

1 FEDERAL ENERGY REGULATORY COMMISSION

2 Thursday, March 19, 2015

3 Commission Meeting Room

4 888 First Street, N.E.

5 Washington, D.C.20426

6 The Commission met in Open Session pursuant to

7 notice at 10:00 a.m., when were present:

8 COMMISSIONERS:

9 CHERYL A. LaFLEUR, Chairman

10 PHILIP D, MOELLER, Commissioner

11 TONY CLARK, Commissioner

12 NORMAN C. BAY, Commissioner

13 COLETTE D. HONORABLE, Commissioner

14 FERC STAFF:

15 BARBARA BOSE, Secretary

16 LARRY GASTEIGER, Acting Director Office of Enforcement

17 JAY ARNOLD QUINN, Director Office of Energy and Innovation

18 MICHAEL BARDEE, Director, OER

19 JOSEPH McCLELLAND, Dir Office of Energy Infrastructure

20 Security

21 DAVID MORENOFF, General Counsel

22 JAMIE SIMLER, Director Office of Energy Market Regulation

23 ANNE MILES, Office of Energy Projects

24 TED GARARDEN, OAL

25

1 A P P E A R A N C E S:

2

3 OPEN ACCESS AND PRIORITY RIGHTS ON INTERCONNECTION

4 CUSTOMER'S INTERCONNECTION FACILITIES (RM14-11-000)

5 PRESENTERS

6 Becky Robinson, OEPI

7 Brian Gish, OGC

8 Gabriel Aguilera, OEMR

9

10

11 NORTH AMERICAN ELECTRIC RELIABILITY CORPORATION

12 (RR15-4-000)

13 PRESENTERS

14 Olutayo Oyelade, OER

15 Jonathan First, OGC

16

17 OAL CONTRIBUTIONS TO THE WORK OF THE COMMISSION

18 (AS15-8-000)

19 PRESENTERS

20 Diane Schratweiser, OAL

21 Andrew Schulte, OAL

22 Christopher Skorksi, OAL

23 Meagon McComb, OAL

24

25

1 2014 STATE OF THE MARKETS (AD06-3-000)

2

3 PRESENTERS

4 R. Omar Cabrales, OE

5 James Burchill, OE

6 Ryan Stertz, OE

7

8 ITEMS FOR DISCUSSION AND VOTE

9 CONSENT ELECTRIC

10 E2, E4, E5, E6, E7, E8, E9, E10, E11, E12, E13, E14,

11 E15 AND E20

12 CONSENT HYDRO

13 H1 and H2

14 CONSENT CERTIFICATES

15 C1, C2 and C3

16 DISCUSSION ITEMS

17 E1, E3, A4 and A3

18 STRUCK ITEMS

19 None.

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

2 THE SECRETARY: The purpose of the Federal Energy
3 Regulatory Commission's open meeting is for the
4 Commission to consider the matters that have been duly
5 posted in accordance with the government and the
6 Sunshine Act.

7 Members of the public are invited to observe which
8 includes attending, listening, and taking notes.

9 But it does not include participating in the
10 meeting or addressing the Commission.

11 Actions that purposely interfere or attempt to
12 interfere with the commencement or conducting of the
13 meeting or inhibit the audience's ability to observe or
14 listen to the meeting including attempts by the
15 audience members to address the Commission while the
16 meeting is in progress are not permitted.

17 Any person engaging in such a behavior will be
18 asked to leave the building.

19 Anyone who refuses to leave voluntarily will be
20 escorted from the building.

21 Additional documents presented to the Chairman,
22 Commissioners, or staff during the meeting will not
23 become part of the official record or any Commission
24 proceeding nor will they require further action by the
25 Commission.

1 If you wish to comment on an ongoing proceeding
2 before the commission please visit our website for more
3 information.

4 Thank you for your cooperation.

5 (Whereupon there was a disturbance not recorded as
6 part of this official record.)

7 CHAIRMAN LaFLEUR: The audience has been noticed
8 for the open meeting of the Federal Energy Regulatory
9 Commission to consider the matters that have been duly
10 posted in accordance with the government and the
11 Sunshine Act. Please join me in the Pledge of
12 Allegiance.

13 (After the Pledge, there followed another
14 disturbance and on resuming on the record.)

15 CHAIRMAN LaFLEUR: Thank you for your patience.
16 We are getting started a couple minutes late, but we do
17 have a very full agenda this morning.

18 The Commission has issued 74 notational items
19 since the February open meeting, and February is a
20 short month, so I recognize that that is a lot of work
21 and I want to thank all of my colleagues and staff for
22 their efforts.

23 Not only do we have a full discussion agenda
24 today, but a number of important items on the consent
25 agenda.

1 In today's items, the Commission addresses a
2 number of proceedings related to the New York ISO
3 market.

4 Civil proceedings concerning utilities formula
5 protocols and hydro certificate items.

6 I want to particularly note that we are issuing
7 two more Order 1000 compliance orders including the
8 second round of regional rehearing of the ISO New
9 England Compliance which will be the last of our second
10 regional orders of all of the regions.

11 Today's order affirms the Commission's prior
12 finding in the first round of regional order that ISO
13 New England must remove certain right-of-first refusal
14 provisions from its governing documents and that the
15 mobile Sierra Doctrine does not preclude the removal of
16 these provisions.

17 Although we do not reach consensus on that aspect
18 of the order, I want to thank my colleagues for their
19 work on it.

20 Before we return to the consent agenda, I want to
21 take a moment to recognize one of the truly outstanding
22 employees at the Commission and that is Anton Porter,
23 the Commission's executive director who is responsible
24 for many of the day-to-day behind-the-scenes work that
25 keeps everything we do running.

1 I do not have time to enumerate all of Anton's
2 accomplishments, but just a few.

3 Due to through all of the cliffs and crises of the
4 federal budget of the last few years, we are one of the
5 few agencies that has never had to furlough an
6 employee, missed a day of work, and our employees have
7 never missed a paycheck even during the sequestration
8 because Anton managed to make it all come out okay.

9 He has overseen our ongoing efforts to ensure the
10 security of the agency and its employees including
11 working with our wonderful security staff, Federal
12 Protective Services, and the DC police.

13 He had a lead role in the Commission's response to
14 the Department of Energy Inspector General inquiry due
15 to his oversight of both security and classification
16 protocols as well as information technology including
17 the ongoing development of efforts to respond to the
18 Inspector General inquiry by changing our processes.

19 In the last several months everyone knows we had a
20 lot of retirements and changes in senior staff and
21 Anton and his team have worked on that process and the
22 most thankless task of all, Anton is spearheading the
23 Commission's organization efforts which will take place
24 over the coming years.

25 Anton is basically the chief operating officer of

1 the Commission. He is unflappable, a pleasure to work
2 with, and he has been a wonderful asset, so it is my
3 honor to call him forward to receive the Exemplar
4 Public Service Award.

5 How can you follow that? That is all I have, so I
6 will turn it over to Commissioner Moeller.

7 COMMISSIONER MOELLER: I don't have any comments. Thank
8 you.

9 COMMISSIONER CLARK: Congratulations Anton, of course,
10 well-deserved. Just a staff announcement I am making
11 today.

12 I will be losing one of the first advisors that I
13 hired when I came on the Commission shortly.

14 Nick Tackett who has been with me almost from day
15 one on the Commission here is my technical adviser and
16 he is going to be moving to the Office of Energy
17 Projects, OEP, in the front office working on hydro
18 applications.

19 Now a little bit of background on Nick. People
20 may assume, most of you who have worked with him, and
21 know Nick, that he has maybe it's a Ph.D. or a Master's
22 degree in economics behind him because he is so smart
23 on economic regulation and on market type issues that
24 it might actually come to surprise people that this is
25 not his first love.

1 He actually has a degree in ecology and biology
2 and environmental sciences and, in fact, I went back, I
3 was looking this morning and I found Nick's original
4 resumes that he submitted when I was hiring him and I
5 actually wrote on there Econ? Engineering?

6 I recall talking to Phil who he had been on detail
7 with prior to serving in my office, I said, "Everybody
8 tells me these great things about him," that he is kind
9 of a genius on PJM tariff, but I notice these degrees
10 in biology and ecology, and I said, "Does this all
11 match up?" and he said, "Trust me, he will be great.
12 Don't worry about him."

13 He was right and he has been great from day one.
14 He has been a tremendous asset to my office and I would
15 say also to the 11th floor. He is one of those key
16 folks who just is always right in the middle of
17 negotiations between the offices and oftentimes is one
18 of those folks who can bring people together.

19 Nonetheless, he is in a very good position in OEP
20 and became available to him as we were talking in the
21 last few months, he said, "Really, ecology and biology,
22 it's my first love. It's what I was trying to do.
23 It's what I really enjoy doing."

24 It amazes me that someone could find fish more
25 interesting than the PJM tariff, but apparently it's

1 true.

2 Nick is going to be with me through the end of the
3 month, but before the next meeting will be moving down
4 there.

5 Congratulations to Nick and thank you for all the
6 work you have done.

7 At the same time, I would like to welcome up
8 Nick's replacement who is going to be joining us on
9 detail.

10 John Miller is currently a market analyst with the
11 Division of Analytics and Surveillance. He has been
12 here at the Commission for a few years. He has got
13 degrees in history and economics from the London School
14 and prior to that is it Penn State?

15 GW. That's right. We have so many Penn Staters
16 walking around this building, I just assumed they are
17 all from there.

18 So from GW. John prior to that was in the
19 industry was in the private sector was an industry
20 market analyst, so he brings a deep knowledge of the
21 markets as well and I look forward to working with
22 John.

23 Thank you.

24 CHAIRMAN LaFLEUR: Thank you, Tony. Commissioner
25 Bay.

1 COMMISSIONER BAY: I too wish to congratulate Anton
2 Porter for his outstanding work as the director of OED
3 and for receiving a very well deserved award.

4 COMMISSIONER HONORABLE: Thank you and good morning. I
5 too would like to echo the sentiments expressed
6 regarding our fine executive director Anton Porter.

