2 Q. Was he deposed in this case?

3 A. Yes.

4 Q. And you read his deposition.

5 A. I quickly read it. Yes.

6 Q. And you read his deposition so you would be
7 prepared to answer the same questions in your
8 deposition.

9 A. Yeah. As he was deposed before I was and I was
10 curious about the types of questions which were being
11 posed, I wanted to be prepared to be able to answer
12 them.

13 MR. DINTZER: We might have to jump back to this
14 one, Your Honor.

15 Well, hang on.

16 No? Okay.

17 THE WITNESS: You know, the problem is it's in a
18 white binder.

19 BY MR. DINTZER:

20 Q. I haven't asked, if it was intentional that some
21 are white and some are black (indicating).

22 Riskier borrowers pay higher interest rates than
23 safer borrowers in order to persuade lenders to accept
24 the higher risk of default.

25 A. That's generally true.

1 Q. The more risk in the loan to AIG, however much
2 that was, the higher the compensation they should have
3 expected to pay.

4 A. No.

5 Q. So regardless of the risk in the AIG loan, AIG
6 shouldn't have -- it shouldn't have affected the amount
7 AIG expected to pay.

8 A. You're talking about the RCF that was fully
9 collateralized?

10 Q. Why don't we talk private first, sir.

11 If AIG had been -- managed to access the private
12 market, then the more risk that the private market
13 expected in AIG or saw in AIG, the more compensation AIG
14 should have been expected to pay; right?

15 A. As a general proposition, holding all else equal,
16 interest rates are higher for riskier borrowers.

17 Q. And so your opinion is that under the RC- -- under
18 a federal facility that AIG should have been charged
19 something less than a market rate.

20 A. Well, it should have been charged a rate that was
21 somewhat or slightly above what a market rate would be in
22 normal circumstances.

23 Q. So let's just --

24 A. So not like -- not at the time that the loan was
25 extended.

1 Q. So I can't remember. Did you pick a date when you
2 think that was sort of the last date it could have gotten
3 a private loan? I can't remember if you did or didn't.

4 A. I don't remember us having --

5 Q. It's not a trick question.

6 A. No. I don't remember us having that conversation,
7 so --

8 Q. Well, I meant with plaintiffs' counsel.

9 A. Oh.

10 Q. Do you have a date when you think sort of was the
11 last opportunity AIG had to get a private --

12 A. Well, I've identified that a run on AIG started
13 the week before the Lehman crisis. When you look at what
14 was happening with AIG's wholesale borrowing
15 opportunities, they were -- started to run it looks like
16 around September 11.

17 Q. Okay. But that's not really my question.

18 My question, sir, is, do you have an opinion --
19 and if you don't, that's fine -- do you have an opinion
20 as to when the last opportunity for AIG to get a private
21 loan, a private -- loan in the private sector existed?

22 A. Well, it was getting loans on the 10th.

23 Q. Oh, I see.

24 Do you have an opinion as to when AIG might have
25 been able to raise funds to cover its CDS collateral

1 payments, when it might have been able to secure
2 something akin to the RCF, in the private sector?

3 A. Well, that's kind of a circular question in the
4 sense that the RCF was necessary because there was a run
5 on AIG, so you want to put -- you're putting AIG in
6 the -- in the way you posed the question, you're putting
7 it in a circumstance where it -- private sector liquidity
8 isn't available to it.

9 Q. If AIG did not have access, as it didn't, to the
10 PDCF or any of the other facilities before
11 September 15 or September 16, if it didn't have those, as
12 it didn't, do you have an opinion as to when it might
13 have been able to secure \$20 billion worth of liquidity
14 on top of whatever it was getting from securities lending
15 and the tri-party repo market?

16 A. I haven't developed an opinion on that. I mean,
17 it raised that much money in the summer.

18 Q. Exactly.

19 It raised 20 billion in the summer, and it raised
20 3 billion in August; right?

21 A. Yes.

22 Q. And in both instances, it could have raised more;
23 isn't that right?

24 A. I don't know how much more it could have, but I
25 imagine it could have, yes.

1 Q. Do you know if AIG actually tried to raise private
2 money, separate from securities lending, tri-party repo,
3 when it tried to sort of raise a big chunk of money
4 before it ultimately turned to the Federal Reserve?

5 A. Sorry. Can you repeat that?

6 Q. Sure.

7 When was the last --

8 (Admonition from the court reporter.)

