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1 UNITED STATES DISTRICT COURT
2 SOUTHERN DISTRICT OF NEW YORK

3 ALASKA ELECTRICAL PENSION
4 FUND, *et al.*,

5 Plaintiffs,

New York, N.Y.

6 v.

14 Civ. 7126 (JMF)

7 BANK OF AMERICA CORP. *et al.*,

8 Defendants.

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9
10 May 30, 2018
3:30 p.m.

11 Before:

12 HON. JESSE M. FURMAN,

13 District Judge

14
15 APPEARANCES

16
17 QUINN EMANUEL URQUHART & SULLIVAN, LLP
Attorneys for Plaintiffs
18 BY: DANIEL BROCKETT
JEREMY ANDERSEN
19 MARC L. GREENWALD

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23 BY: JULIA KEARNS

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1 (Case called)

2 THE DEPUTY CLERK: Counsel, please state your name for
3 the record.

4 THE COURT: Don't all jump at once.

5 MR. BROCKETT: Good afternoon, your Honor. Daniel
6 Brockett of Quinn Emanuel on behalf of the plaintiffs.

7 MR. ANDERSEN: Jeremy Andersen, Quinn Emanuel, also on
8 behalf of plaintiffs.

9 MR. MITCHELL: David Mitchell, from Robbins, Geller,
10 Rudman & Dowd on behalf of plaintiffs.

11 MS. KEARNS: Julia Kearns, Scott & Scott, on behalf of
12 the plaintiffs.

13 MR. GREENWALD: And, Marc Greenwald also from Quinn
14 Emanuel. Good afternoon, your Honor.

15 THE COURT: Good afternoon. Good to see you all. My
16 understanding is that the defendants, no one wanted to sit at
17 the table, you are all scared of me or something. But, is
18 someone here from each of the defendants? I don't necessarily
19 need to take appearances but just for the record, does anybody
20 know the answer to that?

21 MR. ANDERSEN: Looks about right.

22 MR. GREENWALD: I did greet at least one person from
23 each of the defendants when we came in.

24 THE COURT: There are certainly a lot of people here
25 so I think it is a safe assumption.

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1 Well, we are here for the fairness hearing, I'm not
2 sure that's a proper name for it, in any event, in connection
3 with the settlement of this matter with respect to 10 of the
4 defendants. I did put out two orders, one yesterday and one
5 earlier today. I apologize for the last minute nature of both
6 them with just a series of things that I wanted you to address.
7 I think if, unless you have a better idea, my inclination would
8 be to sort of address the issues relating to the settlement
9 itself first and then to turn, at some point, and discuss
10 issues relating to the fee application.

11 So, with that order in mind, and maybe taking the
12 order that I issued earlier today as the starting point, if you
13 want to address those things or I could pose the questions to
14 you Mr. Brockett and we can proceed that way?

15 MR. BROCKETT: Yes.

16 THE COURT: Whatever you think is easiest.

17 MR. BROCKETT: Thank you, your Honor.

18 Yes. I will address each of the questions that the
19 Court raised in its orders yesterday, first as they pertain to
20 final approval of the settlements. But before I get to those
21 may I just make two quick points about the settlement here?

22 First, I think it does merit emphasis again that not a
23 single objection has been filed to any aspect of the
24 settlement, and the opt-outs about which I am going to give a
25 report are *de minimis*. So we have a record where not a single

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1 class member has objected to the monetary component of the
2 settlement, the nonmonetary component of the settlement, the
3 plan of distribution, the scope of the releases, or any other
4 term. And the essence of objections is a powerful testament to
5 the fairness and adequacy of the settlement. This is
6 particularly true given that hedge funds and other
7 sophisticated institutions make up a significant portion of the
8 class so I just want to put that point on record.

9 The second point I wanted to state is that the
10 settlement amount of \$408 million here represents approximately
11 28 to 59 percent of what we currently estimate the plaintiff
12 class could have recovered had we gone to trial and this is
13 just the trial demand. The actual recovery at trial could have
14 been a lot lower given the many risks that we face in this
15 case. So, this type of recovery in a class action is an
16 outstanding recovery for the class and it far exceeds what
17 plaintiff classes recover in the majority of class actions.
18 So, I just wanted to address those two points.

19 Now, with respect to the Court's questions, let me
20 take up the questions that came in today's order which largely
21 go to the question of the underlying settlement. So, the first
22 question, the Court asks for us to explain the meaning of
23 certain concepts in the plan of distribution. First the notion
24 of --

25 THE COURT: Let me clarify it was less, and maybe this

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1 was my fault, it was less to explain the meaning. I think I
2 get the meaning of them so much as to explain to me how you
3 came up with the actual numbers. So, I understand the theory
4 behind it, I looked at the Fiore declaration which is I think
5 was to explain it but Mr. Fiore didn't explain how he came up
6 with the particular multipliers that were used, either the 4.5
7 figure for the litigation multiplier or the different economic
8 multipliers that are used. I certainly understand what he is
9 getting at and the purpose of it.