7 When people ask me how has my transition been, I
8 would say that it has been spectacular and quite
9 frankly better than I could have ever expected.

10 Certainly in part due to kindness and hospitality
11 of the Chairman and my colleagues on the Commission but
12 due in very very large part to the man that we are
13 acknowledging today and commending for his fine
14 service.

15 Executive Director Porter is the consummate
16 professional. He works with the spirit of excellence
17 and he will handle any task no matter how great or
18 small.

19 It has been just a pleasure to work with you,
20 director, and I join my colleagues in commending you
21 today.

22 Also I want to congratulate Nick and I agree that
23 we have certainly seen his impact on the 11th floor and
24 will be greatly missed and welcome John.

25 With regard to administrative matters in my suite,

1 I have mentioned to you that I hired Eman Honig, so I
2 am putting him on the spot. Stand up Eman so they can
3 see you.

4 Eman, he has been in and around, but I do not
5 think that I have announced his arrival during an open
6 meeting.

7 Eman is from Arkansas so he is a fellow Razorback
8 and he comes from the Arkansas Attorney General's
9 Office where he worked as a consumer utility rate
10 advocate.

11 He will keep me firmly at my roots and all things
12 consumer.

13 Thank you, Eman.

14 Also of note. One joke that I made he went to
15 both Tulane and Duke and I know that I have really
16 grown to hire Duke graduates.

17 Welcome, Eman, he has jumped right in and it has
18 really been great to have him.

19 I would like to also mention to you another
20 spectacular hire if I might say so myself, Lott
21 Thormeyer will join us on March 30th from NARUC, the
22 National Association of Regulatory Utility
23 Commissioners where he has been director of
24 Communications and he has worked there for eight years.

25 I have known him for about seven of those years

1 and I have worked very closely with him both with
2 regard to my tenure as a state commissioner and last
3 year as president of NARUC, and so I told Commissioner
4 Clark, I took a page out of his book and looked toward
5 NARUC for help.

6 He will handle both scheduling and also
7 communications from my suite. I hope that you will
8 welcome Robin.

9 Thank you.

10 CHAIRMAN LaFLEUR: We have a makeup call here.

11 COMMISSIONER MOELLER: I do not want to be one who does
12 not say something good about Anton Porter because he
13 not only is consistently pleasant and hard working but
14 also cool under pressure and greatly deserves this
15 award.

16 Thanks to all of you who do make our lives a tad
17 easier and saying goodbye to Nick who we will miss.

18 He has been a great American working for the
19 American public on the 11th floor, a little bit for me,
20 but a lot for Commissioner Clark and welcome the new
21 additions that we look forward to working with over the
22 next few months and years.

23 CHAIRMAN LaFLEUR: Thank you. Madame Secretary, I
24 think we can move on to the Consent Agenda.

25 THE SECRETARY: Good morning, Madame Chairman,

1 good morning Commissioners.

2 Since the issuance of the Sunshine Act Notice on
3 March 12, 2015, no items have been struck from this
4 morning's agenda.

5 Your consent agenda is as follows.

6 Electric Items. E2, E4, E5, E6, E7, E8, E9, E10,
7 E11, E12, E13, E14, E15 and E20.

8 Hydro Items, H1 and H2.

9 Certificate Items, C1, C2 and C3.

10 As required by law, Commissioner Honorable is not
11 participating in consent Item E5.

12 As to E4, Commissioner Moeller is dissenting in
13 part with a separate statement.

14 As to E4, Commissioner Clark is dissenting in part
15 with a separate statement.

16 As to E20, Commissioner Bay is concurring in part
17 and dissenting in part with a separate statement.

18 We will now take a vote on this morning's consent
19 agenda items.

20 The vote begins with Commissioner Honorable.

21 COMMISSIONER HONORABLE: Thank you, Madame Secretary.
22 Noting my recusal on E5, I vote aye.

23 COMMISSIONER BAY: Noting my partial concurrence and
24 dissent in E20, I vote aye.

25 COMMISSIONER CLARK: Noting my dissent in part on E4, I

1 vote aye.

2 COMMISSIONER MOELLER: Noting my dissent in part on E4, I
3 vote aye.

4 CHAIRMAN LaFLEUR: I vote aye. So we can move to
5 the discussion agenda.

6 THE SECRETARY: Thank you, Madame Chairman. The
7 first item for discussion and presentation this morning
8 is E1 concerning a draft final rule on open access and
9 priority rights on Interconnection Customers
10 Interconnection Facilities.

11 There will be a presentation by Becky Robinson
12 from the Office of Energy Policy and Innovation.

13 She is accompanied by Brian Gish from the Office
14 of the General Counsel and Gabriel Aguilera from the
15 Office of Energy Market Regulation.

16 MS. ROBINSON: Good morning, Chairman and
17 Commissioners. E1 is a draft final rule on open access
18 and priority rights on Interconnection Customers
19 Interconnection Facilities.

20 These facilities are often referred to as
21 generator lead lines or generator tie lines and are
22 generally constructed to enable one or more generating
23 facilities to transmit power to the integrated
24 transmission grid.

25 Interconnection customers with these facilities

1 often request certain transmission tariff waivers and
2 the Commission routinely grants such waivers.

3 However, in a series of recent cases issues have
4 arisen regarding the extent to which if at all third
5 parties should be able to have open access for
6 transmission on these facilities.

7 In these cases the Commission has required the
8 Interconnection Customer to provide open access
9 transmission service over its facilities, but has also
10 given Interconnection Customer an opportunity to
11 reserve excess capacity on these facilities for its own
12 future use provided it adequately demonstrate its plans
13 to use such capacity.

14 While the Commission has processed scores of
15 requests for transmission tariff waivers in recent
16 years on these facilities a third party has only
17 requested service and this required Interconnection
18 Customer to file a tariff in only four instances total.

19 Following a notice of proposed rulemaking in May
20 of last year as well as a technical conference, a
21 notice of inquiry and informal industry outreach the
22 draft final rule finds that the Commission's policies
23 of treating Interconnection Customers Interconnection
24 Facilities the same as other transmission facilities
25 for OATT purposes including the requirement to file an

1 open access transmission tariff following a third-party
2 requests creates an undue burden for the
3 Interconnection Customer without a corresponding
4 enhancement of access given the Interconnection
5 Customers typical ability to establish priority rights.

6 As such the draft final rule finds that the
7 Commission requirements for achieving not unduly
8 discriminatory access over Interconnection Customers
9 Interconnection Facilities should be reformed to reduce
10 regulatory burdens and promote developmental generating
11 facilities while continuing to ensure open access to
12 transmission facilities by eligible transmission
13 customers.

14 The draft final rule largely adopts the proposed
15 rule. The draft final rule would first give a blanket
16 waiver of the open access transmission tariff open
17 accessing time information system and standards of
18 conduct requirements to any public utility that is
19 subject to such requirements solely because it owns,
20 controls, or operates Interconnection Customers
21 Interconnection Facilities.

22 Second, the draft final rule finds that those
23 seeking service over Interconnection Customers
24 Interconnection Facilities may follow procedures
25 applicable to requests for interconnection and

1 transmission service under Sections 210, 211 and 212 of
2 the Federal Power Act.

3 And third, the draft final rule would establish a
4 five-year safe harbor period during which there would
5 be a rebuttable presumption that it is in the public
6 interest for an entity subject to the blanket waiver to
7 preserve use of any excess capacity on its
8 Interconnection Customers Interconnection Facilities to
9 serve its own or its affiliates future phase generator
10 additions or expansions.

11 The draft final rule also modifies certain
12 elements of the proposed rule by broadening the defined
13 set of facilities to which the reforms apply
14 establishing a means to extend the reforms to a broader
15 defined entities clarifying that the reforms will apply
16 to separate generation affiliates of public utility
17 transmission providers modifying the date on which the
18 safe harbor begins and removing the rebuttable
19 presumption for expansion during the safe harbor.

20 This concludes our presentation of E1 and we are
21 happy to answer any questions you may have.

22 CHAIRMAN LaFLEUR: Thank you so much, Becky,
23 another fine Moeller alum, Brian and Gabe for your work
24 on this order.

25 One of the things I say all the time is that the

1 Commission has an obligation to keep track of the
2 trends that are happening in our work and when we see
3 an opportunity to change a protocol to provide more
4 regulatory certainty and regulatory efficiency we
5 should do so and I think today's draft final rule is a
6 good example of that.

7 This is a significant step forward to change the
8 presumption so that we don't have dozens of long orders
9 going out saying exactly the same thing that we grant a
10 waiver from the old and come back if you want access.

11 We will still find a way to provide access but
12 without having all of that repetitive bureaucracy.

13 I also appreciated the change that was made in the
14 draft, to the rebuttable presumption where an applicant
15 for transmission service seeks and is willing to pay
16 for expansion of the lead line.

17 That is a good change and I am happy to support
18 this order.

19 Colleagues?

20 COMMISSIONER MOELLER: Thank you Chairman LaFleur. I
21 thank you for the team and thank you, Ms. Robinson, for
22 your presentation.

23 It shows the value of NOPR when we have the time
24 to do it because we propose something and we came back
25 with several changes based on the technical conference

1 and the comments that were filed.

2 Do you care to elaborate a little bit more on the
3 differences between the final rule and the proposed
4 rule?

5 You did mention them briefly, but just how the
6 process played out as we went through it.

7 MS. ROBINSON: Sure, and I will let my colleagues
8 jump if they notice important things that I forget.

9 We do get a lot of comments in response to the
10 NOPR and that was very helpful for us to sort through
11 how to implement the changes that we had talked about.

12 The final rule largely follows that the proposed
13 rule, but we did make some tweaks so there was an issue
14 of we want the Sections 210 and 211 a way to provide
15 access to third parties even though we are doing a
16 blanket waiver and for Section 210 to apply, as I am
17 looking at my lawyer, you have to be an electric
18 utility which means you have to sell electricity and
19 sometimes we see a generation develop, we see owners of
20 these facilities and they use separate corporate
21 structures so they don't always, the person who owns
22 the lead line does not always sell electricity and on
23 the final rule we were able to establish a means to
24 apply their forms even to those entities which is nice
25 when you feel like you find a way to get to a right

1 answer because we did not have a good reason for not
2 applying it to them except that we want to ensure that
3 there is a backstop.