9 THE WITNESS: Maybe I'll understand it better
10 then.

11 BY MR. DINTZER:

12 Q. Do you know when the last time AIG tried to raise
13 money, outside of its securities lending and tri-party
14 repo efforts and commercial paper efforts, but tried to
15 raise a chunk of money, 10, 15, 20 billion dollars, to
16 help it with its liquidity problems, in the private
17 sector?

18 A. There's a fair amount of evidence in the record
19 that it was doing that, you know, in the range of the
20 11th, 12th, over the Lehman weekend.

21 Q. So the 11th, 12th -- so let's just use that as a
22 line.

23 If AIG had succeeded in raising that money that it
24 tried to do, that chunk of money on the 11th and 12th, it
25 would have had to pay a market rate; correct?

1 Whatever the --

2 A. It would have paid what it paid. Yes.

3 Q. Right. It would have had to pay a private market
4 rate.

5 Now, what you're supposing it should have been
6 charged, the rate you suggest that it should have been
7 charged, was what you called the normal rate; is that
8 right? Or -- I believe I heard you say the normal rate.
9 Is that right?

10 A. No. I said it should be, like everybody, charged
11 a penalty rate.

12 Q. Right.

13 And so -- and so my question is, if the penalty
14 rate is below the private market rate, should the Fed
15 try to raise the penalty rate up so that whoever the
16 borrower is doesn't get an advantage from coming to the
17 Fed as opposed to what it could get in the private
18 market?

19 A. That's the design of the penalty rate, is to be
20 somewhat higher than what a normal rate would prevail in
21 a normal market.

22 Q. And let's define normal --

23 A. So, for instance, it was, you know, the primary
24 rate set relative to the Fed funds rate. You know,
25 typically it's 50 basis points higher. At that point,

1 the Fed had lowered it to be 25 basis points higher than
2 the federal funds rate.

3 Q. And you used the term "normal rate," and I just
4 want to make sure -- I'm not sure if that's been
5 explained to the Court.

6 The normal rate is the rate that might have been
7 obtained had there not been a financial crisis; is that
8 right?

9 A. Yes.

10 Q. So -- and so my only question is this, sir, if the
11 penalty rate, you know, some amount above the federal
12 funds rate, if that's lower than they could have gotten
13 here, 11th and 12th in the private market, should the Fed
14 let them -- once they cross over this line so there's no
15 private funds available, should the Fed give them a rate,
16 a loan at this lower rate, or should the Fed try to mimic
17 what's available in the private market so that there's no
18 benefit to sort of jumping the line and not being able to
19 raise money in the private market?

20 A. Well, the Fed is trying to calm panic, and so in
21 the case of AIG, you know, lending at a rate which is
22 comparable to what others were borrowing at would be a
23 sensible policy at that stage.

24 Q. What others were borrowing at in the private
25 market; right?

1 A. No. We're talking about 13(3) facilities right
2 now.

3 Q. Okay. So your opinion is that if the -- if this
4 penalty rate, this certain amount above the federal funds
5 rate, if it's way lower than the private rate, that that
6 should be what AIG should get, that once it can no longer
7 borrow in the private market at this rate, it should get
8 this, this little bit above the federal funds rate;
9 right?

10 A. I guess I'm finding it hard to follow the
11 hypothetical because you're going from a circumstance
12 where AIG has the ability to borrow to one where it
13 doesn't as if during this period of time that's the way
14 the markets were functioning.

15 I mean, the reality is that every major financial
16 institution at this, you know, point in time is
17 scrambling to raise funds. AIG is, you know, relative to
18 the others who, you know, at least have access to,
19 you know, the broadened PDCF, and so on. It's a -- it's
20 very different circumstance than the one you're
21 describing here.

22 Q. And I understand that, sir. My question is --
23 really should be pretty straightforward.

24 Everybody who's not getting a 13(3) loan on the
25 10th, 11th -- we can go back as far as you want -- but

1 everybody who's not getting a 13(3) loan, which we can
2 agree is most of the United States; right? Most
3 homeowners, small businesses, they're not getting
4 13(3) loans; right?

5 A. Correct.

6 Q. Okay. So everybody else has to live in this
7 private market. However bad it gets, they have to live
8 over here (indicating). You'll agree with me.