10 MR. BROCKETT: Okay. Let me see if I can satisfy you
11 and, if not, we have Dr. Fiore here.

12 The economic multiplier is basically --

13 THE COURT: I didn't mean to deprive him of his Ph.D.
14 I apologize. Go ahead.

15 MR. BROCKETT: Well, he is here and is happy to talk
16 if it is necessary for the Court to understand.

17 But, the economic multiplier is basically a formula,
18 it is a mathematic formula that Dr. Fiore came up with in an
19 effort to account for the fact that different instruments here
20 have different sensitivities to movements and interest rates,
21 and so we wanted to measure those sensitivities and to have an
22 adjustment in the plan so that we don't overcompensate certain
23 instruments and undercompensate others. And so, how did we
24 come up with this? They looked at real world data from
25 Bloomberg, okay, to see how movements in interest rate impact

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1 the value of these instruments. So, it is based upon real
2 world data. Having looked at how movements in interest rates
3 impact the value of these data they were able to come up with a
4 mathematical formula that reflects the economic multiplier.
5 Now, can I explain to you how and exactly why a certain number
6 was used as opposed to another? No. I'm sorry, I can't do
7 that. Dr. Fiore could do that, though. But, I can tell you it
8 was formulaic and it was simply based upon observations of how
9 the instruments change in value based upon changes in interest
10 rate in the real world. So, if there is a one basis point
11 change, for example, in a fixed-rate instrument, they looked at
12 how that one basis point change impacted a 30-year swap, how
13 that one basis change impacted a one-year swap. And they made
14 an adjustment which was a mathematical formula to account for
15 that.

16 THE COURT: All right. I think it might pay for me to
17 hear from Dr. Fiore. I want to understand, I guess, how those
18 formulae were arrived at.

19 MR. BROCKETT: Right.

20 THE COURT: I have spent a good portion of the last
21 couple months reading issues relating to this case and reports
22 relating to this case and Dr. Pirrong's reports and so forth,
23 so I would certainly understand the complexity involved here.
24 I want to make sure that I have a little better understanding
25 of how the numbers were ultimately arrived at and whether it is

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1 more straightforward, for example, than the artificiality
2 ribbons and the like that Dr. Pirrong used.

3 MR. BROCKETT: Perhaps we should run through these
4 questions.

5 THE COURT: Sure.

6 MR. BROCKETT: Maybe I can satisfy you on some and
7 there may be others where we can bring Dr. Fiore up as well.

8 The litigation multiplier, that was based solely on
9 counsel's judgment. Essentially we determined that claims that
10 are based on privity, transactions that were entered into
11 directly with the defendants have a much greater strength in
12 litigation than claims that are non-privity. And so that was a
13 counsel judgment and we basically set this up so that 90
14 percent of pools A and B1 are going to go to privity-based
15 transactions and the other 10 percent to non-privity. That was
16 our judgment. Okay?

17 THE COURT: All right.

18 MR. BROCKETT: The swaption adjustment multiplier.
19 So, what this is is swaptions are options on interest rate
20 swaps and so an option is less sensitive to movements in
21 interest rate than the underlying spot trade. In other words
22 the underlying option that the swaption reflects. And so, what
23 we did was we looked at defendant's data for swaptions and we
24 came up with an average relative sensitivity of the option
25 versus the underlying spot trade. This is called a Black 76

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1 model that lexicon applied here. But, the idea was to come up
2 with an average number which reflected the different
3 sensitivities between the option and the underlying trade.
4 Okay? The Black 76 model, that came up with exactly what the
5 adjustment would be in this case. Again, I think this might be
6 one for Dr. Fiore to explain, the Black 76 model and how it was
7 applied here.

8 THE COURT: All right.

9 MR. BROCKETT: Treasury option adjustment factor.
10 That's a very similar concept here so it is the same concept as
11 before. If you have an option on a treasury future, the option
12 itself has less sensitivity to interest rate changes than the
13 underlying treasury future. Again, Dr. Fiore applied the
14 Black 76 model to data that we obtained from the exchange and,
15 again, came up with an average that we could apply here to
16 calculate the treasury adjustment factor. So, it is the same
17 concept as the swaption adjustment but this has to do with
18 treasury options versus the underlying treasury futures
19 contract.

20 The Euro dollar adjustment factor, very same concept
21 as well. Here we have an option on a Euro dollar future. That
22 option is less sensitive to interest rate movement than the
23 underlying Euro dollar future itself. To adjust for this we
24 applied the Black 76 model to data from the Euro dollar
25 exchange so that's from the CME, and through that method we

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1 calculated the average which became the Euro dollar adjustment
2 factor. So, again, Dr. Fiore can explain more detail.

3 Now, moving to your Honor's second question, the
4 relationship, if any, between the plan of distribution on the
5 one hand and the methodology and opinions of Craig Pirrong.