4 COMMISSIONER CLARK: No questions for the team, but
5 thanks for your work and I am happy to support today's
6 order.

7 COMMISSIONER BAY: My thanks to the team as well. I am
8 pleased to support the today's final rule.

9 In my view it reduces unnecessary regulatory
10 burden and while supporting the development of new
11 generation it has to tie into the integrated
12 transmission grid.

13 Thank you.

14 COMMISSIONER HONORABLE: Thank you and for the reasons as
15 stated by my colleagues I too am supportive of this
16 order and very pleased of the work of the team in a way
17 that allows our work to reflect what needs to occur in
18 the industry both with regard to reducing burden and
19 creating more efficient systems and also encouraging
20 and supporting infrastructure development with the
21 establishment of the five-year safe harbor rule.

22 Thank you.

23 CHAIRMAN LaFLEUR: Madame Secretary.

24 THE SECRETARY: We will now take a vote on this
25 item. The vote begins with Commissioner Honorable.

1 COMMISSIONER HONORABLE: Aye.

2 COMMISSIONER BAY: Aye.

3 COMMISSIONER CLARK: Aye.

4 COMMISSIONER MOELLER: Aye.

5 CHAIRMAN LaFLEUR: Aye. Thank you.

6 THE SECRETARY: The next item for presentation and
7 discussion this morning is Item E3 concerning a draft
8 order addressing the Electric Reliability Organization
9 Risk-Based Registration Initiative.

10 There will be a presentation by Olutayo Oyelade.
11 He is accompanied by Jonathan First from the Office of
12 the General Counsel and Olutayo is from the Office of
13 Electrical Reliability.

14 MR. OYELADE: Good morning, Chairman and
15 Commissioners.

16 Item E3 is a draft order approving in part and
17 denied in part the North American Electric Reliability
18 Corporation's, or NERC's Risk-based Registration
19 Initiative which is intended to ensure that entities
20 are registered and made subject to the reliability
21 standards based on the risk they pose to reliability.

22 NERC explains that it is transforming its
23 approaches to compliance and enforcement to be
24 forward-looking with a focus on high reliability risk
25 areas.

1 It states that the ERO compliance program and its
2 stakeholders will benefit from the proposed registry
3 changes as they appropriately focus resources on
4 entities with greater potential impact on reliability.

5 Additionally, NERC explains that the proposed
6 changes are consistent with the underlying goal of the
7 definition of the Bulk Electric System which is to
8 provide transparency and consistency in the
9 identification of elements and facilities that make up
10 the Bulk Electric System.

11 Under the Risk-based Registration Initiative, NERC
12 proposes to modify the compliance registry process in
13 four primary ways.

14 First, NERC proposes to remove load-serving
15 entities, purchasing-selling entities, and interchange
16 authorities as functional registration categories.

17 According to NERC the activities of these entities
18 are commercial in nature and their removal from the
19 registry poses little or no risk to reliability.

20 NERC further states that the entities have not
21 caused or exacerbated events or system disturbances
22 that jeopardize reliability of the grid.

23 Nearly all violations involving these entities
24 posed a minimal actual risk to reliability and the vast
25 majority posed a minimal potential risk.

1 Second, NERC raises the threshold for registering
2 entities as distribution providers from 25 MW to 75 MW
3 and to align the directly connected language with the
4 definition of Bulk Electric Systems 75 MW threshold NVA
5 threshold for certain generating resources.

6 NERC also proposes changes to the NERC rules of
7 procedure that explicitly allowed NERC to provide a
8 subset list of reliability standards to distribution
9 providers that meet no other distribution provider
10 registration criteria, but own, control, or operate
11 underfrequency load-shedding protection systems needed
12 to implement the required underfrequency load-shedding
13 program that protects the Bulk Electric System.

14 Third, NERC's proposal would align five functional
15 registration categories with the definition of the Bulk
16 Electric System.

17 NERC explains that these revisions will assure
18 consistency in the identification of elements and
19 facilities that make up the Bulk Electric System.

20 Fourth, NERC proposes several additional
21 procedural changes to its registration process, namely,
22 one, the establishment of a materiality test for
23 registration which delineates the procedures and
24 criteria for evaluating whether an entity has a
25 material impact on reliability.

1 Two, a process for review of certain registration,
2 deactivation and deregistration decisions as well as
3 certain requests for subset lists of reliability
4 standards.

5 Three, the development of a common registration
6 form to facilitate uniformity in the regional entity
7 collection of the information from registration
8 candidates.

9 And four, one-time attestations that allows
10 entities to record that a specific reliability standard
11 requirement is not applicable.

12 According to NERC, collectively this proposed
13 procedural improvements provide additional clarity and
14 transparency to the registration requirements, roles,
15 and responsibilities.

16 While approving most aspects of NERC's Risk-based
17 Registration proposals, the draft order denies without
18 prejudice the proposed elimination of the load-serving
19 entity function and directs NERC to submit a compliance
20 filing to provide additional information regarding how
21 certain load serving entities reliability tasks will be
22 performed going forward.

23 In addition, the draft order directs NERC to
24 include reliability standard PRC-005, which pertains to
25 transmission and generation protection system

1 maintenance and testing as applicable to underfrequency
2 load-shedding only distribution providers.

3 The draft order also requires NERC to provide
4 additional information filing on the implementation of
5 the program.

6 This concludes our presentation and we will be
7 happy to take any questions.

8 CHAIRMAN LaFLEUR: Thank you, Olutayo and
9 Jonathan. I am enough of a reliability geek that I am
10 excited to have this highly technical order on the
11 agenda this morning.

12 It really represents another significant step in
13 the evolution of our work on the mandatory reliability
14 standards.

15 It represents the next steps in the process that
16 NERC has been driving of changing its focus to the
17 highest risk threats to reliability so that it can put
18 his money and his resources that will most help
19 customers and streamline some of the lower-risk
20 proceedings, but at the same time in builds in the
21 transparency and accountability with the changes that
22 we put into the order to make sure that we can do our
23 job to make sure that compliance and enforcement is
24 being properly carried out.

25 I note also that this is the latest chapter in the

1 long-running Bulk Electric Systems saga that has been
2 going on for the last five years and now takes the
3 importance step of conforming the registry, registered
4 entities, to the new rules of what constitutes a bulk
5 electric system.

6 I have a couple questions. It would be helpful if
7 you could elaborate a little on the nature of the
8 approximately 200 entities that will be released from
9 registration under this order.

10 MR. OYELADE: Thank you, Chairman. Based on
11 NERC's analyses, the 200 entities are largely those
12 that have been determined by NERC as having little or
13 no material impact on reliability based, one, on their
14 size, and secondly, under the nature of tasks that they
15 perform.

16 Specifically this would be distribution providers
17 which certain load less that is less than 75 MW or
18 entities that perform larger commercial functions such
19 as purchase-selling entities.

20 CHAIRMAN LaFLEUR: My understanding is that there
21 are a lot of municipal distribution companies that have
22 had a minimal involvement in the bulk electric system
23 will now be aided by this rule.

24 MR. OYELADE: For the most part, yes, the less
25 than 75 MW distribution provided to small entities.

1 CHAIRMAN LaFLEUR: I am also interested if you can
2 provide a little more detail on why we denied NERC's
3 proposal with respect to the LSE, the load-serving
4 entity function and ask them to submit more information
5 on that.

6 MR. OYELADE: The proposed elimination of the
7 load-serving entity function does not remove the need
8 to provide certain reliability data.

9 Finding makes it unclear as to how those
10 informations will be obtained in all cases if the
11 load-serving entity function is eliminated.

12 For example, the filing notes that there are 14
13 load-serving entities that would be deactivated or
14 deregistered because they are not registered for any
15 other function in the NERC compliance registry.

16 Out of the fourteen, six of them are registered in
17 TRE and the finding notes that those are subject to
18 market rules that continue to place them under the
19 obligation to provide the information needed.

20 But the remaining eight, it only makes a general
21 statement as to how the information would actually be
22 obtained going forward.

23 We have asked in the draft order that NERC
24 actually provides additional information that actually
25 closes some of those kind of gaps to identify

1 mechanisms for ensuring that the information that are
2 needed for reliability would continue to be provided
3 and by which entity as the load-serving entity
4 functions are deactivated.

5 That is just one example.

6 CHAIRMAN LaFLEUR: Thank you. Thank you to you
7 and to Director Mike Bardee for your careful work on not
8 just this order, but the long process that led up to
9 it.

10 Colleagues?

11 COMMISSIONER MOELLER: Let me associate my comments with
12 yours that this is a significant step in the evolution
13 of reliability that arguably started with the 1965
14 Black Out, the voluntary rules that were created in the
15 late 1960s, the recognition that voluntary rules do not
16 work anymore in the late 1990s and eventually through
17 the 2005 Energy Policy Act, the direction that we
18 should endorse on electric reliability organization.

19 It has not been that long that we have had
20 mandatory rules since 2006, and so in that sense we
21 have heard a lot about the burdensome nature of it.

22 I also point out that it has been relatively
23 effective, but like any new creation it has its
24 challenges and today we try and address some of those
25 concerns with the balance of easing the regulatory

1 burden where appropriate but maintaining the fact that
2 we still need to be on top of reliability issues in
3 order to protect the American consumers.

4 I am happy to support today's order.

5 CHAIRMAN LaFLEUR: Thank you. We will not take a
6 poll on where people were in the 1965 Black Out. It
7 might be difficult for some of our Commissioners.

8 COMMISSIONER BAY: Thanks to the team for all your work
9 on this over the pendency of the case.

10 Let me put this in the broader context of risk
11 analysis in mitigation across many industries and it is
12 pretty clear that this is the trend that most
13 industries are moving towards whether it is the medical
14 field or the transportation field in regard to airline
15 safety or a whole host of other industries moving away
16 from the "check the box," sort of audit compliance
17 towards a more risk-based analysis in which most of the
18 time and effort is focused on the big ticket items that
19 really assure in this case reliability of the electric
20 grid is the trend across industries and this is true
21 here.

