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BEFORE THE
FEDERAL ENERGY REGULATORY COMMISSION

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IN THE MATTER OF: : Docket Number:
ELECTRIC CREDITWORTHINESS STANDARDS : AD04-8-000
:
CREDIT RELATED ISSUES FOR ELECTRIC :
TRANSMISSION PROVIDERS, INDEPENDENT :
SYSTEM OPERATORS, AND REGIONAL :
TRANSMISSION ORGANIZATONS :

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Commission Meeting Room
Federal Energy Regulatory
Commission
888 First Street, N.E.
Washington, D.C.

Tuesday, July 13, 2004

The above-entitled matter came on for technical
conference, pursuant to notice, at 9:30 a.m., Dave Perlman,
presiding.

1 APPEARANCES:

2 TOMMY LEE

3 THOMAS FOSTER

4 DAN SARTI

5 TRICIA HARROD

6 ROBERT KLEIN

7 GARY P. MAZO

8 RAJESHWAR G. RAO

9 MICHAEL THOMAS

10 TOM ZAREMBA

11 J. KENNERLY DAVIS, JR.

12 SCOTT MILLER

13 ROBERT LUDLOW

14 ALAN YOHO

15 THORN DICKINSON

16 BILLY DIXON

17 DANIEL A. DOYLE

18 PATRICK McCULLAR

19 FRANCIS PULLARO

20 SCOTT STRAUSS

21 PETER AXILROD

22 MARY DUHIG

23 JOHN FLORY

24 TOBY HSIEH

25

-- continued --

1 APPEARANCES CONTINUED:

2 ROBERT LEVIN

3 MICHAEL SCHUBIGER

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P R O C E E D I N G S

(9:30 a.m.)

1
2
3 MR. PERLMAN: Good morning, again. My name is
4 Dave Perlman, from the FERC Staff, from the Office of
5 General Counsel.

6 I'd like to thank you all for coming down today
7 to help us better understand the issues related to credit in
8 the area of electric transmission service, and RTO and ISO
9 markets, and other potential solutions to addressing these
10 issues, beyond those that are in place today.

11 I'm joined by a number of Staff people here who
12 have all been working on these issues. I won't go through
13 the names, because you can read the name tags, but hopefully
14 between the folks here at the table and the presenters, we
15 can have a lively discussion, and, at the end of the day,
16 we'll have an opportunity for public comment and for other
17 issues to be raised as well.

18 So, let's hope that everybody gets to have their
19 say, and we can have the issues fully aired.

20 What we're going to do today is have -- I believe
21 it's four panels. The first panel is made up of the
22 gentlemen who I will introduced in a minute, who are going
23 to help us by not only having discussion with us, but more
24 importantly, provide us with some information on how their
25 companies implement the credit provisions of their OATT

1 tariffs.

2 As you all know, the OATT tariffs are relatively
3 vague and broad and leave it to the transmission provider,
4 in general, to provide competent, professional credit
5 standards and credit analysis of customers, with the
6 opportunity for any problems to be brought to the
7 Commission's attention.

8 The Commission has instituted a Notice of
9 Proposed Rulemaking with respect to standardization and more
10 transparency for gas transmission service, and that was one
11 of the reasons that we thought we would look into the
12 question with respect to electric transmission service, as
13 well.

14 So, without much more ado, I'd like to get this
15 panel started, and we can learn how Duke Energy,
16 MidAmerican, and Arizona Public Service undertake their
17 responsibilities under the OATT.

18 Today we're going to have Mr. Tommy Lee from
19 Duke; Thomas Foster from MidAmerican; and Dan Sarti from
20 Arizona Public Service, give us a little presentation and
21 tutorial, I hope, on how they go about undertaking these
22 responsibilities. With that, I'll ask Mr. Lee to get us
23 started.

24 MR. LEE: Thanks. I certainly appreciate the
25 opportunity to take part in this technical conference and to

1 share our thoughts on credit-related issues for electric
2 transmission providers, and to entertain any comments or
3 questions you guys have.

4 In a summary position statement, I'll start with
5 our slides. I don't know if it's turned on yet. There we
6 go.

7 (Slides.)

8 MR. LEE: First, I'd like to start off by saying
9 that Duke Energy Corporation is certainly committed to
10 maximizing opportunities and access for all our existing and
11 prospective transmission providers and customers. It's
12 imperative that we get the customers. That's our first and
13 foremost goal. We don't want to deny access and we want to
14 find every way possible to provide them access in a
15 competitive way.

16 Duke is certainly in support of continued
17 utilization of the existing, and what we see as necessarily
18 flexible OATT tariff language. Duke Energy Corporation
19 utilizes a consistent, inhouse credit review process, which
20 I will go into in a little more detail momentarily, to
21 determine our creditworthiness of existing and prospective
22 customers.

23 Now, we certainly believe that maintaining
24 flexibility is an absolute necessity to effectively manage
25 various balance sheet structures, unforeseen credit events

1 and risk events, and different risk components of companies
2 in an variety of industry sectors, even within the
3 electricity industry.

4 Just a summary of our credit review process:
5 Duke Energy Corp. performs periodic analysis of a
6 counterparty's creditworthiness for existing and/or
7 prospective customers. The frequency of those reviews that
8 we perform are dependent upon exposure and/or the
9 counterparty's internal risk rating, which I'll define in
10 more detail in a moment.

11 We go through a rigorous process and undertake it
12 to establish an internal risk rating for a legal entity in
13 question who is seeking service. We underwrite that
14 counterparty and provide what we call an unsecured threshold
15 to that counterparty, based on our ratings analysis.

16 If the review warrants and unsecured threshold,
17 then we'll receive an unsecured threshold; if it does not,
18 we go to other measures to determine what, if any, security
19 is required, and that is inclusive of finding out and
20 determining whether or not parental support is needed in the
21 form of a guarantee as a first call before we go after
22 security.

23 Determination of that required security is then
24 made, based on further review and/or direct negotiations
25 with the counterparty. Most of the security is going to

1 come in the form of, as you well know, letters of credit or
2 cash, when it's deemed necessary.

3 Real quickly, just how we establish or internal
4 risk rating: We rate the legal entity on a scale of one to
5 eight. The rating generally -- and I specify generally --
6 maps to an S&P or Moody's Senior Unsecured Equivalent.

7 However, the counterparty's actual S&P or Moody's
8 rating, if it has one, will not always match the internal
9 risk rating determined by Duke, due to the potential for
10 divergent views from, let's say, S&P or Moody's on items
11 such as the financial structure and the risk of the
12 financial structure for that particular legal entity,
13 liquidity risk, access to capital, access to capital under
14 stress events, market risk, obviously, regulatory risk,
15 event risk. Certain events in the market may occur prior to
16 S&P and/or Moody's reflecting that in their ratings through
17 a downgrade, a credit-watch negative, outlook negative,
18 whatever the case may be.

19 And then there is the flexibility needed to
20 combine all of these elements and to make a prudent
21 management decision. The chart on this slide, just so you
22 know, shows how it generally maps in terms of our internal
23 risk rating, Categories 1 through 8. You can't see the 8,
24 but it's below a double-C-plus or CA from Moody's,
25 respectively.

1 Just in summary, why the need for flexibility?

2 Well, we also rate or review non-rated companies, so an S&P
3 or Moody's matrix is not going to always work.

4 We talked about all the different risks that are
5 inherent in different businesses. In different regions, you
6 have state regulatory risk that differs vastly from state to
7 state and region to region.

8 You also have significant differences in the
9 industry classifications, even within the electricity
10 industry. You can go as broadly to say manufacturing
11 services certainly have different financial profiles, risk
12 profiles, et cetera.

13 Within our own industry, you have the balance
14 sheet structure that's very different between a utility
15 versus a cooperative or a municipality. Then you have the
16 differences between the utility and the merchant player and
17 the risks and various risks that they represent and they
18 hold.

19 Once again, just reemphasize, state regulatory
20 framework, reserve margins of utilities and these fuel
21 procurement costs, volume of transactions they do, trading
22 book, if they have one, portfolio of credit risks with their
23 customers, all these things are requisite requirements and
24 things that we review and that we need flexibility in, and
25 that we believe it's impossible to fully standardize in an

1 objective fashion.

2 As a summary, I guess, you know, our standardized
3 methodology for evaluating creditworthiness, internally,
4 works for us. It's consistent, but attempting to apply that
5 universally in an objective way, is going to be very hard.
6 It eliminates necessary flexibility for us to make prudent
7 management decisions.

8 We think it may present additional otherwise
9 manageable risks to the transmission providers, ourselves,
10 in this instance.

11 Internal policy and governance within Duke Energy
12 certainly ensures a consistent application of analysis
13 across all existing and prospective customers, and we feel
14 that that's something that works for us and should continue
15 to work.

16 So, I'll turn it over to Tom, just to go through
17 our presentations.

18 MR. PERLMAN: Actually, before we do that, Mr.
19 Lee, would you mind going back to your slide that says
20 "Establishing Internal Credit Risk Rating"?

21 MR. LEE: Uh-huh.

22 MR. PERLMAN: Can you give us a little more full
23 explanation of how -- what you mean by these bullets on the
24 left -- Financial Structure/Risk -- and how you go about
25 evaluating those?

1 MR. LEE: I think that the best example I can
2 give for the first bullet is the financial -- for financial
3 structure and risk, is to compare a utility and the leverage
4 on their balance sheet, and the capital structure on their
5 balance sheet, with the municipality or a cooperative and
6 the leverage and the ratios that come out of the balance
7 sheet structure when you're analyzing it.

8 If you look at FFO to total debt, if you look at
9 U.S. requirements for debt service coverage for a
10 cooperative, it is vastly different, despite the rating,
11 than it would be for a utility who has, let's say, a 50-
12 percent debt-to-total-capital ratio.

13 That's the most obvious example I can see of
14 where balance sheet structures are vastly different, but
15 because of the regulatory framework, the potential
16 structuring, et cetera, you're going to be comfortable with
17 either of those credits, because you understand the other
18 risks that those businesses present.

19 Liquidity risk --

20 MR. PERLMAN: Can you give us an example of an
21 entity that, as a result of this analysis, would be
22 considered risky, that has a financial structure that is a
23 risk?

24 MR. LEE: Yes, certain of the -- I guess one of
25 the examples I could give right off the bat would be certain

1 of the merchant players who have experienced credit
2 downgrade because of the risk inherent in their business,
3 their portfolio trading book, excessive or deemed to be
4 excessive leverage as a result of the way they finance
5 themselves.

6 Without giving any names, there are a number of
7 them out there that are in the high-risk, high-yield
8 category, if you compare them to an S&P or Moody's
9 equivalent, so that would be the example that I would give
10 right off the bat.

11 The next couple of bullets, just to answer your
12 question further, liquidity risks or access to capital;
13 access to capital under stress is one of the things we look
14 as -- you know, how big is their trading portfolio, to the
15 extent that we have access to that information.

16 We do a series of analyses internally of stress
17 and certain events of our trading book, and certainly look
18 to do the same to see what the adverse credit event, coupled
19 with an adverse market event, if there were a price spike or
20 something like that for a merchant player, you know, how
21 that would affect their creditworthiness. Do they have the
22 liquidity they require to continue to operate and not be
23 deemed to be a huge risk to us, where we would otherwise
24 require security.

25 Regulatory Risk: Do you have a fuel clause? Can

1 you pass through your fuel costs? Do you bear the risk of
2 spiking gas costs that could have an adverse effect on your
3 cashflow as a utility?

4 What do the state commissions provide for in
5 terms of, you know, different cost of service return on
6 capital, allowed return on capital, et cetera, et cetera.

7 Event risk could be an event in the market, a
8 default on a particular PPA or contract, bankruptcy prior to
9 a rating agency acting or something like that, and you see
10 it and you have to deal with that risk, so you can imagine
11 the number of event risks that could potentially occur, that
12 we would like the flexibility to be able to manage ourselves
13 on an objective criteria.

14 MR. PERLMAN: Finally, do you take all these and
15 create some sort of numerical scoring or something like that
16 to manage them?

17 MR. LEE: The internal risk rating is the
18 numerical scoring. We have a credit model, and that's only
19 one piece, I should say. We have a number of inputs that go
20 into our internal risk rating, David -- a numerical credit
21 score, based on a spreading tool we use.

22 We obviously look at the S&P and Moody's
23 analysis, the regulatory environment, and we put that all
24 into a model and come out and get the risk rating. P-7 is
25 an actual financial spread scoring tool, which is different,

1 based on the industry type or the company type we deal with,
2 because, you know, if you ran a traditional score using the
3 same ratios for a cooperative as you did for a utility, it
4 wouldn't score as well, but we take that into consideration,
5 based on the allowable coverages and the balance sheet
6 structure that's inherent in, let's say, cooperatives'
7 financial structure and capital structure.

8 MR. PERLMAN: Thank you. Why don't we move to
9 Mr. Foster?

10 MR. FOSTER: Good morning. My name is Tom
11 Foster, and I'm employed by MidAmerican Energy in the
12 position of Director of Investments and Regulatory Finance
13 and Analysis.

14 My task here today will be to briefly outline our
15 credit practices that we are filing when addressing requests
16 for transmission services. And the goal of those practices
17 is, first of all, to sell transmission capacity and increase
18 the utilization of MidAmerican's assets, but, secondly, to
19 reasonably minimize the risk of default by counterparties on
20 these transactions.

21 (Slides.)

22 MR. FOSTER: First of all, I'll just briefly talk
23 about what kind of documentation is in the MidAmerican
24 request. To implement our credit review procedures,
25 MidAmerican will review and, if it's unable to obtain copies

1 of the filing materials on its own, it will request copies
2 of financial ratings reports covering the applicant's
3 current financial condition and the senior bond ratings from
4 each national rating organization; audited financials for
5 the past three to five fiscal years, and unaudited, interim
6 financial statements, monthly or quarterly for the most
7 recent period available, if the annual financial statements
8 are more than six months old.

9 MidAmerican may also obtain information from
10 other public sources to supplement its credit review,
11 including the applicant's websites, SEC filings, research
12 reports prepared by fixed-income and/or equity analysts
13 employed by various investment banks.

14 If the applicant does not have credit ratings
15 from any national rating organization or does not have
16 stand-alone financial statements, but is willing to provide
17 a parental guarantee from an affiliated entity that does
18 have such credit ratings and financial statements,
19 MidAmerican will review that material.

20 While MidAmerican strongly prefers audited
21 financial statements as a basis for credit review,
22 consideration is given to unaudited financial statements,
23 provided they are certified in writing to be true and
24 correct by an appropriate official of the applicant.

25 How is this documentation then employed? The

1 application for transmission service, which is available on
2 MidAmerican's OASIS site, discloses that adequate assurance
3 of payment is assumed if the senior debt of the applicant is
4 rated investment grade by one of the national rating
5 organizations.

6 However, MidAmerican recognizes that an applicant
7 may not have credit ratings from any national rating
8 organization, or may have credit ratings from one or more
9 rating organizations that are below the level commonly
10 referred to as investment grade.

11 In such a case, MidAmerican will assign an
12 internal credit rating to an applicant. In assigning its
13 internal credit rating, MidAmerican will seek to apply the
14 same quantitative and qualitative measures referenced by the
15 various national rating organizations in their published
16 rating methodologies for comparable entities.

17 For example, MidAmerican will compute a variety
18 of financial ratios for the applicant, including measures of
19 financial leverage, debt service coverage, and
20 profitability. The ratios computed by MidAmerican are then
21 compared to a range of benchmark ratios established by the
22 national rating organizations that are correlated with the
23 credit ratings assigned by those entities.

24 Qualitative factors considered by MidAmerican
25 include the applicant's history and nature of operations,

1 competitive position, ownership structure, management
2 quality, as well as the size, nature, and term of the
3 services being sought from MidAmerican.

4 MidAmerican will not automatically determine that
5 an applicant is not creditworthy, if it has a credit rating
6 from one or more national rating organizations or a rating
7 assigned by MidAmerican that's slightly below investment
8 grade.

9 For such applicants, MidAmerican will consider
10 the trend of key financial factors and may determine that an
11 applicant is creditworthy, if its prospects appear
12 favorable, or reasonably stable, relative to the size,
13 nature, and term of the services being sought from
14 MidAmerican.

15 Monitoring of the applicant's credit rating is an
16 ongoing process. MidAmerican currently does not have a
17 schedule for formally revisiting an applicant's rating.
18 Ratings are revisited as conditions warrant.

19 If the applicant is not considered creditworthy,
20 MidAmerican will request that collateral be posted.
21 Acceptable collateral takes the form of an unconditional and
22 irrevocable letter of credit drawn on a bank acceptable to
23 MidAmerican.

24 In the interest of time, I won't elaborate on all
25 of those terms and conditions, but they are on MidAmerican's

1 OASIS site, if you care to check those out. It might be
2 worth mentioning, however, that default under a letter of
3 credit is defined in the Open Access Transmission Tariff,
4 and the rights and remedies of the parties are described
5 therein.

6 Finally, a couple of other issue that I believe
7 this panel was asked to address, so I thought I would throw
8 those in here, if I may: It's MidAmerican's understanding
9 that this panel was to touch on creditworthiness policies
10 needed to preserve discretion and flexibility and what
11 qualitative factors the transmission provider should have
12 discretion to consider.

13 Just last month, Standard and Poor's published
14 revised financial guidelines for the utility industry. In
15 it's publication, S&P made the following statement, and I
16 quote here, "Again, ratings analysis not driven solely by
17 these financial ratios, nor has it ever been. In fact, the
18 new financial guidelines that Standard and Poor's is
19 incorporating for the specified rating categories, reinforce
20 the analytical framework whereby other factors can outweigh
21 the achievement of otherwise acceptable financial ratios.

22 These factors include: Effectiveness of
23 liability and liquidity management; analysis of internal
24 funding sources; return on invested capital; accuracy of
25 projected performance versus actual results, as well as the

1 trend; assessment of management's financial policies and
2 attitude toward credit; and corporate governance practices,"
3 close quote.

4 I believe Moody's Investor Service also filed
5 some comments in this docket, and reinforced or also spoke
6 to the need for judgment in credit review, and that the
7 process does not lend itself well to standardization.

8 There were also some comments filed in the
9 docket, attempting to define transparency of the process.
10 And, roughly, the definition, as I gathered from a couple of
11 these comments, was that, given a set of financials, the
12 process would be so well defined and structured that we
13 would all get the same results.

14 But credit analysis just doesn't work that way,
15 and I think Tommy Lee was pretty -- laid that out very well.
16 Financials are only where you start the analysis.

17 You may have unfunded pension liabilities; you
18 may have leases; you may have purchase power contracts; you
19 may have firm point-to-point contracts or network contracts.
20 All of these represent some type of financing that someone
21 else has given to this applicant.

22 You may or may not want to consider those, but
23 chances are, you need to look at that, and you may need to
24 impute interest to their income statement; you may need to
25 impute leverage to their balance sheet, and you need the

1 flexibility to be able to do that.

2 The point here is that good credit analysis
3 employs quantitative and qualitative factors in arriving at
4 credit ratings. In fact, credit ratings are not driven
5 solely by quantitative financial ratios; they never have
6 been.

7 Furthermore, qualitative factors can outweigh the
8 quantitative metrics. No matter how sophisticated your
9 quantitative analysis, credit still comes down to the four
10 Cs of credit: Character, collateral, capacity, and
11 conditions.

12 The panelists were also asked what evidence there
13 might be that their credit policies were nondiscriminatory.
14 MidAmerican would submit that it believes its credit
15 practices with respect to transmission services, are
16 substantially similar to the credit practices employed
17 generally by other transmission providers, and they are
18 reasonable and in accordance with standard commercial
19 practice.

20 Furthermore, MidAmerican is unaware that any
21 applicant has ever questioned or complained about
22 MidAmerican's credit practices. That concludes my prepared
23 remarks.

24 MR. PERLMAN: Can I ask you, as I asked Mr. Lee,
25 to give us a little more specificity on how you meld those

1 objective and qualitative components when you consider the
2 credit that you would offer an applicant for transmission
3 service. Do you have some sort of mechanisms where you
4 score them? Do you have a standardized process that you use
5 internally, or is it more of an art than a science?

6 MR. FOSTER: Well, I hesitate to go so far as to
7 say "art," and I'd like to say more science, but the honest
8 -- the way the process works is, we do have or attempt to
9 score people, similar to the Standard and Poor's ratings.

10 We're going to look at the same type of ratios,
11 and try to look at the same kind of business positions and
12 qualitative factors that S&P would look at. Similar to the
13 way they look at things, we attempt to try and put people
14 into different pigeonholes, as far as is that an A-credit;
15 is that a triple-B credit; is that a double-B credit?

16 That analysis is difficult. It does take some
17 abilities to be able to look at those financials, impute
18 whatever else you think you need in there for off-balance-
19 sheet financing, and then at the same time, feel comfortable
20 that management has -- of the applicant -- management is
21 cognizant of credit quality.

22 Many times, management is divided between are
23 they worried about their bondholders; are they worried about
24 their stockholders, and from a credit point of view, you
25 want a management that's worried about its bondholders.

1 MR. PERLMAN: You also mentioned that one of the
2 things you evaluated was whether their prospects appear to
3 be favorable. I'm not quite sure what that means. Could
4 you elaborate a bit?

5 MR. FOSTER: Well, sometimes there are fallen
6 angels in the marketplace, and sometimes they start to get
7 things turned around. Management does change; they come out
8 of bankruptcy; they've restructured; debt has been set up in
9 a way that they can handle the debt service.

10 So, while the history of the whole situation may
11 look pretty bleak, the trend or the outlook may be favorable
12 enough, given the type of services that they are requesting,
13 that we can live with that credit.

14 MR. PERLMAN: Thanks, Mr. Foster. Why don't we
15 move to Mr. Sarti, and he can tell us about Arizona's
16 policies.

17 MR. SARTI: Great, thank you. As part of my
18 presentation, I'm going to try to elaborate a little bit
19 more on what you've already heard with regard to how we do
20 financial analysis at APS.

21 We kind of separate our analysis into two main
22 structures: One is the quantitative side of financial
23 analysis, in which we look at information that's readily
24 available on financial statements, so it's more of a
25 numbers-based analysis where we can calculate ratios from.

1 The other type of analysis we do, like Tom and
2 Tommy both referred to, is the qualitative side. It's more
3 of sort of the fuzzy analysis, which is more up to the
4 analyst's discretion, but we have built models to try and
5 handle both.

6 On the quantitative side, I've broken it up at a
7 high level, into four main categories. I include
8 profitability, capital structure, cashflow, and financial
9 flexibility. I'll go into these in a little bit more
10 detail.

11 Profitability, really, that's just a measure of
12 the success of the company, how profitable they are. A
13 company that generates more profits has a greater ability to
14 generate equity capital, both internally, and to generate
15 capital externally.

16 Earnings potential ultimately is a reflection the
17 firm's assets. How valuable are the firm's assets?

18 The ratios that I have included in the slides to
19 measure profitability are return on equity and return on
20 capital.

21 Capital structure: What we're really looking at
22 in capital structure is leverage. How leveraged is the
23 balance sheet? How much risk is involved in the balance
24 sheet?

25 Analyzing debt goes beyond just what you see in

1 the numbers on the balance sheet. Tom actually alluded to
2 some of the same things I'm going to allude to -- non-
3 capitalized leases, debt guarantees, purchase power
4 contracts, unfunded pension liabilities. These are all
5 debts that don't necessarily show up in the numbers, but
6 that have to be derived from the notes in the financial
7 statements, but are also important.

8 Cashflow: I think cashflow is probably one of
9 the most important things we look at. It attests to the
10 company's short-term ability to stay in business.

11 Profitability is really more of an accounting
12 concept. Cash is cash. Cash is what you pay the bills
13 with.

14 So, we put a special emphasis on cashflow. When
15 we measure cashflow, we want to measure cashflow against
16 whatever obligations the company has, so we're going to
17 measure cashflow against fixed contractual obligations,
18 capital expenditures, debt maturities, and shareholder
19 dividends.

20 The ratios that I have put up there to measure
21 cashflow are funds from operations to total debt, and EBITDA
22 to interest payments.

23 Finally, there is financial flexibility, which I
24 consider a component of cashflow; it's really external
25 cashflow. It's cash that you can get from outside sources,

1 rather than cash that's generated internally at the company.

2 So, for instance, if you are a publicly-traded
3 company, can you issue more equity to raise cash? How has
4 the equity performed?

5 If you have public debt, what's your capacity to
6 issue more public debt to raise cash? Maybe you have bank
7 facilities, you have a letter of credit facility. How much
8 is that letter of credit facility worth? How much is left
9 in the balance of that letter of credit facility? When does
10 it expire?

11 So, those are some of the key things that we look
12 at on the quantitative side. I would just add that
13 depending on the counterparty you're looking at -- and
14 Tommy Lee referred to this also -- if you're looking at a
15 coop or a muni, for instance, their purpose is not to
16 generate equity capital. That's not what they're in
17 business for.

18 So, profitability potential, maybe you don't want
19 to highlight that as much for a muni or a coop. Maybe in
20 those situations, you want to put more rating on the
21 cashflow and the financial flexibility, so, depending on
22 what type of entity you're looking at, you're going to
23 change your weightings and your measurements just a little
24 bit.

25 So, we have different models for different types

1 of entities.

2 Moving on to the qualitative side -- and some of
3 this has already been referred to by both of the previous
4 speakers -- regulation, how supportive is the regulatory
5 environment? And this specific, of course, to, say, a
6 utility, a muni, a coop. What's their ability, if need be,
7 to raise rates to cover increased costs?

8 As much as a company tries to manage their risks,
9 there are always going to be costs from unforeseen events:
10 If a plant goes down for a substantial period of time, if a
11 distribution facility blows up, maybe a long-term PPA for a
12 fuel supply contract has expired and now fuel prices are
13 three times higher than they were before.

14 Somehow, those costs have to be recovered, and
15 how supportive is the regulatory environment that they're
16 in, when you define a way to quantify that?

17 Regional economic markets is the second bullet
18 point that I've put up there, and there's two components to
19 this, really: One is how diverse is the customer base that
20 you're working with? And this is specifically important for
21 munis and for coops that may deal with a smaller regional
22 economic base.

23 So, other major industries that make up that
24 economic base, what's the outlook for those industries? The
25 other component to that is how much capacity is there,

1 relative to demand, especially for merchant generators?

2 If they are in an environment where there's a lot
3 of capacity, people have built a lot of plants, that's
4 potentially going to put some pressure on their margins and
5 profits. Conversely, are there transmission constraints?
6 If you're operating in an environment where it's tough to
7 get power in and out, that acts as a barrier to entry for
8 other competitors, so maybe that's going to be a positive
9 that has to be weighted.

10 Competitive position, this overlaps a little bit
11 with regional economic markets. It's kind of the same thing
12 in terms of other transmission constraints. That limits the
13 amount of competition that can come into the market.

14 In the case of coops, typically there are service
15 agreements between the coop and its members. And they can
16 be for a certain period of time.

17 Oftentimes, if a member decides to break that
18 service agreement, there's a penalty that has to be paid to
19 the coop, so that's kind of a barrier to entry for those
20 other generators who want to supply to that region.

21 Generating plant efficiency, specifically for
22 merchant generators, that's very important, especially if
23 they are operating in a very competitive environment. The
24 heat rate, what's the heat rate on the plant?

25 A low-cost structure for merchants is going to be

1 critical for them as a competitive generator.

2 Risk management operations, this something we put
3 special emphasis on, due to the fact, as we all know, that
4 the energy markets are volatile. It's important that
5 companies that are participating in those markets have a
6 dedicated risk management operation

7 I separate risk management into two main
8 categories; that is, market risk and credit risk. Market
9 risk is obviously how do you manage large open positions?
10 How big an open position should you have, given the
11 capitalization that you have on your balance sheet?

12 For a company that's not well capitalized, they
13 shouldn't be taking a lot of risk. For a muni or a coop,
14 you know, because their mission is not to built equity on
15 the balance sheet, they shouldn't be taking large amounts of
16 risk; they shouldn't be engaged in spec trading.

17 Credit risk: Is there a credit risk policy
18 that's documented? How well is it enforced? Is there
19 concentration risk among the counterparties in your
20 portfolio? Do you margin with counterparties? If you do
21 margin with counterparties, what capacity do you have,
22 financially, to meet margin costs? That's something that
23 S&P has focused a lot on recently.

24 Control systems is the other critical piece. You
25 can have the greatest market risk department and the

1 greatest credit risk department in the world, but if you
2 can't collect your data, you can't get it on a timely basis,
3 on an accurate basis, it's impossible to manage.

4 And, finally, the last category that I highlight
5 is organizational support. And I've separated this into two
6 main categories: One is core competency. For a utility,
7 for instance, a utility is in the energy business, they're
8 not going anywhere. That's their business.

9 An industrial, on the other hand, may be
10 participating in the energy markets, but since that's not
11 their core business, it's much easier for them to abandon
12 that business and walk away from it.

13 Quality of management: How long has the
14 management been with the company? What's their track
15 record? Have they been other places in the past? What was
16 the track record at those other places?

17 Those are the sorts of questions that you have to
18 ask and they are just as important as the quantitative
19 considerations. So, there has to be some sort of framework
20 in place to measure these, but the measurements aren't
21 something that you're going to be able to get directly from
22 a financial statement.

23 You can't plug a number in from a financial
24 statement for these criteria, so you have to come up with a
25 model. And a certain amount of the analysis done on this is

1 going to be up to the analyst. It's going to be based on
2 his expertise and his opinion.

3 So, we model these the best we can, but to answer
4 the question earlier of is it art or science, we try to make
5 it as scientific as possible, but there's always going to be
6 room in there for analyst opinion.

7 MR. PERLMAN: Just a couple of clarifying
8 questions to finish this up: The one thing you didn't
9 mention was ratings.