6 So, Dr. Pirrong's concept of a permanent impact is
7 embedded in our plan of distribution insofar as we are allowing
8 everyone who traded an ISDAfix instrument during the class
9 period to submit a claim. We are not attempting to limit those
10 who can submit a claim to those who traded at or around the
11 11:00 a.m. window. So the fundamental, the rock bottom
12 principal of Dr. Pirrong's permanent impact concept is
13 embedded, baked into the plan of distribution. Now, we did not
14 create an artificiality ribbon of the kind that Dr. Pirrong
15 created for the class certificate model because it would have
16 declared class cert, class members, winners and losers, based
17 only on a preliminary list of manipulation events. So, we only
18 have a preliminary list of manipulation days. Had we built an
19 artificiality ribbon, that artificiality ribbon would have
20 declared winners and losers and that could have sparked
21 objections because who a winner and who was a loser could very
22 well change on a full set of manipulation days. So, we decided
23 it was better to pay claims based on straight notional which
24 does not bias one class member over another in any respect.
25 Okay?

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1 So, I think that answers the question of the
2 relationship between the plan of distribution and Dr. Pirrong's
3 methodology of why we did what we did.

4 THE COURT: One feature of the question embedded at
5 the end of it was, as I understood it, one criticism of
6 Dr. Pirrong's analysis was his use of treasury and Euro dollar
7 futures as controls, and the theory behind a control is that it
8 is not necessarily or it would not be affected by the
9 manipulation alleged by the plaintiffs in this case. Right?
10 So, it seems a little bit intentioned to both treat it as a
11 control but also essentially included it in the plan of
12 allocution -- sorry, plan of distribution here on the theory
13 that it's affected even if it is affected significantly less
14 and therefore weighted much less than the distribution plan.

15 MR. BROCKETT: Right. It is a fair question and let
16 me respond to it. I meant to respond to it.

17 So, what Dr. Pirrong would say is that economists use
18 controls all the time that are imperfect. There are controls
19 that are imperfect but they still add value, so Dr. Pirrong
20 would say that you can use a treasury and Euro dollar future as
21 a control even though -- even though those instruments were, in
22 some respects, impacted by the manipulation. And he would tell
23 you that economists do this all the time and they add value to
24 a study and to a model, even as imperfect as they may be.

25 So, that is why the Euro dollar futures and the

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1 treasuries can be both an imperfect control; at the same time
2 they can also be instruments that were impacted, to some
3 extent, by the manipulation and be instruments and a part of
4 the settlement class, but we do realize that claims based on
5 these instruments are further removed from the wrongdoing which
6 is why they are being allocated less money than plain vanilla
7 swaps, swaptions, and other instruments that are directly
8 linked to ISDAfix.

9 THE COURT: Very good, and that is a good segue into
10 the third question which is essentially the relationship
11 between those transactions and ISDAfix instruments. I guess
12 the question is is it any transaction in treasuries, in
13 treasury futures would be rewarded under this?

14 MR. BROCKETT: Yes.

15 So, what happened is that the basis for including Euro
16 dollar futures and treasuries in the settlement is, first of,
17 all the defendants insisted that the release cover these
18 instruments. Okay? That's natural. I would expect the
19 defendants to insist on that they be included. At the same
20 time they are also, under our own theory, they were impacted by
21 the wrongdoing to some extent. Okay? And so, there is a
22 rational basis for including Euro dollar futures and treasuries
23 within the release, within the distribution pool.

24 Now, the Court also asks are these instruments ISDAfix
25 instruments under the settlement agreement. And they are. The

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1 settlement agreement talks about, among other things, ISDAfix
2 instruments being any and all instruments that are relevant to
3 the determination or calculation of ISDAfix benchmark rates.
4 Well, treasuries are part of how ISDAfix is calculated and Euro
5 dollar futures are also used in the calculation of the one-year
6 ISDAfix. So, treasuries and Euro dollar futures are ISDAfix
7 instruments for purposes of the settlement agreement and also
8 they were part of the defined ISDAfix instruments in the notice
9 that went to class members. Okay? So, I think that that is
10 why they're being included here and that is the relationship
11 between them and the definition of an ISDAfix instrument under
12 the settlement agreement.

13 THE COURT: So, you raise the question of the notice
14 that went to putative or potential class members. Is it clear,
15 do you think it was clear from that notice that treasuries were
16 within the scope of it and would that not have -- I mean 58,000
17 I think is the number of notice packages, or somewhere in that
18 neighborhood, that were sent out. I would think that the
19 number of persons or entities that engaged in transactions
20 involving just treasuries to take an example would have been
21 vastly higher than that. What say to you that?

22 MR. BROCKETT: Well, we certainly did a very
23 comprehensive job at trying to identify every institution that
24 would have traded a treasury instrument or to have traded Euro
25 dollar futures that could be impacted by the settlement and so

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1 I have no doubt that all potential class members or substantial
2 class members received notice that Euro dollar futures and
3 treasuries are part of the settlement here for sure. Yes.

4 THE COURT: I think your colleague may have had
5 something he wanted to share with you but I will leave that to
6 you.

7 MR. BROCKETT: My colleague, Mr. Andersen, reminds me
8 that the notice specifically references treasuries and Euro
9 dollar futures and puts class members on notice that these
10 instruments are part of the settlement pool.