9 A. Yes.

10 Q. Okay. And so the question is, is that once you
11 cross over here for -- and you get access to 13(3) for
12 whatever reason, should the Fed try to make the 13(3)
13 rate at least close to what all these other people are
14 facing, or should it be just a little bit above the
15 federal funds rate?

16 That's my question.

17 A. Yeah. In general, the comparisons I have made in
18 my analysis is the -- how extraordinary AIG's interest
19 rate was relative to all of the other 13(3) loans that
20 were charged.

21 Q. Right.

22 A. I haven't --

23 Q. You didn't look at this part about comparing them
24 to everybody else.

25 A. I was just going to finish, which I haven't

1 provided an opinion about what an alternative 13(3) rate
2 should be for AIG. I mean, I've just -- I've noted just
3 how extraordinary the rate that was chosen for AIG was.

4 Q. Right.

5 And you haven't figured out what the private rate
6 would have been for AIG before it crossed this line to
7 the point where it couldn't access the private market.
8 The last private rate available, you haven't done that,
9 that analysis.

10 A. I don't think we have that information available
11 to us.

12 Q. Okay.

13 And --

14 A. And the core issue for AIG was the liquidity that
15 it -- that it was facing a run on its wholesale lending
16 and that resolving what that run looked like required the
17 reestablishment of confidence in AIG, and so it's much
18 more about confidence than it is about the counterfactual
19 you're trying to describe here.

20 Q. Everybody else in America had to face exactly what
21 you're talking about without a 13(3) loan except for the
22 very -- PDCF with 17 people, a very, very small set of
23 financial firms, everybody else had to deal with exactly
24 what you're talking about; isn't that right, sir?

25 Most of America had to deal with the financial

1 crisis, however bad it was -- okay -- day to day, however
2 it was, without a 13(3) loan.

3 A. Yes.

4 Q. Okay. Now, you talked about the collateral
5 backing the RCF.

6 The primary collateral backing the RCF was the
7 equity in the subsidiaries; is that right?

8 A. Yes.

9 Q. The equity in AIG's insurance subsidiaries was not
10 traded on any market or exchange.

11 A. At that point, yes.

12 Q. At the time that the loan was made.

13 A. Right.

14 Q. The primary collateral backing the RCF and it --
15 well, let me try it this way.

16 The collateral used to secure the credit agreement
17 was illiquid.

18 A. At that point in time certainly.

19 Q. When the loan was made.

20 A. Yes.

21 Q. Meaning it couldn't be easily bought or sold.

22 A. Right. AIG's problem was one of liquidity. That
23 generally would apply to all of its assets. If it could
24 have simply sold off a few subsidiaries to deal with its
25 liquidity problem, we'd be talking about a different

1 financial crisis.

2 Q. Exactly.

3 And in fact, that was the big challenge. It took
4 years to sell those, those financial assets, because
5 they're big and you have to find the buyer to pay full --
6 you know, a reasonable price; right?

7 A. Yeah. Often coming out of a financial recovery
8 takes much longer than people expect.

9 Q. Not all of AIG's assets could be pledged for the
10 loan; is that right? The -- the -- the credit agreement.

11 A. You have to be more specific on what you have in
12 mind.

13 Q. Sure.

14 AIG had a number of assets that could not be
15 pledged.

16 Foreign unregulated subsidiaries couldn't be
17 pledged as part of the loan; is that right?

18 A. I'm sure there are limitations on what exactly
19 could be pledged.

20 Q. And I'll just read you -- it's a footnote in your
21 report, and if you disagree, I'd be happy to show it to
22 you.

23 "Foreign unregulated subsidiaries appear to have
24 been excluded in order to avoid adverse tax consequences
25 to AIG."

1 Does that sound familiar?

2 MR. BOIES: Can we have a citation?

3 MR. DINTZER: Sure. It's footnote 471.

4 THE WITNESS: I assume that you're reading it
5 properly.

6 BY MR. DINTZER:

7 Q. No, no. That's fine. I want to make sure. We
8 might as well just cross our Ts, so if you could go to
9 your report at page 273.

10 A. Yes, I'm at page 273, and it's footnote which?

11 Q. 471. Towards the bottom. It's a small point,
12 sir, but I just wanted to nail it down.

13 "Foreign unregulated subsidiaries appear to have
14 been excluded," do you see that?