10 MR. SARTI: Yes, that's a good point. We do
11 these analyses, regardless of whether there's a rating or
12 not. If there is a rating, obviously that helps us a lot,
13 and if -- our analysis structure is primarily ratings-
14 driven, so a company that has an A-rating from S&P, is more
15 than likely going to be approved under our system.

16 We obviously do the same analysis for every
17 counterparty, so if we see something in one of these aspects
18 that we don't like and maybe the company is in the cusp --
19 maybe they're a triple-B-minus -- we would reserve the right
20 to maybe knock them down, based on something we see.

21 But we are primarily ratings-driven, so we do
22 consider them.

23 MR. PERLMAN: Does that mean it's theoretically
24 possible that you could be investment grade, vis a vis
25 ratings, and still have a credit problem with Arizona Public

1 Service requiring collateral?

2 MR. SARTI: It is possible. It's unlikely, but
3 there is the possibility, yes.

4 MR. PERLMAN: Let me ask one question of the
5 panel, and then I'll turn it over to my colleagues.

6 What I have heard is that there's a lot of
7 judgment and qualitative components that go into these
8 analyses that help you make your judgments with respect to
9 the credit that you afford your applicants for transmission
10 service.

11 And I guess my question is, how transparent do
12 you make your process to them? Is it something that they
13 can go to your website and see? Is it something that can be
14 objectively ascertained, to the degree possible that you can
15 do that, without having to delve through your process or
16 live through your process to know about? Can we start with
17 Mr. Lee?

18 MR. LEE: Currently, Duke Energy does not post
19 its credit process to a website, to OASIS or otherwise. We
20 are fairly transparent in our conversations and
21 communications with our customers and prospective customers
22 in terms of what is required, and that is communicated to
23 them on regular basis, so it's fairly transparent from that
24 perspective. That's the simple answer.

25 MR. PERLMAN: Would you have a problem posting

1 something on the website that would give some granularity to
2 what the OATT says?

3 MR. LEE: I think Duke's thought on that would be
4 that it would be dependent on the level of detail that
5 needed to be posted, but, theoretically, no.

6 MR. PERLMAN: Mr. Foster?

7 MR. FOSTER: Well, almost an echo, I guess, with
8 what Mr. Lee just said. We do not have something that is
9 laid out for someone else to look at, however, it is
10 certainly well explained, I think, to any applicant, and to
11 the extent that they want to ask questions, it's explained
12 to their satisfaction.

13 We keep discussions open, but as I alluded to
14 earlier, it is a situation where we do try to have
15 essentially an S&P sort of backdrop behind this that most
16 applicants are already familiar with, so that when we start
17 to enter into that discussion, it starts to click very
18 quickly, okay, these are the key components and these things
19 will also be considered, and it goes generally very
20 smoothly.

21 I think that it's pretty well explained to
22 individuals when they are willing to come and ask.

23 MR. PERLMAN: And would you have a problem
24 writing up two or three pages on your process and posting it
25 on your website?

1 MR. FOSTER: Well, one, credit quality has not
2 necessarily been a problem in our neck of the woods,
3 fortunately. I think that if we're going to go there, we
4 want to stay reasonably generalized in the process that's
5 going to take place, be careful about the specifics that you
6 want to try to tie somebody down to, because events happen.

7 You could go to a lot of trouble and a lot of
8 hearings and a lot of effort to come up with some
9 standardized template for everyone, and then just as S&P
10 changed here in the beginning of June, the whole template
11 changes on you, and you didn't know that one was coming.

12 MR. PERLMAN: But, just to be clear, I'm not
13 suggesting we do it.

14 (Laughter.)

15 MR. PERLMAN: And obligate you to it. Your
16 process, would you make your own process more transparent
17 and post something about that process?

18 MR. FOSTER: We would attempt to put something
19 there that generally explains the basic framework of how we
20 approach it.

21 MR. SARTI: I would generally echo the comments
22 already made. I guess the one thing I would say regarding
23 posting a methodology, we would probably do it if it was at
24 a high level.

25 The problem with posting a specific methodology

1 is, first, I don't know if there's enough paper to print it
2 all on, given how many different scenarios there are and how
3 many different variables we take into account.

4 But the problem also is that the industry
5 changes, the industry changes constantly, and sometimes we
6 change the models; sometimes we change the weightings, based
7 on the way the industry is going.

8 So, in terms of posting something general, yes.
9 And we have conversations with our counterparties, too,
10 explaining our methodology to them. But, to get too
11 specific, I don't think we'd necessarily want to do that.

12 MR. PERLMAN: Do you have a question, Mike?

13 MR. CHOO: I'd like to follow up with Mr. Sarti
14 on the risk management operations, a clarifying question on
15 that, and if Mr. Foster and Mr. Lee want to address that as
16 well, that's fine.

17 You mentioned that you try to make some judgment
18 on what risk management operations are. What kind of
19 information do you use or do you have available to make that
20 judgment? It seems like risk management is inherently a
21 quantitative kind of assessment, but how do you get to that
22 quantitative information?

23 MR. SARTI: The best way to do that, really, is
24 in conversations that you have with counterparties. It's
25 not something that you can get from the financial statements

1 themselves, per se.

2 The way that I found to be most effective in
3 doing that is, say, if you are margining with a counterparty
4 and you're talking to them on the phone constantly, and
5 their numbers are just drastically different from yours,
6 well, then it appears that there's a problem that either
7 they're not getting their data in a timely manner, of
8 they're not getting it in an accurate manner.

9 Really, interacting with people on a daily basis,
10 going through numbers with them, which we do in the industry
11 all the time on the phone, that's really the best way to get
12 a lot of your information on how well they are managing
13 their risks.

14 MR. LEE: I would echo Dan's sentiments on that.
15 It is really a qualitative analysis. There is, for some
16 companies who have big or substantive risk operations, some
17 disclosures in their financial statements, whether they
18 release daily earnings at risk, DVAR, total credit exposure,
19 how they report that, how much they're willing to report,
20 also tells you how sophisticated their systems are.

21 But I would certainly say that Dan is correct in
22 stating that we have a very active margin desk; we have a
23 very active credit analytics team that is constant contact
24 with the counterparties all the time.

25 We know each other within the industry. We know

1 what kind of systems have been implemented in different
2 companies. We talk about it all the time. We assess the
3 risk that way.

4 It's very complicated to use what I just spoke of
5 in terms of daily earnings at risk or DVAR methodologies,
6 because the methodology to calculate those can be so
7 different and disparate between different firms.

8 So it ultimately ends up being a qualitative
9 analysis at the end of the day, of how well do they do it?
10 How many times are we right with those guys when we're
11 having margin disputes or whatnot?

12 MR. PERLMAN: Just to be clear, you're margining
13 people for OATT transmission service?

14 MR. LEE: Not on an active margin basis. This is
15 in specific reference to counterparties who have merchant
16 operations when we are working with the margin desk on that
17 side to margin the counterparty, who may also be seeking
18 transmission service.

19 The margining --

20 MR. PERLMAN: You're talking about for your other
21 business relationships with them, not for transmission
22 service?

23 MR. LEE: That's correct.

24 MR. TIGER: Are there divisions within your
25 companies between the credit policies for OATT service and

1 your other business activities on the energy market side?

2 It seems like some of the information that you're talking
3 about that you would get, would be coming from those other
4 activities, and I'm wondering if it's a one-way street
5 coming into OATT, or if it --

6 MR. LEE: OATT and transmission credit requests
7 within Duke and within different companies are structured
8 differently, and there's also some code of conduct issues
9 around that that we have to be extremely careful about.

10 We, as Duke, aggregate credit on a consolidated
11 basis. There are only certain corporate individuals that
12 can have that knowledge, and it's not shared with the
13 transmission provider in terms of unregulated versus
14 regulated, versus gas transmission or any other subsidy that
15 a company may have.

16 There are specific practices of transmission. We
17 have credit personnel that request allocations of credit for
18 a counterparty, where we have that exposure on an
19 enterprise-wide basis, in other words, we have exposure in
20 another business unit, regulated or unregulated, so there
21 are specific policy considerations, as well as firewalls,
22 geographical separation and all the relevant things to deal
23 with the potential code of conduct issues that we have, so
24 it's a different process.

25 They do not get that information in terms of that

1 analysis. That sits up in the corporate credit world for
2 Duke.

3 Obviously -- and these guys can speak to it --
4 some folks separate their transmission credit from their
5 unregulated credit, from their utility credit, from a
6 generator perspective.

7 MR. FOSTER: Again, as Mr. Lee has laid out, we
8 do have this separated between the energy side and the
9 transmission side. We don't exchange Christmas cards and we
10 don't talk to one another anymore.

11 At one time, we did, but those days are long
12 gone. Any information that we might be seeking isn't going
13 to come from an internal source. We're either going to get
14 it externally, or from the applicant.

15 There just isn't any conversation between those
16 two divisions.

17 MR. SARTI: I hate to keep using the word, echo,
18 but I would echo those sentiments. We manage our credit
19 exposure at the holding company level. We aggregate our
20 exposure throughout the company, so that we have a good feel
21 for what our risk is throughout the different subsidiaries.

22 So, the information that we get from these
23 counterparties is housed at a central level, and we have
24 code of conduct issues, too, in terms of sharing between
25 subsidiaries, but the information is all housed at one

1 source.

2 MS. PERL: This is for Mr. Foster and Mr. Lee.
3 What I kept hearing in the presentation was flexibility,
4 meaning flexibility on credit policies.

5 And that got me thinking. In your opinion, how
6 would a standardized credit policy harm you or your
7 business?

8 MR. FOSTER: The harm that I guess I'm concerned
9 about is the ability to be able -- that if you're going to
10 set up a very well defined, well structured policy, with, as
11 I was alluding to earlier, this definition of transparency
12 that we would all get the same answer, I would have to
13 object to that in the sense that that just doesn't allow a
14 credit analyst to really do their job to determine whether
15 or not there are things going on that need to be taken into
16 account in that analysis.

17 Till you structure and cast in stone, that a time
18 coverage will be calculated in the following manner and
19 incorporate the following terms, is to -- it doesn't allow
20 you to take into consideration, all of the things that may
21 happen in an evolving marketplace.

22 And it just defies, to me, an ability to try and
23 structure. This is just not one of those things that is
24 easily structured. I'm sorry.

25 MR. LEE: Kelly, I'd like to clarify your

1 question, if I may, first, before I answer it. You said
2 that we preach flexibility in credit policy. I'd like to
3 clarify that by saying our policy is fixed.

4 Within that policy, we publish established
5 guidelines for corporate credit policy. Those guidelines
6 and the methodology we use to assess counterparties within
7 the confines of that policy, are what we are requiring the
8 flexibility to assess.

9 And so with that being said, to answer your
10 question of how does it harm your business, I agree with
11 Tom. I would also say that it harms our business in a
12 standardized methodology, which I think you're referring to,
13 where you would set out objective criteria, objective
14 ratios, no flexibility, potentially, for management
15 assessment of additional risk events such as those that
16 we've discussed today, you lose the ability to act, you lose
17 the ability to react to market events on a timely basis,
18 because of your inability to be flexible in making
19 determinations outside the confines of an established
20 methodology. And that's where we see the significant risk.

21 MR. PERLMAN: Can I ask Mr. Foster a question?
22 Was one of your responses to Kelly that it would be a bad
23 thing if the credit analysis was driven, such that each of
24 you would either fail or pass the same applicant with the
25 same credit structure? You would rather have Duke pass

1 them, MidAmerican fail them, and Arizona ask them for more
2 data. That was the impression that I heard of what you
3 said, so if I got that right, let me know; if I got it
4 wrong, clarify.

5 MR. FOSTER: Well, number one, the structure
6 isn't only going to prevent someone from being disapproved;
7 it might prevent someone from having better quality credit
8 than what they might have possibly have had under some
9 structure that we might come up with.

10 I've lost my train of thought. You were,
11 exactly, asking?

12 MR. PERLMAN: I guess, is it your view that there
13 should be such discretion that each transmission provider
14 could come out with different conclusions with respect to
15 similar credit criteria for a transmission service request?

16 MR. FOSTER: In the end, there should be
17 flexibility that that, in fact, could happen. I can talk to
18 S&P and Moody's -- and not to belabor the point too much
19 here, but they are very skilled in how they are going to
20 analyze MidAmerican's financials.

21 And they know all the footnotes. They know where
22 everything is. They are highly skilled analysts, as well as
23 some folks that we have in our shop that are highly skilled
24 analysts.

25 The three of us won't come up with the same

1 answer. Moody's will be different from S&P, which will be
2 different from MidAmerican, for MidAmerican's financials.

3 Everyone will add a little more for maybe an
4 uncapitalized lease, maybe a little less. Some might say
5 there's a pension problem; some might say there's not.
6 Maybe individually, these things don't mean much; maybe
7 aggregated together, they do.

8 Every analyst just has a different feeling about
9 how much of an adjustment they're going to make, if any, and
10 I would expect that, in fact, there may well be divergent
11 opinions, and that's not necessarily bad.

12 MR. PERLMAN: We're talking about OATT service,
13 and I would think that compared to other types of business
14 risks, if you're dealing with entities like utilities or
15 munis or coops who exist to provide service, and they need
16 to use transmission, even the risk of bankruptcy is not such
17 a terrible thing, because they can get the status of an
18 administrative contract and that sort of thing in bankruptcy
19 because it's -- unless they are going to be liquidating and
20 ceasing to be an electric utility or turn off all the lights
21 on the customers, the transmission provider is going to get
22 paid, and maybe even better in bankruptcy than when they
23 were teetering on the edge.

24 So, is there a different type of credit analysis
25 that you should undertake for entities like that in this

1 type of environment, even with the risk and specter of
2 bankruptcy?

3 MR. LEE: I think that to answer your question
4 directly, David, yes, we undertake a different analysis for
5 those companies today. We look at the risks of bankruptcy,
6 we look at the risks of native load serving and the
7 likelihood that a contract would be assumed, post-petition
8 in bankruptcy, to go to that example.

9 However, event risk event risk. It's binary; it
10 occurs or it doesn't occur. You have to protect yourself
11 from that event risk. You don't know what the outcome is
12 going to be.

13 You do want the ability to, you know, provide
14 access to another transmission customer in the event of a
15 default, and the uncertainty surrounding the process in
16 bankruptcy, to use your example.

17 We do utilize a different process. I mean, part
18 of the risk analysis, the qualitative analysis, as Dan
19 referred to it, is assessment of the regulatory risk, the
20 bankruptcy risk, of the necessity for the particular
21 contracts that they have, et cetera, et cetera, and the
22 ongoing need for transmission service to satisfy those
23 contracts.

24 So, that risk assessment is taken into
25 consideration as part of the financial analysis and the

1 creditworthiness scoring that we do.

2 MR. FOSTER: As we had alluded to earlier,
3 fortunately in our neck of the woods, things are pretty good
4 from a credit perspective. There are some exceptions, I
5 guess, but generally speaking, most parties are in good
6 shape.

7 Just as much as when I look at someone for credit
8 quality, MidAmerican is an exporter of power and so there's
9 going to be -- MidAmerican is going to be looked at by
10 others, as well. So, to the extent that all of that is
11 working well, I guess, together, I think the system is
12 generally well functioning in the Midwest.independent

13 MR. SARTI: I guess to answer your question, I
14 guess you're referring specifically to the case of a
15 utility, a coop, a muni? We're also looking at folks here,
16 a merchant generator who is using transmission service, that
17 merchant generator, if it filed for bankruptcy, may just go
18 away. There may be an exposure there.

19 And with regard to even the utility and the coop
20 and the muni and no exposure, I guess if preferred status,
21 preferred creditor status is sought in one, then perhaps
22 that's true, but maybe that's a better question for a
23 lawyer. I don't know that that, necessarily, is going to be
24 the outcome.

25 MR. PERLMAN: Well, with the credit people

1 deferring to the lawyers, which I'm very impressed to hear,
2 I'd like to thank this panel and move on to the next panel.
3 If I can ask you all to stay around, there may be issues
4 raised that you may want to comment on during the next
5 panel, so if we could just change out seats and then we'll
6 take a break for lunch after the next panel. Thank you.

7 (Recess.)

8 MR. PERLMAN: Let's take our seats again and see
9 if we can get started with Panel 2.

10 (Pause.)

11 Okay, we're going to further discuss the OATT
12 tariff and the credit standards and implementation under
13 that tariff with this panel.

14 On this panel, we not only have transmission
15 providers, but we have customers, so we'll find out whether
16 what we just heard is working as well as was advertized.

17 We also have some transmission providers on this
18 panel who can tell us whether their processes are similar.
19 I know that we have at least one transmission provider that
20 has included more specificity in the OATT than the broad
21 standards that the Commission put out in Order 888.

22 With that being said, we'll just go down the
23 presentations as noted in the agenda, and start with Tricia
24 Harrod from Aquila, who I guess will address this issue from
25 the perspective of a transmission customer. So, thank you,

1 Tricia.

2 MS. HARROD: My name is Tricia Harrod. I am
3 actually the Vice President of Credit Risk Management for
4 Aquila. And Aquila, in listening to a lot of the
5 transmission owners talk about their policies, a lot of the
6 policies are the same.

7 Aquila's policies for the credit scoring pretty
8 much take into the two types, quantitative and qualitative
9 measures. One of things that I would say to that is that
10 there are some things that you can take into consideration
11 that you may not have the correct information on.

12 I mean, it's very hard in the credit industry to
13 be able to know what my risk book looks like. I mean, how
14 are you going to stress my book and what are you going to
15 know, what my risk management policies are. Do you know
16 what my true operations or my credit systems are, you know,
17 how I track things.

18 So, in order to evaluate that and put that part
19 of the scoring, I think it's very hard information that's
20 not necessarily disclosed to be able to put that in there.
21 So, a lot of times, I think your -- you know, you may be
22 evaluating something that you may not truly know what the
23 situation is.

24 And so when we go into standards -- Aquila feels
25 that when -- you know, a lot of ours -- our comments were

1 surrounded -- we wanted standards. And when we say
2 "standards," we don't typically say that one size fits all.
3 We know that there are a lot of things that you have to be
4 able to take into consideration.

5 We're not supportive, just looking at rating
6 agencies' credit ratings, because we feel like there's a lot
7 of other market participants that don't have rating agency
8 ratings, and so there should be a systematic way to be able
9 to use the scoring models, a way that a lot of the
10 transmission owners are using.

11 They should be able to take into consideration,
12 whether or not I can go to regulatory on increased rates, or
13 if I have a law suit pending against me that could possibly
14 put me into bankruptcy, they need to be able to take those
15 considerations, but it's just that we need to be careful
16 that the things that they are taking into consideration when
17 determining my creditworthiness, is truly something that
18 they can factor and have the facts and be able to quantify.

19 So, we do support some type of standards or
20 guidelines to be able to support what are the requirements
21 for you determining whether or not I'm creditworthy. One of
22 the things that I would point to is that Aquila's been very
23 involved with the RTOs for MISO in setting the credit policy
24 and trying to make it transparent, make it
25 nondiscriminatory.

1 We're going to score. We have a different
2 scoring model for an investor-owned utility, versus a coop,
3 versus just a straight merchant or even a financial
4 institution. But you still have those scoring models that
5 are out there. They will be part of the business practice,
6 and the policy is very specific on what it takes to be
7 creditworthy.

8 So, when Aquila has their support against
9 standards, those are the types of standards that we're
10 looking at.

11 I have been doing credit for over 15 years in
12 this industry, and I do know that you've got to -- credit
13 professionals have to be in the market. They have to know
14 what's going on, because there's things that are happening
15 every day that those financial statements are stale dated.

16 They happen every three months, and they come out
17 three or four months after they've come out, so you can't
18 look at old data, just old data; you've also got to look at
19 the future stuff, but you've also got to be able, whatever
20 you're looking at -- you should be able to be transparent
21 with what you're looking at, because the problem that Aquila
22 has come up with is, like, you're below investment grade, so
23 you're not creditworthy, even though I'm the utility, even
24 though I'm the one supplying to the end users, the moms and
25 pops and they have to have that electricity or they have to

1 have the gas, it's still, you know -- I'm being treated like
2 a merchant company, which I was a merchant company at one
3 time, and even now that we're pretty much a seven-state
4 domestic utility, you still have the same merchant credit
5 policies.

6 I think that in Aquila as well -- most
7 corporations have one credit policy. They don't necessarily
8 have a credit policy for the OATT or a credit policy for the
9 interstate pipelines. They typically have a global, because
10 you have to look at your risk globally, and you have to look
11 at credit globally, because what you'll find out, if someone
12 like Enron goes down, then you would possibly have exposure
13 to, you know, three or four of their subs and three or four
14 of your subs, and if you don't manage it in a global
15 perspective, it could be very costly.

16 So, our main position is that, you know, right
17 now in the OATT where it says "reasonable credit review
18 procedures and standard commercial practices." The problem
19 that we have is, there's nothing that's transparent on what
20 those are.

21 And this industry has never really been one that
22 just has straight-out standards, and you can point to it and
23 say we know that this is what they're going to do.

24 There are some transmission owners that look at
25 your credit rating and if you're not investment grade, you

1 don't get credit. They don't look at all of these other
2 things.

3 So, the things that I've heard today as far as
4 looking at all these other scoring models and taking these
5 other things into consideration, I think that's positive. I
6 don't think the rating agencies have always been right.

7 In fact, in the last three or four years, they've
8 been wrong quite a few times. So, I don't think that it
9 should be just looking at one rating. I do think that the
10 scoring model methodology is a good way to go, but I do
11 think that you can make it transparent and you can make it
12 where I know what it takes to get creditworthy again.

13 You know, right now, we're not creditworthy, but
14 one day, we hope to be creditworthy, and I want to know what
15 that matrix is. What is it? Am I going to get to a triple-
16 B-minus and you tell me, oh, well, you know, you've got all
17 of these other things going, so, really, it's a triple-B-
18 flat?

19 We're just asking, you know, to have some kind of
20 standards where we know what field we're operating in.

21 MR. PERLMAN: Thank you, Ms. Harrod. I guess I
22 have one followup, just to make sure I understood what you
23 said. Are you finding when you are seeking transmission
24 service, that the type of analysis that was discussed by the
25 earlier panel, is less likely to occur; it's more likely to

1 be just a question of whether you have an investment-grade
2 rating or not?

3 MS. HARROD: I think that's so in some areas, but
4 Aquila -- I can't speak for the industry as a whole, because
5 Aquila is very unique in the transmission areas that we're
6 in. They are very limited. It's Missouri, Kansas, and
7 Colorado.

8 So, a lot of our transmission, if we need
9 transmission, will go through MAPP, and so we're not
10 necessarily dealing with the individual companies, so it's
11 -- a lot of it are just policies on doing any kind of
12 transactions with different utility companies, whether or
13 not it's transmission or whether or not it's power.

14 And it's my understanding that most utilities
15 have said they really don't change the policy when they are
16 looking at just straight-out electricity sales or
17 transmission; it's all the same policy. So, most of my
18 referral is going to that overall credit policy as a whole.

19 MR. PERLMAN: Thank you. Let's move on to Robert
20 Klein of Pacificorp. Mr. Klein?

21 MR. KLEIN: Thanks. I'm Bob Klein, and I've got
22 group risk responsibility for my Company. Thank you for
23 providing Pacificorp the opportunity to offer a view on how
24 FERC should approach credit issues for service provided by
25 non-independent transmission providers.

1 PacifiCorp operates one of the largest investor-
2 owned open access transmission systems in the United States
3 and is among the largest participants in western wholesale
4 electric power markets. It's with this balanced perspective
5 that I offer the following comments:

6 PacifiCorp supports FERC's efforts to examine
7 utility creditworthy practices. We can understand why
8 entities wanting transmission access, would want easy
9 credit, but entities that own and offer transmission service
10 cannot afford to make risky decisions that endanger
11 customers' rights and system reliability.

12 FERC is right to be concerned that improper
13 credit requirements may impair transmission access, market
14 liquidity, and price transparency.

15 Non-independent transmission providers can and
16 should provide all customers with an objective and
17 transparent credit evaluation program, applied in a fair and
18 nondiscriminatory manner.

19 This is in the best of interest of the market and
20 its consumers. But if discriminatory credit practices are
21 being employed by any non-independent transmission providers
22 to foreclose market access by competitive entities -- and I
23 am not aware of this as a concern in the West -- then
24 appropriate remedies exist, short of turning to national
25 standardization.

1 OATT-based policies and procedures may appear
2 beneficial, but the resultant loss of informed credit
3 flexibility may reduce, rather than promote third-party
4 transmission access as a rigid tariff amendment process will
5 inevitably lead to standards set stringently in the interest
6 of prudence.

7 Further, we know that effective credit risk
8 management works, and we've got the scars to prove that
9 ineffective credit risk management doesn't. In 1998, prior
10 to the implementation of more robust credit standards
11 currently used by most major energy trading participants,
12 the barriers to entry in this market were minimal.

13 Following the significant movements in
14 electricity prices in May and June of 1998, two
15 counterparties with major market positions failed. These
16 failures cost Pacificorp and an affiliate more than \$25
17 million.

18 Pacificorp then implemented a comprehensive
19 credit risk management program and consequently experienced
20 minimal financial losses as a result of both the California
21 market collapse of 2000 and the Enron bankruptcy of 2001.

22 Low historical actual default rates show that
23 credit risk management is working, not that risks to
24 transmission providers are overstated. Pacificorp would
25 respectfully disagree that the threat of transmission

1 customer default is minimal, and that transmission customers
2 and others are being required to over-collateralize their
3 obligations.

4 Pacificorp continually seeks credit solutions
5 that allow it to transact with various classes of market
6 participants, while effectively mitigating credit risk.

7 Turning to alleged barriers to entry, we see no
8 legitimate reason for FERC to prescriptively change the
9 current approach, non-independent transmission providers
10 used to determine credit quality. Credit ratings provided
11 to entities by the rating agencies are not generic, but
12 rather database and highly customized for each rating agency
13 customer.

14 Such ratings are a fair and effective means of
15 measuring the credit risk of entities. The historical
16 evidence is that rating are slow to adjust downward on
17 negative events, and, as such, do not produce excessive
18 collateral requirements. Facilitating broader access to the
19 valuable transmission grid by non-creditworthy participants,
20 creates unfair risks for utility customers and utility
21 shareholders.

22 In closing, Pacificorp urges FERC to remain
23 focused on ensuring proper transparency and comparability,
24 not credit policy, uniformity, or rigidity. FERC should
25 consider requiring publications of credit policies on

1 utility OASIS sites, and that wholesale customers and
2 commissions be formally notified when these policies are
3 modified.

4 In our view, doing so will be preferable to
5 imposing additional OATT requirements, which we believe
6 would be counterproductive and should be avoided. Universal
7 standardization is a bad solution in search of a problem
8 that, at most, may be relatively region-specific or at least
9 not as systemic as critics maintain.

10 Pacificorp firmly believes that greater market
11 participation and protection of the interests of customers
12 and the system can be achieved by employing, fair,
13 nondiscriminatory, yet flexible practices that match credit
14 requirements to the changing circumstances facing individual
15 counterparties.

16 So, thanks for the chance to contribute our
17 perspective, and I look forward to your questions.

18 MR. PERLMAN: I have just one clarifying
19 question. It sounded like what you were saying is very
20 similar to what Ms. Harrod was saying, and that is that at
21 your firm, you look at credit singularly, not with respect
22 to whether there are transmission customer or an energy
23 counterparty? Did I hear that correctly?

24 MR. KLEIN: May I give a small story? We look at
25 -- we evaluate our credit risks in the context of our

1 overall risks. Pacificorp is part of a larger company.

2 The larger company has allocated a certain amount
3 of risk capital to its business for many kinds of risks --
4 legal risks, regulatory risks, but the major risks are
5 market risks and credit risks and operational risks.

6 So, we're exposed the market, to the extent that
7 market prices might change when we need to either fill our
8 position by buying, or dispose of excess energy by selling.
9 We don't know what the price is going to be in the future.

10 We can hedge that risk by dealing with
11 counterparties, selling forward or buying forward. We're
12 then exposed to counterparty or credit risk, or we could
13 build a plant and we're subject to operational risk.

14 So that entire basket is a certain risk capital
15 that our Board has allocated to the Company that is
16 partitioned among market risk and credit risk and
17 operational risk.

18 So, within that, yes, all of our credit risk is
19 aggregated at the corporate level into a total bundle of
20 risk capital that we allocate towards counterparties. And
21 that's a fixed amount.

22 So, the issue is, when that amount gets stressed,
23 what does that do to our credit policy, because, on behalf
24 of our ratepayers and behalf of our shareholders, it's
25 imprudent to expose the Company to excessive counterparty

1 risk, no matter what the counterparty.

2 MR. PERLMAN: Thank you. Can we move now to Mr.
3 Gary Mazo of Progress Energy?

4 MR. MAZO: Good morning. My name is Gary Mazo.
5 I'm the Credit Manager for Progress Energy Service Company's
6 Commodity Credit Issues. I'm speaking today on behalf of
7 Progress Energy, Carolinas, and Progress Energy, Florida,
8 which are also known as Carolina Power and Light and Florida
9 Power Corporation.

10 The pro forma OATT has acceptable credit
11 provisions relating to customers that are a good credit
12 risk, however, in our view, has inadequate protection
13 against customers who do not have good credit profiles or
14 whose creditworthiness changes have changed since they first
15 applied for transmission service.

16 In addition, the OATT provisions do not establish
17 clear creditworthiness standards and do not specify all the
18 available types of credit security that should be
19 considered.

20 Carolina Power and Light previously modified the
21 pro forma OATT in 1997, and at that time, included specific
22 credit standards. However, due to changes in the credit
23 status of many entities in the industry, Progress Energy
24 concluded that it needed to improve its credit security
25 provisions of its OATT.

1 The Company filed its OATT modifications in
2 February of 2003, and ultimately received approval for the
3 credit provisions in August of 2003. Progress developed
4 credit security provisions that we believe ensure financial
5 security for the Company, while providing transparent and
6 flexible creditworthiness standards for its customers.