22 It is not an easy change to make, however, as we
23 now say there is a great culture shift in addition to
24 just the rules of the world that have to take place.

25 I commend not only our staff, the members the

1 team, Mike, you and your team, and others who have
2 worked during the agency on it, but also for the
3 efforts of NERC as they have gone about implementing
4 this change in culture and the attendant rules that go
5 along with it.

6 It is a big change, but it is a very important one
7 and as the Chairman said it is one more step in the
8 evolution towards a more risk-based analysis.

9 Thank you.

10 CHAIRMAN LaFLEUR: Thank you. And Commissioner
11 Mr. Clark. Another Commissioner Bay, even though I
12 called you Commissioner.

13 COMMISSIONER BAY: I want to thank the team for their
14 hard work on this order, and second, I want to say that
15 I am pleased to support risk-based registration for the
16 reasons cited by the Chairman, Commissioner Moeller and
17 Commissioner Clark.

18 It is important to note however that the
19 Commission has now approved both the reliability
20 assurance initiative, or RAI, and risk-based
21 registration, or RBR.

22 The Commissioners has done this because of NERC's
23 representation that both measures will enhance
24 reliability.

25 In my view it is now incumbent upon NERC having

1 received the approval from FERC for both of these
2 programs to show that reliability in fact is being
3 enhanced.

4 That certainly is our hope and our expectation and
5 I look forward to hearing from NERC going forward on
6 whether the programs are working as intended and
7 improving reliability.

8 Thank you.

9 CHAIRMAN LaFLEUR: Thank you. Commissioner
10 Honorable?

11 COMMISSIONER HONORABLE: Thank you. I would like to
12 thank the team for your hard work and I especially look
13 forward to this work continuing.

14 It has been a very significant evolution in this
15 work and I am really delighted to be a part of it and
16 to support this order today.

17 Also I have long supported as Commissioner Clark,
18 this work as it is occurring as we are evolving and
19 getting smarter about these things in a number of
20 industries.

21 We certainly have to in the energy sector. There
22 is an old saying, "When you know better you do better."

23 And I think that as we are learning we are growing
24 and becoming more efficient and smarter in a way that
25 we carry out this work.

1 Then the way that NERC will carry out this work.
2 Not in the way that would let anyone off the hook, but
3 is very measured and practical and thoughtful by
4 pursuing risk-based approaches.

5 I also am very supportive of the focus continuing
6 on transparency which instills confidence and integrity
7 in the process, so thank you very much.

8 CHAIRMAN LaFLEUR: Thank you, and Madame
9 Secretary?

10 THE SECRETARY: We will now take a vote on this
11 item and the vote begins with Commissioner Honorable.

12 COMMISSIONER HONORABLE: Aye.

13 COMMISSIONER BAY: Aye.

14 COMMISSIONER CLARK: Aye.

15 COMMISSIONER MOELLER: Aye.

16 CHAIRMAN LaFLEUR: Aye. Thank you.

17 THE SECRETARY: The next item for presentation
18 this morning is Item A4, the Office of Administrative
19 Litigation will provide briefing on its contributions
20 in support of the Commission's overall goals and
21 objectives.

22 There will be a presentation by Diane
23 Schrattwieser, Christopher Skorski and Andrew Schulte
24 and Megan McComb from the Office of Administrative
25 Litigation. There is a Power Point presentation on

1 this item.

2 MS. SCHRATWIESER: Good morning, Madame Chairman,
3 Commissioners.

4 The Office of Administrative Litigation, or OAL,
5 appreciates this opportunity to address the Commission
6 about our work supporting the Commission's statutory
7 obligation to assure just and reasonable rates and
8 terms and conditions of service.

9 Virtually all of OAL's work is performed under the
10 separation of the functions rule, so today's
11 presentation will necessarily be general in nature and
12 will not address substantive matters or individual
13 cases.

14 OAL settles or litigates disputes that the
15 Commission has set for hearing and or settlement
16 procedures.

17 These usually involve tariff filings by utilities
18 or pipelines or complaints by customers that raise
19 complex issues about the rates utilities and pipelines
20 charge or the terms and conditions of service provided
21 to their customers.

22 We pursue outcomes that produce just and
23 reasonable rates that are consistent with Commission
24 policy and that fairly reflect the interests of all
25 stakeholders.

1 We thank you for this opportunity to share with
2 you and the public some information about our work and
3 we look forward to your questions.

4 In 2014, the Commission set for hearing and or
5 settlement procedures 52 electric cases, six natural
6 gas pipeline cases, and five oil pipeline cases, 63
7 cases in all.

8 This slide focuses on the electric cases. Of the
9 52 new electric cases 15 were related to transmission
10 service and rates, 9 to RTOs, 8 to requirement service
11 or production, 8 ancillary services, 8 to complaints
12 about the rate of return on equity, and for various
13 other matters.

14 The gas pipeline cases primarily involve Natural
15 Gas Act Section 4 rate filings.

16 Three of the five oil pipeline cases were
17 complaint cases and the other two were rate filing
18 investigations.

19 In addition to the 63 new cases assigned in 2014,
20 OAL continued work on 63 cases that began in prior
21 years.

22 As this slide shows electric cases comprise the
23 majority of our cases.

24 Of the 126 active cases last year, 100 were
25 electric cases, 14 were natural gas pipeline cases, and

1 12 were oil pipeline cases.

2 This slide shows the trend of new cases in recent
3 years. For example, following the issuance of the
4 Martha Coakley decision last year, we have experienced
5 an increase in rate of return cases largely from
6 complaints that have been set for hearing.

7 As you can see by this slide OAL staff consists of
8 technical experts who conduct analyses and present
9 evidence at hearings; trial attorneys skilled in
10 administrative litigation, and litigation support and
11 administrative staff.

12 When the Commission issues a hearing order, OAL
13 assigns staff members to the case who have expertise in
14 the specific topics addressed by the order.

15 This next slide illustrates the areas of expertise
16 of our technical staff.

17 These areas include finance, depreciation,
18 accounting, engineering, economics, cost of service,
19 and cost allocation and rate design.

20 Many staff members are cross-trained in more than
21 one discipline and the slide indicates the variety of
22 issues we address in our cases.

23 I would now like to turn the presentation over to
24 Chris Skorski to discuss how we go about our work.

25 MR. SKORSKI: Thank you, Diane.

1 One of OAL's main functions is to promote
2 settlement of complicated disputes in ways consistent
3 with Commission policy.

4 Settlements resolve cases more quickly than
5 litigation, allow each party to gain from the process
6 and conserve the resources of the parties and the
7 Commission.

8 We analyze relevant data Commission precedent and
9 apply our knowledge and negotiation skills to present
10 staff recommendations and to help the parties who often
11 are working with a settlement judge to reach agreement.

12 For parties with limited resources, OAL is a
13 crucial source of information and expertise.

14 For sophisticated parties, OAL's independent
15 analyses and advice provide a valuable aid to achieving
16 settlements.

17 Typically, we help parties settle more than three
18 quarters of the cases that the Commission sets for
19 hearing and or settlement.

20 The Commission is responsible for ensuring that
21 rates, terms, and conditions of jurisdictional service
22 are just and reasonable and not unduly discriminatory
23 or preferential.

24 Consistent with that responsibility the OAL's role
25 is not to pursue the lowest rate in each case, but

1 rather a rate that fairly reflects the needs of both
2 the company and its customers.

3 Commission approved settlements last year resulted
4 in \$338 million in savings for customers in 2014 alone.

5 These savings were comprised of \$76 million of
6 refunds or one time savings, and \$262 million of
7 forward-looking rate reductions or annual savings which
8 will continue in 2015 and beyond.

9 Cumulatively, for the six years from 2009 through
10 2014, Commission approved settlements have resulted in
11 a total of \$6.5 billion in savings to wholesale
12 customers.

13 This bar chart is a bit busy, but by following its
14 collar key one can see the benefits occurring in each
15 year including one-time savings in each year and
16 continuing annual savings from previous years
17 settlements that remain in effect during the subsequent
18 year or years.

19 To put \$6.5 billion figure into context rate
20 reductions in settlements on average reduced filed
21 rates by approximately 10%.

22 The settlement rates thus balance the companies'
23 needs for adequate revenue to provide service to their
24 customers with the customers' interests in avoiding
25 excessive rates.

1 Not all cases settle. In such cases our role for
2 making proposals and being a facilitator and resource
3 for the parties to being a litigator advocating
4 specific outcomes, outcomes that are guided by
5 Commission policy and that fairly balance the
6 companies' and the customers' interests.

7 In this role we engage in pretrial discovery,
8 filed prepared direct testimony, then conduct
9 cross-examination at the hearing.

10 We strive to apply Commission policy to the facts
11 and circumstances of the case, build a complete hearing
12 record and then file a third brief to assist the
13 presiding judge and on exceptions the Commission.

14 The colored text in this slide highlights the
15 stages of litigation in which OAL is active.

16 Ultimately, the Commission's decisions prove OAL's
17 staff with further guidance to apply in future cases.

18 For the most part we separately from the
19 Commission's advisory staff and the separation of
20 function's requirements are carefully observed by all
21 Commission staff members.

22 OAL's expertise is at times called on in other
23 contexts. Where appropriate under the rules, OAL's
24 staff expertise is available to assist the Commission.

25 This concludes OAL's presentation. We will be glad

1 to answer any questions you may have.

2 CHAIRMAN LaFLEUR: Thank you all and thank you
3 everyone in the Office of Administrative Litigation and
4 to Ted Gerarden who has joined us at the table for his
5 leadership of the office.

6 Because the office of Administrative Litigation of
7 necessity works in a somewhat separate sphere from the
8 decisional work of the Commission we do not often have
9 an opportunity to recognize your critical work in
10 support of the Commission's mission and helping
11 electric and gas customers and oil customers across the
12 nation including in their pocketbook. I really
13 appreciate the important work that you do both
14 resolving material disputed issues of fact that we need
15 to be resolved so we can make our decisions and also
16 helping actually to achieve a negotiated settlement of
17 contentious cases so that there can be certainty and
18 people can move on.