11 THE COURT: All right. Very good. Why don't you turn
12 to no. 4 then.

13 MR. BROCKETT: Yes.

14 No. 4 I believe asks about the relative market shares.
15 This was, I think, a point we made in connection with the UBS
16 and the HSBC settlement. So, we had market share information
17 early on in this case from a study done by Greenwich Associates
18 which is a consulting firm. We also had Compass Lexicon
19 calculate their own estimates of market share. What I can tell
20 you put in the record from Greenwich is as follows: The only
21 year I have -- and this is a market defined as interest rate
22 derivatives, interest rate derivatives market, so it would
23 include certainly swaptions and other ISDAfix-linked
24 instruments as well as plain old swaps and other instruments
25 defined as interest rate derivatives. But, in 2012, according

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1 to Greenwich Associates, Bank of America had market share of
2 8.7 percent, JP Morgan had market share of 11.6 percent,
3 Deutsche Bank had market share of 7.5 percent, Citigroup 8.9
4 percent, Barclays 4.8 percent, Goldman Sachs 6.9 percent, RBS 7
5 percent, and then UBS 2.6 percent, and HSBC 5 percent. So, the
6 point we were making in the brief with this is that HSBC and
7 UBS are substantially smaller by market share to all of the
8 other settling banks with the exception of Barclays, okay? And
9 then, of course, the distinction between Barclays and these
10 banks was that Barclays was a daily manipulator, the Barclays
11 traders were daily manipulators of ISDAfix whereas we found
12 very little, if any evidence, to suggest that the traders for
13 UBS and HSBC were engaged in the same conduct.

14 THE COURT: Granted, UBS and HSBC are the lowest
15 numbers of those you just read off to me but HSBC is almost
16 twice the size of UBS. Can you explain why they're both then
17 the same settlement values?

18 MR. BROCKETT: Yes; because it wasn't solely market
19 share driven, it was based principally upon chats and evidence
20 suggesting that these banks were engaged in the core activity
21 that the complaint was about. And, with respect to HSBC, we
22 found virtually nothing. With respect to UBS, we had some
23 chats that were incriminating. But, HSBC was largely clean and
24 that's the reason why their number was equivalent to UBS'.
25 And, I would also say, they negotiated together, they insisted

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1 on negotiating together, and they did so using Layn Phillips,
2 mediator, and I think that also, in part, accounts for why the
3 numbers were the same.

4 THE COURT: Very good.

5 Then, the last item on today's order is essentially
6 just whether you should be required to submit data concerning
7 the claims rates and the like.

8 MR. BROCKETT: Sure. Of course. We have no issue
9 with submitting this data when it becomes available. I think
10 my only comment here was that the Court has enough information
11 today to approve the settlement and we would be concerned if
12 there was going to be a deferral of the decision to approve the
13 settlements until all of this information has been provided.
14 But, certainly, providing the information is no problem. This
15 is typically provided in a motion for approval of the
16 distribution. Once all the claims have been in and the claims
17 administrator works its magic, we typically make a motion for
18 distribution of the settlement fund and we would provide the
19 Court at that time all of this information. But the
20 settlements themselves are approved months if not years ago
21 before we get to that point.

22 THE COURT: All right. I didn't mean to suggest that
23 I saw that as a reason to defer the question of approval. I
24 meant is there any reason not to require to you disclose it in
25 the interest of transparency down the road.

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1 MR. BROCKETT: No reason whatsoever and of course we
2 would be happy to provide it.

3 THE COURT: So why don't you assume, assuming I do
4 approve it, then make sure that in whatever final motion for
5 distribution you do include that information, other information
6 concerning the claims rates and distributions and the like.

7 Maybe on the order from yesterday, I think all of them
8 relate to fees other than maybe the last question concerning
9 the opt-outs. Do you want to maybe address that and perhaps I
10 will hear from Dr. Fiore before we turn to the question of
11 fees?

12 MR. BROCKETT: Yes. I mean, I have good news on the
13 fees, your Honor.

14 So, the first question --

15 THE COURT: You don't want them?

16 MR. BROCKETT: No. I didn't say that. I think I have
17 a good answer to that.

18 The first question the Court raises is whether the
19 motion for attorneys fees should be deferred to the end.

20 THE COURT: My suggestion was that you address the
21 opt-out question, item no. 7 on that order and then we get to
22 Dr. Fiore. But, maybe you want to share the good news and not
23 keep me in suspense?

24 MR. BROCKETT: I guess I am too eager to share the
25 good news here. Opt-out report, yes.

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1 So, opt-outs included the following: The Biton
2 family, that was a handwritten opt-out. They provided no
3 transaction data. The claimant seemed to be upset about things
4 President Obama did and the claims didn't seem to have any
5 connection to this case whatsoever. That was the Biton family.

6 So, China Bank. We had received an opt-out from China
7 Bank but that request has been withdrawn. So, the request for
8 exclusion from China Bank has been withdrawn.

9 The Chicago Cubs. We spoke to their in-house counsel.
10 This is, I would call it policy-driven opt-out. They just opt
11 out of all class actions as a matter of practice. I do not
12 expect any suit to be filed. Certainly no suit has been filed
13 at this point. The Chicago Cubs only had two relevant trades
14 and I expect that they will opt out but they will not hire
15 separate counsel and bring a claim.