7 We consulted with our largest customers before
8 making the OATT modifications. One result of the
9 consultation was the development of provisions for customers
10 who do not have commercial credit ratings such as
11 municipalities and rural electric coops that would allow
12 them to demonstrate creditworthiness without the rating.

13 Additionally, Progress adopted security
14 alternatives for customers who did not meet the credit
15 standards.

16 Progress Energy followed four principles in
17 developing the new provisions: First, the provisions must
18 protect the Company against credit risk with respect to its
19 transmission customers, including risks resulting from
20 changes in creditworthiness during the course of the
21 transaction.

22 Second, the provisions must be sufficiently
23 flexible to ensure that all customers, traditional
24 utilities, municipalities, cooperatives, privately-held
25 companies, independent generators and marketers, are

1 eligible to obtain transmission service without either
2 placing the Company at risk or imposing unnecessary
3 financial burdens on the customers.

4 Third, the process of evaluating
5 creditworthiness must be transparent and objective, so there
6 is no basis for objection that the provisions are being
7 applied in a discriminatory manner.

8 Fourth, the provisions must be sufficiently
9 simple and clear that they are not a barrier to obtaining
10 transmission service and do not require the Company or the
11 customer to devote substantial resources to understanding
12 and implementing them.

13 While we believe the provisions that we developed
14 meet these criteria, we are reviewing the impacts of the
15 creditworthiness provisions now that they have been in place
16 for a year. Areas that we're reviewing are, you know, what
17 is the appropriate credit threshold that we should use?

18 Our previous OATT set the limit at single-B,
19 which I think most of us would agree is probably not
20 appropriate. Our current level is at a triple-B-flat, which
21 I think even some participants here would think that's too
22 high.

23 So, we are looking at what is the right level to
24 ensure that the Company is protected. Also, we're looking
25 at whether different levels of service require different

1 credit security. If someone is only buying \$20,000 worth of
2 transmission service, I may be more comfortable with the
3 lesser creditworthiness to do that.

4 But, you know, one of the problems you run into
5 as you try to standardize, it takes that flexibility away.
6 So we are looking at that to see what we can do in our OATT.

7 In closing, Progress does not believe that a one-
8 size-fits-all approach is appropriate for credit security
9 provisions. Instead, a flexible, transparent, objective,
10 and clear set of standards should be developed that protect
11 the transmission provider, and without unduly burdening its
12 customers. Thank you.

13 MR. PERLMAN: Thank you. Let's move on to some
14 customers. I'm going to try your name, and I apologize if I
15 don't get it right. Mr. Rajeshwar Rao is here representing
16 the Indiana Municipal Power Agency. Mr. Rao?

17 MR. RAO: I appreciate that very much. My name
18 is Rajeshwar Rao. I'm President of Indiana Municipal Power
19 Agency. This morning, I'm also representing some of the
20 transmission-dependent utilities in the nationwide --

21 I appreciate your giving us this opportunity to
22 present our side of the views. From the IMPA's side, we
23 have transmission ownership in MISO and also we have some
24 load in PJM area that's coming to AEP.

25 So, we have two different problems coming up, you

1 know, the policies made in the MISO are going to contradict
2 policies made in PJM, unless there is really a standardized
3 policy, it's going to conflict from each of the -- I'll be
4 explaining that in a few minutes.

5 The -- going back into the non-ISO
6 municipalities. We started looking into some of the
7 standardized policies that affect the municipalities, and we
8 concluded that it's got to be flexible, you've got to
9 understand the nature of the municipalities, and I do
10 appreciate the different speakers from Panel 1 coming back
11 and recognizing the fact that the municipalities and coops
12 are different, their financials look different, so they are
13 treated differently for paying out the bills.

14 Some of the flexible policies we're looking at
15 toward coming from Gary Mazo's presentation, normally we
16 don't support all the IOUs from the municipality side, but
17 when we looked at this one, we thought it's got a fair and
18 objective and has recognized the --

19 That way, we concluded that Carolina Power and
20 Light and Florida Power Corp., Progress Energy report
21 recently mentioned, do deal with municipalities fairly, and
22 we do support that.

23 Coming to ISO and -- side, we have major
24 problems. That's what I was talking about, the MISO and PJM
25 side of the issues.

1 Before going into that one, kind of let me
2 explain what is a municipal joint action agency, because of
3 the people, they know municipalities, they know coops, but
4 really they don't know what is a joint action agency, who
5 they are.

6 What happened over the last 25 or 30 years time
7 period, several municipalities in each state formed joint
8 action agencies that combined their cities together and
9 formed an agency, and that agency acquired the resources,
10 acquired the generation sometimes and the transmission and
11 started providing wholesale power supply to the cities.

12 In Indiana we saw municipalities, and we have
13 ownership in generation and we have ownership in
14 transmission, but we don't distribute. We take it to the
15 municipalities.

16 But the municipalities got what we call wholesale
17 agreement signed with the joint action agencies and under
18 that wholesale contract, we saw we had requirements. So, we
19 are responsible for their generation and transmission side.

20 And we take those transmission -- the wholesale
21 contracts and use the collateral to get some debt. That way
22 we issued significant amount of the bonds.

23 From IMPA side, for example, we have issued more
24 than \$400 million worth of bonds as of outstanding today,
25 and we procure ownership of some transmission and

1 generation.

2 When we work the bond market and issue the bonds,
3 we had a bond resolution. Under the bond resolution, we are
4 pledging to the bondholders that we will pay your debt.

5 But in the bond resolution, there's a list of
6 priorities how we pay the bills. Under the priorities, we
7 pay operation and maintenance expenses first, and then we
8 pay the debt service. Part of the operational and
9 maintenance expenses, that comes the transmission charges
10 what we're paying.

11 So, we already had a priority to pay transmission
12 charges before even we pay the bond holders? We are a not-
13 for-profit organization, so we don't make profit, and if
14 somebody is looking into our profit ratios, it doesn't do
15 well.

16 But you if you look into IMPA ratings, we are A-1
17 and A-plus and most joint action agencies are pretty good
18 nice ratings from S&P and Moody's and Fitch, whichever you
19 look at.

20 However, when somebody comes back and says that
21 your ratios, we don't fit in, that's very -- we've got to be
22 careful of how to -- these joint action agencies.

23 To give you specifics on the conflicts what we're
24 seeing, one is MISO came back and said they want to make
25 sure that they have the first security to pay their bills

1 before we pay anything. Our bond resolution says that we
2 cannot do for security, and because under the bond
3 resolution we're already paying priority anyhow, but you
4 cannot make it for security unless we go back to all the
5 \$500 million worth of bonds who have bought it, and
6 individually ask them to change, which is almost impossible.

7 The second part of the equation is, PJM side, we
8 have half the load in PJM, half the load in MISO. If I give
9 first security to MISO, and the same thing PJM asks,
10 everybody wants it for security. There's no way you can
11 make everyone for security. It's got to be the priority and
12 then we'll stop there.

13 The second part of the question is, MISO, they
14 didn't want to net. PJM says netting is okay. There's a
15 experience, and PJM says it works well. MISO says, well,
16 probably there is a problems with somebody advising them
17 that in the bankruptcy case, may not be holding good.

18 In MISO, we are the transmission owner and in
19 spite of that, we feel that's not fair. It's got to be a
20 uniform policy that should be there, and we prefer, we like
21 what's happening in the PJM side.

22 In summary, municipalities and also rural
23 electrics, they are different type of entities, and they
24 have pretty good bond ratings from rating agencies, and they
25 are doing well. They should be treated differently with

1 flexibility, but, again, I do support some sort of
2 transparency in analyzing if they are going to penalize
3 someone.

4 MR. PERLMAN: Just to clarify, it sounds like the
5 TAPS members were supportive of a tariff provision that
6 would be something like the Carolina Power and Light that
7 would at least have that level of specificity in the tariff.
8 Did I understand you correctly?

9 MR. RAO: Yes, yes. TAPS members and IMPA, we
10 support that one, yes.

11 MR. PERLMAN: Thank you. Mr. Michael Thomas of
12 Calpine, who is a fan of credit ratings, as I understand.

13 MR. THOMAS: Thank you. I'm Michael Thomas with
14 Calpine Corporation. I'm Senior Vice President and
15 Corporate Treasurer, responsible for all credit allocation
16 and credit decisions across the Company.

17 I'm the independent power producer, the merchant
18 guy in the equation, the one that everyone thinks is the
19 weak link in the equation. Ironically, Calpine is really a
20 physical asset player. We've got 25,000 megawatts across
21 North America today, with approximately another 5,000
22 megawatts under construction. We invest real capital every
23 single day into assets that are ultimately hundreds of
24 millions of dollars of capital contributions that we make
25 into our investments that ultimately benefit the grid and

1 the system as a whole.

2 Investment grade is the threshold here of being
3 accepted as creditworthy. All the comments here on
4 qualitative assessments and approaches and standards, I
5 really take exception to, given what is really, I think, a
6 generic approach, looking almost solely at rating agencies.

7 And to the extent you do not meet that threshold
8 of credit acceptance by the rating agency, you don't
9 qualify. And the outcome of not qualifying is posting it
10 cash, and whether that's in the form of a letter of credit
11 or a surety bond or even cash, they are all the same; it's
12 capital at the end of the day; it's liquidity being taken
13 from the counterparty that's ultimately backstopping some
14 form of risk that somebody is concerned with.

15 Cash is really the only answer, given the current
16 set of rules. The pro forma OATT states that the
17 transmission provider may require reasonable credit review
18 procedures in accordance with standard commercial practices.

19
20 In my mind, that's extremely vague, and, to be
21 honest, in my eight years with Calpine, I still have no idea
22 what that truly means or obligates a regulated body to
23 undertake with respect to a prudent review process. I think
24 we're looking at the word, standard, being a very difficult
25 word to understand, whether you're speaking to specific

1 metrics that everyone must meet on a stand-alone basis, or
2 whether standards really means a process that one must
3 undertake to really understand risk and assess risk, and to
4 understand not only what is a default trigger, but
5 ultimately what that default trigger means with respect to
6 damages.

7 At the end of the day, the concern is damages, in
8 my mind. What are you exposed to, to the extent a
9 counterparty does not perform? And those are ultimately
10 monetary concerns that people have a rightful concern to be
11 credit-wary of.

12 That said, though, I think that is not a part of
13 the process whatsoever. The process, as it exists today, is
14 truly rating agencies.

15 And a rating agency looks at a public bond. It
16 looks at something that is a rate obligation, that is
17 something for Calpine Corporation, that is our corporate
18 bonds, it is something that may exist for a project
19 financing, it is something that may exist for a lease
20 financing.

21 But, by no means does it speak to the risks that
22 the transmission provider ultimately has at the end of the
23 day. By no means does that analysis really speak to the
24 risks of what that default really means to the specific
25 asset underlying that transmission obligation as to what

1 damages will be ultimately incurred and what value that
2 should really have.

3 What is the payable piece of the equation? What
4 is the re-marketing piece of the equation? What are the
5 uniqueness with respect to the commercial transaction that
6 ultimately exists within that agreement?

7 Those are things that take place on the commodity
8 side every day, counterparties commercially agreeing,
9 negotiating, trading margin numbers. As folks have said
10 earlier today, it's getting pretty darn close with margin
11 numbers every single day in processing this information.

12 Those are commercially standard practices that I
13 think we go through every day on the non-regulated side. I
14 personally, again, do not believe that same process exists
15 on the regulated side.

16 It is a criteria that has an absolute threshold
17 of investment grade, and, again, if not, you post cash.

18 We invest, I said, hundreds of millions of
19 dollars into the underlying asset, and I ask you to stop and
20 think about what that really means with respect to the risk
21 the transmission provider has.

22 At the end of the day, Calpine Corporation may
23 default. At the end of the day, one of our financings may
24 default, but what does that really mean to the transmission
25 provider? What risks is he really exposed to from an

1 exposure or dollar damages standpoint?

2 And at the end of the day, in my view, that is a
3 very minimal risk, to the extent you've got high quality,
4 state-of-the-art, sub-7,000 heat rate assets in the
5 marketplace. You can run any sensitivity you want as to
6 what the ultimate value of that asset is, but at the end of
7 the day, that asset is captive to those wires.

8 And unless it's going to perform on what is
9 ultimately an unsecured payable obligation, it is basically
10 not going to be economically viable. And that is a foolish
11 decision, to the extent you've invested hundreds of millions
12 of dollars into that asset. Whether that's Calpine
13 Corporation as the sponsor today, whether that's the
14 Bankruptcy Court in someone's hypothetical scenario, whether
15 that's a lender foreclosing and taking over, my view is that
16 that is one of the highest forms of payable obligations that
17 will ultimately need to be cured at the end of the day.

18 That is not part of the process. The qualitative
19 aspects you hear that some of these folks say they go
20 through, I don't see it. If you went through the
21 qualitative approach, I think you'd get down to the physical
22 asset.

23 The physical asset ultimately provides tremendous
24 benefits to the system, whether it's in voltage support or
25 reactive power. None of that factors in. None of our

1 contribution or what the asset represents at the end of the
2 day, really means much in the decision as to whether we are
3 creditworthy or not.

4 The rating agencies speak nothing to what that
5 asset really represents from a payable standpoint, and what
6 it's obligations are to any type of vendor. It speaks to
7 what a default trigger may be on a piece of debt.

8 In addition, I don't think this assessment really
9 assess that the natural business risks are that the
10 transmission provider really signed up for. He has inherent
11 risks that he had agreed to that are ultimately covered in
12 his rate base, to some extent, and to the extent some of
13 those risks are proportionally covered in the rate base,
14 that's risk that has already been mitigated, and, to some
15 extent, should be appreciated or absorbed into the overall
16 credit calculation or credit risk equation. That does not
17 take place today.

18 When we speak to transparency, I think I'd just
19 like to know what the set of rules are, what I have to do to
20 walk down that path to substantiate that I'm creditworthy.
21 If it's a qualitative exercise, is that meaning that we sit
22 down and we walk through the specifics of our assets, the
23 specifics of the location of the asset, the merits as to
24 whether financing exists or does not exist on that asset.

25 What are the true credit merits of the asset?

1 Nobody wants to speak to that. You speak to Standard and
2 Poor's and Moody's.

3 With no disrespect, I was investment grade for 35
4 days in October of 2001. When you go through the rating
5 analysis to cross to investment grade, I spent six months
6 with each of the rating agencies, going through every facet
7 of our business.

8 Post 9/11, we were ultimately upgraded to what I
9 believe is one of the most difficult thresholds you can be
10 upgraded to, investment grade.

11 Thirty days later, the rating agency says we are
12 no longer investment grade, and not that it's a notch down,
13 based on the changing market risk we have, but multiple
14 notches. That's exponential risk that should speak very
15 strongly as to the quality of what the rating represents in
16 the first place.

17 Today, we're a single-B-flat rating by Standard
18 and Poor's. That's called a corporate rating. The
19 corporate rating ultimately has this great theory in it
20 called the bogeyman theory in bankruptcy, I believe.

21 You unsecured bonds are basically notched down,
22 based on whether your secured bonds are ultimately notched
23 up, and there's no real stand-alone assessment as to any
24 stand-alone financing, I believe, as to what it's true
25 merits are.

1 You default to the corporate rating, and then you
2 notch up or down based on that. That, I believe, is a very
3 limiting factor in the audience's ability to really
4 understand risk assessment.

5 And in my mind, those are things that I think
6 need to be improved from a standardized process, which says
7 there is a criteria that you may be investment grade, and if
8 you meet it, you qualify.

9 If not, what are the other conditions or efforts
10 or approaches we go through to substantiate whether or not
11 we're creditworthy? At the end of the day, if we're not
12 creditworthy, what is the transparency as to the reasoning
13 behind why we're not creditworthy?

14 We post cash every day for what we do. We're
15 very sensitive to credit, but, on the other hand, I think
16 people really need to appreciate what the magnitude of that
17 capital represents from a liquidity standpoint and a
18 liquidity standpoint to the market as a whole, vis a vis
19 what the underlying risks really represent.

20 Calpine has provided comments that, in summary,
21 have asked for standardized credit procedures within our
22 industry. We'd like to ensure that market participants can
23 net exposure across markets, much like we do on the
24 commodity side. It is very efficient; it improves
25 liquidity tremendously.

1 We'd like to foster development of a more
2 efficient clearing market to more efficiently manage credit
3 risk, and we'd like to push to shorten billing cycles so
4 that you can mitigate the payable side of the equation.

5 Folks may argue that that's an administrative
6 burden. We do it every day on the commodity side of the
7 equation.

8 The regulated guy should have the same
9 responsibilities to step up to the plate on processing to
10 ultimately deal with what he's concerned with -- risk -- to
11 ultimately be able to manage that better, and if that
12 shortens billing cycles, well, so be it. Step up to the
13 plate, invest in the systems. Thank you.

14 MR. PERLMAN: Can I ask one clarifying question?
15 My impression of what you said is that you have not seen
16 this set of qualitative components to determine whether
17 you're creditworthy.

18 Is it that the quality of components are not
19 there in the OATT provider world, or that you just disagree
20 with how they implement them?

21 MR. THOMAS: I don't think there's a negotiation
22 around that whatsoever. I've not participated in many
23 discussions that wanted to say who's Calpine Corporation?
24 Who's Calpine Energy Services, our sort of trading vehicle?
25 And where is the underlying plant in the equation as a

1 whole.

2 I think if you were to go through those sorts of
3 discussions, I think that the outcome would be a better
4 appreciation as to what the true risks were, what the
5 damages associated with those risks are, and what the
6 appropriate measure for capital should be in those
7 situations.

8 But that's a process. That's a commercially
9 standard activity that takes place in any non-regulated
10 negotiation. It does not take place on the regulated side,
11 in my mind.

12 MR. PERLMAN: Thank you. Let's move to Tom
13 Zaremba of the National Rural Electric Cooperative
14 Association. Mr. Zaremba?

15 MR. ZAREMBA: Yes, thanks very much. We've
16 previously submitted comments on behalf of NRECA, and I have
17 some prepared remarks which I've filed and put in the back.
18 But I'd like to touch on some of the issues quickly.

19 One is, the cooperative utility world is to some
20 extent on both sides of the fence on this issue. The
21 majority of electric cooperatives are transmission-dependent
22 utilities and are seeking transmission service, however,
23 there are also a number of generation and transmission
24 cooperatives which are similar to the municipal joint power
25 agencies in that they are wholesale providers of generation

1 and transmission services to their distribution cooperative
2 members.

3 So, some cooperatives are transmission providers
4 and have their own OATTs, although the majority of
5 cooperative utilities, as a group, over 900 of the members
6 of NRECA are TDUs and are dependent and seek transmission
7 service from other providers.

8 Cooperatives are different. Without going into
9 the details, which are already in the comments, some of the
10 key factors are because cooperatives are not-for-profit
11 service organizations, they serve their member consumers.
12 They are not to make a profit, and for shareholders, they
13 generally avoid market bets, because the idea is not to meet
14 short-term profit cycles, but to meet the long-term service
15 needs of their members.

16 And, as a result, they have a very stable credit
17 history, generally. They have stable revenues, but they
18 have lesser levels of financial liquidity, because that's
19 the nature and the structure of their legal organizations.

20 Like municipal utilities, they generally are
21 debt-dependent for their capital financing, which means that
22 they are worried about their secured lenders, or in the
23 phraseology of one of the earlier presenters, they worry
24 about the equivalent of the bondholders, rather than the
25 returns of their shareholders, primarily.

1 So, from a credit circumstance, they tend to be
2 conservative businesses. But because they have relatively
3 smaller levels of financial liquidity, the cooperatives are
4 very concerned about changing credit requirements in the
5 industry and the risks that credit requirements will be
6 changeable themselves.

7 As a number of the presenters have talked about,
8 there is the need to preserve flexibility, that the credit
9 requirements we have today may not be sufficient to meet the
10 credit needs they perceive tomorrow from the standpoint of a
11 cooperative, but those translate into credit requirements
12 that say if you're deemed to be creditworthy for today,
13 that's fine, but if your credit circumstances are deemed to
14 be changed tomorrow, we may need a significant letter of
15 credit posted on two or three business days' notice in order
16 for you to keep on participating in the same transmission
17 service in which you are dependent.

18 So, the preservation of flexibility and
19 qualitative factors for credit provide flexibility to the
20 transmission provider, to the credit grantor, so to speak,
21 but they pose real risks to the credit grantee, the service
22 obtainer, because if those credit requirements can change
23 quickly or change in an opaque way without the customer
24 knowing why their credit is all of a sudden being changed --

25

1 And when the implications are, by the way, you
2 need \$20 million in a letter of credit from a commercial
3 regional money center bank in three days, that may not be
4 feasible for cooperatives to do. It's just not an easy
5 circumstance for them to come out and go to the liquid
6 capital markets and obtain that kind of credit support on a
7 two- or three-business-day cycle.

8 And it poses the risk of basically making the
9 cooperatives unable to meaningfully participate in some of
10 the transmission services which are supposed to be part of
11 the open access that the FERC is trying to create.

12 Other issues which pose significant risk to
13 cooperatives are, besides a changeable credit analysis,
14 which is not understandable to them, are credit scorings
15 which are not sensitive to the cooperative financial
16 structure.

17 It's heartening to hear the first presenters, who
18 obviously are aware of cooperatives, say that they have
19 flexibility for the cooperative customers in their areas,
20 and I assume that may be very well the case. However, not
21 all OATT providers have demonstrated that same flexibility,
22 and in many cases, it seems to be a black box in terms of
23 the credit.

24 You apply, you get -- you're told what your
25 credit requirements or collateral requirements may be, and

1 then it's basically a telephone process or request for
2 further information to find out as to why you turned out in
3 a particular fashion.

4 We believe that it would be much preferable to
5 have, not necessarily standardized, but transparent credit
6 requirements, transparent credit procedures so that
7 transmission service obtainers will know in advance, what's
8 going to be required of them, how often that information
9 needs to be updated, in what form it can be furnished, so
10 there's less risk for surprise.

11 An example has previously been referred to of
12 some examples of OATTs that have looked at different types
13 of providers. NRECA believes that the example used by
14 Progress Energy and Carolina Power and Light OATT provides a
15 good example of a flexible OATT credit requirement that
16 recognizes that cooperatives are different types of service
17 providers and have standards oriented to cooperatives,
18 directly.

19 I'm not here to necessarily endorse one
20 particular type of credit requirements or standards, but
21 that is one which does take into account, cooperatives, and
22 seems to be oriented to their financial circumstances and
23 their debt covenants.

24 I think I've covered most of the issues that I
25 wanted to talk about directly to you. I have other issues

1 noted in my remarks that I have made available today, so if
2 you have any further questions, I'd be happy to answer them.

3 MR. PERLMAN: Thank you. I'll start with a
4 question and then turn it over to my colleagues.

5 The one thing that I'm getting from the first
6 panel and this panel, in particular, is a desire on the part
7 of the customers for transparency and clarity with respect
8 to the types of things that are taken into account when the
9 credit review is undertaken, and if there are qualitative
10 things beyond ratings, what they are and how they are done,
11 at least to some degree.

12 And I'm not sure whether there's a desire to have
13 standards from this Commission as to how that should be.
14 But at least with respect to the transparency, what would
15 you recommend, if anything, that the Commission do to impose
16 requirements for transparency or to suggest to transmission
17 providers to provide such transparency to their customers?
18 I'll take an answer from anybody who wants to address it.

19 MR. ZAREMBA: I guess, first off, we would like
20 to see that there are credit requirements that should be
21 part of a filing and should be able to be subject to
22 Commission review, so that they are not simply a part of a
23 generalized business practice, which can be changed without
24 an opportunity for comment and input from the persons who
25 are obtaining service.

1 MR. RAO: I think I agree with that one. There
2 doesn't have to be a standard policy, but at the same time,
3 you know, we are half of the transmission owners, so I got
4 my interest to make sure that somebody, but the time they
5 change the policy and file something six months, in the
6 meantime, you lost the transmission revenues, so we don't
7 want that thing to happen, either.

8 So, there has to be a policy made and it must be
9 transparent, but at the same time, customers need to know if
10 there's a change of something happening, so that way they
11 can come back and do it, so that the business can go on as
12 expected. At the same time, the customer needs to know that
13 the provider changes, what was the reason.

14 That may be dispute resolution process to make
15 sure that process is right or wrong, but the ultimate result
16 is we have to make sure that the transmission party who's
17 taking, paying the money, as long as there is assurance that
18 that money is coming in, that protects the transmission
19 owners.

20 At the same time, as a transmission-dependent
21 utility, my second part of me, I want to make sure that if
22 something changes, I need to know right then and there so
23 that I can do something.

24 MR. THOMAS: I would just say, from a
25 transparency standpoint, some of the tariffs, they are

1 written such that if you're not -- if you are rated but not
2 investment grade, you do not qualify to the extent that
3 there is secondary or more qualitative or additional credit
4 considerations that should be put in place.

5 I think there needs to be more definition as to
6 if you are not investment grade, or if you do not have a
7 rating, what that process really obligates the transmission
8 provider to undertake from a credit review standpoint, that
9 is, commercially standard and reasonable to get to
10 ultimately an outcome that becomes transparent as to why you
11 qualified or did not qualify.

12 And I think that is something that just lacks --
13 there's no process that I see that actually exists for that.
14 And at the end of the day, I'm not trying to cry sour grapes
15 as to our plight on credit, but I think that at the end of
16 the day, there needs to be an appreciation for, if everyone
17 is going to use the words, credit and risk analysis, a real
18 effort to undertake that activity and a responsibility by
19 the transmission provider to do what are normal course
20 activities in the commercial world.

21 MR. KLEIN: Yes, I think I didn't hear this
22 morning, anyone that used ratings exclusively to make their
23 credit determination. I think the FERC should focus on
24 staying at the policy level, initially, and encouraging the
25 transmission providers to publish their policies according

1 to clear guidelines, and to the extent that those policies
2 change, to require the transmission provider to notify their
3 customers of that change.

4 I think that the circumstances of the
5 transmission provider can change. They may be entering into
6 some sort of financial difficulty or choppy waters, or they
7 may have to change their own requirements, and certainly
8 this could mitigate against rigid standards.

9 MS. HARROD: What Aquila would like to see is to
10 be able to have some kind of policy or some kind of standard
11 or guideline that actually specifies what a transmission
12 owner is going to go through in order to determine whether
13 or not I'm creditworthy.

14 We'd like to also have consistency, so if you
15 have some transmission owners that say you're not investment
16 grade, I don't do anything else, and then you have some that
17 says I'm going to take all these quantitative analyses into
18 effect and take all these other components of the analysis
19 that's going to determine if you're going to get credit or
20 not, then, you know, we would support that if there was some
21 consistency between the transmission owners on how they're
22 going to do that, and when there is some consistency, then
23 it's very transparent so we know exactly what the
24 requirements are to go down that route.

25 COMMISSIONER BROWNELL: Mr. Thomas, I have a

1 question. When you have a contract under the OATT for one
2 of your facilities, that may be higher rated than you have
3 corporately. It's a project, perhaps, that has a PPA, for
4 instance, that was above investment grade.

5 Are you saying that it's your experience that
6 transmission providers are looking past that at your
7 corporate rating, and, therefore, ascribing a subinvestment
8 grade to those flows, essentially, and therefore asking for
9 collateral? Or do you have it structured such that the
10 trading is going through a subinvestment grade entity?

11 MR. THOMAS: We only have one financing that's
12 investment grade, and investment grade has to do with
13 bankruptcy remoteness of that vehicle which was put in place
14 from a financing standpoint. All of the rest of our
15 financings are subinvestment grade, again, based on the
16 criteria that the agencies apply towards really their
17 standards on ratings.

18 We, again, do not have an asset that is, I would
19 say, investment grade qualifying stand-alone to go through
20 just the basic preapproval process.

21 I think what we lack is the ability to get down
22 to what is ultimately a multi-hundred million dollar
23 physical asset that is no different than some of the utility
24 risks that folks take, no different than ultimately the
25 franchise that a muni or a coop has, but the generator is,

1 to some extent, outside that box and not given any
2 consideration as to what the real asset represents from a
3 credit value standpoint.

4 MR. PERLMAN: I think what he's asking, or at
5 least the way I heard the question was, if you had a
6 generator that was profitable or had a long-term contract
7 associated with it that was profitable, is that evaluated
8 when there's as determination as to how creditworthy that
9 generator's transmission service should be?

10 MR. THOMAS: It should be, but --

11 MR. PERLMAN: Or do they just look at your
12 ratings?

13 MR. THOMAS: To the extent it was a stand-alone
14 financing, yes, I would say it would go through that, but to
15 the extent that you've got -- we've got portfolio financing
16 where we've to some extent structured our own problems, if
17 you will, but through that structuring is, say, our Calpine
18 construction finance financing. It's a \$2.5 billion
19 financing with multiple cogen assets across the U.S.

20 They've got steam host arrangements, they've got
21 energy sales arrangements, but they've got, to people's
22 comments, pretty substantial debt levels. Substantial debt
23 levels is a relative term, though.

24 They're probably less than \$200 a KW per debt on
25 assets that are ultimately \$600 a KW in construction costs.

1 So, yes, there's debt, it ultimately doesn't get down to the
2 physical asset from where the contract may reside, but I
3 don't think that deteriorates from what the credit value of
4 what that enterprise really represents.

5 The lender, at the end of the day, how is he
6 going to default on that transmission contract to the extent
7 you had to foreclose on that? He needs to still make it a
8 valuable asset to either have his own economic recovery or
9 ability to sell that asset.

10 He's got to cure that payable. That's never part
11 of the process as to really what that represents and who is
12 incented to make sure that what are both either wires
13 problems or obligations or pipes problems and obligations,
14 that those ultimately determine the viability of the asset.

15 So, in my mind, they are going to be probably the
16 highest priority approved. Secondly, there's waterfall
17 arrangements. As folks have said earlier with respect to
18 their financings, where operating expenses are paid, many
19 times the transmission guy is on the top tier of the
20 waterfall that ultimately is the first bucket paid.