19 I am interested in having you elaborate as you
20 take stock of where you are. I saw the workload chart
21 and so forth.

22 What do you think will be the biggest challenges
23 that OAL will be facing in the coming year?

24 From the deck, Mr. Gerarden.

25 MR. GERARDEN: If I may? OAL's approach of

1 applying Commission policy to cases is set for hearing
2 to arrive at results that are consistent with that
3 policy, but it is being challenged by significant
4 changes in the physical and financial environment in
5 which utilities and pipelines operate.

6 This includes things like changes in the location
7 of volumes of gas production and increased demand for
8 gas as a generating fuel and changes in financial
9 market conditions in merger or in acquisition activity.

10 Where a case presents unusual or difficult facts
11 OAL sees its role as presenting testimony that will
12 make recommendations as to how to best apply existing
13 policy to those facts.

14 We do expect that with various changes that are
15 happening in the industry, that future cases are going
16 to be a good test of our ability to be creative in
17 assisting the judges on the Commission.

18 There is another area that is a challenge for OAL
19 also and that has to do with staffing, although we have
20 recently begun hiring talented new staff, fully half of
21 OAL's staff load is eligible for retirement, but we
22 face a significant challenge in managing knowledge
23 transfer as highly experienced and capable staff
24 members retire particularly given the substantial
25 caseload that we face now.

1 It is a priority in the office to work on
2 knowledge transfer and anticipate these changes over
3 time.

4 CHAIRMAN LaFLEUR: Thank you. I know that is a
5 phenomenon across many industries as the baby boom
6 retires, but given the work that you do and all the
7 different specialties that it takes to do it, I
8 appreciate your work to replenish and hire.

9 Also as the cases become more complex in the way
10 you described, it is important that we continue to look
11 at the disciplines that you have represented and what
12 is needed.

13 COMMISSIONER MOELLER: Chairman LaFleur, thanks for
14 calling this item for the presentation highlighting
15 this as part of the agency that has a somewhat unique
16 role and sometimes because you are located down the
17 street you will be a little bit out of sight out of
18 mind, but obviously very important excellent
19 presentation from your team, and knowing the challenges
20 of being a manager and the federal agency, in any
21 federal agency, appreciates that you have kept us
22 constantly informed of where the office is going and we
23 look forward to your continuing to do that in the
24 future.

25 Thank you.

1 COMMISSIONER CLARK: Thanks and no questions for the
2 team, but thanks for calling this agenda up.

3 Ted, if it makes you feel any better you mentioned
4 workforce challenges that you have got.

5 For those on the Commission we are all eligible
6 for retirement at least once every five years, so I
7 feel your pain.

8 With regard to the work of OAL, I am really glad
9 that we were able to recognize, and the one thing I
10 have learned over a number of years on the regulatory
11 commission, a Commission's decision is only as good as
12 the record that it has before us, and in the case of
13 FERC where for the most part Commissioners are not
14 sitting first chair and actually developing the record,
15 we are very dependent on the work of OAL in these
16 litigated administrative proceedings to develop a
17 record so that we can issue a good decision.

18 I felt in my state Commission days if I had
19 presided over a hearing and I ended up with a record
20 that was just kind of a big mess, then you knew that
21 the decision that was going to come out was probably
22 going to be somewhat of a mess so I took it as a
23 failure that we were not able to develop a better
24 record.

25 My experience here at FERC has been that OAL does

1 an exceptional job of developing that record for us
2 putting information on the record for us so that we can
3 make sound decisions and appreciate all the work that
4 you do in that context.

5 Thanks.

6 COMMISSIONER BAY: I appreciate Ted's leadership of OAL
7 and OAL in my view is one of the unsung heroes of the
8 Commission.

9 Every time the Commission sets a matter for
10 hearing OAL staff becomes involved as a party to the
11 proceeding and through your participation you help
12 ensure that the public interest is furthered and that
13 rates remain just and reasonable.

14 Thank you very much for what you do.

15 CHAIRMAN LaFLEUR: Someone who is contributing to
16 turnover in OAL?

17 COMMISSIONER HONORABLE: You are stealing my thunder
18 Madame Chair.

19 CHAIRMAN LaFLEUR: I apologize.

20 COMMISSIONER HONORABLE: To Commissioner Bay's comments I
21 say amen. I am delighted to hear your presentation
22 this morning and I am delighted in this open meeting
23 acknowledge the wonderful work that you do and
24 certainly with Ted at the helm.

25 I am such a huge fan with Ted's assent or

1 acquiescence, I stole one of your colleagues, Fred
2 Wilson, who really has helped me gain a better
3 perspective of the incredible work that you do as a
4 former litigation attorney, I very much understand how
5 labor intense it is and how it is imperative that you
6 have to bring to the table your skills alongside all of
7 the fabulous professionals that you have mentioned,
8 engineers and accountants and depreciation specialists,
9 that is such a beautiful occupation.

10 MR. GERARDEN: It is an exciting field.

11 COMMISSIONER HONORABLE: My point is that it takes us all
12 and you all have done that very well.

13 I am delighted just to acknowledge your work
14 today.

15 I also want to say, and Commissioner Clark
16 referenced, and I come back to his state, the
17 regulatory base and I miss that up close interaction
18 with the give and take of this process.

19 It is important in the work that you are doing is
20 important, so I just want to say that to you today as a
21 pat on the back for a job very well done.

22 It is difficult to balance the particular issues
23 raised, the Commission policy, what is the DC Circuit
24 saying?

25 What is the Supreme Court saying? I recognize it.

1 Then we want to go and change our rule every now
2 and then.

3 Thank you for the nimbleness and the agility with
4 which you work and also the excellence with which you
5 work.

6 I am also delighted Ted that you mention the issue
7 of work force. It is certainly something that we have
8 been challenged with as an industry, quite frankly on a
9 number of sectors in this country and honestly all over
10 the world.

11 But I am also pleased with your leadership. You
12 have been very attuned to ensuring that there is a
13 knowledge transfer, that the new team members are
14 getting proper training and that is excellent.

15 I want to commend you on that as well.

16 My retirement date will be coming a little sooner
17 than most of my colleagues, two and a half years, and
18 now, take away two months from that.

19 Thank you all for the work that you do each and
20 every day.

21 CHAIRMAN LaFLEUR: Thank you so much. We will
22 move on to the next to the Greatest Hits Parade.

23 THE SECRETARY: Thank you, Madame Chairman. The
24 last item for presentation this morning is Item A3
25 concerning the 2014 state of the markets report.

1 There will be a presentation by Omar Cabrales,
2 James Burchill and Ryan Stertz from the Office of
3 Enforcement Division of Energy Market Oversight.

4 MR. STERTZ: Good morning, Chairman and
5 Commissioners. The Office of Enforcement Division of
6 Energy Market Oversight is please to present the 2014
7 state of the markets report.

8 This report is staff's annual opportunity to share
9 our assessment on natural gas, electric, and other
10 energy markets developments during the past year to
11 better inform the Commission and its understanding of
12 current and future trends.

13 During the first quarter of 2014 extreme cold
14 temperatures stressed the country's natural gas
15 infrastructure and power markets.

16 U.S. natural gas prices reached record levels
17 resulting in electricity price spikes and after
18 dramatic starts in 2014 natural gas electricity prices
19 were relatively low and stable for the remainder of the
20 year.

21 Despite low prices through most of this year
22 natural gas production continue to break records.

23 Oil prices plunged during the second half of 2014
24 which has implications for both oil and the gas
25 industry activity in 2015 and beyond.

1 In 2014 there were significant developments in the
2 organized markets with major changes in CAISO and SPP
3 as well as the expansion of MISO.

4 Electricity markets continue to adjust to a change
5 in generation mix as coal plants retire and new natural
6 gas and renewable generation enter service.

7 [check] on natural gas prices at Henry Hub
8 averaged \$4.32 per million BTU in 2014, 16% higher than
9 2013.

10 Prices were on average 14% to 43% higher at key
11 hubs throughout the country with the Chicago Citigate
12 experiencing the highest increase.

13 Price spikes during the polar vortex events early
14 in the year drove many of the increases with
15 Transcozone Six non-New York reaching \$123 per million
16 BTU in January.

17 All the price begin to moderate in the spring,
18 concerns about low storage inventories kept prices up
19 until early summer.

20 Prices fell in the fall as storage covered and by
21 late December the Henry Hub price was below \$3.00.

22 The 43% increase in the average price of Chicago
23 Citigate was a result of both high price levels during
24 the harsh winter and the continued reliance on natural
25 gas supplies from Canada.

1 Canadian prices were 31% higher in 2014 than in
2 2013 as they recovered from an oversupply condition in
3 2013.

4 In addition natural gas demand of the Midwest in
5 2014 was the highest on record up 3% from 2013.

6 In contrast the Northeast experienced some of the
7 lowest year in year price increases as the region
8 benefited from growing Marcellus shale supplies.

9 On the back of the coldest winter in over a decade
10 average U.S. natural gas demand for 2014 reached a new
11 record of 70.7 billion cubic feet per day.

12 Residential and commercial metric gas demand grew
13 3% in 2014 while industrial natural gas demand grew 2%
14 as low prices of natural gas and natural gas liquids
15 continue to fuel a renaissance in U.S. industry.

16 Despite record cold winter however natural gas
17 demand for electricity generation decreased by .5 BCFD
18 or 3% from 2013 levels as the result of the cooler than
19 normal summer.

20 This chart shows the massive replenishment of
21 natural gas inventories that took place in 2014.

22 The injection season began in the spring with 822
23 BCF of natural gas in storage thus the lowest level
24 since 2003.

25 However, mild temperatures in the summer and fall

1 and the steady increases in the U.S. natural gas
2 production resulted in market participants injecting
3 almost 2.8 trillion cubic feet during the 2014 refill
4 season nearly 10% above the previous high.

5 Inventories reached 3.6 TCF by November 1st, the
6 traditional end of the injection season only 5% below
7 the five year average.