16 Qantas Airways submitted a request for exclusion but
17 the only trades that they attached were not ISDAfix instruments
18 trades but were FX trades -- foreign exchange trades. So, we
19 had a question initially as to whether they were even a class
20 member so we did look into to our own records and we can't find
21 one interest rate swap transaction involving Qantas Airways and
22 we have no reason to believe that they will hire separate
23 counsel and bring a claim. Again, this appears to be or looks
24 like a policy-driven opt-out as well.

25 So, the next one is Métropole Europe. They have not

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1 hired outside counsel. They have no intention to file a
2 separate case. They submitted some swap agreements in French
3 so we couldn't fully understand, but they do look like they
4 have some qualifying trades but they are very few in number and
5 we do not expect to see a separate action and there certainly
6 is no one filed at this point in time.

7 Pas-De-Calais Habitat. Again, they have not hired
8 outside counsel. We do not find qualifying trades for this
9 entity in our database. This appears to be a policy-based
10 opt-out as well. They don't have outside counsel and we do not
11 expect to see a separate action filed.

12 And, finally, the Commonwealth Bank of Australia.
13 This one, they do have about 1,100 trades but that's still a *de*
14 *minimis* number given that there are millions of interest rate
15 swap transactions that are part of the class. We have no
16 insight into why the Commonwealth Bank of Australia has opted
17 out, however they have not hired outside counsel, we do not
18 expect them to file a separate action.

19 I think that's it for the opt-out report.

20 THE COURT: All right.

21 Do you want to share the good news and then I will
22 turn to Dr. Fiore?

23 MR. BROCKETT: Yes.

24 What I was going to say is that your first question
25 here raises the issue of whether the attorneys fees should be

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1 deferred until the end of the case, at which time the Court
2 would have a more complete view of the total hours and expenses
3 incurred over the course of the litigation. And I have spoken
4 to the other lead counsel and we are willing to defer the fee
5 application. We would not be withdrawing it, we are filing it,
6 we will keep the same fee motion on file. We were simply
7 deferring resolution of it until the conclusion of the case and
8 I think that moots, pretty much, all the other questions the
9 Court had about the fee other than the opt-out report which I
10 have already given.

11 If there is any other question the Court would like me
12 to answer here I'm happy to do so, but I think it moots or
13 defers, defers until later -- some of these issues are going to
14 exist but I don't see a reason to argue them today if we are
15 going to defer the fee petition.

16 THE COURT: I agree. I think that makes sense. I
17 think that is good news. I think it probably would have been
18 the result anyway but it makes it easier. Why don't we defer
19 consideration of those issues then and my intuition is that
20 down the road there will be a supplemental submission and you
21 can probably, to the extent that you haven't already, address
22 these questions or issues in that supplemental submission and
23 that may get us a long way to where we need to get on that.

24 So, shall I hear from Dr. Fiore?

25 DR. FIORE: Good afternoon, your Honor.

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1 THE COURT: My apologies.

2 MR. BROCKETT: Do you want him to take the stand and
3 be sworn?

4 THE COURT: No, I don't think so. If he could just
5 help me understand the root of the particular numbers and the
6 formulas that he used, that would be sufficient I think.

7 DR. FIORE: Very good.

8 So, for example, so the basic idea of an economic
9 multiplier is that we have a certain number of instruments in
10 each pool and we want the number to reflect the relative
11 sensitivity of a manipulation or change in interest rates on
12 the values, the values of the various instruments. So, that's
13 the idea by hind the economic multiplier. So, we have a series
14 of tables in the plan so, for example, if we turn to cash
15 settled swaption economic multipliers right table 1. So, this
16 basically is, reflects the idea that a cash-settled swaption
17 linked to a, say, five-year ISDAfix has a lower sensitivity to
18 a cash settled swaption with, say, a 30-year tenor. So, the
19 reason being that we have -- so, a five-year swaption will
20 have, typically have semi-annual payments out to the five
21 years, right? So, what we did for these economic multipliers
22 was we said let's assume that there is a one basis point
23 increase in the fixed rates. So, floating rate stays constant,
24 fixed rates goes up so that's due to manipulation. So, we said
25 what is the effect on the value of the cash settlement? So, we

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1 say you will get one basis point increase in all of the
2 payments out to say, five years if you have a five year tenor,
3 and what you do with that you, to get to a particular value you
4 have to discount all of the payments back to the present. So
5 what we did was use a variety of discount factors based on
6 fixed or float discount rates taken from Bloomberg and those
7 discount factors allow us to say if we have a particular
8 payment in the future, what is that worth today. And that
9 allows us to then add up all the series of payments that they
10 would have gotten and allow us to say what the value was today.
11 So, for example, if you look at a five-year cash settled
12 swaption with a five year tenor, we have a multiplier of
13 4.69 because that is the value of one basis point increase --
14 for every basis point of increase in the fixed rate, the value
15 increases by 4.69 basis points. And the same thing with a
16 30-year tenor, there is a lot more payments, and so when you
17 discount all of those payments back to the present you get a
18 multiplier of 19.

19 So, it's a very common and very standard way of
20 calculating the values of future payments.

21 THE COURT: And then between that and the other pools,
22 if you will, the swap multipliers, the treasury multipliers, is
23 that a similar analysis? I mean obviously it's --

24 DR. FIORE: Yes. So, that's a similar analysis,
25 especially for treasuries. So, if you assume that, say the

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1 coupon rate would have been higher by a certain, amount how
2 does that translate into value today. And it was a similar
3 formula that gives us the treasury values except say we use
4 treasury yields and treasury discount factors to discount back
5 to the present.