21 None of that goes through a qualitative analysis
22 as to where you rank on a payable standpoint. Secondly, I'd
23 add that lenders, I think, are receptive to what may be a
24 recognition agreement, recognizing that contract that's a
25 subsidiary obligation that the lender would step up to from

1 a performance standpoint.

2 Those are things, from a qualitative standpoint
3 that I think are doable and ultimately get the transmission
4 provider to a very credit efficient point.

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1 MR. CHOO: Mr. Thomas, I'd like to follow up on
2 this, what you said with you, and then maybe invite the
3 translation providers to respond, as well.

4 To the extent that you have encountered these
5 issues, what kind of discussions have you had with
6 translation providers, and what progress, if any, have you
7 made with different ones of them?

8 MR. THOMAS: Well, I'd say every provider is
9 unique. There's differing set of people. There's differing
10 personal relationships. There's differing corporate
11 objectives or appreciations or disagreements, and those,
12 ultimately, I think fall into credit at the end of the day.

13 There are many markets where I think we've got
14 receptive counterparties that have some reasonableness in
15 wanting to go through what are assessments of risk and
16 where, in the org structure, the asset or the contract
17 resides, and what the underlying credit may represent there.

18 But I don't think that's a standard criteria
19 across the board that obligates all transmission providers
20 to undertake a similar assessment, and I think that's the
21 problem. You do not have consistency as to what the rules
22 represent and what the expectations on our side are with
23 respect to the ante to get into the game.

24 MR. CHOO: Mr. Klein, Mr. Mazo and the three
25 gentlemen who were here at the first panel, would any of you

1 care to respond to how you might deal with these kinds of
2 granular credit questions?

3 MR. KLEIN: Well, clearly, non-discrimination and
4 transparency are important, and I think everyone here
5 supports that.

6 The issue is restricting or forcing the
7 transmission provider into providing credit capacity that's
8 beyond its ability to do financially.

9 You know, for example, if a transaction is
10 collateralized with a large asset, what is the transmission
11 provider going to do with that large asset?

12 Is it going to sell it at a discount? You know,
13 perhaps it cost \$600 a kilowatt to construct. Perhaps its
14 market value is 400. Perhaps it has IRP and RFP rules that
15 prevent it from doing anything but something that its
16 commissions have previously approved.

17 So the rules that would have to be written are
18 horribly complex, horribly state specific, and horribly
19 restrictant. So the guideline aspect, the transparency
20 aspect, the non-discrimination aspect, we all strongly
21 support at a policy level, not at a process level.

22 MR. MAZO: I guess with our tier, since we have,
23 you know, specifically laid out what our standards are, I
24 think, you know, to an extent, you know, while it is non-
25 discriminatory, does tie our hands because we've stated in

1 there what it takes to qualify for credit. So that's one
2 thing that we want to look at, you know, by doing that. I
3 mean it's almost probably made it harder for a Calpine to
4 get access to our territory in which, you know, it's not our
5 intent to keep anybody out, but the thing with
6 standardization that you have to worry about, like
7 standardizing it and putting the tariff in, then you got to
8 live to it.

9 MR. TIGER: I have a question for Mr. Klein.

10 You had mentioned that the changes to the
11 corporate -- to the transmission provider's status might
12 mean that it needed -- or you implied might need to enhance
13 its own collateral from counterparties.

14 It's sort of got to the question of are you
15 bifurcating the service you're providing as a transmission
16 provider from any other elements?

17 You're folding things up to a corporate level.
18 You're looking at global risk.

19 Do you view there is a potential that because you
20 have risks in the non-transmission portion of your business
21 with counterparties, or you have risks coming to the
22 transmission activities from non-regulated activities you
23 may be taking?

24 Is there -- how do you prevent or do you see
25 there is a potential for those to flow into sort of cutting

1 back on risk capital in the regulated transmission
2 provision?

3 MR. KLEIN: Administratively and commercially,
4 those areas are completely separate, as was mentioned this
5 morning. The people that do the transactions and the people
6 that evaluate the transactions are separate.

7 Where it comes together, again, as it was
8 described this morning, is at a corporate level in terms of
9 the overall credit exposure to a counterpart that the
10 organization is able prudently to wear the risks that it's
11 willing to wear.

12 So the credit is not allocated amongst the
13 divisions on the basis of anything arbitrary. It's strictly
14 a function of the individual transaction.

15 But, again, having said that, there comes a point
16 when any corporation is restricted by the amount of exposure
17 it can have to any other corporation through the application
18 of concentration limits and other limits that basically
19 limit its risk to one significant event.

20 MR. PERLMAN: I'm not sure I understand that.
21 Are you saying that if you had a training operation in the
22 corporation and they took on a big transaction in some other
23 region of the country from where you are in the transmission
24 system, and that ate up a lot of credit capacity, and maybe
25 it was a risky transaction, but it was highly profitable,

1 that may cause the transmission portion of the company to
2 cut back on the amount of credit that they can afford, that
3 same counterparty, for regulated transmission service?

4 Did I hear you say that?

5 MR. KLEIN: The concentration risks for exposure
6 to a single counterparty could impact forward decisions, not
7 retroactive decisions.

8 But it would not be prudent for a company to
9 expose itself to some extremely significant risk, groupwide
10 or companywide, to one single counterparty because it's a
11 very large event risk.

12 If that counterparty did default, the
13 shareholders and the ratepayers would suffer.

14 MR. PERLMAN: Well, isn't there -- shouldn't you
15 be treating the regulated transmission business as a
16 standalone business that doesn't affect the credit that you
17 could grant a counterparty because some other profit making,
18 deregulated part of the company has exposure to that entity
19 somewhere else?

20 Should this commission think that's appropriate?

21 MR. KLEIN: Those decisions are separate when the
22 company considers individual transactions, but at a group
23 level, there is a consideration for overall credit exposure.

24

25 MR. PERLMAN: Doesn't that get manifested

1 prospectively?

2 I mean when the group says, "We've used up all
3 our credit with this guy doing this profitable transaction
4 in," I don't know, "in Florida, and now, here we are in the
5 west," and he wants transmission service.

6 Well, you know, the group isn't going to give him
7 any more credit. Is that what happens?

8 MR. KLEIN: That is not -- that is not what
9 happens. The issue is on unsupported credit on a group
10 basis for transactions which carry significant risk.

11 MR. PERLMAN: So what does happen?

12 MR. KLEIN: What happens is the decisions are
13 made independently by the division. The regulated division
14 makes one set of decisions.

15 The commercial part of the regulated decisions
16 are separate from the transmission part of the regulated
17 decisions.

18 It is the overall credit capacity is a limit for
19 the corporation, and that does affect the amount of business
20 it does in total.

21 MR. CHOO: Maybe another way to ask the question
22 is this: Let's say the transaction in an unrelated area
23 uses up a lot of credit capital. So, as a result of that,
24 the transmission unit ends up with a lower credit tab, if
25 you will. And, as a result of that, you then go to all your

1 transmission customer and say, "Because of our constraint --
2 a new constraint, now we have to raise your credit
3 requirement across the board," and, therefore, restrict more
4 transmission to its customers from coming on.

5 MR. KLEIN: That has not happened. We have not
6 been in that situation.

7 Our corporation is extremely credit worthy
8 itself. It has a very strong balance sheet.

9 I could imagine a situation with a utility that
10 had a problem where one might get a different outcome. That
11 has no happened with our company.

12 MR. PERLMAN: It looks like Mr. Lee would like to
13 have his two cents.

14 MR. LEE: Yeah. This is all. This is Tommy Lee,
15 again, with Duke Energy.

16 I just wanted to make a comment about our
17 practices as it relates to potential preference issues with
18 regard to allocation of unsecured thresholds across the
19 phone.

20 If a counterparty does have unsecured threshold,
21 which has been eaten up, and keep in mind, Duke has never
22 had this circumstance occur, but we do have processes in
23 place to deal with it, whereby, let's say, on the
24 unregulated side, all the unsecured capacity that we had for
25 that counterparty was eaten up, and then transmission access

1 was sought by that same counterparty, we would clearly go
2 through a reallocation of that unsecured threshold to deal
3 with that situation so that no preference issues could arise
4 as a result of that.

5 MR. PERLMAN: Thank you.

6 Kelly, did you have a question?

7 MS. HARROD:

8 MR. PERLMAN: Thank you.

9 Kelly, did you have a question?

10 MS. PERL: Yes. This is primarily for Ms. Harrod
11 and Mr. Thomas.

12 Now, it would seem to -- what you seem to be
13 saying was a bit of dynamism in credit review would help,
14 and we had a spectacular collapse in 2001, and there seems
15 to be a recovery.

16 And what I ask you, would a more frequent review
17 help you, or is it just the nature of the recovery that is
18 not so fast is a collapse that is a problem?

19 MS. HARROD: I think, one, the recovery has not
20 come as fast, but it's getting there. It's getting better
21 every day as we go through.

22 The biggest thing that Aquila deals with is that
23 we still have a lot of issues that we're sort of working
24 around, but in the past, as soon as the rating agencies
25 downgraded us, no one really took anything else into

1 consideration, and it's not just the transmission, but just
2 the market as a whole.

3 And so, when it comes to transmission, grant you,
4 the main place that we're active in would be in Timiso or
5 into Map or some of those. It's not necessarily the
6 individual.

7 But we do go to some individual transmission
8 owners that are in our territory, and it's -- the biggest
9 concern that we've had is going through all that we went
10 through, there was a lot of disparity between companies.
11 Every company required something different.

12 Some would ask for collateral for one amount.
13 Some would ask for collateral for ten times as much for the
14 exact same type of exposure.

15 And so, as we went through what we went through
16 over the last couple of years, it would be very good for us,
17 as a company, to understand what the requirements are to
18 participate in this market, what our cash flow requirements
19 are going to be, because we are posting cash for all of our
20 activity and our transactions, whether or not it's in the
21 RTO's or wherever it's at.

22 And so that is the main thing that we are
23 supportive of, and as we're trying to go forward, we want to
24 know what those requirements are and we want to know what
25 the cash requirements are, which are what we would

1 demonstrate in a lot of our comments that we made is we want
2 it to be associated with our exposure.

3 What exposure are we -- what credit exposure are
4 we bringing to your system?

5 And if we have to be secured post cash, it should
6 be for that service. It should be for no more, no less
7 because once I post cash, and at that point, I'm probably
8 the strongest credit you've got on that system.

9 So as we continue to go forward, you know, it's
10 getting better, but, you know, we anticipate that as you go
11 over the next two years, the industry is going to change a
12 little bit more. I don't think it's going to stay the same.

13 And as we go into the next two years and the
14 market does recover, and you get more market participants
15 and you get more activity and more liquidity that we're all
16 working and striving to get, that we all know what the game
17 rules are.

18 MR. THOMAS: I'd argue that the events over the
19 last two years certainly are warranting of, you know,
20 additional credit review and considerations and a real risk
21 assessment that, previously, two years ago, may not have
22 existed to the extent it does today.

23 Your word of dynamism, I think, is an interesting
24 choice for credit because I don't see a lot of dynamism in
25 credit at all. I think dynamism is something that should be

1 more prevalent in the activity, and whether it needs to be
2 more timely, I think we're willing to do whatever it takes
3 to meet with people and to provide the data that's required
4 to ultimately substantiate both the financial and the
5 qualitative merits of what our counterparty and our
6 transaction represents.

7 And, to the extent we go through that process and
8 there's fairness involved, then, hopefully, non-
9 discriminatory activity and equitable treatment, I have to
10 end up agreeing with where the chips fall from that.

11 But I don't think the process exists where that
12 actual sort of negotiation or discussion actually takes
13 place at all.

14 MR. PERLMAN: Do we have any other questions?

15 MS. FISHER: I have a question.

16 MR. PERLMAN: Jolanka, go ahead.

17 MS. FISHER: My impression from the first panel
18 was that the process was sort of a qualitative,
19 collaborative process, and then the impression in this is,
20 is it an art or is it a science?

21 And my impression from this panel is more it
22 occurs elsewhere, and there is not really any collaboration,
23 and we can get these sort of credit determinations that sort
24 of fall on us out of a black box.

25 Is there a characterization -- is it really that

1 it's both, depending on the transmission provider, or is it
2 always a collaborative process, but there's very little
3 clarity behind what's going on on the transmission
4 provider's part?

5 MR. LEE: I can just say, from our point of view,
6 it's very collaborative. Some of the counterparts at this
7 table or the counterparts this morning, we know well and
8 have long discussions with them on the scope deals,
9 bilateral transactions.

10 I can't really say for the myriad of small
11 transactions that it's that collaborative or not because of
12 the volume of transactions, but, certainly, for the larger
13 transactions, it is and always has been.

14 MR. RAO: On the TAPS group and negotiations with
15 the Progress Energy, that was very collaborative and they
16 understood what we were talking and we understood what their
17 needs were, and they came up with a process where it was
18 very good. So it is a collaborative and the principalities
19 and also coops, in their particular negotiations. They
20 dealt with that -- initiating that agreement.

21 MS. FISHER: Is it always that way or is it just
22 with particular transmission providers?

23 MR. RAO: I'm not sure always because, quite
24 often, if you look at the nationwide, municipalities and
25 coops always intervene in IOU rate cases, and we argue, I'm

1 positive, and Progress Energy might differ, too, but this
2 was a good one. This is a nice example.

3 MR. ZAREMBA: And from the standpoint of
4 cooperatives, because cooperatives are not generally new
5 entrants in most of the areas. The IOUs that they're
6 dealing with, I've known about them for a long time, and so
7 they're -- they already have an idea what the coops do and
8 their financial circumstances, and there may already be an
9 operating relationship.

10 Where there have been more problems with
11 opaqueness, frankly, is with ISOs and RTOs which announce
12 new credit requirements, and basically, are not familiar, in
13 many cases, with the individual cooperatives or with
14 cooperatives in general, and where, you know, there's new --
15 it's kind of like saying, "Well, you may have dealt with
16 other transmission providers before, but we're different.
17 We have new credit requirements, and so here's where our
18 requirements are going to be. You're now welcome to apply,
19 but it's not been, by any means, initially clear, starting
20 off with as to how are cooperatives going to be treated, and
21 whether or not those standards would be, quote, unquote,
22 fair."

23 Now, things have improved a great deal, as
24 cooperatives have been dealing with a number of the RTOs and
25 ISOs, and is, I say, more of a collaborative process. But

1 that varies considerably from what part of the country --
2 which part of the country you're talking about.

3 MS. HARROD: I would also say that we have worked
4 with -- it goes back to consistency. There are -- we've
5 worked with some transmission owners that have -- you know,
6 they've asked some of these other questions.

7 But there have been many -- or say many -- or
8 several other transmission owners, that they haven't those
9 extra questions. They haven't asked, "What does your trade
10 book look like?" They haven't asked, "What are your risk
11 management processes." They haven't asked all those other
12 little pieces.

13 They're typically looking at rating agencies, so
14 the main thing with the transmission owners, I think there's
15 no consistency. I think there is a lot of work with some,
16 and it goes back to your relationships and, you know, where
17 they're positioned in your region, and things like that, and
18 how much they know about you, but there are some that that's
19 not the case.

20 MR. PERLMAN: I just have one last question. Ed,
21 did you have a question?

22 MR. MURRELL: Yeah. Mr. Mazo and Mr. Klein, part
23 of what I'm hearing today is there is flexibility in the
24 system, but it sounds like the flexibility is used primarily
25 to evaluate people that are close to the line, and decide

1 whether or not they should be moved down, as opposed to
2 people who are just underneath the line and given some
3 consideration about living out.

4 Am I understanding that correctly?

5 MR. MAZO: When we do our financial analysis, I
6 mean we have very similar processes with Duke and what some
7 other panelists have talked about when we look at ratings,
8 we look at financial models.

9 And we do look at things, and if our models are
10 coming out above what a rating agency would be, we'd look at
11 that.

12 You know, and we're also -- you know, we're
13 looking at the other things in the industry that everybody
14 else has mentioned. So I mean it's not always downward.
15 It's less likely that it's upward, but it can happen.

16 MR. MURRELL: When is the last time you remember
17 upgrading somebody that wasn't at the investment grade
18 level?

19 MR. MAZO: I can't recall.

20 MR. LEE: I think it's not that the utility,
21 including the transmission portion of the utility, is
22 basically a community organization. It's pretty close to
23 the stakeholders in its major service territories.

24 And, quite often, the entrepreneurial elements in
25 a service territory, for example, PacifiCorp is in Utah and

1 Wyoming and Oregon, Washington, predominantly.

2 There are people who want to connect to the
3 system that are clearly entrepreneurial, don't have
4 published, audited financial statements, and yet are key to
5 the community. It would eventually influence the utilities
6 picture in that community or in that state.

7 And I can think of several entities which I'd be
8 glad to discuss privately that were far, far from investment
9 grade, that the company worked very hard with to find ways
10 of collateralizing or ways of securing the obligation to the
11 utility, so both the consumer could do business, and yet the
12 rate payer was protected in the event of default, mostly
13 small generators, 60 watt, 40 watt, megawatt generators that
14 needed access to the system, the company worked with
15 aggressively to connect.

16 MR. MAZO: Just one clarification. We do have
17 several customers who do not have ratings at all, that are
18 financial analysis imputes in investment grade type rating,
19 too. So, you know, we do give transmission service to
20 people without, you know, without ratings, if we have
21 financial statements and in our models that computes a
22 rating.

23 MR. PERLMAN: Well, thank you very much. It's
24 been a very informative panel, and we'll reconvene at 12:45
25 for the RTO panel. Thank you.

1 (Whereupon, a lunch recess was taken at
2 11:50 a.m., to reconvene at 12:50 p.m.)

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1 (Time noted: 12:50 p.m.)

2 AFTERNOON SESSION

3 MR. PERLMAN: Can we find our seats, please, and
4 we can get started?

5 (Pause)

6 MR. PERLMAN: Good afternoon. I hope everyone
7 enjoyed their luncheon choices at the FERC.

8 There are less people in the audience. I don't
9 know if that's because you all came down and sit at the
10 panel or they're recovering from lunch, but this panel is
11 about RTOs and ISOs and the credit issues that arise in that
12 environment.

13 I thought it was interesting this morning that we
14 heard about levels of qualitative review and the type of
15 analysis that's done at the OATT mortgage, which seems to me
16 to have less credit risk inherent in them because it's just
17 transmission component.

18 And I'm not sure -- maybe we'll hear that the RTO
19 credit analysis has the same level of detail and scope. We
20 may or may not.

21 I'm going to limit my remarks to that because we
22 have a lot to talk about and a lot of people to hear from,
23 so, again, with that being said, let's start with the folks
24 that we have as listed in the agenda, and on that front,
25 we'll start with Ken Davis, and he's here representing the

1 New York ISO today.

2 MR. DAVIS: Thank you, Mr. Perlman.

3 First, I'd like to say that the New York ISO
4 commends the Commission and staff for convening this
5 important conference on a very important subject, and we
6 thank you very much for the opportunity to participate.

7 There are, if you look at the agenda for the
8 entire day, many sorts of market participants present and
9 participating from different parts of the country, operating
10 in different markets, that are, themselves, at different
11 stages of development. So I'd like to begin by briefly
12 describing, very generally, where the New York ISO resides
13 in this universe.

14 We think it's fair to say that the
15 creditworthiness regime at the NYISO has developed and moved
16 well beyond the pro forma OATT references. After many
17 months, many, many months of concerted work with our market
18 participants, and after many filings with the Commission, we
19 now have in place a rather comprehensive set of customer
20 creditworthiness standards and procedures that, taken
21 together, address many of the issues on today's agenda.

22 We are comfortable in saying that, overall, they
23 represent a set of specific, transparent procedures, made up
24 of objective, quantitative analytics that provide a flexible
25 set of compliance alternatives to market participants.

1 This package that's set forth in detailed
2 attachments to our tariffs represents not only months of
3 work through our open government's process, but it also
4 represents the negotiated collective market participant
5 assessment as to the appropriate balance of the cost of
6 credit security, on the one hand, and the cost of mutualized
7 market loss, on the other.

8 We've heard a lot today, and I'm sure we're going
9 to hear more this afternoon, about that balance, how much in
10 the way of credit security should an individual participant
11 be required to pay for, and how much mutualized market loss
12 should the community of market participants take on for
13 themselves as a group.

14 Again, we think because of the process used to
15 arrive at the final package, we think that the balance, at
16 least in the case of the New York control area, is
17 represented by the result of the governance process, again,
18 a collective decision by the market participants.

19 Should, in fact, the Commission actually decide
20 to proceed with the formal rulemaking on this subject, we
21 would, therefore, ask that this past work be recognized, and
22 that something like an independent entity standard be used
23 to evaluate detailed ISO or RTO credit regimes already in
24 place, as they are in New York.

25 Now, what we have in place, though detailed and

1 though representative of a lot of market participant input
2 and NYISO staff work, it is certainly not static, and I
3 wouldn't suggest for a moment that we view it as complete or
4 incapable of refinement or improvement.

5 We are, in fact, always talking with and working
6 with market participants through a number of subcommittees
7 and committees to further refine and try to improve the
8 efficiencies and effectiveness of the current system. We're
9 always working to identify and prioritize the next change to
10 the credit regime.

11 We currently, for example, have active projects
12 underway that include things like shortening the settlement
13 cycle by getting more quickly to a final bill, reducing the
14 true up correction and review stage of the cycle.

15 We have another initiative underway to work on
16 improved metering and improved inputs, and we're also in
17 discussions with NECC, and have had discussions with NYMEX
18 about the potential benefits of third-party clearing, as
19 they may be brought to a market like the NYISO, to further
20 shorten the settlement cycle, reduce collateral requirements
21 and improve the interrelationships between the NYISO
22 administered markets and the bilateral markets in the New
23 York control area.

24 So we've come a long way, have a good deal in
25 place, and are constantly working to further improve it.

1 Thank you.

2 MR. PERLMAN: At this point, I'd just like to
3 mentioned that we've been joined by Commissioner Brown-
4 Hruska of the CFTC, and I believe some CFTC staff members,
5 so thank you for joining us.

6 We'll turn it now to Scott Miller of PJM, and
7 I'll remind the people making presentations, if you could
8 make your presentations brief, but informative. We have a
9 lot of people to have discussion with, so -- and a limited
10 amount of time. So, with that, Scott.

11 MR. MILLER: All right. Thanks, and let me just
12 say, at the outset, I'm Scott Miller, Executive Director for
13 market applications at PJM.

14 As some people may know, I am not a credit
15 professional amongst a sea of credit professionals. I am,
16 however, I guess, playing one on FERC TV right now.

17 But the reason that I am here is, I think, more
18 than anything, is to demonstrate the seriousness with which
19 PJM is trying to deal with the credit issue, as well as the
20 liquidity issue that that imposes on the bilateral market.

21 But, first, let me briefly go through a few
22 outstanding items with regard to our credit exposure and our
23 credit policy, and then briefly get to what it is that we're
24 doing because I think it's very similar to what some of the
25 other ISOs and RTOs are doing.

1 We are, of course, a provider of transmission
2 service that we operate on a profit neutral basis. I mean,
3 technically speaking, we're a for-profit entity, but we
4 operate on a profit-neutral basis.

5 The cost of credit, of course, is borne by each
6 individual member, but if there is any default, that's
7 socialized across the membership, and that, of course, is an
8 issue of why we constantly review our credit policy.

9 And we balance our policies with the protection
10 of the membership with the costs associated with that
11 protection, and, of course, that's something that I think we
12 all share.

13 But our primary risk is one that relates to
14 receivables. Because we operate a short-term market only,
15 our exposure is really in terms of the receivables that deal
16 with this particular short-term market or our short-term
17 markets.

18 The bills are sent monthly on the fifth business
19 day, and they're settled on the 20th of the month, but in
20 terms of provider of a last resort, there is considerable
21 exposure, credit exposure, that could last up to 60 days,
22 and we recognize that this is an issue.

23 Our credit policy is similar to what was just
24 talked about, with New York, is developed through a
25 stakeholder process, and it's often a long stakeholder

1 process.

2 We've been through a couple of revisions to our
3 credit policy since we had a couple of small defaults in
4 2001, I believe they were, and -- but even those changes in
5 terms of credit policy were, by necessity, difficult because
6 it is a collaborative process.

7 The four main parts of our credit policy and
8 practices are probably very similar to everyone else's.
9 There's a credit requirement, an unsecured credit allowance,
10 credit monitoring and special credit requirements with
11 regard to certain different entities.

12 I won't go into all of these items, but I will
13 end because of the need for time on what the near-term
14 activities are that we have been doing.

15 We have pursued initiatives with our members on
16 things such as accelerated settlements. However, it's been
17 made clear to us by a number of our members that accelerated
18 settlements are not something that they want to pursue, and
19 it would likely not meet the sort of super majority outcome
20 that we would need through the stakeholder process.

21 Many entities are on a monthly cash flow basis
22 and they don't want to incur the expenses that would go with
23 changing that to allow for a more accelerated settlement
24 approach.

25 We have what we are now pursuing with our

1 members, a optional accelerated settlement, whereby those
2 that wish to pay earlier than the monthly basis may be able
3 to do that, and, therefore, we can allocate the payments on
4 a pro rata basis to the net suppliers. That's something
5 that has received more acceptance in our processes, but it's
6 something we're also looking at.

7 But, more importantly, I think we're looking at
8 something that, if it bears out scrutiny, may have even
9 better results for the market in terms of liquidity and in
10 terms of removing default risks for our members, while also
11 increasing the likelihood of folks transacting in the over-
12 the-counter and bilateral market, and that's with the third-
13 party clearing option.

14 We have spoken over the past few years with NYMEX
15 Energy clear. We're currently in discussions with NECC. In
16 fact, we're subjecting that to some serious review that we
17 will, if it passes the review, will take to our Board, and
18 ultimately, to our stakeholders.

19 But it is, again, something that we're actively
20 interested in because we think that the markets could stand
21 to have more transactions in the longer term than is
22 currently the case.

23 I'll end by one statistic. We are taking great
24 pride in the fact that, until recently, most of the
25 transactions that occurred in PJM were either self-supply or

1 bilateral. That is still the case, but barely.

2 A few years ago, 15% of the transactions in the
3 PJM area were spot, that meaning in our physical markets.
4 That has grown to 40%, and we believe that that is a direct
5 result of the current credit environment whereby people are
6 more highly incented to transact in the RTO short-term
7 markets, even bilateral markets, even those transactions
8 that are naturally bilateral, rather than doing them with
9 traditional counterparty representation.

10 We would like for the PJM markets to return to
11 more residual levels of the market that we saw before. We
12 would like to be able -- for people to transact in the long
13 term in the forward markets more, and we hope, by looking at
14 third-party clearing options, we may be able to get to some
15 sort of solution in that regard.

16 Thank you.

17 MR. PERLMAN: Thank you.

18 Mr. Ludlow of New England ISO.

19 MR. LUDLOW: Hi. I'm Bob Ludlow, Chief Financial
20 Officer for ISO New England, and I appreciate the
21 opportunity to speak at the conference.

22 I'm going to stick to a description of the near-
23 term policies and practices that we're employing in New
24 England.

25 We're just a couple of days away from

1 implementing what we call "weekly billing," which is
2 shortening that settlement cycle from the monthly cycle that
3 both New York and PJM had discussed, where the hourly
4 markets will be settled on a weekly basis, and then, once a
5 month, for the week that falls when the monthly settlements
6 are due, those monthly settlements will be included on that
7 weekly bill.

8 The benefits that we saw in going this way is
9 that it was going to reduce the collateral requirements that
10 were outstanding, as well as the default risk that was
11 outstanding, and I'll quantify those in a moment.

12 The way we calculate the amount of financial
13 assurance that's still required is that we have a two-part
14 test that we use, which is, basically, applying a factor to
15 some historical values that we know have existed from
16 previous bills or previous activity.

17 We look at what is currently due from a
18 participant, right up through the last settlement period,
19 which still, in today's market structure, is about six days
20 behind. So, even though we're on a weekly billing basis,
21 your exposure that continues to exist out there is about 15
22 days, but as compared to the 50 days that was previously out
23 there, it was a tremendous improvement.

24 To meet financial assurance requirements,
25 participants are allowed, if they have a credit rating,

1 there is certain formulas that are used, identifying
2 straight off the credit rating, to a percentage of their
3 tangible net worth.

4 There is a different paradigm that's used for the
5 municipal entities, recognizing from earlier discussions,
6 their differences between how they're capitalized versus
7 other entities in the marketplace.

8 Similarly, for those entities that are rated that
9 do get the credit, we do backstop that with credit
10 insurance. So there is an \$80,000,000 policy limit that
11 supports the rated entities that are receiving the free
12 credit.

13 When we analyze the benefits of going to the
14 weekly billing, we saw that the amount of exposure that was
15 reduced by going from the 50 days down to the 15 days was
16 approximately \$100,000,000 of default risk that was removed
17 by shortening that settlement cycle.

18 Similarly, we were able to reduce the financial
19 assurance that was required from about \$340,000,000, down to
20 about \$189,000,000 level, based on October 2003 activity.
21 So it was a significant benefit for the marketplace.

22 The other benefits of weekly billing is that we
23 can get the quicker suspension, if people aren't paying
24 their bills on time. We monitor people's positions on a
25 daily basis, and notices will go out immediately if anyone

1 is in default.

2 So, under credit limits and we would still
3 maintain the current forms of collateral which were cash,
4 letter of credit, and a corporate guarantee.

5 As far as the process issues, there weren't many
6 to change to go to weekly billing. Participants needed to
7 accelerate their bill authorization and wire authorization
8 processes, but the fundamental settlement process did not
9 change, so there was very little activity that had to be
10 done on a participant part.