8 By the end of the year inventories stood at 3.2
9 TCF, 8% above the 2013 levels.

10 Despite strong natural gas withdrawals early in
11 January and February of this year inventories were 47%
12 above the 2014 levels by March 6.

13 Assuming average withdrawals between now and the
14 end of March inventories are poised to enter the
15 injection season over half of BCF about the same time
16 in 2014 putting downward pressure on prices going into
17 the summer.

18 Natural gas production grew 5% in 2014 averaging
19 68.4 BCFD and breaking records set in 2013.

20 To shale formations, the Marcellus in Pennsylvania
21 and the Eagle for the Texas accounted for a third of
22 this production increase averaging 14 and 4 BCFD
23 respectively.

24 Crude oil prices fell from \$115 per barrel in
25 mid-June to \$53 at the end of December reducing

1 drilling activity in the latter half of 2014.

2 However natural gas production continue to climb.
3 There is concern that prolonged low crude oil and
4 natural gas prices could result in slower growth or
5 even in decline in natural part gas production.

6 However year to date production has consistently
7 remained above 71 BCFD and by the end of February it
8 was on average 6.4% higher than in the first months of
9 2014.

10 Backlog of uncompleted wells could also help
11 maintain production levels in the near future and as of
12 the middle of January there were approximately 1,100
13 uncompleted wells in the Marcellus Region.

14 With the exception of a few moderate weather
15 driven price spikes since the start of 2015, prices
16 remained relatively low this past winter.

17 The forward curve at major trading points
18 indicates market participants expect prices to remain
19 low for the rest of 2015.

20 The exceptions are Boston and New York City where
21 futures prices for December in 2015 through February
22 2016 averaged \$11.61 and \$9.00 per million British
23 civil unit respectively due to continued pipeline
24 constraints into these markets.

25 For the rest of 2015 the forward curve suggest

1 that natural gas rather than coal will be on the march
2 as it was in 2012 which could lead to increased
3 substitution of gas-fired generation for coal-fired
4 generation this summer.

5 Falling oil prices made oil fired generation
6 economic when compared to natural gas in New England
7 and New York this past winter.

8 If oil prices remain at current levels we could
9 continue to see increased use of oil for power
10 generation.

11 This slide projects growth in natural gas
12 production in the Marcellus and Utica shales in
13 Pennsylvania, West Virginia, and Ohio.

14 The total Northeast production reached over 19
15 BCFD in the beginning of 2015 up from 10 BCFD since
16 2011.

17 The two lines show the growth in the proposed
18 pipeline capacity. Pipeline expansions have not always
19 kept pace with production growth leading to sub \$2.00
20 prices in parts of the Marcellus Region.

21 Producers are responding to low prices by
22 contracting for new pipeline capacity to carry
23 incremental production to consumer markets.

24 The Northeast became a net exporter of natural gas
25 for the first time last summer and future pipeline

1 expansions are targeting exports to Eastern Canada, the
2 Midwest, the Southeast as well as the Gulf Coast.

3 As Marcellus gas makes its way into neighboring
4 regions its impacts on markets and bases for
5 relationships will broaden.

6 Last summer New York and Boston experienced prices
7 below Henry Hub for the first time.

8 Market oversight expects that the Marcellus
9 exports will moderate prices in other regions over the
10 next few years.

11 Exports to Mexico reached 2 BCFD in 2014 up from
12 1.8 in 2013 supported by the growth in the Eagle Ford
13 shale production in South Texas as well as by new
14 pipeline infrastructure across the border.

15 Exports will likely continue to rise as Mexican
16 power generation demand increases and as more pipeline
17 capacity goes into service including the 2.1 BCFD net
18 midstream Rio Grande pipeline scheduled to enter
19 service in 2016.

20 Plans to export LNG from the U.S. continue to move
21 forward and as of the end of 2014 eight projects have
22 been approved with four under construction including
23 those of Sabine Pass, expected to enter service in 2016
24 as well as at Freeport, Cove Point, and Cameron LNG.

25 Meanwhile reliance on LNG imports continue to

1 decrease. Send outs from U.S. LNG's terminals averaged
2 100 million cubic a day in 2014, 67% below the 2013
3 levels while imports from Kanaport LNG into New England
4 averaged 49 MMCFD, 52% of 2013.

5 Gross natural gas imports from Canada averaged 7.2
6 BCFD, however exports from the U.S. to Canada averaged
7 2.1. This makes net Canadian imports 5.2 BCFD.

8 Marcellus shale production continued to displace
9 Canadian imports with flows from the North, East into
10 Ontario reaching 350 MMCFD in August.

11 And now James Burchill will discuss the electric
12 markets.

13 MR. BURCHILL: On March 1st the Southeast power
14 pool transitioned to its new financially binding day to
15 market.

16 The day to market launch included new features for
17 SPP such as the day ahead market transmission
18 congestion rights, price-based operating reserves
19 procurement, and the consolidation of 16 balancing
20 authorities.

21 In 2015, the RTO expects to expand its footprint
22 with the addition of the Wapa Great Plains, Basin
23 Electric, and Heartland Balancing areas.

24 On May 1st the California ISO revamped its
25 real-time market replacing the hour ahead market use to

1 schedule on price imports and exports with a 15 minute
2 market which prices and schedules internal generation
3 as well as interchange.

4 This new construct provides more discreet pricing
5 those four generators.

6 CALISO also revised the minimum price floor to
7 encourage renewables to become more price sensitive to
8 decrease output. When supply outstrips demand and
9 price become negative.

10 Additionally, on November 1st, CALISO lost its
11 energy imbalance market.

12 Finally, Entergy and five other balancing areas
13 joined MISO at the end of 2013 and that new area now
14 accounts for about 25% of MISO's total load.

15 The integration of Entergy adds a new dimension to
16 the greater Southeastern power market because of the
17 way interchange is priced.

18 Entities that ship power into, out of, or through
19 the Entergy area, are now assessed congestion charges
20 for the MISO portion.

21 Electricity average spot prices rose across the
22 country in 2014 primarily driven by high prices in the
23 first quarter.

24 Natural gas remained a major driver of electricity
25 prices with regional prices reflecting in part

1 variations in natural gas prices.

2 The largest increases were in PJM where average on
3 peak day ahead prices at the Western Hub rose 38% due
4 to price spikes in the first quarter.

5 Prices in the Pacific Northwest where increased
6 hydro-generation kept prices down were the lowest in
7 the country.

8 CALISO also had the lowest price increases in the
9 country with average on peak day ahead prices rising by
10 17%.

11 Prices remained modest in the Southeast throughout
12 the year averaging \$42 per megawatt hour at the enter
13 Southern pricing point.

14 Nationally, total generating capacity increased
15 10.8 GW in 2014 compared to a net loss of 3 GW of
16 mostly coal and nuclear units in the year before.

17 Substantial coal retirements began in 2012 and
18 continued into 2014, however the 2014 decrease in net
19 coal capacity was lower than that of the previous two
20 years.

21 Greater coal retirements are expected in 2015
22 largely due to the April effective date of the mercury
23 and air toxic standards requirements with natural gas
24 providing the bulk of capacity replacements given its
25 economic advantage.

1 The largest year on year change came from natural
2 gas capacity additions which rose by 7.7 GW in 2014
3 compared to a gain of 1.9 GW in 2013.

4 Net wind installed capacity increased by 5 GW in
5 2014 driven in part by the renewal of the federal
6 production tax credit.

7 Net utilities scale solar capacity additions which
8 had grown dramatically from 2011 to 2013 plateaued in
9 2014 at nearly 4 GW.

10 Nationally, electricity demand remained flat
11 compared to 2013.

12 Residential and commercial demand rose slightly
13 driven in part by the extreme weather in the first
14 quarter while industrial demand declined.

15 Energy efficiency measures and growth in behind
16 the meter generation such as rooftop solar helped
17 moderate the growth in electricity demand at utilities.

18 This pie chart shows all cleared futures traded on
19 the Intercontinental Exchange for power outside of
20 ERCOT in 2014.

21 Last year 96% of the financial trading of U.S.
22 electricity products outside of ERCOT took place in an
23 RTO hub up from 92% in 2013.

24 Most regions in the country experienced a slight
25 decrease in financial trading volumes compared with

1 2013 with the exception of the New York ISO and PJM.

2 PJM financial products continue to be the most
3 traded on ICE with 73% of the total financial trades
4 involving a PJM product up from 68% in 2013.

5 The red line on this graph represents the sum of
6 all domestic natural gas financial products in billion
7 cubic feet traded on ICE including futures, swaps, and
8 spreads at all hubs.

9 The majority of the volume approximately 90% in
10 2014 consists of trading in the NYMEX look-alike
11 futures contract.

12 The yellow line represents the sum of all physical
13 volumes traded on ICE at all hubs including spot and
14 monthly transactions.

15 Natural gas trading volumes declined in 2014 for
16 the fourth straight year.

17 Financial volumes on ICE declined 25% in step with
18 the drop on the Chicago Mercantile Exchange.

19 Financial volumes continue to significantly
20 outweigh physical volumes and were 30 times larger in
21 2014.

22 The sustained increase of natural gas production
23 across the United States led to lower and more stable
24 natural gas prices over the past several years.

25 Less volatile prices for its speculative trading

1 profits which caused companies, particularly large
2 banks, to reduce or eliminate their trading exposure.

3 As a result, physical and financial trading has
4 fallen significantly from its high in 2011.

5 Now Omar Cabrales will address the recent winter
6 conditions.

7 MR. CABRALES: We will now provide a brief recap
8 of how the energy markets fared in this current winter.

9 By many measures this winter rivaled last year's
10 in terms of record low temperatures across much of the
11 country meeting overall demand for electricity.

12 However, compared to last winter with its series
13 of polar vortex events in early 2014 the wholesale
14 power markets and natural gas pipeline system performed
15 remarkably well.

16 As reflected by this map, extreme cold
17 temperatures prevailed on February 20 and records were
18 set in 72 cities including Washington, DC, Detroit,
19 Cleveland, and Pittsburgh.