15 A. Yes.

16 Q. Is it your understanding that not all of AIG's
17 assets was pledged for the credit agreement?

18 A. Yes. I'm -- I don't specifically remember this
19 document, but the fact that there could be adverse tax
20 consequences wouldn't in the least bit be atypical.

21 Q. Now, the value of collateral can change after a
22 loan is made against the collateral.

23 A. Yes.

24 Q. In a changing market, what was reliable
25 collateral one day can be unreliable or insufficient the

1 next day.

2 A. Yes. I'll give you an example.

3 Suppose that you're trying to enter into a short
4 position with your broker. He requires \$10.00 of
5 collateral to cover your position. If the stock price
6 rises that you've shorted rather than falls, he will ask
7 you to post more collateral, knowing that when it comes
8 time to close the position, it's going to cost you more
9 to buy a share on the market to close out your position.

10 Q. Sure.

11 Or maybe I buy a house for \$250,000 that's
12 appraised for \$250,000, and I put \$90,000 down for
13 20 percent, so the bank has got collateral, a mortgage on
14 my house, of 80 percent, but --

15 A. You only have to put 50 for your example, so...

16 Q. 250, you're right. You know, I should always
17 write these hypotheticals down when they involve math.

18 But the -- it drops -- the value of the
19 collateral, once the loan is set -- let's assume a fixed
20 30 -- once the loan is set, the value of the collateral
21 can actually drop below what the outstanding price is on
22 the mortgage.

23 A. Yes.

24 Q. And that happened a lot during the financial
25 crisis.

1 A. Yes.

2 Q. And, for example, before 2007 -- well, actually --
3 when the New York Fed signed the credit agreement with
4 AIG on September 22, 2008, there was still a risk that
5 AIG would go bankrupt.

6 A. Yes.

7 Q. When they signed the credit agreement --

8 A. I should say, just to qualify it, a lot of that
9 risk was under the control of the government at that
10 point.

11 Q. If the government planned on putting in more
12 money.

13 A. Well, there are lots of ifs, so we can spend a lot
14 of time on that "if" question.

15 Q. But one of the ifs -- fair enough, sir.

16 But one of the ifs about whether AIG would go
17 bankrupt after the credit agreement, one of the ifs was
18 if the Treasury plus the Fed plus the Board of Governors
19 planned to put in more money or -- and the FDIC, one
20 way -- I mean, however, one way or the other --

21 A. I was just going to say, our conversation would go
22 "if this, then that," and so you've just gone "if then,
23 that," so we have to get to "this" first.

24 Q. Okay. So if the 85 billion was the only money
25 the government was going to put in, the chances of AIG

1 going bankrupt after that first loan were not
2 insignificant.

3 A. Well, the world played itself out in a way where
4 the onerous loan terms were such that the loan had to be
5 refinanced in November, so the structure of the loan,
6 you know, ultimately necessitated refinancing.

7 Q. Do you have an opinion, sir, as to whether, if
8 \$85 billion, even if it was, you know, a gold-plated --
9 the cheapest loan that they could get, whether
10 \$85 billion loan, that alone, without all the other TARP
11 and all the other money that the Fed and the Treasury put
12 in, whether that could have been enough without somebody
13 else lending AIG more money?

14 A. You mean if -- so just to get your counterfactual
15 correct, are you saying that AIG, let's say, was given
16 access to the PDCF and was able to cover its positions or
17 you just want to give it \$85 billion at terms that are
18 similar to what everybody else received.

19 Q. No. \$85 billion at 3 percent rate, whatever, the
20 point is, sir, is that \$85 billion without subsequent
21 money from somewhere was not going to get AIG through; is
22 that a -- is that correct?

23 A. I think it's a very difficult counterfactual
24 you're asking because remember the -- the core issue
25 that's being addressed is the market's confidence in AIG

1 as well as market confidence overall. I mean, one of the
2 key reasons for supporting AIG is to support the market
3 overall, so there are two types of inferences that are
4 being made from an alternative loan of the sort that
5 you're talking about. One is, is the government now
6 acting more rationally. And second, is AIG in a position
7 where it would be a proper investor -- a proper inference
8 to make by investors that -- that the concerns about the
9 company have been quelled, and so that feedback that I'm
10 talking about is critical to resolving the counterfactual
11 that you're asking.

12 Q. If AIG went bankrupt, if they did after the
13 government made the credit -- the credit agreement, there
14 was a risk that AIG's insurance companies would drop in
15 value.