11 And as far as on the ISO side, there were some
12 modest software changes that were needed. No changes to the
13 underlying market rules, and we did implement a separate
14 line of credit to cover diminimus short pays and no pays, so
15 that we can clear 100% of the market each week.

16 The next steps that we're looking at are similar
17 to New York and PJM, and what we believe is the
18 clearinghouse concept. It has the benefits of removing
19 default risk from the marketplace, continue to lower the
20 collateral requirements, due to the shorter clearing cycles.

21 The ability to also net across markets and across
22 commodities would also be a tremendous benefit to reducing
23 the overall capital tied up in this marketplace, and these
24 changes would be much more difficult than the move to weekly
25 billing, and it would probably involve some market rule

1 changes, as well.

2 That concludes my comments.

3 MR. PERLMAN: Thank you. Let's move to Alan Yoho
4 from the California ISO.

5 MR. YOHO: Yes. My name is Alan Yoho. I
6 calculate and manage the credit requirements for the
7 California ISO.

8 First off, I want to say that the California ISO
9 appreciates the Commission's initiative in this very
10 important area, and right now, we are currently reviewing
11 our credit policies. And I believe that the Commission can
12 provide guidance in this area.

13 The comments that I'm going to make are regarding
14 what we would like to see if there was a move toward
15 standardization, and also, some of the issues that we're
16 currently having to deal with as we review our credit
17 policies.

18 First of all, the issues are very complex and we
19 have divergent interests among the market participants,
20 which makes coming up with the standard policy particularly
21 difficult.

22 Some of the things that we would like to see, if
23 there was standardization, is common information and
24 disclosure reporting requirements, a method of developing
25 caps of unsecured credit for the individual participants,

1 but also taking into consideration each ISO's ability or
2 willingness to engage in credit scoring activities.

3 We've had settlement and payment and clearing
4 across the industry, should possibly be standardized, as
5 well, and also, definitions for defaults, such as failure of
6 a participant to meet the credit reporting requirements,
7 failure to pay or settle on time, failure to meet
8 creditworthiness requirements and failure to post required
9 collateral.

10 Also, we'd like to see timelines for default,
11 what occurs when a participant does default, and how the
12 person then would be suspended from the market.

13 We would also like to see the Commission should
14 specify how these issues are to be enforced.

15 We thought that the gas credit noper provides
16 excellent criteria, to start with. However, the magnitude
17 of the credit issues in the electricity industry far exceeds
18 what we saw in the gas industry. We believe that this
19 industry needs its own credit policies.

20 What we have seen as far as negative impacts,
21 possibly from our current credit requirements, are the
22 following.

23 We have an either/or approach to credit
24 management. Entities that have approved credit ratings
25 receive unlimited market transaction credits, and those

1 entities with approved credit ratings are required to post
2 security.

3 We do recognize that certain entities that have
4 not met our standards have indicated that they believe their
5 financial position warranted unsecured credit and as far as
6 tariff is not permitted at this time.

7 Also, we have -- we recognize we have a long
8 payment calendar between 60 and 90 days, and this actually
9 increases the credit requirements for participants, as
10 compared to shorter payment cycles for the other ISOs.

11 We have recently undertaken an initiative to
12 shorten our payment calendar, and that it is progressing as
13 we speak, and we'd like to see that that initiative actually
14 bring us on line with the other ISOs.

15 Also, certain participants have indicated that
16 they have limited participation in our markets because of
17 concerns that the market may not be adequately secured.
18 This sentiments exist although the California ISO markets
19 have been adequately secured since the 2000, 2001 crisis
20 ended.

21 The California ISO believes that the Commission
22 is the appropriate entity to determine how the balance
23 should be struck between net buyers who want to minimize
24 their credit costs, and sellers, who want to market to be
25 fully secured.

1 We believe that the shortening of the settlement
2 period is the most important step that we can take right now
3 to minimize exposure to credit risk, and right now, we allow
4 for net obligations to be on the basis for all market
5 participants.

6 On the issue of minimization of various entries,
7 we believe that providing for a range of collateral posting
8 options would be appropriate. Providing accurate estimates
9 of liability is also appropriate, and reducing the payment
10 timeline.

11 The last thing that -- well, a couple of other
12 things that I want to address, but this one is default of
13 load serving entity designated as a provider of last resort.

14
15 We believe that this issue is one of our greatest
16 challenges, and we believe that the state and local
17 regulatory energies should ensure that default providers
18 remain creditworthy so that the default cannot occur, and,
19 again, this is one of the most complex issues that we have
20 to deal with.

21 On the issue of credit clearing, we believe and
22 we support the efforts to develop credit clearing solutions
23 that may be usable by ISOs and RTOs.

24 Thank you.

25 MR. PERLMAN: Thank you. I want to just clarify

1 one question.

2 From your comments, I understood the Cal ISO to
3 be in favor of or recommend that the Commission standardize
4 a number of things across RTOs and ISOs. Did I understand
5 that correctly?

6 MR. YOHO: That is correct.

7 MR. PERLMAN: Thank you.

8 With that, let's move from the RTOs and ISOs to
9 some of the market participants, and now, Thorne Dickinson
10 with Energy East, which is a group of regulated T&D
11 companies in the northeast.

12 MR. DICKINSON: Which is what I was going to say.

13

14 MR. PERLMAN: Okay.

15 MR. DICKINSON: Thanks for the opportunity to
16 speak, also.

17 Two of our operating companies, NYSEG and RG&E,
18 do a significant amount of energy purchasing for the
19 purposes of meeting our retail energy requirements in
20 upstate New York.

21 And, as a result, we've been very involved in the
22 development of credit policy in New York, and as anybody
23 that can -- has been part of a process of developing credit
24 policy can tell you, it's a very long and painful process,
25 and partly because there is a lot of different market

1 participants, each that has divergent views.

2 And, obviously, some market participants,
3 regardless of how creditworthy I am, may want no collateral
4 because that, you know, enhances their default, you know,
5 their risk position. So, you know, I think that is one of
6 the challenges that the ISOs face in kind of managing this
7 policy, going forward.

8 I think in the whole time in which we developed
9 the policy and worked with the ISO, there are examples of
10 things that worked well. There are also examples where
11 either the original approach that the ISO had laid out or
12 the results of the market participant dialogue, and, again,
13 getting back to this point about divergent views, led to a
14 result that I think was less than optimal.

15 And this is where I think FERC can play a key
16 role to assure that the results of those market participant
17 dialogues, in the form of credit policy, and really, in the
18 basic principles that are in place for that credit policy,
19 assure that both the ISO and the market participant process
20 results in a fair and appropriate credit policy.

21 And maybe just to highlight a little bit that, I
22 think one example from our perspective, and this was talked
23 about a couple of times so far in the conference, is,
24 obviously, we're a load serving entity with provider of last
25 resort responsibility, just mentioned by Alan.

1 Our perspective is that because we have
2 substantial assets in the state, because we have continuing
3 service obligations, even under the event of bankruptcy,
4 that we're going to have a higher likelihood of payment than
5 another counterparty that has exactly the same probability
6 of default and has the same exact credit rating that we do.

7 And, from our perspective, the credit criteria
8 that should be applied should be fair and should assure that
9 every market participant or every market segment has
10 appropriate risks that they bear.

11 That doesn't mean that all those are the same,
12 and what we saw happen in the market participant process
13 again, because I think these divergent views that happened,
14 is we went from the first draft of the policy where a
15 regulated TO that had an investment grade rating, had
16 unsecured collateral unlimited.

17 That got changed to kind of a dual matrix where
18 anybody that was a regulated TO had a certain amount of
19 unsecured collateral, and then all other market
20 participants.

21 And, again, market participants had a dialogue
22 that that was unfair and that, you know, that everybody
23 should have the same standard.

24 Our feeling, again, is that there are reasons why
25 there are differences and why the fact of the role that we

1 play in the state justifies that.

2 So I guess the point that I want to make is that
3 there are certain things that I think FERC can do again to
4 look over the process, to assure that there are some basic
5 principles in place, that when these policies come up from
6 the ISO, they can look towards them.

7 I think, having said that, and in the
8 presentation I handed out, there's a few more things that I
9 think that I point to that, in the interest of time -- and
10 I'll let you look at those.

11 But, having said that, the ISO, right now, is in
12 the process of reaching out, I think, in a much more
13 complete way than they have since they have implemented the
14 policy, partly from your encouragement. And, you know,
15 we're hopeful that they listened to some of the concerns of
16 the market participants, that we have towards kind of
17 improving the current credit policy, and some of the
18 problems that we think exist with that, to creating, again,
19 a credit policy that we think is fair and efficient other
20 all market participants.

21 MR. PERLMAN: Thank you.

22 To Billy Dixon from BP-Amoco.

23 MR. DIXON: Good afternoon. My name is Billy
24 Dixon. I'm the Chief Credit Officer for BP Energy Company.

25 BP Energy Company is the largest marketer of

1 natural gas in the U.S. and the fifth largest power marketer
2 in the U.S.

3 I would like to thank the Commission for taking
4 an interest in these areas regarding credit and for
5 sponsoring this technical conference, and for taking such a
6 strong interest in the development of efficient power
7 markets.

8 I'd also like to start my comments by saying that
9 these are my personal opinions and do not necessarily
10 represent the opinions of my employer, BP Energy Company.

11 There is an often quoted saying that there's no
12 such thing as a free lunch. Somebody always pays for the
13 lunch, and in the case of the current structure of RTO and
14 ISO credit requirements, the creditworthy members are
15 paying, and unfortunately, we don't even know exactly how
16 much the bill is.

17 So the problem, from BP's perspective, is that
18 we're a very financially strong company and we're very
19 unlikely to default, but we don't know exactly what our risk
20 is going to be if a member defaults because the RTOs and
21 ISOs are not even calculating exactly how much risk each
22 particular market participant is creating when they enter
23 the real time and day ahead markets.

24 We think that that's an unfair and unduly
25 discriminatory system. We need a system and we support a

1 system of clearing for the real time and day ahead markets
2 because the clearing model has been shown, over a long
3 period of time, to be a very sustainable model.

4 What they do in a clearing model is they
5 calculate what the potential risk is if a default occurs,
6 and then they require every market participant to adequately
7 back those obligations usually with collateral of cash or
8 letters of credit.

9 So I recommend that the FERC consider
10 reconstructing the RTO and ISO markets so that you separate
11 the financial and physical components of power transactions.

12 The RTOs and the ISOs came from a system where
13 they were very good at physical electrical system
14 reliability, so they were brought up in the old world where
15 they controlled the grid and did a very excellent job of
16 doing that. And I would suggest they continue that role of
17 insuring electric system reliability.

18 But they are not experts at credit risk
19 management and settlements, financial settlements. The
20 clearinghouses and other private participants have developed
21 systems and capabilities to adequately control the credit
22 risk management of a particular market and to handle
23 financial settlements.

24 If there were more market participants
25 participating in these markets, there would be financial

1 players who currently do not participate in physical
2 markets, like hedge funds and banks. They would be
3 interested in participating in markets where there was a
4 good structure that was -- where they could trade in market
5 power that was financially settled.

6 Increased market liquidity would lower
7 transaction costs. Lowering transaction costs are a good
8 benefit for consumers. Consumers ultimately benefit from
9 lower transaction costs by receiving a lower price for the
10 power that they have.

11 Unfortunately, the unique nature of power markets
12 does create a certain problem when trying to go to a
13 clearinghouse model, and that is, unlike other markets, the
14 lights must always remain on. So even if someone defaults,
15 their retail load must always get power the very next minute
16 after their aggregator or retail electric provider or
17 utility defaults on their obligations to pay.

18 So it's not a simple matter to convert to a
19 clearinghouse type model, but what I would suggest is that
20 what we need to go to this type of model is we need
21 additional state regulations. We need public utility
22 commissions from the states to promulgate regulations which
23 provide the just and reasonable cost incurred by the
24 clearinghouse or the provider of last resort in covering
25 these costs related to default by a defaulting member, or

1 borne by the consumers, and will be repaid to the
2 clearinghouse.

3 In fact, I think without that type of backstop
4 for a clearinghouse model, I don't think the clearinghouse
5 can work because the members themselves cannot put up enough
6 collateral to back that type of -- excuse me -- to back that
7 type of default risk.

8 Another potential structure would be the load of
9 a defaulting member would automatically revert to the RTO
10 and the ISO upon a member's default, and then state tariffs
11 could provide the RTO or ISO is entitled to 100% recovery of
12 its just and reasonable cost during the transition period
13 from the default and the transfer of the load of the
14 customers to another solvent clearinghouse member.

15 This structure would prevent any disruption to
16 affect the consumers, and would also prevent any financial
17 loss to the remaining members of the clearinghouse.

18 My vision or goal would be to create a long-term
19 and sustainable wholesale power market, and I think
20 financial clearinghouses are needed for the real time power
21 markets, operated by the RTOs and ISOs to achieve this
22 result. And I think, with that, more market participants
23 would participate in these transactions increasing
24 liquidity, lowering costs and creating a sustainable
25 marketplace.

1 And I want to thank you for the opportunity to
2 present my personal opinions on this subject.

3 MR. PERLMAN: Thank you.

4 Let's move to Mr. Daniel Doyle of the Midwest
5 Standalone Transmission Companies. Mr. Doyle.

6 MR. DOYLE: Good afternoon. Is this on? I think
7 so. The light's on. Okay.

8 My name is Dan weapon Doyle. I'm Vice President,
9 Chief Financial Officer of American Transmission Company,
10 located in Wisconsin.

11 I'm here representing the Midwest Standalone
12 Transmission Companies, which are a consortium of separate
13 transmission only companies that operate and belong to the
14 MISO RTO.

15 We are transmission only companies. We own,
16 operate and construct transmission, and we are not market
17 participants in the sense that we engage in energy
18 transactions, etc.

19 I'd like to break my comments up into two general
20 categories. One is sort of the broader aspect of why we're
21 here, and I refer to the Commission's notice for this
22 technical conference. It was basically to consider the
23 question of whether we ought to engage in generic rulemaking
24 around the issues of creditworthiness.

25 We believe that the answer to that question is,

1 yes, and I think that's borne out by the complexity of the
2 matter, as we've heard today, and will continue to hear
3 through the rest of the day.

4 But we'd like to offer a couple of suggestions in
5 terms of the direction of such a proceeding.

6 Number one, we think that the Commission's goal
7 ought to be to come up with guidelines and parameters and
8 general criteria for creditworthiness primarily due to the
9 fact that we have a very, very fractionalized market at this
10 point in time in the electric industry. We have RTOs. We
11 have ISOs. All operate with different rules and systems.

12 We've got separate companies that are acting as
13 transmission providers outside of RTOs, and it's a very
14 complicated environment.

15 Layering on the complexity, and I'll be specific
16 with MISO, we're in the process of looking at day two
17 markets, which will totally change the market transactions
18 that we'll be engaging in, FTRs, virtual energy. The list
19 goes on.

20 Each one of those transaction classifications
21 will bring with it its own potential creditworthiness
22 issues.

23 Secondly, we are looking at, under separate
24 document, different pricing strategies, whether it be, you
25 know, the classic license plate, postage stamp, highway,

1 byway, or other congestion or flow-based models.

2 Those pricing strategies will have an impact on
3 the current cash flow and billing structures, and all of
4 that ought to be considered in tandem so we don't develop a
5 strategy that doesn't address where we're heading in the
6 future.

7 We believe that the overall policy issue or the
8 central policy issue is, quite frankly, a balance of two
9 separate issues. In the context of developing a liquid
10 marketplace, I think the first balance is how do we
11 establish reasonable creditworthiness standards for
12 individual market participants with who's going to pay for
13 the default?

14 In MISO, defaults are socialized or mutualized --
15 choose your word. I don't think we ought to be, nor do the
16 MSATs agree that we ought to take on a situation in that
17 mutualization of default risk, an inordinate level of moral
18 hazard on the greater population to take on those who may
19 not bring adequate levels of creditworthiness to the
20 marketplace.

21 The second issue is one -- I've read the
22 comments, not word for word, of most of the participants,
23 and there's a lot of talk about barriers to entry on the
24 demand side.

25 Is creditworthiness being used as a competitive

1 weapon, if you will?

2 I think that's an appropriate issue to address,
3 and it's a necessary issue to address, but I think you have
4 to flip the coin and look at the other side.

5 If you put too much credit risk on the suppliers
6 in the equation, you can create a barrier to participation
7 in the marketplace, and that the second balance which needs
8 to be addressed.

9 Liquidity works on both sides. If you don't have
10 enough demand and there's too much supply, you can have not
11 enough supply and too much demand, and that question has to
12 be dealt with, as well.

13 Finally, we believe that the focus ought to
14 really be on the process of adjudicating and administering
15 creditworthiness. In a fractionalized market, a fair, non-
16 discriminatory process is not likely to result in equal or
17 similar credit extension to all entities. There are going
18 to be differences.

19 The goal ought to be that the processes we select
20 result in equal and similar credit extension to market
21 participants that have similar fact patterns. In other
22 words, the process shouldn't create a great standard
23 deviation out the back end. That will potentially reassure
24 us that we got the appropriate balances on barriers to entry
25 and sharing of moral hazard risks.

1 In terms of some of the specific points that I'd
2 like to address, there's a fairly significant debate going
3 on inside MISO back the netting of various transaction
4 categories in terms of aggregating credit extension and
5 collateral and security and the like. The perspective that
6 I would like to bring is a standalone transmission company
7 perspective.

8 If you commingle transmission service revenue,
9 which for American Transmission Company, that's all we do.
10 We sell transmission and we get that revenue.

11 If you commingle that revenue stream in with FDR
12 transactions, congestion transactions, energy transactions,
13 virtual transactions, and you end up with a system whereby
14 collateral may not be, or creditworthiness administration
15 may not be adequate to cover us, we end up becoming more
16 risky by joining an RPO. And we don't think that, as a
17 standalone transmission company, that ought to be the case.

18 Furthermore, the issue -- I am not a lawyer and
19 I'm not going to play lawyer here. There is an issue that's
20 being bantered about around bankruptcy and whether this
21 whole netting question impacts on the ability to retain
22 certain bankruptcy preferences for utilities in bankruptcy
23 situations.

24 I've talked to several attorneys. The issue is
25 really a breaking new ground issue, given the formation of

1 RTOs, etc., and I think it's one that needs to be
2 appropriately vetted because if we can retain an access to
3 prevent default in an avenue for recovery, we basically
4 answer a part of the question, part of question seven, I
5 believe. You raise how can we mitigate credit risk?

6 Well, keep open avenues of recovery, and you do
7 that.

8 Notwithstanding the issue of increasing risk by
9 joining an RTO for standalone transmission companies as it
10 relates to transmission service revenue, we're taking the
11 position, at this point, of not netting until we resolve the
12 bankruptcy issues and figure out what we really need to do
13 here and what way we have.

14 For example, in the day two market for MISO, you
15 might have an energy transmission that creates congestion,
16 that then gets offset by an FTR. We believe those are
17 linked and ought to be potentially netted.

18 The final issue that I have for you is one of
19 transparency. We've been working with MISO. MISO is our
20 agent for billing and collection, and we are not able to see
21 any of the credit administration criteria for our customers.
22 We believe that we ought to be able to see those, and would
23 ask the Commission to look at that issue more closely.

24 Thank you.

25 MR. PERLMAN: Thank you.

1 Let's move to Patrick McCullar from Delaware
2 Municipal Electric Corporation.

3 MR. McCULLAR: Good afternoon, and thank you,
4 David.

5 I'm Pat McCullar. I'm President of the Delaware
6 Municipal Electric Corporation, a joint action agency
7 serving nine municipal distribution utilities in the State
8 of Delaware.

9 I also represent the PJM Public Power Coalition,
10 which is a group of PJM members that are cooperative and
11 municipal load serving entities.

12 I appreciate the opportunity to present comments
13 to the Commissioners and the staff, as they consider
14 appropriate standards and guidelines for industry-wide
15 credit policies.

16 As an overarching statement, the cooperative and
17 municipal load serving entities that I represent at PJM are
18 generally satisfied with the approach PJM is taking, the
19 credit policies for market participants.

20 The PJM credit policies have typically been
21 flexible and willing to recognize the differences in
22 corporate structures of members and market participants.

23 While we have, from time to time, needed to raise
24 our concerns to PJM and point out some illogical or
25 inequitable policies regarding municipals and cooperatives,

1 PJM has always listened and make appropriate adjustments.

2 As ISOs, RTOs and jurisdictional transmission
3 providers consider their ongoing credit policies, they
4 should cooperatively seek to implement consistent and
5 predictable rules, and they must recognize and provide for
6 the diversity and corporate forms of the organizations that
7 participate in their wholesale electric and transmission
8 service markets.

9 Rated cooperatives and municipal organizations
10 typically can be credit scored directly from the current and
11 ongoing ratings agency reports in much the same manner as
12 investor owned utilities. However, smaller, non-rated
13 municipals and cooperatives should be specifically credit
14 scored according to their unique financial attributes, and
15 not forced into the for profit corporate rating model where
16 they do not belong.

17 While it may not be necessary for the Commission
18 to promulgate industry-wide rules, the Commission should
19 take steps to address any unreasonable differences among the
20 practices adopted by various ISOs and RTOs or that the
21 Division Chief is making or specific treatment of
22 unreasonable practices.

23 I would like to suggest some concepts to
24 consider. Socialization of credit risk is not in the
25 interest of financially sound market participants. Credit

1 policies should be crafted to protect financially sound,
2 low-risk market participants from defaults caused by
3 entities that are not financially able to meet their
4 obligations in the market.

5 Two, accelerated market settlements are not
6 universally needed, but may be a good alternative to
7 collateral postings that may be required for some entities
8 who cannot otherwise meet their credit requirements.

9 Optional accelerated settlements for low-rated
10 entities increase the protections for all market
11 participants, while not unduly increasing the operational
12 and cash flow burdens of high-rated entities.

13 Three, security and collateral requirements
14 should be evaluated on a net obligation basis, meaning
15 charges and revenues in different markets operated by the
16 same service provider are netted against each other.

17 It makes little sense to require security to be
18 provided for the gross amount of congestion charges billed
19 by an ISO when those congestion charges will be largely
20 offset by ISO payments to the same customer for financial
21 transmission rights.

22 Similarly, transmission access charges should be
23 offset by credits for customer owned facilities.

24 And, four, it is critical that service providers
25 recognize the cost impact of any credit enhancement rules

1 and balance cost against the effect.

2 While credit enhancements are absolutely needed
3 for market participants that do not exhibit creditworthiness
4 to protect service providers and other market participants,
5 universal application of these credit enhancements to all
6 market participants will only inhibit the liquidity of
7 competitive markets.

8 Thank you for this opportunity to make comments.

9 MR. PERLMAN: Thank you.

10 With that, let's move to our next speaker,
11 Francis Pullaro of Strategic Energy.

12 MR. PULLARO: Good afternoon. My name is Francis
13 Pullaro. I represent Strategic Energy. It's a load serving
14 entity, serving load at retail in nine states.

15 I would like to thank you for the opportunity to
16 discuss solutions that will eliminate unnecessary collateral
17 costs companies like mine face in being in RTOs or ISOs.

18 My presentation today serves to inform you of one
19 cost reducing and risk reducing proposal offered by
20 Strategic Energy for the New York market.

21 After years of discussion by market participants
22 at the New York independent system operator, the NYISO still
23 cannot settle flexible internal bilateral energy contracts,
24 using less costly and less risky net settlement employed in
25 its adjacent markets.

1 In PJM, we know the software system as E
2 schedules. Unlike PJM, NYISO's scheduling system prevents
3 market participants from using a flexible internal bilateral
4 in which the buyer receives the contracted price for energy
5 and the supplier is free to pay the market price for energy
6 or to self supply.

7 Instead, the NYISO sees LSCs as meeting its
8 entire load obligation through the day ahead market. NYISO
9 calculates then the LSC's collateral requirements on the day
10 it had purchases, but without using schedules to subtract or
11 net the bilateral transactions.

12 Excuse me. The NYISO's inability to not settle
13 firm, liquidated damages contracts or firm LD causes LSCs to
14 post collateral with the NYISO, even if they have a
15 counterparty willing to accept the LSC's load obligation.

16 Currently, the only contracts accepted by the
17 NYISO for settlement are unit specific contracts, which are
18 risky and inflexible compared to a firm LD, because it has a
19 single unit as a resource.

20 A firm LD contract allows an LSC to purchase
21 power from a portfolio of resources. The NYISO's
22 nonacceptance of a physical, bilateral for settlement
23 purposes forces a risk averse ESCO, as we're known in NYISO,
24 to use a contract price -- excuse me -- to use a contract
25 for differences, or CFD, to substitute the contract price

1 for the spot market price.

2 Under net settlement, like in PJM, less cash will
3 move through the NYISO, and the market participants will all
4 realize a lowering of risk. Additionally, net settlement
5 provides some incentives for LSCs to purchase long-term
6 bilateral contracts from wholesale suppliers in order to
7 lower their collateral costs.

8 Long-term contracting is a stated goal of the
9 Commission. It's designed to increase market liquidity,
10 provide safeguards against short-term market power, and
11 sends the right price signals to generators who are looking
12 to build.

13 As of the spring of 2004, the inability of the
14 NYISO to perform net settlement of bilateral contracts
15 resulted in Strategic Energy's cost of collateral for
16 wholesale purchasers to serve one megawatt hour of load in New
17 York, being almost four times greater than the next nearest
18 market, and that's NEPOOL.

19 Strategic Energy has collateral in New York in an
20 amount almost eight times greater than any other market
21 where it provides power supply. In all other markets, net
22 settlement enables counterparties to inform the system
23 operator of all their physical bilateral schedules. These
24 other system operators use schedules for financial
25 settlement.

1 The lack of net settlement in an ISO or RTO
2 needlessly increases costs. Strategic Energy recommends
3 standardization to include a requirement that an ISO or RTO
4 perform net settlement.

5 And that concludes my opening remarks. Thank
6 you.

7 MR. PERLMAN: Thank you.

8 Let's move to our last speaker, Scott Strauss,
9 for the Massachusetts Municipal Wholesale Electric Company.

10 MR. STRAUSS: That's correct. Good afternoon.
11 I'm here today on behalf of MMWEC and its 25 municipally
12 owned electric system members, who want to thank the
13 Commission for the opportunity to participate in today's
14 conference and present their perspective on creditworthiness
15 issues.

16 MMWEC is involved in developing New England's
17 financial assurance policies through its participation in
18 the New England power pool, and as of today, final approval
19 of any changes to the region's financial assurance
20 requirements would require a modification to the NEPOOL open
21 access transmission tariff, and that requires the support of
22 a super majority of the NEPOOL participants.

23 There's been discussion today of the painful
24 nature of stakeholder processes, and we believe that these
25 processes, however arduous, are critical.

1 NEPOOL is broadly representative of industry
2 sectors and super majority support is generally, though not
3 always, indicative of workability and reasonableness.

4 With respect to the NEPOOL arrangements, there
5 are certain key elements I'd like to point out.

6 First, we believe the arrangements are
7 transparent and objective. The financial assurance policy
8 for NEPOOL members is an attachment to the NEPOOL OATT, and
9 details the obligations of municipal and non-municipal
10 entities.

11 The policy is written in straightforward terms,
12 and its implementation by an independent entity, the ISO, is
13 not dependent upon discretion. The intent is that a market
14 participant be able to review the policy and determine its
15 obligations promptly and with certainty.

16 Second, the NEPOOL arrangements are flexible and
17 reflect the creditworthiness of municipal entities.
18 Municipally owned entities has been mentioned a couple of
19 times today, generally have strong and stable credit ratings
20 that are more positive than many of their non-municipal
21 counterparts.

22 When analysts look at the overall credit risks
23 posed by the New England markets, the more positive
24 municipal ratings help to counterbalance the less positive
25 ratings of non-municipal participants, and the financial

1 assurance policies reflect this reality.

2 Both municipal and non-municipal market
3 participants with investment grade credit ratings are
4 relieved of the obligation to post collateral. Relatively
5 smaller municipally owned systems that do not have credit
6 ratings are able, through arrangements with MMWEC, to meet
7 the credit ratings requirement and avoid the collateral
8 postings.

9 Non-municipal entities have credit limits set on
10 the basis of a percentage of their net tangible worth, and
11 as Bob Ludlow alluded to, the percentage is based upon the
12 strength of an entity's credit ratings.

13 But, by contrast, the credit limits imposed upon
14 municipal entities are not tied to ratings and percentages.

15 Third, the NEPOOL arrangements have been adjusted
16 over time to respond to experience in the marketplace.
17 Changes have been made in response to the bankruptcies of
18 certain participants and the decisions of others to exit the
19 marketplace entirely.

20 Most recently, and as Bob described, weekly
21 billing, which has been Commission approved, will go into
22 effect in two days. The premise of it is that by selling
23 power on credit over a shorter period of time, the amount of
24 collateral required from the participants will be less and
25 collective exposure in the event of a default will be

1 reduced.

2 As municipal entities do not generally need to
3 post collateral, weekly billing benefits them to the extent
4 that the administrative burdens associated with this
5 implementation are outweighed by the benefits of a limit on
6 exposure in the event of a default.

7 Fourth, we believe the NEPOOL arrangements are
8 workable. MMWAC has seen no evidence that worthy entities
9 have been kept out of the NEPOOL markets because of the
10 financial assurance requirements. This may reflect that
11 policy development occurs through the NEPOOL stakeholder
12 process in which participants who are interested in less
13 stringent credit requirements must find common ground with
14 those who seek more strict policies and near complete
15 assurance of payment in every instance.

16 MMWAC understands that the Commission is here
17 considering standardizing credit practices across regions.
18 To the extent the Commission does so, it should ensure that
19 its efforts do not require dismantling the work that has
20 been done in New England to develop flexible
21 creditworthiness policies.

22 In the order approving weekly billing in New
23 England, and in other orders approving creditworthiness
24 arrangements in PJM in New York, the Commission noted that
25 it would give due deference to stakeholder approved credit

1 and collateral requirements, though it must, of course,
2 still decide if a given proposal is just and reasonable. We
3 ask that the same considerations apply to any actions taken
4 in this proceeding.