20 On that day PJM set a new winter peak record of
21 approximately 144,000 MW given its previous record of
22 about 142,000 MW set in January 2014.

23 The Southwest Power Pool also set a new winter
24 peak record of 36,993 MW on January 8, on MISO, New
25 York ISO, and ISO New England will experience peak

1 demand this winter that nearly matched last year's
2 winter records.

3 Despite challenging winter conditions prices in
4 the electricity markets remain moderate helped by
5 stable natural gas prices and lower force outage rates.

6 This stands in contrast with last winter when
7 outage rates were high, price spikes were common, and
8 PJM and New York ISO both sought and received authority
9 to waive their \$1,000 per megawatt hour offer caps to
10 ensure the generators would be able to recover their
11 fuel costs.

12 Last winter many generators also complained that
13 they were unable to secure sufficient natural gas
14 supplies to operate their plants.

15 Notably, actions taken since last winter by the
16 RTOs and market participants such as PJM's new cold
17 weather preparation guidelines and the continuation of
18 ISO New England's winter reliability problem program
19 for a second winter appeared to have improved
20 operational performance and the ability of units which
21 helped to moderate prices.

22 For example, real-time prices at the PJM Western
23 Hub were \$400 per megawatt hour lower on PJM's peak day
24 this winter than on last winter's peak day.

25 The drop in real time prices can also be

1 attributed to an improved force outage rate which PJM's
2 outage rate dropping from 22% last winter to 12% this
3 winter.

4 Across of the RTOs and ISOs no significant outages
5 or major operational issues were reported and the bulk
6 electrical system performed well despite changes to the
7 resource supply mix.

8 In particular, ISO New England which finds itself
9 in as stress operational state last year did not
10 experience any significant reliability issues this
11 winter despite the retirement of the Redmond Yankee
12 Nuclear Station in late December which removed 615 MW
13 of base load capacity from the grid.

14 As shown by the price differentials on this chart
15 the contrast between last year and this year's winter
16 cannot be understated.

17 While no single reason can explain why the
18 wholesale power markets performed better this winter
19 the relative improvements seen in terms of prices and
20 operations are likely the result of several factors.

21 In addition to better weather preparation of
22 assets and measures approved by the Commission such as
23 New England's winter reliability program electric
24 transmission and natural gas pipeline operators are now
25 communicating more effectively during periods of stress

1 to improve coordination and the reliability of their
2 systems.

3 Moreover, as discussed below record natural gas
4 production, plentiful storage inventories, near
5 pipeline infrastructure and low oil prices are factors
6 that also contributed to this winter's moderate
7 electricity prices and the improved performance of the
8 electricity markets.

9 This chart highlights the declining uplift
10 payments made to generators in PJM and ISO New England
11 between last winter and this winter.

12 This make whole payments are made to generators to
13 ensure that they are not running at a loss during
14 critical periods.

15 While all uplift is legitimate cost this out of
16 market compensation is often unpredictable for market
17 participants particularly load serving entities.

18 In January and February 2014, PJM collected a
19 record \$667 million in uplift charges which is largely
20 attributed to the high cost of fuel during the midst of
21 the polar vortex.

22 However, PJM uplift charges during the same period
23 in 2015 fell to \$105 million largely because of
24 moderate fuel prices and fewer constraints on the
25 natural gas pipeline system.

1 Compared to last winter natural gas prices this
2 winter have been lower and less volatile
3 notwithstanding the fact that natural gas demand in
4 January and February 2015 was 2% higher than for the
5 same period in 2014.

6 Driving this increase was a 13% jump in gas used
7 for power generation. Yet despite higher demand,
8 natural gas prices and fewer and smaller spikes than
9 2014. The Henry Hub spot price averaged \$2.91 per MBTU
10 for January and February 2015 down 44% from the same
11 period in 2014.

12 As the graph shows prices at major hubs throughout
13 the country were lower than last year.

14 January and February prices in 2015 were below
15 2014 by an average of the 41% in both Boston and New
16 York City, 46% in Southern California and 65% in
17 Chicago.

18 Several factors accounted for the lower prices and
19 lower peaks including increased production, near
20 pipeline capacity moving supplies from producing to
21 market areas fewer and less widespread pipeline
22 disruptions and better gas electric coordination.

23 In addition, imports into the Northeast LNG
24 terminals including: Cove Point in Maryland and Everett
25 and Northeast Gateway near Boston averaged 94 billion

1 cubic feet this winter, 45% above the 2013 - 2014
2 winter.

3 Furthermore, this past winter the incidences of
4 extreme cold weather came later in the season when
5 storage inventories were several and market
6 participants were less concerned about having
7 sufficient supplies to see them through the spring.

8 Increased pipeline capacity to move natural gas
9 into major Northeast demand centers, particularly New
10 York City, was a major reason for the moderate price
11 volatility the region experienced this past winter.

12 This table shows some of the pipeline projects
13 that went into service in 2014 in the Northeast.

14 Operators put nearly 4 billion cubic feet a day of
15 near pipeline capacity into service in the Marcellus
16 and Utica Shale Regions with approximately 2.5 billion
17 cubic feet of this new capacity serving Northeast
18 demand and 1.5 billion cubic providing takeaway
19 capacity for producers.

20 The Texas Eastern Steam 2014 expansion and the
21 Transco Northeast Connector added new capacity to move
22 supply into the New Jersey and New York markets.

23 Another factor helping to moderate prices was
24 better gas electric coordination.

25 Gas electric coordination initiatives which FERC

1 began to actively encourage in 2011 led to concrete
2 actions by participants in both industries.

3 These efforts have enhanced communications and
4 understanding across industries and have reduced or
5 eliminated some of the language barriers that up to
6 recently were common.

7 We note that the Commission's efforts to remote
8 gas electric coordination are continuing.

9 This concludes staff's prepared comments. A copy
10 of this presentation will be posted on the Commission's
11 website.

12 Thank you.

13 CHAIRMAN LaFLEUR: Thank you very much, Omar,
14 James and Ryan, and thank you to everyone in the
15 Division of Energy Market Oversight who worked on this.

16 I look forward to this report every year because
17 it is one of the most informative presentations that we
18 hear and I particularly appreciate your adding the
19 segment on the performance of the markets and the
20 infrastructure this past winter.

21 We know that last winter was a very difficult one
22 for the markets and for customers with price spikes in
23 both natural gas and electricity that are now reflected
24 in retail bills across the country in those regions as
25 a result of what happened last winter and I am very

1 encouraged to see the improved performance of the
2 markets this winter that will in turn hopefully be
3 reflected in moderated prices when those are reflected
4 in the default procurement of utilities.

5 Some of the improvement this winter was due to the
6 various efforts of the Commission that you highlight,
7 but we are hardly declaring victory.

8 Your charts taken as a whole really showed a lot
9 of the continued work that we need to do to make sure
10 that the gas and electric markets are coordinated, that
11 gas infrastructure continues to relieve constraints
12 shown on the maps and that the electric markets attract
13 the capital that is needed to protect reliability with
14 so many changes happening and to support fuel
15 assurance.

16 Those are all things obviously that we will have
17 to continue to work on.

18 Looking at our work on the markets, something that
19 we have been very focused on is factors that interfere
20 with appropriate price formation in the energy markets
21 and interfere with the transparency of the energy price
22 such as uplift.

23 I want to focus in on the chart and I believe it
24 is Slide 19 that showed the dramatic reduction of
25 uplift charges from 2014 to 2015.

1 Can you expand a little bit more on what happened,
2 what drove it to be so high last year and lower this
3 year and what you expect to see in the coming year and
4 what might shape that?

5 MR. STERTZ: Sure, Chairman. The first aspect of
6 this, of course, is what we covered in the presentation
7 which is that high and volatile gas prices are really a
8 dramatic cause for the uplift we saw in 2014.

9 Obviously operator action due to the polar vortex
10 and increased outage rate which we cover on others
11 slides also come on this issue.

12 We do not want to say that it was a one-time
13 occurrence, but obviously, 2014 was a very stressed
14 period for the market.

15 We have no expectation that we will see a high
16 return of those uplift charges going forward and it is
17 largely attributable to the market design rule changes
18 that we have seen since the polar vortex as well as the
19 actions taken by market participants to lower their
20 outage rates to be more responsive during cold weather
21 events, and frankly, because of the financial
22 incentives that a number of them have seen during these
23 periods of high demand.

24 Collectively those will come together to lower
25 uplift charges in the future. There is of course no

1 guarantee.

2 CHAIRMAN LaFLEUR: Thank you very much. If we
3 could all predict the future none of us would have
4 these jobs, but it is encouraging to see some progress
5 in something that we are going to definitely need to
6 continue to focus on.

7 COMMISSIONER MOELLER: Thank you, Chairman LaFleur. This
8 is an excellent lively presentation. Thank you to the
9 team, the Division of Energy Markets Oversight also
10 known as DEMO under the excellent leadership of Mr.
11 Jason Stanek.

12 We look forward a little bit more higher profile
13 from DEMO going forward.

14 This gives us a chance to reflect in a yearly
15 snapshot of all the things that have happened, and to
16 focus, again, on the continuing amazing story of
17 domestic natural gas production that has made our lives
18 in one way much easier and also brings in other
19 challenges.

20 Talking about the price formation, and thank you
21 for bringing that up, Chairman LaFleur, one of the
22 challenges we had that we have talked about a few times
23 is when people had to go into the long weekends
24 particularly the three-day weekends buying incredibly
25 high price gas that they may or they may not have

1 actually needed.

2 And we talked about ICE, the Intercontinental
3 Exchange putting out a new product this year. It split
4 up the weekend package.

5 Can you elaborate a little bit more on how vibrant
6 that product has been?

7 MR. BURCHILL: Yes, that is a great question and
8 since its inception at the beginning of December we
9 have been monitoring it pretty closely and it is
10 something that we are going to continue to monitor, of
11 course, but we still consider it to be kind of a niche
12 product.

13 But there has been while not extensive there has
14 been continued interest in these contracts.

15 COMMISSIONER MOELLER: Good. That is encouraging and at
16 least it is there. We are going to have quite the same
17 situation that prompted its need this year as it was
18 for last year.