6 THE COURT: So, to simplify it, it is basically a
7 means of obtaining the net present value of a particular
8 transaction or instrument?

9 DR. FIORE: Exactly.

10 THE COURT: I take it it sounds like it is a fairly
11 standard way of measuring that.

12 DR. FIORE: Yes.

13 THE COURT: If you were to sell one of these
14 instruments is it the kind of analysis that would go into the
15 valuation of it for purposes of a sale of it?

16 DR. FIORE: That's exactly right.

17 THE COURT: Okay.

18 And what about the Black 76 model?

19 DR. FIORE: So, the Black 76 model --

20 THE COURT: Why is it called that, first of all.

21 DR. FIORE: It was developed by Fisher Black in 1976.
22 It is a variation of the Black-Scholes model. So, the
23 Black-Scholes model tells you, given a particular stock with
24 certain characteristics what is the value of an option on that
25 stock. And so instead of -- so, that's Black-Scholes, that's

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1 one model. Black 76 is a variant of it which is for futures
2 contracts and we applied that for all of these future
3 contracts, futures contracts at issue here. And basically you
4 can use that Black 76 model to, say -- basically it is a
5 measure, you can use it to measure the relative sensitivity of
6 the option relative to the underlying instrument.

7 So, for a swaption, for example, the underlying
8 instrument is a fixed or float swap so a swaption is an option
9 on that fixed or float swap. So, what we want to know is when
10 the fixed rate changes, the fix or float swap is going to have
11 a particular sensitivity to that and then we want to know what
12 is the sensitivity of an option on that fixed or float swap and
13 the sensitivity of an option on that fixed or float swap is
14 going to be less than that, than the sensitivity on that fixed
15 or float swap itself and the Black model allows us to do that.

16 So, the issue with -- obviously -- so, each option
17 will have its own sensitivity depending how far in the money or
18 out of the money it is. So an option that is very far in the
19 money is going to have the sensitivity that looks a lot like
20 that fixed or float swap and an option that is very far out of
21 the money is going to have almost zero sensitivity. So, what
22 we did is we looked at the, to not burden class members with
23 submitting all the details of their transactions we looked at
24 what is the typical sensitivity of a swaption to its underlying
25 fixed to float rate -- underlying fixed to float interest rate

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1 swap given in the data that we got from defendants and then we
2 applied that to all swaptions that are submitted.

3 THE COURT: How do you define the typical in that
4 context?

5 DR. FIORE: It is the average. So, we looked at all
6 the swaptions in the database and you say look at the Black 76
7 model to say what is that sensitivity of that particular option
8 or swaption to its underlying interest rate swap and then you
9 take an average across all of them to figure out what is the
10 average sensitivity.

11 THE COURT: Gotcha.

12 And the Black 76 model is accepted in the field?

13 DR. FIORE: Yes. Yes.

14 THE COURT: All right.

15 DR. FIORE: It is the, along with the Black-Scholes
16 model it is the benchmark for option pricing.

17 THE COURT: Benchmark is a loaded term here.

18 All right. Anything else that any of you wants to
19 say, anyone in the back who wishes to be heard at this time?

20 MR. BROCKETT: Happy to answer any further questions.
21 I have no further presentation to make.

22 THE COURT: No. I think you have covered the
23 questions that I had that we need to address today and the good
24 news is that I am prepared to give you my ruling on the motion
25 for approval of the settlements themselves so I will proceed to

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1 that now.

2 On May 11th, 2016, December 19th, 2016, and July 12th,
3 2017, I preliminarily approved the settlements with a total of
4 10 defendants in this matter and preliminarily certified a
5 class including, to the extent relevant here, all persons or
6 entities who entered into, received, or made payments on
7 terminated, transacted in, or held an ISDAfix instrument
8 defined in the relevant papers during the period from January
9 1st, 2006 to January 31st, 2014 inclusive. And you can look at
10 docket no. 228 paragraphs 2 and 3, for example, for that; also
11 docket nos. 337 and 492.

12 On October 24, 2017, I approved a plan of notice and
13 preliminarily approved a plan of distribution. See docket
14 no. 521. On March 30th, 2018, lead plaintiffs and lead counsel
15 filed motions for final approval of the class action
16 settlements and for an award of attorneys fees and expenses.
17 See docket nos. 601 and 613. The motions are unopposed.
18 Additionally, as Mr. Brocket emphasized, there have been no
19 objections to the class action settlement and only six requests
20 for exclusion.

21 Upon review of plaintiff's motion papers, the motion
22 for final approval of the class action settlement is granted.
23 As an initial matter, I find that the notice provided with
24 notice packages mailed to over 58,000 potential settlement
25 class members, summary notice published between January 19th

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1 and 22nd, 2018 in various publications, and the maintenance of
2 a settlement website, among other things, satisfies the
3 requirements of both Rule 23(e)(1) and the due process clause.
4 I also find that the proposed settlement class meets all of the
5 requirements of Rule 23(a) and satisfies the requirements of
6 Rule 23(b)(3) substantially for the reasons stated in
7 plaintiff's first preliminary approval motion. See docket
8 no. 221 at 20 to 24. I repeat that that has no bearing on my
9 adjudication of the still pending motions for class
10 certification with respect to claims asserted against the
11 non-settling defendants.