16 A. Well, again, the question is under what
17 circumstances. What I've seen in terms of insurance
18 bankruptcies, it really depends on how the bankruptcy
19 gets executed and what the circumstances are, and so I
20 think you -- in terms of being able to resolve what a
21 bankruptcy would look like requires a lot more than the
22 two of us are going to be able to get across in the next
23 few minutes.

24 Q. If AIG -- if the AIG parent had failed after the
25 credit agreement was signed, insurance commissioners

1 would have taken the various insurance subs into
2 receivership; isn't that correct?

3 A. No. You can't make that immediate assumption.

4 Insurance commissioners react in a variety of
5 different ways. There are different ways that they
6 protect policyholders. There isn't just a single way
7 that they go about doing that.

8 So there could be prepackage support. There can
9 be supervision that is simply the decision that the
10 commissioner enters into.

11 So there's a -- it's not a -- the way you've
12 articulated it isn't the way insurance commissioners --
13 you know, you can't just categorically describe their
14 behavior the way you are.

15 Q. If the AIG parent company failed, insurance
16 commissioners typically would be led to taking into
17 receivership the various insurance sub entities,
18 depending on where they're domesticated; correct?

19 A. Yeah. The key would be always insurance
20 commissioners are worried about protecting the
21 policyholders, and so their decisions are guided by that
22 principle. And depending on how the world plays out in
23 the counterfactual you have in mind right now will
24 dictate what they do.

25 Q. Now, I want to make sure I got a yes on that. I

1 think I got a yeah, and so I want to make sure.

2 If the AIG parent company failed, insurance
3 commissioners typically would be led to taking into
4 receivership the various insured sub entities, depending
5 on where they're domesticated, yes, no or I don't know?

6 A. I'm just answering --

7 Q. Yes, no, or I don't know, sir?

8 A. Well, I was -- it's a yes and no. It's the --
9 yes, the insurance commissioners will do something.

10 Q. Typically. That's the --

11 A. They will always do something.

12 Q. Okay.

13 A. They will certainly -- if a parent goes bankrupt,
14 they will certainly look at the insurance subsidiaries.

15 Q. And that's not my question, sir, and so I need you
16 to listen to my question and answer the question I'm
17 asking.

18 Not will they look at it, not will they be
19 interested in it, if the AIG parent company failed,
20 insurance commissioners typically would be led to taking
21 into receivership the various insured sub entities,
22 depending on where they're domesticated, yes, no, or I
23 don't know?

24 A. I -- let me just explain my hesitation, and then
25 I'll answer.

1 Q. Why don't we turn to your deposition, sir.

2 A. All right.

3 Q. Okay?

4 And can I ask you, sir, as part of your prep, did
5 you read the portion -- I mean, you have a sense of where
6 I'm going.

7 Did you read the portion of your deposition I'm
8 about to take you to?

9 A. I read it a few weeks ago, so I don't have a sense
10 of where you're going.

11 Q. Fair enough.

12 Let's turn to page 262 then in your deposition.
13 And we'll go to line 10. Just let me know when you're
14 there, sir.

15 Sir?

16 A. Yes.

17 Q. Do you have --

18 "QUESTION: Do you have an opinion as to what
19 would have happened to AIG's insurance subsidiaries had
20 AIG, the parent company, failed?

21 "ANSWER: If AIG -- the circumstances under which
22 AIG, the parent company, failed, would typically lead to
23 the insurance commissioners taking into receivership the
24 various insurance sub entities, depending on where
25 they're domesticated."

1 Do you see that?

2 A. Yes, I do.

3 Q. And that was accurate when you said it?

4 A. Well, I think the term "receivership" isn't right.
5 It's either they'll go into supervision or
6 rehabilitation.

7 Q. So --

8 A. I'm not using the right term in my answer.

9 Q. So you're -- what you said in your deposition was
10 wrong.

11 A. Yes. I -- I should have been using -- the right
12 terminology with insurance companies is "supervision and
13 rehabilitation."

14 And you know, the insurance commissioner would
15 worry about -- it would -- if it determined that the
16 policyholders were protected in that the insurance
17 company was adequately capitalized, then supervision
18 would likely be the outcome.

19 If there was inadequate capital backing the
20 policyholders, then rehabilitation would be the direction
21 that the company went.