5 A possible approach could be for the Commission
6 to set minimum creditworthiness standards or conceptual
7 guidelines, but provide each region the direction to develop
8 and propose additional standards, consistent with the
9 guidelines.

10 To the extent this approach is pursued, we ask
11 that the Commission's guidelines not prohibit New England
12 from continuing to implement its existing financial
13 assurance policies, and in addition, we ask that any such
14 guidelines or specific standards should take into account
15 the credit risks posed by municipal entities, and the fact
16 that they are likely to be substantially less than those
17 posed by their non-municipal counterparts.

18 Thank you.

19 MR. PERLMAN: Thank you.

20 I'll start with this question: It seems to me,
21 from what I've heard and what I understand to be the issues
22 in archeolized markets, that, as Mr. Dixon pointed out,
23 there is a concern about mutualized default risk. So the
24 first thing that you ought to do is two that you can do to
25 reduce the amount of loss there would be in the event of a

1 default.

2 So should the Commission -- I guess should the
3 Commission propose, suggest, advise, require, whatever, some
4 kind of process where you do things like everybody reduces
5 the settlement period, everybody tries to implement netting,
6 recognizing bankruptcy issues, assuming that can be
7 overcome, looks at things like the firm LD, physical
8 contract offset for the otherwise obligation for power, to
9 reduce, in a responsible way, the overall risk that would
10 come from a default, and act to require the ISOs to make
11 that a priority, doing those things a priority?

12 Is that something that would make sense or
13 something the Commission should consider?

14 MR. McCULLAR: I think all of those bear close
15 examination and consideration.

16 The one concept I would like the Commission to
17 keep in mind, however, is as they consider how to do this,
18 please be sure to target the requirements on those who are
19 causing the problem, rather than broadsweepingly apply the
20 policies to every market participants, because many of the
21 market participants come to the market already prepared,
22 credit-wise, and we really need to protect those
23 participants who are doing their part by requiring those who
24 come to the market not ready, credit-wise, to provide
25 adequate collateral or other assurances to prevent harm to

1 the other market participants.

2 MR. PERLMAN: Let me ask you a question and then
3 if you all could -- anyone who would like to answer my
4 question. But just to be sure, just before we lose you --
5 I'm doing the next panel -- I've heard a lot about people
6 considering clearing options, and my understanding of how a
7 clearing option would be implemented in an RTO is there
8 would be potentially daily margining and things like no
9 reliance on credit, but a requirement for there to be
10 posting of collateral rather than margining -- excuse me --
11 rather than relying on credit.

12 So a municipal entity that had an exposure that
13 came about through some sort of market spike or something
14 could conceivably be margined for its market to market
15 exposure in a clearing market.

16 Is that something that you would have issues
17 with, or is that something that you think would be a good
18 way to potentially move forward in implementing clearing in
19 these markets?

20 MR. McCULLAR: I think, as a tool to reduce
21 transactional risk, it's great. However, my bigger concern
22 is that to create a clearing market would invite in other
23 market participants, who could potentially increase credit
24 risk and increase volatility in the markets. So I think
25 that has to be looked at with a wide angle lens, and not

1 just as a narrow solution to this immediate problem we're
2 discussing today.

3 MR. PERLMAN: Thank you.

4 Is there anyone else --

5 MR. DAVIS: Also, as to clearing, as one of the
6 other speakers observed, I think there is no such thing as a
7 free lunch, and so we are, very generally, talking about the
8 introduction into an ISO or RTO market of another party, a
9 third party, performing a service.

10 There will be, inevitably and appropriately,
11 costs that result from the performance of that service, and
12 so, in assessing the benefits that might accrue from the
13 introduction of this third-party service, the ISO, RTO and
14 its market participants also have to look at the costs.

15 And, very generally, I mean are the market
16 participants, as a whole, any ISO, and, ultimately, the
17 Commission, going to be able to conclude that the community
18 is better off, in the aggregate sense, after the
19 introduction of the clearing function by the new third party
20 than it was before?

21 MR. PERLMAN: Thank you, but I just, with my
22 earlier question, would you agree that the Commission should
23 be promoting shorter settlement periods, and netting
24 whatever is possible to reduce credit exposure in RTO
25 markets?

1 MR. DAVIS: Well, on that score, I would say
2 that, again, as one of the other speakers noted, I think
3 many of us would agree that certain very basic principles or
4 guidelines or parameters or minimum might be appropriate,
5 but that as you move away from general principles into the
6 details of how many days for this function, how many dollars
7 for that measurement, which particular reporting service to
8 use, and the rest of it, it is increasingly difficult to see
9 obvious opportunities for improvement because each of the
10 ISOs and RTOs already administers a market with a number of
11 products and a cross-section of market participants.

12 Together, they have a profile and a set of
13 perspectives about their appetite, collectively and
14 individually, for risk, and those judgments, through the
15 governance process, are reflected in what's in place now.

16 And they are similar, in many respects, but they
17 differ from ISO to ISO, just as you would expect from
18 different markets to different markets in the regions, and I
19 think those differences have to be carefully respected.

20 MR. MILLER: I think it's certainly appropriate
21 for the Commission to suggest that the RTOs and the ISOs
22 look at, for example, accelerated settlement and look at
23 every item that has the potential for reducing collateral
24 requirements and reducing default risk, because the two are
25 kind of tied together.

1 Whether requiring them, I think, is something
2 that's going to be awfully difficult for the Commission to
3 do under the circumstances because, you know, you rely on
4 the stakeholder process to vet whether or not, you know,
5 this is truly and, you know, meets a requirement that can
6 stand up to the public interest.

7 And in requiring, you know, an accelerated
8 settlement, I can make a case for that sort of thing.

9 What is better is, as we look at things, such as
10 third-party clearing solutions, where, because of the
11 thresholds that we have to meet in terms of membership
12 acceptance, you know, we're going to have to demonstrate to
13 the members if, for example, some form of accelerated
14 settlement or some form of third-party settlement is going
15 to be, once we factor in all the costs and everything like
16 that, is in the best interest.

17 I mean take for us, as an example, I mean we're
18 actually going through the due diligence right now where we
19 hope to, at the conclusion of that, calculate it, and if we
20 can demonstrate that it's a net benefit to our members, then
21 we'll take it to our members.

22 But we won't take it to our members unless we've
23 done the analysis first. So I think suggesting those sorts
24 of things is certainly appropriate.

25 MR. DICKINSON: And, I guess, just to chime in on

1 that, I think we have a similar perspective related to, you
2 know, to settlement type issues, and I think the concern
3 that we have at the New York ISO is that, already, there is
4 challenges related to the current billing and settlement
5 process.

6 And I guess we're concerned that if there's an
7 obligation that they move to a shorter period of time, can
8 they improve the process that they already have, I think,
9 the problems with?

10 So, that's one of the concerns we have associated
11 with that.

12 I think the other is just that if we're going to
13 move in that direction, that it be an option so that, you
14 know, obviously, we -- I think everybody's concern is
15 related to their cost of credit risk, both from the
16 perspective collateral and from their exposure to mutualized
17 market defaults.

18 And, to the degree that a shortened settlement
19 period, as long as we can, you know, clean up the billing
20 and settlement process, and that be an option to a company,
21 I think that's good. But to the degree that it's a forced
22 requirement that may, actually, cause higher working capital
23 costs, we might be more efficiently able to do it a
24 different way.

25 I think that's a better approach.

1 MR. PERLMAN: Let me just ask you to follow up on
2 that.

3 If there was no -- if it was all optional and
4 nobody did anything and there was a default, then it would
5 be appropriate for the Commission, I would think, to say,
6 "Let the socialized recovery of that default take place, and
7 let the chips fall where they may.

8 "We're really not interested in you coming here
9 and complaining about it, because we're trying to get ahead
10 of that issue, and that's one of the reasons we're
11 discussing it.

12 "But if you're going to accept the risk inherent
13 in having the status quo, and you have socialized the fall
14 risk, then please tell me."

15 You would be -- you would accept the
16 ramifications of the default that as it would hit you on a
17 pro rata share.

18 MR. DICKINSON: Well, I guess I'm not
19 understanding what you're saying because I would understand
20 the -- under two approaches where somebody has an option
21 where they can either post collateral based on, you know, a
22 weekly settlement versus a monthly settlement, that the
23 exposure calculation -- in my mind, the way the ISO should
24 approach that is that risk should be equally collateralized.

25 So, from our perspective as being a separate

1 party, there should be no additional risk from that. It's
2 just how that counterparty collateralizes the risk.

3 I think that's what you're saying. We don't see
4 the risk the counterparty would have would change the risk
5 to us as being a potential exposure to that default.

6 MR. DICKINSON: Well, I think you're right, in
7 theory, but I guess in the event that something happened in
8 the meantime or there was less than perfect credit analysis,
9 the longer the period of exposure, the bigger the default
10 risk, you know, that it's all -- we heard this morning it
11 was an art and a science, to the degree you're not a good
12 artist.

13 MR. PERLMAN: Yeah, and I think the same is true
14 in the effect of billing and settlement process. So, I
15 mean, if, you know, you're going to push that degree, I
16 think there has to be some accountability to the ISOs to
17 make sure that that's efficient.

18 MR. DICKINSON: But the question for you is, if
19 nothing was done, are you comfortable with the default risk
20 you currently bear?

21 MR. PERLMAN: I think, as a positive statement,
22 the ISO has moved towards a degree where the transmission
23 owners shared, by themselves, all of the default risk of the
24 ISO to the credit policy.

25 Now, where it's more mutualized across a number

1 of parties, and there are improved collateral requirements
2 amongst the parties. So we're definitely happier with the
3 system that we have.

4 We think there's areas where they can be
5 improved, and I think to the degree that those things can't
6 be worked out through the market participant process, that's
7 where I think we look to you to say, "Hey, there's things
8 that can be improved and made more efficient here."

9 MR. DIXON: I would just challenge -- I know the
10 ISOs and RTOs have made a lot of improvements in the credit
11 policies and the standards and the application of them to
12 collateral in recent time, but I would challenge that they
13 still really don't know what their true risk is to their
14 market participants and what the mutualized default risk
15 that they're going to subject each market participant to on
16 a mutualized basis really is.

17 And, you know, to answer the question about the
18 cost of clearing, I definitely think the cost of clearing
19 needs to be weighed against the market liquidity, the
20 increased market liquidity and lower transaction costs that
21 all stakeholders, including consumers, would benefit from.

22 You know, I don't think that that particular
23 challenge should be shut down. I think it should be taken
24 up.

25 I think the cost of clearing itself needs to be

1 weighed against and calculated against the increased benefit
2 to consumers that would result from additional market
3 liquidity, and the lowering of volatility, because when you
4 have more market participants, you actually lower volatility
5 in markets, and you don't increase it, so --

6 MR. MILLER: I'd mean to prolong your question,
7 but I do think that's the key thing, when it comes to the
8 RTOs. I mean, to the extent that our members have sort of
9 said, you know, "We're comfortable with the default risk
10 because we don't want to accelerate the settlement," you
11 know, or decrease the settlement timeframe, you know, they
12 have spoken on that.

13 On the other hand, I think, just as people who
14 are concerned with the market, per se, the bigger issue that
15 is out there, I think, is the fact that there is not as much
16 liquidity out in the bilateral market.

17 And what a clearing solution hopefully could do
18 by including the RTO markets in that is facilitate liquidity
19 in the bilateral markets so that you don't have so much in
20 the short-term markets. So then you get an "Uh-oh" in terms
21 of volatility in the short-term markets, and that has
22 unhappy consequences across the spectrum, both economically,
23 politically and otherwise, and it's just bad for the
24 competitive market.

25 MR. DIXON: Yeah. There has been, as Scott

1 pointed out earlier, in the PJM market, there has been a
2 shift in short-spot transactions from 15% to 40%, and the
3 reason why is because there, in my opinion, is not enough
4 margining going on in the spot markets.

5 If they were charging the real cost of default
6 risk to the market participants, they would force them to go
7 back into the bilateral market and deal with the more
8 stringent, and probably more appropriate, credit constraints
9 that exist right now in the bilateral market?

10 MR. PERLMAN: Anybody else want to take the
11 question of reducing the credit risk through shortening
12 settlement periods or netting?

13 MR. YOHO: Alan Yoho, the California ISO.

14 Again, we have a statement that says basically
15 that we think the Commission is the appropriate entity to
16 balance the needs of the net buyers and the net sellers, and
17 we would look for time specifications.

18 MR. McCULLAR: I guess -- pardon me. Thank you.

19 I just want to make one quick comment.

20 In PJM, we have kicked this accelerated
21 settlement process around quite a bit, and I think where we
22 have landed, as a group, is to say accelerated settlements
23 adds cost to everybody, and while it theoretically reduces
24 default risk, we're not sure it's worth the price.

25 What we have settled on is to make it an option

1 for those entities who do not otherwise qualify under credit
2 scoring, and would be required to post a cash collateral.
3 They could optionally have a shorter settlement period for
4 just those people to reduce their cash collateralization.

5 That increases the protections to all the
6 members, without unduly adding cost to all the members.

7 MR. CHOO: Just in a general belief, or at least
8 the clearing proponents have suggested that if you can clear
9 across multiple markets and have a larger population of
10 people participate, you will get even greater benefits from
11 the multilateral netting.

12 Are there any opinions here that would support or
13 maybe deflect from, you know, having kind of a common
14 netting or netting arrangement across markets?

15 MR. PERLMAN: Go ahead.

16 MR. MILLER: When you say -- I want to just ask
17 to clarify. When you say, "across markets," are you saying
18 across --

19 MR. CHOO: Across the ISO, for example.

20 MR. MILLER: -- RTO markets --

21 MR. CHOO: Yeah, and --

22 MR. MILLER: -- versus commodities, like fuel and
23 fuel markets and things like that?

24 MR. CHOO: Yeah. Across ITO markets and
25 potentially no -- getting the bilateral transactions

1 involved, as well.

2 MR. MILLER: Well, one of our members -- one of
3 our more prominent members filed comments that said they
4 would love to get to a place where they get a shorter
5 settlement timeframe, but they would also like to get to the
6 point where you can net say PJM and MISO transactions and
7 that sort of thing.

8 And we'd like to get to that. The problem is
9 that I don't know how you can net across RTO markets without
10 there being a third party involved.

11 And so you sort of get back to the third party
12 clearinghouse solution in order to facilitate that sort of
13 thing.

14 And under some scenarios, you'd also be able to -
15 - you would do the, not only net the RTO transactions, spot
16 market transactions, but also the OTC and, conceivably, even
17 the fuel positions, too.

18 And, you know, I mean from a theoretical
19 standpoint, that sounds like that would be, you know, just
20 dandy. But, you know, it's one of those sorts of things,
21 before we take it to the members, we've got to quantify the
22 results.

23 MR. LUDLOW: After we got through weekly billing,
24 we started on looking at this clearinghouse model concept,
25 and have met with NECC, as well NYNEX. And it's clear to us

1 that there is a big benefit that can be gained by having
2 this cross market, cross commodity ability of netting those
3 positions in order to reduce the capital that's tied up
4 right now.

5 The other benefit is that the whole mutualization
6 issue goes away, so that's a tremendous benefit to adopting
7 the clearinghouse model through this third party.

8 MR. DIXON: I definitely think cross commodity
9 netting would be a huge benefit for the industry. From a
10 merchant -- you know, BP is not a merchant generator.

11 From a merchant generator point of view, buying
12 gas and selling power, when you net both those obligations
13 and wipe out any collateral requirements that you have, it's
14 almost a free way to reduce capital use in the market, and I
15 think that that would be --

16 You know, anything that increases efficiency,
17 capital efficiency, is a good thing, and netting is one of
18 the best ways to increase capital efficiency effectively on
19 almost a free basis.

20 MR. DAVIS: Netting, broadly defined, and
21 covering lots of products and everything, has to, I'll say,
22 work in the context of the bankruptcy laws because it's
23 bankruptcy scenarios about which the creditors are
24 ultimately concerned.

25 This is an issue that I can flag better than I

1 can discuss, but you can have an entity, a bankrupt entity,
2 that's in or going through Chapter 11, they're still there
3 in the physical sense, but the creditors are concerned about
4 the recovery of the so-called "pre-petition obligations"
5 against the pre-petition resources of the debtor, of the
6 bankrupt debtor.

7 So when you say when any proposal is made to
8 consolidate or net across an entity or a family of entities
9 or multiple products, that net very demanding additional
10 subject needs to be carefully considered.

11 MR. TIGER: To pick up, I guess, on Mr. Davis'
12 relation to the bankruptcy code, are any of the other
13 panelists interested in commenting on Mr. Dixon's attempts
14 to describe one of the ways of dealing with the polar
15 obligations, because it seems that that's one of the big
16 problems with clearing in the power context. You can't turn
17 the lights off, and that takes away a lot of the benefits
18 that you do get in purely financial markets, and I guess,
19 with some look at whether you think that your state
20 regulators and your various ISOs would be comfortable with
21 making the kind of changes that Mr. Dixon thinks would be
22 useful?

23 MR. MILLER: That is something I don't think that
24 we've even raised with our state commissions. I mean if we
25 go this route of the third-party clearing model, it would be

1 enough for them to accept the concept that there are
2 benefits there.

3 I think, at least in the short term, and I agree
4 with Billy on this issue, that would be the nice solution.

5 What may be left that is mutualized in a third-
6 party clearing situation is the polar obligation, and, you
7 know, given, you know, some of the obligations that, you
8 know, are inherent, that goes with the polar, that may not
9 be that big a deal.

10 MR. LUDLOW: Under the current mutualization
11 schemes, it's not a big issue for the state commission, so
12 it's something that's going to have to be raised in a formal
13 setting in order to get things to move on it.

14 MR. LENTINI: I have a question. I know NISO
15 allows customers to prepay, and I was wondering if the other
16 -- I'm not too sure if the other ISOs, RTOs allow it,
17 because it seems like it would reduce collateral
18 requirements further, and because the payment is made even
19 before the service is provided?

20 And I was wondering if the other ISOs have
21 explored that, or is it --

22 MR. MILLER: When you say, "prepay," meaning to
23 prepay now so that their credit exposure is lower?

24 MR. LENTINI: Right. Prepay for service and --

25 MR. MILLER: Yeah. I mean we know that New York

1 has done that, and we're actually looking into that, are we
2 not?

3 Yeah. We are looking into that at the moment.

4 MR. DICKINSON: I mean I just think that one
5 thing that should be clarified is that, essentially, it is
6 collateral, so to a certain perspective, you evaluate the
7 best way to meet collateral requirements, and in a lot of
8 cases, providing a prepayment is more expensive than a
9 letter of credit, depending on the type of entity or risk.

10 MR. PERLMAN: Let me ask another clearing
11 question.

12 As I understand how clearing would work,
13 effectively, the clearing entity would have to set the
14 credit policies and some of the parameters of the
15 arrangements that would take place, so they could then hedge
16 out their risk and make sure that they were sitting in the
17 middle of something that was stable and wasn't going to
18 change and was understood to them.

19 Given what you said about your stakeholder
20 process, do you think your stakeholder process is willing to
21 turn that over to the clearing entity for them to make those
22 judgments, and then put in place a set of credit standards
23 that they could then subsequently clear?

24 MR. DAVIS: Let me start by saying this, that
25 that's one of the aspects that I was thinking of earlier

1 when I said that, if after the discussions and later due
2 diligence, we got to the point in New York of going to the
3 stakeholders in a formal fashion and it were implemented,
4 that would have to represent a collective decision that
5 people were net better off than they were.

6 We don't know yet from the discussions we've had
7 of what particular issues in that regard might be raised,
8 but we, like the other ISOs, we have a lot of market
9 participants, a lot of different products and services that
10 are available, and, of course, we also have an extensive
11 governance system.

12 All of that's designed to protect rights and
13 allow for discussions and debates and the rest of it.

14 That third-party service, it seems to us, if it's
15 to be effective in the true sense of that term, has to fit
16 over what is in place as a result of extensive discussions,
17 a lot of work over the years, in a way that, in fact, is
18 consistent and doesn't require throwing out great chunks of
19 useful procedures and services and models in order to force
20 fit the operation of the markets into the service offered by
21 the third-party clearinghouse.

22 If they can be, in that sense, impact neutral, I
23 think we would be further along in the discussions than if
24 they require a lot of modifications and giving up on
25 products and giving up on governance.

1 MR. DOYLE: I think, from a clearinghouse
2 perspective, and I agree with most of what Mr. Dixon
3 presented, we need to be careful. We've got
4 creditworthiness issues today. If we decide to go to a
5 clearinghouse, we still have creditworthiness issues. They
6 still have to be resolved, and the questions that we're
7 facing today remain before us.

8 You know, I've heard some comments on, "Well, we
9 need to have a clearinghouse to get rid of the barrier entry
10 question."

11 Well, I'm not trying to be cynical or a smart
12 guy, but we put together RTOs and ISOs because they were
13 independent, and now we're going to have an independent
14 organization monitoring the independent organization.

15 And, you know, I think the point I'd like to make
16 is, as we move forward, the clearinghouse is not going to
17 make these issues go away. They still have to be vetted.
18 They still have to be resolved, and determinations still
19 have to be made about who gets access to the market that the
20 clearinghouse administers.

21 So I'd just like to keep that before us.

22 MR. DIXON: Yeah. I don't want to suggest that a
23 clearinghouse model is really any radically different than
24 the RTO ISO model today. It's just a much more robust
25 system.

1 You know, in my opinion, the RTOs and the ISOs
2 have been trying to recreate something that already exists
3 in the financial markets, and that's a robust credit risk
4 management and financial settlement system.

5 I'm just merely pointing out that if they adopted
6 -- they, the RTOs, adopted that system or that service,
7 whether it's provided by a third-party or provided by the
8 RTO itself, that the market itself would achieve, in my
9 opinion, much greater benefits from liquidity and more
10 market participation, lower transaction costs and a
11 sustainable environment.

12 MR. DOYLE: Yeah. I think the issue there is, in
13 my opening remarks, I raised the two balances. One is
14 managing the moral hazard between individual market
15 participant creditworthiness evaluation and the
16 mutualization of default, and then how you keep access on
17 both, for both market participants and suppliers, so that
18 you get the liquidity.

19 I think it probably boils down is the cost of
20 going to a clearinghouse, do you get a dramatic or
21 meaningful increase in those balances or a better balance by
22 going to a clearinghouse than you would get if you didn't?

23 I think that's how I would look at it.

24 MR. PERLMAN: Okay. Any other questions?

25 MR. HENSLEY: Yeah. I'd like to ask Mr. Miller a

1 clarifying question.

2 I heard you mention "net benefits," and I'm just
3 wondering, when you or any of the ISOs add products or
4 services, how do you determine something is in a net benefit
5 for all the participants?

6 Is it a vote? Is it the costs?

7 MR. MILLER: It depends on the product that's
8 offered. I mean in the case of, for example, FTR auctions,
9 that was a new product that we offered. That had more to do
10 with it was a determination on the staff's part that we are
11 subjected to review by the stakeholders that it would help
12 people manage congestion risks.

13 When it comes to something that's a little more
14 difficult and out of the realm of the physical markets, net
15 benefits is going to be more of a rigorous quantitative
16 analysis that we'll do independently first, you know, with
17 an outside party.

18 And then, if it looks -- and we'll pass that by
19 our Board, and if it looks good to take to stakeholders,
20 then we'll subject it to another review by the stakeholders.

21

22 MR. HENSLEY: So, usually, you initiate that
23 then? I mean if they come to you and --

24 MR. MILLER: Well, frequently, in terms of
25 products, it's sometimes done at the suggestion of

1 stakeholders. I mean people would like to see thus and
2 such.

3 And we have heard from some stakeholders that
4 would like to see a shortened settlement cycle. They would
5 like to see a clearinghouse solution.

6 I mean it's rare when we sort of do something
7 completely whole cloth on around.

8 MR. PERLMAN: Okay. Well, I'd like to thank this
9 panel, and we'll take a short break, come back around 2:30
10 and reconvene. Thank you.

11 (Short recess)

12 MR. PERLMAN: Okay. Let's reconvene, find our
13 panelists for the fourth panel.

14 (Pause)

15 MR. PERLMAN: Okay. Please find your seats so we
16 can get started, and I'd like to tell this panel we had all
17 that conversation about clearing on the last panel just to
18 set you up, so I hope you appreciate it.

19 On this panel, we're going to be talking about
20 things like clearing and other solutions, and improvements
21 that can be made with respect to credit issues in
22 electricity markets. And, without more ado, let's start
23 with, as we've done before, as noted in the agenda, with
24 Peter Axilrod, who's going to tell us about how some things
25 work in the equity markets, and maybe we can take some tips

1 from there.

2 MR. AXILROD: Yeah. I want to thank the
3 Commission for having us, especially since I can guarantee
4 that I know much less about energy than anybody else in this
5 room. But, hopefully, some of the observations and some of
6 the experiences we've had will be useful.

7 I have a formal statement, but what I'd like to
8 do, really, is just to focus on the main point a little bit
9 informally.

10 DTCC is the world's largest clearing
11 infrastructure organization, and for those of you who don't
12 know, we clear and settle all of the domestic cash market
13 trading in the U.S., stocks, bonds, everything.

14 We also provide post-trade processing services
15 for OTC derivatives worldwide. It's a new business, but we
16 are probably the dominant provider there, worldwide.

17 One of the things that people noted about the
18 U.S. financial markets or the U.S. securities market is that
19 the central counterparty clearing arrangement, which has
20 been in place for about 30 years, is one where DTCC actually
21 guarantees the settlement of all securities contracts. And,
22 because of that, the market participants don't really worry
23 about counterparty risks. They just trade and assume we'll
24 make good on settlement, and that has really increased the
25 size and efficiency of the U.S. markets.

1 And, consequently, people ask, "Well, why can't
2 we put a solution like that for other markets that seem to
3 be constrained by credit concerns and concerns about the
4 creditworthiness of counterparties?"

5 And it's a logical question, but I think the
6 answer may not be, at least from our point of view, as clear
7 cut, or sailing might not be as smooth as people would like
8 it to be.

9 Many of the reasons were mentioned at the last
10 panel, and I won't repeat those, who's going to be the
11 provider of last resort, how you guarantee actual physical
12 delivery of energy, that sort of thing.

13 Another person in the last panel suggested that
14 there's some degree of moral hazard traded by full credit
15 intermediation. It lets anybody play. People don't worry
16 about the risks they are bringing into the system too much.

17 I wanted to mention just one other thing. Folks
18 had mentioned bankruptcy concerns, and this is actually
19 important to regulators, as well.

20 In the securities market, market participants, in
21 general, and actually, registered clearing corporations, in
22 particular, have very preferred positions relative to the
23 bankruptcy law.

24 It is absolutely clear that we can terminate and
25 liquidate all of the securities contracts with a financially

1 distressed counterparty whenever we want to, and that's
2 important to both banking and securities regulators that we
3 have this right, and, indeed, banking and securities
4 regulators worldwide have suggested that, without this
5 right, central clearing corporations may be inherently
6 unsafe and unsound.

7 I don't know whether I fully agree with that, but
8 this sort of the received wisdom among banking and
9 securities regulators worldwide.

10 Well, in the energy markets, as was mentioned in
11 the last panel, there are good public policy reasons not to
12 permit creditors of financially distressed energy providers
13 to do whatever they want, to liquidate contracts, to close
14 them out, essentially, to put them out of business.

15 There are a lot of good reasons to make sure that
16 whatever actions are taken with respect to financially
17 distressed providers, give the regulators an ability to keep
18 the lights on.

19 So those sorts of public policy issues, there's
20 sort of a public policy conflict there between what's in the
21 interest of providing energy and what banking and securities
22 regulators have traditionally thought was important to give
23 central counterparties all the legal rights they need to
24 manage risk effectively.

25 So I'm just throwing that out there as yet

1 another thing that needs to be resolved. I'm not saying
2 that it can't be resolved, but the road is long.

3 What I was going to suggest, and what I'd really
4 like to mention is that there might be a middle way. People
5 talk about bilateral worlds and bilateral trading, and then
6 you go from there to a full clearing, the traditional
7 clearing corporation, where what the clearing entity does is
8 step in the middle of all trades and actually guarantee the
9 physical settlement of the trades.

10 And before going into this, which has been a
11 little bit foreshadowed by the previous panel, it's worth
12 mentioning that what's happened in the energy markets, at
13 least from what I've been told, is that participants in the
14 energy markets are adopting the same expedient that
15 participants in the OTC derivatives markets have been using
16 for years, collateral.

17 If I enter into a contract with somebody and the
18 market value of the contract moves, one party provides
19 collateral to the other to cover the current value in the
20 market to market difference, and that mitigates my risk if
21 my counterparty defaults or can't complete the contract for
22 some reason.

23 That's been a very good expedient in the OTC
24 financial derivatives world because the participants in
25 those markets have had ready access to collateral. That's

1 their business. They got lots of cash. They've got lots of
2 securities. It's easy for them to receive and give out
3 collateral.

4 My understanding is that that's not necessarily
5 the case for participants in the energy market, especially
6 for energy providers, so that if you're using
7 collateralization as a way to mitigate credit risk, you're
8 still credit restrained because, either you don't have the
9 collateral. You have to go out and purchase a letter of
10 credit, which is expensive, and sometimes a letter of credit
11 provider itself requires other collateral, so even if you
12 can afford to pay, it may be that they have credit limits to
13 you that you can't put up enough collateral to satisfy them.

14 So, why not take an approach where you take an
15 interim step before full clearing?

16 Well, what you try to do is make the
17 collateralization efficient and reduce significantly the
18 amount of collateral that firms have to put up to
19 participate in the energy markets.

20 And, again, this is just a thought at this point,
21 although I will mention that we have at DTCC worked through
22 all of the bankruptcy issues associated with this,
23 admittedly in the context of OTC financial derivatives.