12 Finally, I find that the settlement itself is fair,
13 reasonable, and adequate. Rule 23(e)(2) requires as a
14 precondition to approval of a settlement that would bind class
15 members that the Court find, after conducting a hearing, that
16 the settlement is "fair, reasonable and adequate." In
17 conducting the review mandated by that rule I have a duty to
18 "make a considered and detailed assessment of the
19 reasonableness of proposed settlements." *Weinberger v.*
20 *Kendrick*, 698 F.2d 61, 82 (2d Cir. 1982). Generally, as part
21 of that inquiry, a District Court must "consider many factors
22 including the complexity of the litigation, comparison of the
23 proposed settlement with the likely result of litigation,
24 experience of class counsel, scope of discovery preceding
25 settlement and the ability of the defendant to satisfy a

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1 greater judgment." In Re: Drexel Burnham Lambert Group, 960
2 F.2d 285, 292 (2d Cir. 1992) citing City of Detroit v.
3 Grinnell, 495 F.2d 448, 463 (2d Cir. 1974); see also, Charron
4 v. Wiener, 731 F.3d 241, 247 (2d Cir. 2013) observing that
5 Courts within the Second Circuit evaluate the substantive
6 fairness of a class action settlement using the so-called
7 Grinnell factors.

8 Here, virtually all if not all of those factors call
9 for approval as in any complex antitrust case and suffice it to
10 say I think this is on the complex end of the spectrum.
11 Plaintiffs faced considerable risks in proceeding all the way
12 to judgment. That risk was exacerbated by the complexity of
13 the sophisticated financial instruments involved in this case,
14 the nature and size of the derivatives market, and the number
15 and resources of the defendants. While I largely denied second
16 and third rounds of defendant's motions to dismiss with respect
17 to the antitrust claims, had the case proceeded to final
18 judgment there is no guarantee that plaintiffs would have
19 satisfied their burdens of proving the existence of an
20 antitrust conspiracy, injury, causation and damages. That is
21 confirmed, or my conclusions on that score are reinforced by
22 the fact that in the pending class certification and related
23 Daubert motions in the ongoing litigation against the not
24 settling defendants, nearly every element of both Rule 23 and
25 plaintiff's theories of impact and causation have been

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1 contested and, suffice it to say, my engagement with those
2 motion papers, the many hundreds if not thousands of pages of
3 them, certainly gives me a firm basis on which to conclude that
4 the matters here are complicated and plaintiff's success was by
5 no means guaranteed with respect to the settling defendants.

6 Second, although the parties didn't engage in formal
7 discovery before the first order of preliminarily approving
8 settlement, plaintiffs did litigate two Rule 12(b)(6) motions
9 and engage experts early on to assess the range of each
10 settling defendants' exposure to liability. That is enough for
11 plaintiffs to have had an adequate, quote unquote, appreciation
12 of the merits of the case before negotiating. *Morris v.*
13 *Affinity Health Plan*, 859 F.Supp.2d 611, 620 (S.D.N.Y. 2012).
14 Moreover, since the settlements' preliminary approval,
15 plaintiffs have obtained discovery for both settling and
16 non-settling defendants and engaged in motion practice against
17 the non-settling defendants allowing plaintiffs and counsel to
18 check and confirm the value of the settlements.

19 The results of the settlements speak for themselves.
20 Plaintiffs obtained \$408.5 million in settlement proceeds
21 representing, as Mr. Brockett stressed, 28 to 59 percent of the
22 expected trial demand, albeit perhaps not with the possibility
23 of trebling, and plaintiffs obtained additional value on top of
24 the \$408.5 million in the form of confirmatory discovery and
25 cooperation which has informed and assisted plaintiffs' ongoing

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1 litigation with respect to the non-settling defendants. I
2 don't think we discussed whether and to what extent one can put
3 a monetary value on that, and cooperation and confirmatory
4 discovery, but suffice to say it does increase the value of the
5 settlement beyond the 408 number.

6 Additionally, the class is more than capably
7 represented by Quinn Emanuel, Robbins Geller and Scott & Scott
8 which have substantial experience in securities class actions
9 and, having read many pages of your submissions, I can
10 certainly vouch and confirm that you are highly qualified
11 counsel in this matter. And, as I noted, no class member has
12 objected to the settlement and only six have opted out. A
13 pretty extraordinary response particularly given the
14 sophisticated nature of the class members in this case. See,
15 for example, In Re: Credit Default Swaps Antitrust Litigation,
16 2016 WL 2731524 at page 8 (S.D.N.Y. April 26, 2016).

17 Finally, the settlement resulted from arm's length and
18 hard-fought negotiations between highly-experienced counsel.
19 The involvement of Judge Phillips in mediating between lead
20 counsel and at least some of the settling defendants which
21 helped lead to the settlements with HSBC and UBS, at a minimum,
22 provides additional confirmation of the reasonableness of the
23 settlement.