22 And then finally, if there was no hope, it would
23 go into a runoff mode, so one of the reasons --

24 Q. You didn't say any of that in your deposition.

25 A. I have focused on the insurance industry a lot

1 more since we actually last spoke, so --

2 Q. You didn't say any of that in your deposition,
3 sir.

4 A. No. I totally agree with you.

5 Q. Okay. And what you said in your deposition was
6 "receivership"; right?

7 A. Absolutely.

8 Q. Okay. No further questions on that document.

9 THE COURT: Mr. Dintzer, before we break for
10 today, can you give me a preview of what to expect
11 tomorrow and Friday?

12 MR. DINTZER: You mean generally like an
13 enthralling cross-examination or more specifically about
14 time?

15 THE COURT: Well, I'm not going to limit your
16 cross in any way, but we talked about starting the
17 defendant's case, and that's where I was going.

18 MR. DINTZER: I completely appreciate that,
19 Your Honor.

20 I would guess that I have a number of hours. I
21 would hate to put it, but probably three-ish or
22 four-ish.

23 THE COURT: Okay.

24 MR. DINTZER: I will try to and I am trying to
25 keep -- in fact, maybe a little too much, I'm trying to

1 keep it moving along.

2 THE COURT: Well, can you tell me then who are the
3 first witnesses on the defendant's side?

4 MR. DINTZER: It may have -- we definitely had --
5 we definitely had a witness chosen first, but the fact
6 that they're not starting first thing tomorrow may cause
7 a switch, and so if I may have just a moment of
8 indulgence, Your Honor, let me just confirm this.

9 THE COURT: Sure.

10 (Pause in the proceedings.)

11 MR. DINTZER: Your Honor, one of the -- our
12 original intent was to have Mr. Huebner as the first
13 witness. Mr. Huebner is an observant Jew who needs to be
14 back home before the sundown on Friday night, and so
15 it -- which is in New York, which means he would need to
16 leave here by noon on Friday to be able to make that.

17 Because of that, the way that this is looking,
18 it's looking like we would probably not have him in that
19 spot and it is more likely, given the amount of time that
20 I'm going to need and then presumably the plaintiffs
21 after, that we'll have Mr. Neuberger in the starting spot.

22 THE COURT: Okay. Very well then. Let's adjourn
23 until 9:30 tomorrow morning.

24 (Whereupon, at 4:59 p.m., the proceedings were
25 adjourned.)

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CERTIFICATE OF TRANSCRIBER

I, Josett F. Whalen, court-approved transcriber,
certify that the foregoing is a correct transcription
from the official digital sound recording of the
proceedings in the above-titled matter.

DATED: OCTOBER 30, 2014

s/Josett F. Whalen

JOSETT F. WHALEN, COURT REPORTER

1	ADMITTED EXHIBITS		
2			
3	PX	PAGE	DESCRIPTION
4	168	5123	SEC Press Release (9/19/2008) SEC Halts Short
5			Selling of Financial Stocks to Protect
6			Investors and Markets
7	266	5024	BlackRock slides: Multi-Sector CDO Action Plan
8			Review (September 29, 2008)
9	457	5125	Email (3/12/2009 8:25 am) From: Briana Hart
10			To: Phil Meir, Sara Lo, cc: Zach Buchwald,
11			Andrew Forster re: RE: Urgent Request for
12			BlackRock Expected Loss numbers
13	500	5018	GAO Follow-up Interview with Texas State
14			Department of Insurance (April 7, 2009)
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1	2564	5133	Federal Reserve Board of Governors Website -
2			"Term Securities Lending Facility (TSLF) and
3			TSLF Options Program (TOP)"
4	2572	5133	Federal Reserve Board of Governors Website -
5			"Credit and Liquidity Programs and the Balance
6			Sheet - Collateral and rate setting"
7	2726	5135	Summary of Terms: Eligible Asset Guarantee:
8			Bank of America
9	2734	4997	Department of Justice Press Release, "Bank of
10			America to Pay \$16.65 Billion in Historic
11			Justice Department Settlement for Financial
12			Fraud Leading up to and During the Financial
13			Crisis" (August 21, 2014) - with linked
14			attachments
15	2735	5135	Summary of Terms of USG/Citigroup Loss Sharing
16			Program
17	2816	5119	Doomsday Book Memorandum
18	2826	5119	Doomsday Book Memorandum
19	2857-A	5123	Primary Dealer Credit Facility Document
20	2872	4997	DOJ Press Release
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