24 But before I came down here, I asked our
25 outstanding bankruptcy counsel to see -- to check if the

1 same reasoning would apply for energy contracts, and after
2 some amount of billing, they said, "Yes, the same reasoning
3 would apply."

4 And, essentially, the idea is relatively
5 straightforward. Let's start out by netting collateral on
6 an overall basis. You don't have to net contracts. You
7 don't have to net obligations, but if a participant in the
8 netting markets is owed collateral from a number of
9 participants and owes collateral to a number of
10 participants, regardless of the market, regardless of the
11 contract, why not just have them post one net collateral
12 amount?

13 In order to make this work, you need a central
14 provider that has a preferred regulatory status. It has to
15 be a registered clearing organization under either CFTC or
16 the SEC.

17 They would collect the collateral on a
18 multilaterally net basis, and they would assure all the
19 participants that you're just as secure as you would have
20 been, if not more secure as you would have been, had you
21 collected and paid out all the collateral on a bilateral
22 basis.

23 So, I'd like to basically stop with that
24 suggestion and then let this go to the rest of the panel,
25 but I did want to point out that although we know virtually

1 nothing about energy, DTCC knows a lot about
2 collateralization and collateral netting, and would be a
3 useful partner in the energy -- in following up this sort of
4 a solution.

5 Among other things are the relevant subsidiaries
6 are AAA rated. We have triple redundancy in all of our
7 systems because the banking and securities regulators have
8 required it, and we also have the highest level of safety
9 and security in our systems, reviewed both by banking and
10 securities regulators, and we have real time settlement and
11 collateral processing.

12 MR. PERLMAN: Thank you.

13 Before we move on, since you are very familiar
14 with this whole concept, are you aware of any clearing
15 organizations that deal with this issue of residual physical
16 delivery risk after liquidation?

17 MR. AXILROD: I know that, in Germany, there is a
18 system. I was at a conference in Europe where the Germans
19 claim to have a system up and running that actually
20 guarantees physical delivery of energy contracts.

21 They have a provider of last resort.

22 I sat through the presentation. I can't tell you
23 any more than that about how it works.

24 MR. PERLMAN: Well, it's something. Thank you.

25 Let's move to Mary Duhig, and Mary is with Aon

1 Trade Credit, and I know that we heard from at least ISO New
2 England that they have bought, I guess, credit insurance to
3 guarantee some of their default risk, and hopefully, we can
4 learn more from Mary. Thank you.

5 MS. DUHIG: Well, thank you for the invitation.

6 Aon is a global corporation, focusing on risk
7 management, primarily through our brokerage insurance and
8 reinsurance operations.

9 Aon Trade Credit is a global practice group that
10 focuses on mitigating the credit risk for our clients.

11 Credit insurance can assist the companies in
12 effectively managing credit risk by protecting the company
13 from the damages associated with credit loss.

14 Unlike derivatives, credit insurance can be
15 structured for sizeable amounts, smaller exposures, rated
16 entities and unrated entities. The coverage is for
17 bankruptcy and late payments.

18 Determining the optimal level of risk transfer
19 will vary by organization, depending upon their company's
20 objectives. Each company needs to measure the effective
21 catastrophic loss and what accumulative multiple retained
22 losses would have on the balance sheet.

23 Aon structured policies for the ISOs, regulated
24 and deregulated energy companies. Each policy that we have
25 structured has been manuscripted for the client's specific

1 needs.

2 Certain clients are looking to mitigate certain
3 sector risks. Other clients are looking to mitigate their
4 top exposures, and other clients want us to transfer the
5 risk of their entire portfolio. So we have structured
6 policies in all those scenarios to meet their needs.

7 Pricing depends upon the credit quality of the
8 pool, so depending upon how many rated, unrated entities are
9 in the pool will impact credit quality.

10 There is a competitive insurance market in the
11 U.S. that has insured these credit risks. Approximately ten
12 insurance companies actively write credit coverage, with
13 their credit ratings ranging from AAA to A.

14 Those are my comments. Thank you.

15 MR. PERLMAN: I wonder if you can give us a few
16 more minutes, explaining how you structured the policies for
17 the ISOs.

18 MS. DUHIG: Sure. What we do is we talk to the
19 clients as to what their level of risk they want to retain
20 on their balance sheet.

21 Certain clients have requested that we have zero
22 deductibles, and they structured the policy accordingly,
23 like one client wanted to have all the coops insured.

24 So we took that pool of coops, which was
25 \$100,000,000 in annual revenue, and we insured them with a

1 zero deductible, and the pricing was \$150,000.

2 Another ISO was comfortable with having a
3 deductible per buyer, so instead of having a flat deductible
4 for the whole policy, they were comfortable with their
5 certain level of collateral, and above that, the insurance
6 company attached at a higher catastrophic level.

7 Another company wanted to insure a pool of risk,
8 other top exposures, and they had a flat deductible. They
9 didn't care which buyer defaulted. It was one deductible
10 for the whole pool.

11 So those are the different examples we've done.

12 MR. PERLMAN: One other question.

13 We've been told, on occasion, that the credit
14 insurance for the ISO, the credit risk, has been perceived
15 as expensive, and there's been some resistance to buying it
16 on that score.

17 Does that sound correct to you?

18 MS. DUHIG: We were talking about it earlier at
19 lunch, that it's a very cost effective means of transfer,
20 especially when you compare it to derivatives.

21 If you have, as an example on the coops, they
22 were a selective risk, just the coops, you know, a hundred
23 million dollars in exposure, and it was \$150,000.

24 You figure these are unrated entities with
25 balance sheets that aren't, you know, stellar. So I think

1 it's a very effective, you know, means of risk mitigation.

2 And on the other pools, the pricing was even
3 lower because of the fact there were deductibles. So it
4 depends on the appetite of risk that the client wants to
5 retain on their balance sheet, and the amount they're
6 willing to transfer.

7 MR. PERLMAN: Thank you. Let's go to Mr. John
8 Flory from the North American Credit and Clearing
9 Corporation.

10 MR. FLORY: Thank you very much for your time and
11 the opportunity to appear today. I am John Flory, the
12 President of NACCC.

13 I'd like to give you a little background on us
14 and then address a few key issues that have been raised in
15 this conference.

16 I think you'll find that my underlying theme will
17 be the importance of bridging the physical and the financial
18 markets to ensure that physical reliability and financial
19 reliability reinforce each other.

20 Since electricity is the most perishable of
21 commodities, effective delivery by a transmission owner,
22 ISO, RTO is absolutely critical for the success of a
23 commercial transaction, and hence, it's appropriate that we
24 have a conference like this to look at the impacts of the
25 credit policies of the delivery entities on the overall

1 marketplace.

2 Our comments today will be based upon some
3 conversations we've had over the last year for a number of
4 market participants, ISO and RTOs, and trying to create a
5 credit and clearing solution that fits the physical energy
6 market and bridges into the financial energy market.

7 And we've had a number of market participants
8 tell us that they see this as helping to fit the physical
9 energy market better than some other options, and yet
10 providing a comparable level of accountability oversight and
11 transparency, as you would see in other liquid commodity and
12 securities markets.

13 Just as a little bit of background of NACCC, our
14 mission is to promote capital and market efficiency in
15 energy markets primarily through a clearing solution that
16 integrates physical and financial energy markets.

17 In achieving that, we plan to become a central
18 counterparty to buyers and sellers as a derivatives clearing
19 organization under the supervision of the CFTC.

20 We are moving ourselves on both the RTO, ISO and
21 the OTC markets to insure that we can efficiently manage
22 credit risk from transaction through delivery. We will
23 provide credit and clearing services that, after novation
24 and substantial netting across both the spot and the forward
25 markets, essentially operate to transfer energy market risks

1 to the Wall Street entities, including insurance that can
2 properly assume and manage the risk at a lower relative
3 cost.

4 We have worked with some Chicago commodity
5 attorneys to develop a patent pending cash flow contract
6 that allows us to net, spot and forward contracts with
7 maximum bankruptcy protection.

8 We are using proven strategic suppliers, such as
9 the Intercontinental Exchange, and the Clearing Corporation
10 of Chicago.

11 Just to let you know, ICE is the largest
12 electronic energy marketplace, and we would use them, not
13 for their trade matching function, but they also have a
14 confirmation service in which they receive trades from any
15 broker, and that would become the way for us to receive
16 over-the-counter transactions.

17 We also work with the Clearing Corp., formerly
18 BOTCC, who's been clearing commodity transactions for 75
19 years, and would be the clearing engine behind us.

20 We believe that in bridging the physical and
21 financial energy markets is absolutely critical to having a
22 sustainable, mature power market. We've seen the NordPool
23 experience in which they have become probably the most
24 successful power market in the world, where they have
25 transaction volumes at eight times the underlying physical,

1 and we believe its their ability to reduce the seams between
2 the physical and the financial markets, between the cash and
3 the forward markets, that's allowed them to achieve that
4 level of volumes.

5 And we note that when they introduced the
6 clearing of over-the-counter contracts and netting that
7 against spot pool transactions is a time when they had a
8 real acceleration in the volume and net marketplace.

9 It appears that FERC's staff also sees advantages
10 of netting across the market transactions, and some of the
11 comments in the earlier sections today, one of the
12 presentations that we've seen Lee-Ken Choo give a number of
13 times shows a marketplace in which you can net, spot and
14 forward power and gas, as well as financials, and we also
15 believe that that will enhance capital efficiency and market
16 liquidity.

17 The CCRO has also suggested that multilateral
18 clearing is one of the best ways for advancing the industry
19 in terms of credit risk mitigation, improving liquidity and
20 capital adequacy, and we agree with that, particularly if we
21 can figure out ways to bridge the physical and financial
22 markets in that clearing process.

23 There's about eight different items that I wish
24 to highlight the differences between the physical and
25 financial worlds I think are important in terms of bridging.

1 Most of them, I'm just going to list, but there's two of
2 them I want to just give a little background on.

3 And the first is, I call it the difference
4 between the physical liquidity and the physical and
5 financial players.

6 As most of you know, people like ICE and other
7 platforms have had a significant increase in their
8 transaction volumes lately, but a lot of that has been due
9 to the introduction of new financial players, hedge funds
10 and banks and stuff, yet a number of the physical players,
11 those that produce or manage electricity, like we heard from
12 Calpine today, are continually constrained, and in some
13 cases, dropping out.

14 Recently, in the desk, there was one person
15 observed that the market will continue to be less efficient
16 as physical participants scale back or exit.

17 We believe that a clearing solution that works
18 for physical participants, as well as financial
19 participants, is important over the long term so that new
20 infrastructure will continue to be built and maintain
21 physical reliability, and we're not just looking at trading
22 opportunities during high reserves time periods.

23 One of the other things -- the second major point
24 I wanted to make is actually several in the previous panel
25 alluded to, and that is improving the efficiencies of

1 collateral margin use by trying to break down some of the
2 isolated credit silos people of credit posted with RTOs,
3 people of credit have posted for gas that goes to delivery,
4 for power that goes to delivery, margin posted with NYMEX
5 and financial transactions.

6 So the ability to bring together a net of those
7 different things will significantly enhance a lot of the
8 trade volumes.

9 The other things, I'll just list, and we can talk
10 about more later, if you'd like.

11 The risk transfer between differences and credit
12 policies is noted at PJM. So they had an increase of 15 to
13 40% of the volumes because people saw those cheaper credit
14 in the PJM marketplace, and so flowed out of the bilateral
15 market.

16 Another issue is bankruptcy protection of
17 netting, spot versus forward.

18 Most bankruptcy code does not protect trade,
19 commodity trades that go to delivery within two days, so
20 there's an issue there.

21 One of the things we're looking at is use of
22 physical collateral, physical positions, and we believe that
23 there is a way to give credit to people of physical assets
24 and from the cash flows that follow from that.

25 We've seen some clearinghouses like the Cotton

1 Exchange and the National Gas Exchange have actually used
2 the commodity in some rather accessible storage as an
3 alternative to cash collateral and we see the FERC and the
4 gas credit noper as being sensitive to that.

5 So we see that also as possible in the power
6 area.

7 One of the things that was handed out in a
8 previous discussion is the understanding of credit risk. We
9 find some people who -- particularly people who come from
10 the banking industry used the following Basel. They have an
11 understanding of what potential loss and economic capital
12 is, and their understanding of the value and of managing
13 that risk is much higher than often those who don't come
14 from a comparable background.

15 One of the other things that was mentioned
16 earlier was the difference in cash settlement cycles. We've
17 got the financial traders used to doing settlements, while
18 most of the physical traders are doing monthly settlements,
19 and I can tell you, there's been no small discussion around,
20 as you have experienced at your accelerated settlement
21 discussion, as the best way to make those converge.

22 And then, lastly, credit limits. Most
23 conventional clearinghouses have no unsecured credit limits,
24 and our participants must, essentially, post cash equivalent
25 margin or collateral to cover all their value at risk, and

1 we've seen that most physical participants like -- who have
2 a higher credit ratings, believe they deserve some sort of
3 unsecured credit limit.

4 And so we believe that there is a way to provide
5 that within a clearinghouse type structure, as long as there
6 is some sort of alternative backstop, and we believe that's
7 possible.

8 So, in summary, we believe and agree with the
9 panelists before us and that there are ways of making some
10 of the advantages of other clearinghouse capital
11 efficiencies and brought to bear in enhancing market
12 liquidity.

13 We're working to try to create some of the
14 solutions that bridge the differences of gaps between the
15 physical and financial markets.

16 We see increasing support from a number of market
17 participants and we look forward to working with them and
18 others, including FERC and the CFTC, in refining what the
19 right solution is.

20 Thank you very much.

21 MR. PERLMAN: Thank you.

22 Let's move to Toby -- I'm sorry. I'll try my
23 best, Hsieh -- from Standard and Poors, and I know Standard
24 and Poors has developed a new refined approach to doing
25 credit evaluation, particularly of merchant electricity

1 participants, so, Toby.

2 MR. HSIEH: Yes. Thanks for having me here. My
3 name is Toby Hsieh. I'm a Director at Standard and Poors.

4 What we have developed recently is the liquidity
5 analysis of energy treating companies, and I'm here mostly
6 to just kind of update you guys on what we've been trying to
7 do, and maybe as you guys come up with solutions and ideas,
8 that you keep in mind some of the things, how we look at
9 things.

10 And the overall idea of what we're trying to do
11 is we want to focus a lot on the liquidity requirement of,
12 you know, energy companies. I mean it has been a really big
13 risk.

14 We spend a lot of time on it, and what we're
15 trying to do is try to quantify this risk and set some kind
16 of a transparent, simple, reasonable guideline so that
17 companies keep adequate liquidity.

18 Now, there are a lot of ways that you can reduce
19 liquidity, and we're all supportive of a lower liquidity
20 requirements for energy companies. But, you know, our job
21 is kind of to call it like it is and make sure that we set
22 the requirement in a way that's consistent with the rating
23 of companies.

24 And one of the ways that we have approached this
25 is by setting up two ratios, and each ratio address certain

1 kind of event.

2 I think the first ratio is called a credit event
3 adequacy ratio, and that mainly address the liquidity
4 requirement of a company when they're downgraded below the
5 investment grade.

6 And the other ratio is called ancillary, or
7 market and credit event liquidity adequacy, and that one,
8 the goal is to kind of figure out what companies the
9 liquidity situation would be, if there was a liquidity event
10 in which the company is downgraded severely below the
11 investment grade, plus some hit by a market move.

12 And, right now, we have it set at 30% market
13 price move, and with those, we compare the liquidity
14 requirements from market to market exposures, account
15 receivable and payable, static margin, which, you know, the
16 transmission organization would be having a lot of say so
17 over a metastatic margin that companies post, and
18 contractual collateral requirements. There are triggers,
19 basically, and commercial paper.

20 And in our analysis, we give through benefit of
21 netting. In other words, you have legal rights to net. We
22 go ahead and assume that you have the ability to net, and
23 then we're reducing the liquidity requirements.

24 I understand that a lot of companies tell us
25 that, well, a certain kind of netting is not legal, that,

1 from our perspective, we're more interested in the ongoing
2 liquidity requirement of a company than there is certain
3 events which some kind of parties will go bankrupt, and hope
4 there is that, you know, you find a small number of your
5 counterparties will go bankrupt, and that liquidity demand
6 is not as much as you, yourself, when downgraded below the
7 investment grade, you have to post collateral to all your
8 counterparties.

9 And from a liquidities perspective, what we
10 consider as available primary liquidity, there's cash and
11 committed letter of credit and credit lines. And we compare
12 those two numbers, and the goal here is to, for generally --

13 I mean as a very general guideline, what we're looking for
14 is investment grade companies should have enough liquidity
15 to cover a market, plus a credit event, and, you know, in
16 that more technical term, it would be, you know, one times
17 ancillary or market and credit liquidity adequacy.

18 And we've been sending out this survey to
19 companies so we can calculate this ratio, and in August, we
20 are expecting companies to give their survey back to us so
21 we can analyze them and try to come up with some kind of
22 conclusion on the adequacy of liquidity of energy companies.

23 And we're also working with the CCRO in coming up
24 with more reasonable guidelines. You know, I think it's
25 generally very helpful that industry players work with us to

1 give us an idea of their opinions and to work together to
2 make sure that, you know, whatever we come up with is
3 constructive for everyone involved.

4 And the last thing I want to say is just that,
5 you know, I've been looking at this liquidity issue for
6 quite a while, and I looked at a lot of clearing platforms
7 and clearing corporations. And the issue, so far, is that
8 it's -- you know, this clearing issue is huge. It's very
9 big and it's very hard to deal with.

10 And, you know, the reason that it's so hard is
11 that there is a certain amount of risk that's really, really
12 hard to mitigate, and, you know, from our perspective, a lot
13 of times, the risk are moved around, but they don't go away.

14 And so in our analysis, we'll be chasing down the
15 risk and make sure that to figure out where the risk end up,
16 and not just that it has been somehow mitigated and put away
17 somewhere else. And, you know, our job is track down the
18 risk and make sure that we understand where the risk end up.

19 And that's really it for my comments.

20 MR. PERLMAN: Thank you. Let me just ask one
21 follow-up question.

22 Do you have any expectations as to what the
23 effect of getting the information back on liquidity will
24 have on the ratings of the people that you're looking at,
25 not, you know, globally, or would you expect the trend to

1 be such that they may be looking for a down movement as a
2 result of seeing this?

3 MR. HSIEH: Well, I really don't expect, you
4 know, major downgrades, even in downgrades. I mean some of
5 the bigger companies, whether a big trading operation, we
6 have been in discussion with them for a long time, and we
7 kind of know where they're going to come out.

8 And some of them have actually went out and got a
9 lot more liquidity, you know, sometimes twice.

10 And I think liquidity, right now, is relatively
11 cheap to get or accessible. I'd want to say cheap, because
12 it's not cheap.

13 And so I don't really expect, you know, major
14 reactions.

15 MR. PERLMAN: Thank you.

16 Let's move to Bob Levin of the New York
17 Mercantile Exchange. Bob?

18 MR. LEVIN: Hi. On behalf of NYMEX and myself,
19 thank you very much for inviting me to speak today.

20 I know the FERC staff and many of the
21 participants have some familiarity with NYMEX, but let me
22 just go over a few things about the organization and then
23 get to some of your questions.

24 NYMEX is the world's largest energy marketplace.
25 In that regard, we do manage a substantial level of credit.

1 Conservatively speaking, an estimate from last year,
2 \$20,000,000 in face value.

3 We manage credit through several different
4 models, but most of our transactions have been commodity
5 futures and options, but just so that -- you know, we do
6 also offer OTC derivatives and the clearing of that, and I
7 expect very competently that we will be expanding the cash
8 market transactions as well.

9 To be competitive and probably to be solvent,
10 NYMEX has needed to constantly innovate, and over the past
11 two years, we believe that our innovations have been an
12 essential piece of preserving competition and liquidity in
13 the gas and electricity markets.

14 Instead of focusing more on electricity right
15 now, we have provided credit intermediation to support
16 different types of transactions. Those that are monthly,
17 weeklies, dailies. We've had physical delivery. We've had
18 cash settled. We've based it on the RTO markets and we've
19 based our cash settlement on RTO markets. We've done it a
20 day ahead, and we've done it real time, both of those.

21 We've also based cash settlement on published
22 surveys.

23 We have on exchange transactions, off exchange
24 transactions, into the trade pits, electronic and broker.

25 In the electricity markets, the ones that we're

1 currently serving of the NY ISOs, as well as AG&J, PJM, Mid-
2 Columbia, North Path, 15 in California, South Path, 15,
3 California and Palo Verde. That's not news, but it's
4 probably worth publicly announcing that we are back in
5 California after a long absence, and we're quite pleased
6 about that.

7 I'm just going to sort of go through some of the
8 questions. I won't try to repeat them, to save a little
9 time, but you're number six, and you've been looking at --

10 I think it's important that the ISO and the RTO
11 markets, since they largely are balancing markets and
12 ancillary service, which is I think the markets are
13 referring to, I'm a little concerned that it may be the use
14 of the term, "liquidity." I'm not sure why in the hell that
15 applies to the spot market. I don't think FERC should be
16 orienting its policy to get liquidity in that part of the
17 market.

18 The important element there is actually to keep
19 the lights on. Getting rid of barriers to entry, that seems
20 right, and reductions in competition always is good things
21 to look at.

22 But that's most from our perspective. It's not
23 that we think they should be illiquid, but that would be the
24 least of your problems.

25 We're happy to report, also, it does seem these

1 things are lengthy, now that there has been, as John
2 indicated, and I don't know that it's just newcomers, but
3 we've seen tremendous growth and liquidity in the monthlies,
4 in the longer term than that market. Us and others have
5 seen that.

6 Shortly, the settlement period would certainly
7 benefit reducing credit risk. I mean how can it not, and,
8 David, you articulated it quite well earlier.

9 The real improvements, though, is in introducing
10 the discipline and benefits of the competitive credit market
11 to the ISO and RTO markets, and credit should be extended
12 and price. They're based on risk and creditors' ability,
13 which they compete in to manage that risk.

14 The current, you know, mutualized risk of
15 participants and members certainly doesn't provide that.
16 The effect that's such a short question, that's probably how
17 can the mutualized default risk and ISOs and RTOs be
18 reduced?

19 Among other things, you replace it, not the ISOs
20 and the RTOs, but how they're managing the credit.

21 As one of the ISOs said, we've been talking with
22 them and so talk about our strategic partnership with
23 Excenture, and just briefly describe that. It would provide
24 a daily flow of funds, competitive collateral management.

25 It assigns credit based on risk, with offsets in

1 collateral for offsets in risk, and netting the payments.
2 Of course, we already do that in our market substantially.
3 We were already doing that in the electricity markets, by
4 the way.

5 It allows participants to customize their flow of
6 payments with their chosen credit managers, so if they're
7 monthly, they can work that out with their credit manager,
8 in spite of how we operate the system.

9 And I think it's also important to note that,
10 even if the ISO and the RTO haven't figured out how to do
11 daily flows, and we can understand that, we still believe it
12 can be introduced to some extent, and should be, because
13 that will mitigate risk.

14 Last, but not least, I think it very importantly
15 connects to establish clearing and banking network that, as
16 I said, we already managed 20 trillion dollars of face value
17 last year in energy markets. It's already connected to the
18 nation's banking system. It's up and running, and it's
19 already managing electricity transactions.

20 There's two types of barriers of entry in this
21 market, and I think somebody mentioned, in the last panel,
22 that -- I think it's one thing to look at what the ISOs and
23 the RTOs have as their own natural barriers, and that's how
24 they manage it, and that's one of the things you don't
25 regulate on the credit side.

1 I'll let others speak if they think of how the
2 ISOs have done that is causing it, but I'm not going to
3 identify it. I think that's really for the customers of
4 that, but I'm glad to talk about why I think our system or
5 our ideas would not have high barriers to entry.

6 As far as credit standards, I mean I don't say
7 this in a disrespectful way, but those that offer credit
8 certainly have their criteria, and it should apply to
9 standards.

10 And it's very possible that some of the things
11 you've identified will make it different in what people
12 charge for credit.

13 We had the benefit of some informal meeting with
14 FERC staff. I honestly don't remember what it was. I think
15 it was last year, and they had a number of you come here.
16 We talked about providing of last resort risk, and people
17 have already said that's a problem.

18 I think the clearing helps isolate it, but nobody
19 can reasonably be expected to carry that risk, you know, an
20 indeterminate length of time, without being paid for it.
21 And I think it's just time, and somebody, I think, has said
22 it in the last panel. I mean it's really probably more of a
23 state issue. Maybe FERC can provide some leadership on it.
24 Clearing doesn't resolve it.

25 Thirteen and 14. Since you've created the ISOs

1 and RTOs, this is one area -- I mean, usually, NYMEX is
2 hesitant to suggest that the FERC jump in and put new
3 standards or requirements in, and we probably still are.
4 But you did create ISOs and RTOs, and you have an interest
5 in them, and we respect that and understand it.

6 The problem is that, certainly putting a
7 franchise in, what if the franchise doesn't do it best or
8 right, or doesn't fit in with what everybody else wants to
9 do.

10 I think, actually, FERC has had at least a
11 partial hand, maybe a significant partial hand, in previous
12 franchises that did not work out well in electricity, and
13 I'm not coming here to talk so much about that, but I
14 wouldn't want to repeat that, and I think you don't want to
15 recreate something like that, and it's always in the best of
16 intentions.

17 All the things you have in 15 are solutions,
18 whether they're the best or not, but they certainly are all
19 potential solutions.

20 And benefit costs, we did some analysis with
21 Excenture, looking at it, and it was normalized to
22 \$100,000,000 of collateral under existing kind of a ISO
23 models.

24 And we saw the potential benefits there, looking
25 at reductions in collateral, I guess in interest costs

1 there, but also, reductions in potential payments from
2 default, and that's just expected.

3 Expected isn't really the issue. It's the 50th
4 percentile -- well, that's normally distributed, but around
5 the 50th percentile isn't so much of the expected. It's
6 much more what's a major risk that you -- to not expect it.
7 It's always the unexpected, but that's less than 10%, and
8 that's where it gets hard.

9 And I'd say we saw it for that \$100,000,000 of
10 collateral, \$15,000,000 to \$30,000,000 of benefits.

11 I look forward to the discussion, and once again,
12 thank you for inviting me.

13 MR. PERLMAN: Thank you. Well, let me ask you
14 one clarifying question.

15 You talk about daily flows. Does that mean daily
16 settlement?

17 MR. LEVIN: Yeah. From within our system,
18 absolutely, and it's definitely in -- I mean they have daily
19 markets at daily prices. You can do that to some extent day
20 ahead very easily, real time, less easily, and you're
21 weighing percent information.

22 And there would be some truing up afterwards, but
23 you can get some of it, and there are some estimated within
24 the systems, and we just feel confident that it's better to
25 do some of that as soon as you can, because it helps manage

1 the risk better.

2 MR. PERLMAN: Thank you.

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1 MR. PERLMAN: -- than Michael Schubiger. I
2 understand that Michael's company is involved in financial
3 markets and is very comfortable in dealing with those
4 markets and the credit there but has had some experiences in
5 RTO markets that are maybe less favorable from his
6 perspective.

7 So I'll turn it over to Michael to tell us his
8 perspective on these issues.

9 MR. SCHUBIGER: Okay, thank you. I appreciate
10 the Commission's time and inviting us here.

11 My name is Mike Schubiger. I'm CEO of SESCO
12 Enterprises. We're an active physical and financial trader
13 in the New England markets, the New York markets, the PJM
14 markets. We're approved to do business in IMO. And when
15 MISO starts up in the spring, we'll be active in those
16 markets as well.

17 I'm here today on behalf of the financial
18 marketer SESCO Enterprises, Epic Merchant Energy, and Black
19 Oak Energy.

20 What I wanted to discuss today was the virtual
21 bidding and the process in the credit obstacles that we've
22 encountered in the ISO and RPO markets. In case no one here
23 understands the virtual policy and how it works -- but
24 virtual bidders, they facilitate the transfer of risk from a
25 generator or a load to an entity that's capitalized and

1 experienced to manage this risk.

2 Each of these entities, whether gen load or
3 virtual bidders, can be speculating or hedging at any time
4 in these markets. So it's not just virtual bidders that
5 speculate in these markets.

6 What we look for is price signals sent by the
7 ISO's and between the ISO's. And we look for divergent
8 points and convergent points, because, you know, we believe
9 that a convergent market indicates whether a market's robust
10 and competitive.

11 And that convergence reduces daily price
12 volatility, which are good things for the market. With the
13 ISO and RTO markets expanding, we've noticed that there's
14 many points in each of the ISO's where convergence has not
15 occurred as efficiently as one might expect, having these
16 markets open to everybody.

17 And we believe the reasons for that failed price
18 convergence is the owner's credit policies, both on the
19 financial and physical side. Having an owner's credit
20 policy does not allow you to deploy capital across the
21 footprint as efficiently as you might like to, depending
22 upon the price signals that are sent.

23 We've experienced excessive holding periods of
24 collateral. And we've even experienced hair cuts of cash as
25 high as 15 percent.

1 There's additional fees when we transact as well.
2 There are bid cost fees. There are capital charges to these
3 over-collateralized positions. There's balancing reserves.
4 And then there's a hurdle rate that we need to meet to
5 provide that value to the market place.

6 We've experienced that because of these increased
7 costs in the credit policy and bid charges that there's
8 quite -- quite often there are several points that we just
9 can't bid because there are \$8 balancing reserves or \$10
10 balancing reserves. The profitability just isn't there to
11 provide that value.

12 We've also noticed that the ISO's use a 97
13 percentile proxy price with arbitrary factors instead of
14 using a portfolio approach. And I'll explain that later in
15 an example. And also that on top of the 97 percentile
16 there's multipliers of 2, 2.6, 6, 7, 50, as high as 60.