24 In the final analysis, I find that only one Grinnell
25 factor ultimately weighs against approval, or arguably does,

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1 and that is the ability of the defendants to withstand a
2 greater judgment as there is little doubt here that
3 defendants -- some of the world's largest and most successful
4 banks -- could withstand greater judgments. But, in litigation
5 of this nature, that factor does not weigh heavily in the
6 balance. See, for example, *In Re: Veeco Instruments, Inc.*
7 *Securities Litigation*, 2007 WL 4115809 at page 14, (S.D.N.Y.
8 November 7, 2007), and that is particularly so given the
9 substantial non-monetary benefits that plaintiffs obtained from
10 the settling defendants. See *In Re: Pressure Sensitive label*
11 *Stock Antitrust Litigation*, 584 F.Supp.2d 697, 702, (M.D. Pa,
12 2008).

13 Finally, although it may be the closest question that
14 I am presented with, I find that the plan of distribution is
15 reasonable and rational. In doing so, I recognize that in
16 cases of this sort, "the apportionment of a settlement can
17 never be tailored to the rights of each plaintiff with
18 mathematical precision." *In Re: PaineWebber Ltd. Partnerships*
19 *Litigation*, 171 F.R.D. 104, 133 (S.D.N.Y. 1997). Indeed, doing
20 so would undermine one of the principal goals of a plan of
21 distribution which is, 'the equitable and timely distribution
22 of a settlement fund without burdening the process in a way
23 that will unduly waste the fund." That is, *Credit Default*
24 *Swaps Litigation*, 2016 WL 2731524 at page 9. Balancing those
25 considerations, a Court "need only meet the standards by which

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1 the settlement is scrutinized, namely it must be fair and
2 adequate. A plan need only have a reasonable, rational basis,
3 particularly if recommended by experienced and competent class
4 counsel." That is from the same page.

5 Measured against those standards, the plan of
6 distribution here passes muster. It is, of course, recommended
7 by experienced and competent class counsel aided by a
8 well-credentialed expert in the field, and I thank Dr. Fiore
9 for his assistance in helping me understand the basis for the
10 formulas that were used. There, obviously again, have been no
11 objections even though the class members are sophisticated
12 parties and I am persuaded that the division of the class into
13 pools and using the relevant multipliers to account for the
14 relative strengths and weaknesses of each pool's claims is fair
15 and adequate and a rational and reasonable way to approach the
16 matter given the totality of the circumstances. See, for
17 example, In Re: WorldCom, Inc. Securities Litigation, 388
18 F.Supp.2d 319, 343 (S.D.N.Y 2005) "settlement proceeds may be
19 allocated according to the strengths and weaknesses of the
20 various claims possessed by class members." The plan would
21 certainly or might not suffice if this were the damages phase
22 of a trial as the contrast with the expert report submitted by
23 Dr. Pirrong would suggest. But, given the extreme complexity
24 and practical limitations of this case, given the standards
25 that apply at this stage of the case, I find that it is a

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1 reasonable and rational way to distribute the settlement fund.
2 Accordingly, I approve the plan of distribution.

3 So, with that, I grant the motion for approval of the
4 settlements. I will defer judgment with respect to the motion
5 for attorneys fees. I am happy to leave it open-ended and,
6 just on the theory that you have some interest in moving
7 forward with that when the time comes, leave it to you to tell
8 me when you think it would be appropriate. I should also say
9 that I'm open to the idea that an award of attorneys fees in
10 part or payment of some or all expenses in part would be
11 appropriate. That is to say that we could approach it on some
12 interim basis if things carry on with respect to the remaining
13 claims in this case. But, I will leave that to you to raise
14 with me in a timely fashion. Maybe the thing to do is to
15 submit a letter or letter motion to me proposing how you think
16 we should proceed at the relevant time and assuming that I
17 agree, we can go from there.

18 Does that make sense?

19 MR. BROCKETT: Very good. Yes.

20 THE COURT: You did submit proposed final judgments
21 and orders with respect to each of the settling defendants.
22 Did you submit those in Word format or just in pdf format to
23 orders and judgments? Does anyone know?

24 MR. BROCKETT: I believe we just submitted pdfs, your
25 Honor.

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1 THE COURT: If you don't mind, later today perhaps --
2 I don't think they'll be docketed today given the time of day
3 it is, but if you can submit them by e-mail to my chambers in
4 Word format so it makes things easier in the event I want to
5 make any changes to them?

6 MR. BROCKETT: Okay.

7 THE COURT: But, with that, I congratulate everybody
8 here. This is certainly a very complicated matter and I
9 commend you all on your efforts to arrive at today's result,
10 and I do think that it provides substantial benefits to the
11 class and for that reason I am pleased to approve and grant the
12 motion for approval.

13 Anything else?

14 MR. BROCKETT: Nothing from the plaintiffs, your
15 Honor.

16 THE COURT: All right. In that case, I will step down
17 from the bench to let you all clear out. I do have another
18 matter so I would ask you to get out as fast as you can.

19 With that, congratulations and thank you.

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