17 And those multipliers are already added to a 97
18 percentile event. So you have an event that is very far out
19 on the curb and then you're adding multiplies to it.

20 You know, we believe that the ISO's should manage
21 their collateral real time. It will result in the
22 appropriate levels of collateral and the excess collateral
23 would be reinvested into the market to provide efficiency
24 and liquidity.

25 And example of a policy is if we had 100

1 megawatts to offer into the market for the whole day and we
2 selected a proxy price of 50 -- and that would be the 97
3 percentile number -- with a factor of 2 we would have to
4 post \$240,000 before we even got to bid this.

5 And this would just be to offer this. It
6 wouldn't be to clear it. It would just be to offer into the
7 market -- \$240,000.

8 If we did a highly correlated point, meaning we
9 sold one point and we bought another point and they were
10 highly correlated, it would be \$480,000 just to cover a
11 spread, which could be \$2 to \$3 of risk. So \$480,000 and
12 those are real numbers.

13 The collateral requirement bears no correlation
14 to the risk brought to the market, meaning whether you offer
15 \$90 or \$50 or \$10, the credit requirement remains the same,
16 but the risk to the market is very different.

17 So if a market can go as high as \$100 and you
18 offer \$90 and another participant offers \$50 and another
19 participant offer \$10, the ISO's view that that as the same
20 risk being brought to the pool when clearly it's not.

21 Some of the credit policy and efficiencies we've
22 seen -- as I've stated, 1 megawatt bid at \$1 is much less
23 risk than 1 megawatt bid at \$100. All ISO's consider these
24 risks as equal.

25 There's no consideration for experience factors.

1 If a participant's in the market for several months, several
2 years and they're not a rated entity, there's no experience
3 factors on how they've managed their risk. There's no
4 visits to the office. What is your engine system? We see
5 how you're providing value. And we see your balance sheet.
6 And there's no communication at that level.

7 ISO's have real time pricing data but fail to use
8 this data to proactively manage a participant's credit.
9 There's, you know, data out there in five-second increments
10 and five-minute increments. And there's data available the
11 next day. That data is really not used.

12 There's no synergies between the system.
13 Everything goes to a settlement system instead of developing
14 a credit system.

15 The IT system upgrades will enhance the overall
16 competitive nature of the market. We've noticed that these
17 multiples seem to be for blind spots. The ISO's have
18 systems where they can't see data for several days.
19 Bilaterally that would never work. In a bilateral market no
20 one could really function that way.

21 If we were dealing with a bilateral relationship
22 and just allowing three days or four days or five days of
23 risk to build up without managing it, that would be
24 unacceptable.

25 But the ISO uses these blind spots. And it's

1 ineffective in providing value to the market. We've
2 encountered the stakeholder process as being very
3 ineffective -- the individual company agendas versus market
4 agendas.

5 We've seen economists. We've seen people stand
6 up and talk about the market efficiencies and come with
7 solutions to market efficiencies. But when it comes time
8 for the vote, it has voted based upon, you know, the
9 individual company agenda and not what's best for the
10 market.

11 And as I stated, there's really no synergies
12 between the credit market and settlement system. When you
13 add costs to financial players, you know, they need to cover
14 those hoarder rates.

15 So in turn what happens is they could raise their
16 bid prices, which would be a more aggressive bid into the
17 market. That more aggressive bid in the market has no
18 correlation because, as I stated earlier, they would use \$50
19 to assess that risk no matter what I bid. If I bid \$1,
20 \$100, or \$200, they would use \$50 to manage that.

21 Some of the efficiencies that we see as the
22 shorter settlement period and netting across all products --
23 and we've also even talked about factoring of the ISO
24 activity. I think it was brought up earlier that if you buy
25 from one ISO and you sell to another ISO physical product

1 and you realized a profit, you may have to post a
2 significant amount of collateral in tune of, you know, 50 or
3 60 days' worth of that risk in one of the ISO's.

4 And in turn when you have a receivable coming
5 from another ISO, if you could factor that receivable and
6 post that as security against the payment to the other ISO,
7 that would work and you would not have to tie this capital
8 up for an extensive period of time.

9 We agree with the clearinghouse concept, the
10 centralization of risk, the consistency in requirements, the
11 expertise that they have in the markets, the improved market
12 liquidity that will come from a clearing house, the
13 leveraging of the pool collateral, which is the financial
14 market model. It's been discussed several times. It can
15 reduce cash flow requirements and lower collateral
16 requirements.

17 Our analysis shows that the costs are far cheaper
18 to go with the clearinghouse mechanism than it is the cost
19 of capital to support these onerous credit policies.

20 In summary, I'd like to say that, you know,
21 virtual bidders facilitate market efficiencies by providing
22 liquidity and highly volatile markets. There is no free
23 ride.

24 Virtual bidders pay their share by facilitating
25 and managing risk within the ISO footprint. They perform a

1 service that benefits all participants.

2 The current use of proxy prices and multipliers
3 are arbitrary and result in grossly excessive credit
4 requirements as I've detailed in this presentation. The
5 portfolio approach is much better.

6 ISO's and RTO's do not evaluate the actual credit
7 risk that an entity imposes on the market and the
8 membership. Participants cannot provide value to the entire
9 system. They have to pick and choose because they have to
10 over-collateralize the risk that they're truly bringing to
11 the market. So they can't take that excessive collateral
12 and deploy it across the system.

13 Settlement date is available on a 5-minute basis
14 --

15 MR. PERLMAN: Excuse me, Mr. -- can I cut you
16 short there --

17 MR. SCHUBIGER: Sure.

18 MR. PERLMAN: -- so we can get to some questions.

19

20 MR. SCHUBINGER: Of course.

21 MR. PERLMAN: So if you have any more comments to
22 make, we'll find time for it.

23 I want to ask Mr. Flory a
24 question. You were talking about earlier that your proposal
25 would be to novate the RTO transactions to some other -- to

1 a derivative I take it? Could you explain that further.

2 MR. FLORY: Yes. What we are talking about doing
3 is novating the receivables and payables in an RTO into what
4 we call a cashflow contract, which then allows us the
5 ability to net that against forward transactions with
6 bankruptcy protection.

7 MR. PERLMAN: You would take the -- you would
8 have sort of a credit derivative or a derivative that
9 reflects the receivable that the RTO has and that would then
10 get cleared in your clearinghouse against other transactions
11 in some way.

12 MR. FLORY: Against -- yeah, that you can come up
13 with the cashflow contracting equivalents for forward
14 contracts and for spot transactions. And essentially all
15 transactions eventually end up as AR and AP. And so there's
16 -- when you reduce them to that lowest common denominator
17 and there's a derivative that we created around that that
18 will allow us a netting for -- with bankruptcy protection.

19
20 MR. PERLMAN: And then you said that you would
21 take this reduced credit risk that would exist by the
22 netting and the bankruptcy protection and then you would add
23 to it. So for the credit insurance you are --

24 MR. FLORY: Then there's several different ways
25 we are looking at managing that. We've had some financial

1 institutions who have said that they were essentially
2 willing to provide lines of credit to cover the exposure of
3 some of the larger participants.

4 And they were looking at using either insurance
5 themselves or credit derivatives themselves to back up that
6 line of credit as part of their risk-management practices.

7 We've -- for a large entity's line of credit
8 backed up by our own credit insurance policies, so there's a
9 mix. And we're looking at this in some of our, you know,
10 previous -- and some of our discussions revealed that it's a
11 mix of practices that allows us to fine-tune the way of
12 mitigating such transferring the risk.

13 MR. PERLMAN: But I guess your derivative
14 contract would have to mirror the obligations that are
15 embedded in the RTO tariff for the physical --

16 MR. FLORY: At least from a payments perspective.

17
18 MR. PERLMAN: Would you have any problem
19 allowing, as we heard earlier today, the participation
20 process and the overall members committees to continue to do
21 their work -- and if they wanted to change that, change that
22 -- or would you need to have some stability in that contract
23 in order for your model to work.

24 MR. FLORY: I'm not going to pretend to fully
25 answer that question. I'll just say that in our initial

1 review so far the credit requirements that we would see
2 under this approach have come in below the credit
3 requirements of most of the RTO's and ISO's so that people
4 usually stay the same or better from where they are now.

5 And so that it -- we believe that's at least a
6 good starting point, you know. And then once you get that
7 starting point, we'll see where things go.

8 MS. PERL: This question is for Mr. Flory. I am
9 very skeptical that you can do press product netting in
10 anything that involves electricity just because (a) they're
11 almost 2,200 markets a month in the one -- in the day-ahead
12 market and one in one's own. Say, NYISO.

13 There are 10 zones in NYISO. That's just NYISO.
14 And there's volatility. I think the more you're in this --
15 electricity, the less you understand it.

16 So number one, how could you get me to a comfort
17 level that I could accept -- cross product netting and
18 electricity. I have no problem say -- gas versus unleaded
19 gasoline, for instance.

20 And (b) would a more limited netting, say within
21 just the energy market, just within the virtuals, confer
22 approximately the same benefits?

23 MR. FLORY: Okay, we have -- well, first off,
24 Bob, don't you currently have people in your market who are
25 already -- Bob Levin. People already in NYMEX or have some

1 power contracts that they're netting against gas contracts?

2 MR. LEVIN: You're handing the mic to me?

3 MR. FLORY: I'm just giving you as an example for
4 a starting point, yes.

5 MR. LEVIN: Well, that was nice of John.

6 (Laughter.)

7 MR. FLORY: I'll take it back in a minute.

8 MR. LEVIN: I probably share some skepticism
9 regarding some of their model myself. But as I did say,
10 we've had netting already, both in electricity and its other
11 commodities.

12 But there's a lot of volatility there. It is not
13 foregone. I certainly don't think zone J has anywhere near
14 the relationship with PJM West, which is, you know, the --
15 and PJM -- I shouldn't say PJM West, but anyways, the
16 western hub there -- as does zone A. But there is a
17 relationship.

18 And there certainly is -- when you combine some
19 of our basic contracts -- Henry and the PJM or the New York
20 ISO's, the combination. And then sometimes the break is
21 anywhere from a third in collateral to as much as 60
22 percent. We've managed with combinations.

23 But that's all risk-based. And we evaluate that
24 every day. And we take risk very seriously.

25 MR. FLORY: See, you need to look at what the

1 correlations in the prices are and that determines
2 essentially what these price credits are. And that's what
3 Bob was referring to in terms of the level of netting of one
4 point versus another.

5 MS. PERL: All right, Bob, when you said you are
6 listening -- a third to about 60 percent of the collateral,
7 is that how much -- how much of the transactions does that
8 represent on say a megawatt million cubic feet basis? And
9 is that represented on a daily basis?

10 MR. LEVIN: Oh, I'm sorry. What? In our futures
11 markets, okay, which is a little differently than we would
12 envision doing it for the cash market in electricity, but
13 the same general principles, but the applications have to be
14 different.

15 But in answer to your question, because I think
16 it's very relevant, nonetheless, since the principle will
17 hold over, we have certain collateral amounts for each type
18 of futures contract. And if you add those positions up
19 independently, you'll get a number. It will add up to, say,
20 \$10,000 -- just to make the map easy. And that would be for
21 a pretty significant face value of contracts.

22 What I'm saying is that anywhere
23 from a third of that, say \$3,000, we would return because we
24 would say that we see offset and the underlying risk to
25 about two-thirds, 65 percent. We've had about a 65 percent

1 credit.

2 I apologize it does not apply today. And Mike
3 might know. Don't hit me in the kidneys or something. But
4 say the Henry Hub contract or the regular natural gas
5 contract and the Transco zone 6 minus that basis, plus say
6 zone J in New York. Now, there is a nice offset. You can
7 buy the gas, take it up to Transco, and, you know, sell it.
8 I mean buy the electricity. And it all offsets.

9 But you do have to be on the right side of that
10 transaction. But that's the sort of thing that has had,
11 say, 65 percent off.

12 MR. PERLMAN: I have another question for Mr.
13 Flory. Just so I understand because we had discussion about
14 settlement periods and you noted that.

15 If you had a 30-day settlement period and then
16 you have your credit derivative that you're waiting settle,
17 and then there's a lot of -- if you have -- you see some
18 credit degradation to your -- to the people who are
19 representing that derivative, underlying it, and there is
20 maybe some volatility or price spike or something like that,
21 would you then margin them again settlement at the end of
22 the 30 days? Is that how this would work?

23 MR. FLORY: We would do daily monitoring of
24 people's positions and also both their market positions in
25 terms of by themselves and also in terms of their credit

1 positions -- if there's been things that have happened that
2 would change their credit exposures.

3 It's a lot easier to do a daily monitoring of
4 that for the larger people from whom there's the credit and
5 default swap markets.

6 But we would monitor their positions and as we
7 see their position starting to exceed whatever their credit
8 limit is, then margin would be required at that point just
9 like it is today in both the RTO and the OTC markets.

10 MR. PERLMAN: But let's say they are a
11 municipality and they were rated. In an RTO I don't think
12 they would ever be margined. And let's assume they were
13 short, they weren't covered, and all of a sudden the market
14 price went very high and they saw big exposure.

15 Would you be able to margin them on your own,
16 based upon your own criteria? Is that how this would work?
17

18 MR. FLORY: We'd have a -- well, first off, there
19 are -- most of the RTO's, ISO's have credit limits that they
20 apply to all their participants. For most of the public
21 members it's rarely that's a binding constraint -- that they
22 would hit those credit limits.

23 So it hasn't been an issue that's been a big
24 trigger in most cases. There are some smaller folks for
25 whom they aren't rated and haven't been convinced seeing the

1 RTO's or ISO's and so they would have to post collateral.

2 And so we see initially, starting with that
3 umbrella credit policy comparable to an ISO --

4 MR. PERLMAN: But you would mirror their credit
5 policy and to the degree that they can margin, you would
6 parallel margin --

7 MR. FLORY: For a starting point that would be
8 the umbrella with which we would work. And then we'd have
9 refinements within that to lower that as we refine the
10 policies, yes.

11 MR. PERLMAN: Sebastian, do you have a question?

12 MR. TIGER: A question for Toby in regards to --
13 maybe you could talk in a more detail about your process
14 with the CCRO and sort of adoption of or reticence about the
15 adoption of the ratios and the dissemination of those among
16 market participants, because it struck me that some of the
17 morning conversation about, you know, I'm getting
18 transparency in the OATT conversation as to sort of what
19 risk management processes there were in companies and what
20 the exposure was -- that that was occurring between the
21 transmission provider and the potential customer.

22 I mean, it wasn't necessarily all that
23 transparent to the customer what was ultimately going to
24 come out. Perhaps your ratio would provide some of that
25 transparency. Is that sort of the idea behind the product

1 and what's the industry's likely or current response to the
2 product coming out?

3 MR. HSIEH: Yeah, I think that's got really good
4 points. I mean our rating is not just, you know, in a few
5 letters. It's the rationale and other things we provide.

6 And one of the things we'd like to provide a way
7 to help counterparties and RTO's and ISO's -- whoever, to be
8 able to assess counterparty credits. And to you guys I'm
9 sure even more important than long-term credit rating is the
10 short-term ability of the counterparties to pay. And you
11 know, I hope that the liquidity ratio -- well, if we do it
12 in a simple and transparent way and everyone can appreciate
13 what goes into it, that you'd be able to perhaps consider
14 that as part of your credit analysis.

15 And we certainly do at our shop -- to think
16 that's part of our credit analysis. I mean, it's very
17 important that, you know, nobody focus on one number and
18 come out with a conclusion.

19 And we also try to emphasize that as we talk to
20 potential users and with companies that, you know, we don't
21 see it that way and they shouldn't see it that way.

22 And as far as working with the CCRO -- and by the
23 way, it's not just people -- companies within the CCRO. We
24 also reach out to companies beyond CCRO. We talked about
25 all of them.

1 And, you know, we have actually had some
2 companies who thought our criteria was kind of lenient. And
3 some companies think, you know, they are too stringent. And
4 we have companies simply think that, you know, it doesn't
5 apply to them or is not ideal in terms of, you know, how we
6 are approaching it.

7 So, you know, like all issues we're working
8 through the issues and try to get it to a point where
9 everyone can get more comfortable with what we're trying to
10 do. And, you know, at the end of the day, you know, this is
11 a big, important issue -- that if we can come to some kind
12 of solution, it would I think really benefit everyone
13 involved.

14 MR. TIGER: I have a question for Mr. Axilrod,
15 perhaps on the history of the organization. It seems like
16 people don't want to necessarily recognize the costs of
17 mutualized credit risk until it hits. Does that apply to
18 sort of the growth of DTCC at all in terms of the history of
19 financial organizations?

20 You know, what was what got the ball rolling
21 with, you know, clearing in the financial sector and --

22 MR. AXILROD: Actually it's only one of our
23 subsidiaries where concerns over credit risk was the driving
24 factor. And that was Emerging Markets Clearing Corporation.
25 For obvious reasons.

1 What got DTCC going historically was just the
2 paperwork crisis of the 60s, where the stock exchange had to
3 shut down Wednesdays in order for the paperwork to catch up
4 with trading.

5 So that actually provoked Congress to call for a
6 national clearance and settlement system, where all this
7 stuff would be automated. All the transactions would be
8 netted and settled on a net basis.

9 So that's really what got it going. A
10 consequence of all this netting through a central
11 counterparty structure is that DTCC or clearing subsidiaries
12 and predecessor companies actually became the counterparty
13 to all trades, the buyer to every seller and the seller to
14 every buyer. Therefore, if somebody failed,
15 since we were legally the counterparty, we had to settle
16 their transactions. And what that did is forced us then to
17 come up with the whole risk management protocol to collect
18 margin every day. And I actually did that for 10 years at
19 the clearing subsidiary, NSCC.

20 And we kept in pretty close touch with our
21 members. We are user owned and user governed and operate on
22 a not-for-profit basis.

23 And we had a membership and risk committee of our
24 board of directors, which is comprised of risk professionals
25 and operations professionals from the committee. And since

1 it was their money that was ultimately at risk, if we blew
2 it, if we didn't collect enough margin from our participants
3 and didn't respond quickly enough to financially distressed
4 participants, all of our margining procedures and
5 surveillance methods had to be approved by this committee.

6 And they were acutely aware of their exposure if
7 we got it wrong. And in fact at one point we didn't get it
8 quite right. Fortunately we warned people beforehand. And
9 this was a hole in our system and they didn't do anything
10 about it. And the industry lost some money.

11 And that caused people to, you know, provide more
12 resources to get it right and to get it right in the future.

13

14 MR. CHOO: Yeah. Maybe as a follow-up, you said
15 the DTCC's owner used -- yeah, is not for the benefit of the
16 owners. Who are the owners? Are they dealers? Are they
17 all the market participants?

18 MR. AXILROD: It's every -- every market
19 participant has the right to buy shares in proportion to the
20 use of the clearing services. There are only five or six
21 that have the right to buy enough shares to assure
22 themselves a board position. So they do.

23 And there are the usual suspects -- the
24 three large clearing banks, the Bank of New York, State
25 Street, and Chase. In addition I think Merrill Lynch does

1 enough business to assure itself the right to own shares.

2 The rest of the participants can buy shares or
3 not. They don't get dividends. Some like to buy shares
4 just to support the company. And the shares that are not
5 bought by participants will be bought by the New York stock
6 exchange.

7 Nevertheless, the New York stock exchange only
8 has one seat on our board. And if they ever, I think,
9 exercise their right to give themselves more than one seat,
10 the SEC would step in and say you can't do it.

11 So that's basically how it works. And we're
12 represented by all market participants. So it includes
13 banks; it includes broker dealers; it includes mutual funds;
14 it includes alternative investment managers as well.

15 MR. PERLMAN: I have a request for Ms. Duhig. We
16 heard earlier today that there was some question as to
17 whether the ISO's could really identify their mutualized
18 default risk. But if you're going to write insurance for
19 them, you must feel that you can.

20 Do you feel that is a complicated task? And what
21 sort of things do you do to get a handle on the scope of
22 that risk?

23 MS. DUHIG: It can be a complicated task because
24 not only do you have the delivered piece, you also have the
25 mark-to-market piece. A lot of the carriers will focus on

1 putting in place coverage for the delivered piece.

2 We normally recommend to clients to look at the
3 top 75 days of exposure. So in this industry it would be
4 the summer months to look at your peak exposures and either
5 purchase credit limits based upon those intended exposures.

6 The mark-to-market is a little bit more
7 challenging. And a lot of the insurance companies have lost
8 a lot of money on that piece. And the amount of coverage
9 available for that isn't as great.

10 MR. PERLMAN: Thank you. Do we have any other
11 questions?

12 (Pause.)

13 COMMISSIONER KELLIHER: I just wanted to ask Mr.
14 Schubiger -- I think you were nearly done with your
15 statement and I just wanted to see if there were any other
16 comments you wanted to make.

17 MR. SCHUBIGER: Thank you. I appreciate that. I
18 just wanted to state that, you know, we strongly encourage
19 the Commission to hold the multi-day workshop on credit-
20 related issues. This is needed to understand the details,
21 mechanics, and need for the Commission's potential
22 rulemaking procedure.

23 COMMISSIONER KELLIHER: Thank you. I appreciate
24 it.

25 MR. SCHUBIGER: Thanks.

1 MR. PERLMAN: He beat me to that. Is there
2 anyone in the audience who'd like to make a comment for the
3 record in this proceeding?

4 Please state --

5 CFTC COMMISSIONER BROWN-HRUSKA: I just wanted to
6 also commend you for setting this conference up. It just --
7 it really is an important contribution to my understanding
8 of credit issues. And I think it's a very positive thing
9 for us to be thinking about these issues.

10 I think a lot of important points have been made
11 that I've heard about the importance of restoring liquidity
12 to the markets and raising liquidity. And we've got a lot
13 of experts here in liquidity and provision and credit
14 mitigation.

15 I just had a couple of questions. I actually had
16 to step out while Mr. Levin was talking and I wanted to make
17 sure that you addressed the issue of whether or not
18 exchanges have dealt with physical delivery default or the
19 potential for that.

20 I mean, I know that certainly in the Chicago
21 markets we've seen that where, you know, a farmer has faced
22 delivery default issues or, for example, I didn't in the
23 energy markets if that's been an issue that you have dealt
24 with before.

25 MR. LEVIN: Okay. Thank you, Commissioner. In

1 the scheme of things I could get everything. But absolutely
2 we have -- our major contracts have delivery obligations in
3 them.

4 And we've treated it from a legal perspective
5 differently at different times, but in electricity
6 eventually -- and now people are just using cash settled,
7 and that's the market's preference. We have physical
8 delivery contracts. They prefer to use the cash settled
9 ones.

10 But we actually put in that clearing numbers are
11 responsible for performance in there. In our natural gas
12 contracts and our heating oil and unleaded and on our crude
13 oil what we have in there are just some very powerful
14 disincentives from not reforming.

15 And I will take a moment to explain how effective
16 they can be because there's some very good examples. But
17 the way the law allows us, we can penalize people that are
18 found to be in nonperformance. And we do, say, 20 percent
19 of the contract value.

20 That does not relieve them from their delivery
21 obligation in mitigating it if they did not perform to a
22 counterparty. So they continue to have their regular
23 commercial obligation, plus a 20 percent penalty from NYMEX.
24 And that's been very effective. Now, that sounds
25 effective and it actually has been effective. But there's a

1 couple of great examples. And one in particular: hurricane
2 Andrew, which came around at a fairly early point in the
3 development of the Henry Hub natural gas delivery contract.
4 It was '92 or so I think when Hurricane Andrew came through.

5
6 And anybody that goes back in the gas business
7 knows that there used to be something, and not just in that
8 industry, but that clever phrase "price majeure," which of
9 course means people did not perform if they didn't like the
10 price.

11 And that was absolutely the case in the gas
12 business. And over time we even heard from production
13 companies' lawyers something known as firm and then NYMEX
14 firm.

15 And I think NYMEX firm derives from the fact that
16 during Hurricane Andrew, when it went over not only our
17 delivery area, but a big part of the production area in the
18 Gulf coast, many cash contracts were simply not performed
19 on. Maybe both parties decided they couldn't do it and they
20 stepped away.

21 Every one of the NYMEX contracts were performed
22 on. And we didn't make special allowance. We might have
23 had to. We might have had to convene some of our processes
24 to manage that. And we have certain ways of overseeing
25 that.

1 But we just went to everybody in the market and
2 we said, "We think you should be able to figure this out
3 amongst yourselves." And they did. And they understood the
4 penalties behind that.

5 Does that mean that everything turned into a
6 physical delivery -- it might have been delivered elsewhere.
7 They may have decided to cash settle it out through a means
8 that took them off of our protections, out of our
9 protections. All those are available.

10 So we've managed. I went on for quite a bit
11 there. But just to give it, I think, an important and
12 powerful illustration. I could give others. We have
13 managed through delivery performed. And we haven't had
14 nonperformance of delivery. And we've had a lot of energy
15 delivered against our contracts over the last 25 years.

16 MR. PERLMAN: Thanks.

17 CFTC COMMISSIONER BROWN-HRUSKA: Let me just
18 thank you for that, because that's what I -- you know, I
19 guess kind of gets to this issue that I've kind of been
20 saying is that, you know, the idea that the financial
21 markets and the physical delivery markets are not separate
22 markets.

23 I mean, the financial markets and the physical
24 markets are intricately integrated in important ways. And
25 you can't let one part sort of go without the other part

1 suffering.

2 So bringing them together and finding solutions
3 that enables financial integrity to flourish and encourage
4 physical delivery trading and encourage liquidity is a real
5 positive I think from our perspective -- both from the
6 CFTC's perspective and FERC's perspective -- because, you
7 know, financial integrity is important to us as regulators.

8

9 So again I just want to congratulate everybody
10 for coming today and sort of educating us, because I think
11 it's very positive.

12 COMMISSIONER KELLIHER: And I want to thank Dave
13 for making the trains run on time today. Thank you.

14 MR. PERLMAN: With that we'll ask this gentleman
15 to identify himself and to give us any comments he'd like.

16 (Pause.)

17 MR. ANDERSON: How's that? Is that better?
18 Okay, one more time. I'm Robert Anderson. I'm Executive
19 Director of the Committee of Chief Risk Officers. I also
20 have enjoyed this interesting session on credit.

21 The CCRO -- for those of you who that don't know,
22 some of you from the banking industry and whatnot here -- we
23 are a professional association of energy companies dedicated
24 to identifying and documenting best practices for
25 measuring, managing, and reporting financial risk and its

1 effect on the robustness of energy companies and the markets
2 they compete within.

3 The third and fourth panels you had going today
4 all talk from varying angles about clearing. And I have
5 just a short statement specifically about clearing that the
6 CCRO would like to make -- and to just get into the record
7 formally.

8 Clearing provides the benefits of multilateral
9 netting, centralized collateral managements, standard
10 margining, and in most cases a credible guarantor backing
11 the events default.

12 CCRO research has shown that true multilateral
13 clearing may reduce collateral requirements by as much as 75
14 to 90 percent. And it does this by advancing the benefits
15 of bilateral netting to a larger grouping of counterparties.

16
17 In true clearing a participant's credit exposure
18 to counterparties is replaced in whole or in part by credit
19 exposure to the clearinghouse. The result is that the net
20 credit exposure of an active participant is more closely
21 aligned with a market risk of its overall portfolio, netting
22 all positions.

23 The power of true multilateral clearing is
24 unmatched. The CCRO wants to continue to encourage our
25 industry to embrace clearing by participating in a clearing

1 vehicle of their choice based on each company's own
2 competitive criteria.

3 In November of 2002 the CCRO published a credit
4 risk management white paper, which includes a discussion of
5 clearing in considerable detail and generally advises
6 companies to move forward with participation in clearing in
7 a prompt, yet prudent fashion.

8 In particular, we recommend in our white paper
9 that potential clearing providers be evaluated based on 10
10 distinctive attributes.

11 For today's discussion we want to make a
12 statement that again encourages clearing, yet helps the FERC
13 and our industry to move forward according to our documented
14 best practices.

15 Since our white paper was first published in
16 November '02 several clearing platforms have come and
17 several may have gone. The platforms we have evaluated,
18 which includes all those discussed today -- each carry
19 issues that we see as material for the FERC to consider.
20 And I'll list those right now. First, while all of
21 these service providers offer limited credit margin
22 reduction and value for certain products and transactions,
23 none of them offer all the benefits of a traditional
24 clearing house.

25 The service providers that have offered these

1 solutions to the energy merchant industry are profit-
2 oriented unlike traditional clearinghouses. All of these
3 solutions would involve significant clearing fees and
4 substantial costs to the energy merchant industry that
5 impact and add to the overall costs of doing business by the
6 energy merchant.

7 For the expense involved these solutions do not
8 drastically reduce or eliminate the amount of guarantee
9 capital offered, satisfactorily lower the amount of the
10 margin payments, or dissipate the counterparty risk across
11 numerous counterparties.

12 Ultimately, the bottom line is granting a new or
13 existing entity that would provide clearing services a
14 franchise monopoly, as may be under consideration by the
15 FERC, is not the answer.

16 A franchise monopoly for a single for-profit
17 clearing entity raises substantial concerns for commercial
18 and legal viability, feasibility, complexity, and fairness.

19
20 In addition, a franchise monopoly that would be
21 implemented as an imposed solution by the FERC raises
22 substantial concerns as to which groups or classes of market
23 participants would bear the cost for implementation and
24 operation of it.

25 Finally, we would question whether one franchise

1 monopoly could in any case address all the credit and
2 clearing problems that the CCRO has identified here and in
3 its white papers.

4 Thank you for considering these comments and your
5 future assessments.

6 MR. PERLMAN: Thank you. Is there anyone else
7 who would like to make a comment?

8 (No response.)

9 MR. PERLMAN: Well, with that, that will conclude
10 this technical conference. I thank all for their
11 participation. And it was very useful to us. We'll
12 consider.

13 (Whereupon, at 4:00 p.m., the technical
14 conference was adjourned.)

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