19 We talk about demand and the various sectors,
20 residential, industrial and commercial, you pointed out
21 overall there has been a 1% decrease in demand over the
22 last year in the industrial space.

23 What I am afraid that masks is certain regional
24 areas where demand is way up and that is consuming
25 partly as the states have to grapple with

1 implementation of the Clean Power Plan if they are
2 actually in an environment where industrial demand is
3 growing.

4 Can you elaborate a little bit more on regional
5 differences in industrial demand?

6 MR. BURCHILL: That is a good question, so
7 obviously whenever we present the state of the markets
8 one difficulty we have is that there is significant
9 geographical variation between different markets and
10 different conditions in those markets and when we
11 aggregate that we lose at some resolution.

12 Industrial demand, the decrease in industrial
13 demand we saw was actually driven by a substantial
14 decrease in the Northeast.

15 Around the country we actually saw regional
16 variation anywhere from -3% to +6% industrial growth,
17 so as you mentioned, some regions in the country are
18 actually experiencing significant growth in industrial
19 electrical demand.

20 It is something that we are definitely going to do
21 more analysis on in trying to determine characteristics
22 for.

23 COMMISSIONER MOELLER: Right. Thank you. We will be
24 very interested in that, again, given that compliance
25 plans being due for 2020 can be probably made more

1 difficult if an economy is booming and industrial
2 demand reflects that.

3 You also mentioned the integration of MISO South.
4 We had talked a lot about the potential savings of
5 that. Can you elaborate on what those numbers are
6 coming in at?

7 MR. BURCHILL: Yes, actually, I cornered one of
8 our analysts about this this morning.

9 We are lucky to have a recent MISO report, their
10 value proposition. We have recently seen cost savings
11 estimates to increase between \$750 million to \$930
12 million and this is up from their original estimate
13 which was more than \$530 million range.

14 The primary driver for those savings is in a
15 deferred capacity investment, so obviously expanding
16 the footprint has really helped them not only manage a
17 number of energy in ancillary services products but
18 also their overall demand as well.

19 COMMISSIONER MOELLER: Do you know what the time frame is
20 on those savings, is that an annual or a five-year
21 projection?

22 MR. BURCHILL: It is a projection and I am afraid
23 I do not know the specific, but I will get it to you.

24 COMMISSIONER MOELLER: But significant and significantly
25 greater than even projected initially?

1 MR. BURCHILL: That is correct.

2 COMMISSIONER MOELLER: Thank you very much for the
3 presentation. We look forward to hearing more from you
4 in the future.

5 CHAIRMAN LaFLEUR: Thank you. Commissioner Clark.

6 COMMISSIONER CLARK: Thank you for the presentation. It
7 really was fascinating. What has driven home to me is
8 just how unpredictable energy markets really are.

9 Had someone told me six months ago or even four
10 months ago coming into this winter that the East Coast
11 in our Eastern markets would have the winter that we
12 have had, I would have had a pretty solid prediction on
13 where I thought prices would have gone because of it,
14 and in fact, they went just exactly opposite of where a
15 lot of us would have predicted they went for a whole
16 lot of factors, but really drives home the point that
17 energy markets, the development of different energy
18 resources really is highly unpredictable.

19 The other thing that it drives home to me is the
20 work of the Commission really is important when you
21 think about what happened with regard to some of the
22 sighting cases that you noted that brought new
23 resources into constrained areas of the country, that
24 was a factor that resulted in a positive outcome for
25 consumers.

1 A lot of the work that was done by ISO New England
2 that the Commission approved with regard to winter
3 reliability programs, and you mentioned those, the
4 transparency issues in the market that we have been
5 working on have all been helpful.

6 I take to heart Chairman LaFleur's commendation
7 that we should not be immodest about some of these
8 things as well.

9 Oftentimes when things go well I think Government
10 probably gets a little bit too much of the credit, and
11 when things go bad Government probably gets a little
12 bit too much of the blame.

13 Understanding that it is unpredictable and we have
14 to stay ahead of the curve and continue to do things
15 that support proper market outcomes, and understanding
16 that things could turn next winter, we should also take
17 some heart that the work up to this point has been
18 doing things that we had hoped it would in terms of
19 positive outcome for consumers.

20 Thank you for the report.

21 COMMISSIONER BAY: I also thank staff for this very
22 informative state of the markets report.

23 I agree with the chairman that it is very nice to
24 see the difference in performance at prices in uplift
25 between last winter and this winter and the arterials

1 and ISOs.

2 Here I want to pick up on a theme that
3 Commissioner Clark sounded which is markets and their
4 unpredictability.

5 Just a few months ago no one could have predicted
6 that West Texas crude would drop below \$50 a barrel and
7 yet that is where we are today.

8 Do you have any sense for how the drop in oil
9 prices will impact natural gas production or will it
10 have any kind of impact?

11 MR. CABRALES: Commissioner, to this date we have
12 not seen an impact yet.

13 As a matter of fact, we continue to set production
14 records for natural gas.

15 I was looking at some data from North Dakota where
16 in January they set that both oil and natural gas
17 production records.

18 However, it is fair to say that if there is a
19 continued decline in capital investments in exploration
20 and production we will at some point see a leveling off
21 if not a decline in production.

22 There are a lot of different projections by
23 analysts that spend a lot of time on this issue.

24 There is difficulty because so much has changed in
25 the way the industry goes about production in the last

1 few years.

2 We are seeing great improvements in efficiencies,
3 so a number such as recount that people used to rely on
4 to make these projections seem to have disconnected
5 from what is going on.

6 Another thing that has changed is that as prices
7 have fallen in the natural gas side, for example, we
8 have seen producers get better at getting the product
9 out of the ground.

10 Whereas three years ago people were saying that a
11 break given price for Marcellus was \$5.00 or \$6.00 and
12 now they say \$3.

13 If we see something like that happening in oil we
14 could continue to see strong production for a long time
15 to come.

16 My personal opinion is that based on the current
17 crisis prices we could begin to see a leveling off in
18 production in the next couple of months and a decline
19 sometime towards the end of the year, but that is just
20 my personal opinion.

21 COMMISSIONER BAY: Thank you.

22 COMMISSIONER HONORABLE: Thank you. Thank you for the
23 excellent and very thorough report and thank you to the
24 staff, DEMO, it was described as.

25 All of these new acronyms, please, when you have

1 new Commissioners give them a legend or a key with all
2 of them so that we can learn them all at once.

3 Most of all some of the highlights that I took
4 away from the excellent presentation was just how
5 dynamic the markets have become in a very very short
6 period of time which I could only imagine how very busy
7 you have been this year.

8 For me it has been seeing some of these things in
9 the snapshots, for instance, the MISO Entergy
10 integration and I am very pleased that Commissioner
11 Moeller mentioned that.

12 I understood, and I was very pleased about the
13 increase in the benefits obtained, I thought it was for
14 the past year, I stand to be corrected.

15 It is still phenomenal.

16 It really speaks to the importance of markets in
17 not only ensuring that we are able to provide the
18 lowest cost resource thereby really serving consumers
19 well.

20 Also providing proper signals to spur investment
21 and also as we have seen as of late the ways in which
22 the markets can be used as tools, for instance, in
23 meeting the Clean Power Plans, in our last technical
24 conference, we heard quite a bit about that and really
25 the benefit of the markets.

1 And to acknowledge as my colleagues have that we
2 have work to do and we still have challenges to
3 overcome.

4 In your slide you referenced the extreme weather
5 conditions and how those conditions have impacted the
6 markets.

7 I wanted to ask you in particular about drought
8 and how it may have impacted or will impact the markets
9 going forward, for instance.

10 There is California's entering its fourth year of
11 drought, certain portions of Texas, and Oklahoma and
12 Nevada have been declared by the federal government as
13 being in exceptional drought conditions.

14 How, in your estimation, or opinion will that
15 impact the markets going forward?

16 MR. BURCHILL: That is a great question. The
17 drought is something that is definitely on our mind.

18 Obviously water plays an important role in
19 electricity not only because of hydro electrical
20 generation, but also because of thermal generation and
21 the clean requirements.

22 We have been monitoring the situation quite
23 closely. To date, we have not seen any forced outage
24 rates due to water availability.

25 What we have seen are a handful of cases of

1 generators requiring backup sources of water for
2 cooling.

3 In California market oversight works very closely
4 in collaboration with the California Energy Commission,
5 the California Public Utilities Commission, the
6 Government's Office and other state agencies to
7 continue to monitor this going forward.

8 This past summer we were, I do not want to say
9 lucky, but the market outcomes were favorable due to
10 increased renewable generation and a mild summer which
11 lowered demand overall.

12 So to date the market impacts have been relatively
13 minor, but it is something that we are very cognizant
14 of and we will continue to monitor going forward.

15 COMMISSIONER HONORABLE: Thank you. Keep up the great
16 work.

17 CHAIRMAN LaFLEUR: Thank you all. Before I close
18 out the meeting, I want to take a brief moment to note
19 that this is the last meeting where I will be the
20 chair.

21 It has been a tremendous honor for me to lead the
22 Commission the past 16 months, and I deeply appreciate
23 all of the support I have gotten from the team in my
24 office, the people who work here, the wonderful FERC
25 senior staff, for your outstanding and steady

1 leadership has kept our work moving across all fronts
2 at a time when there have been a lot of changes in the
3 Commission in the last couple of years.

4 Really, all FERC employees, and those outside who
5 have supported me so much.

6 My term continues for four more weeks as we have a
7 lot of cases to get out in those weeks and I look
8 forward to working with you on those and beyond that do
9 look forward to continuing to work with all of you with
10 Chairman Bay and the rest of you as a Commissioner
11 going forward.

12 COMMISSIONER MOELLER: I would like to congratulate you
13 before you bang that gavel, Commissioner LaFleur, for
14 your chairmanship.

15 I thank you for your hard work, dedication, your
16 friendship.

17 Obviously you are supported by somebody named Bill
18 over there too and I look forward to continuing to work
19 with you. Congratulations.

20 COMMISSIONER CLARK: Let me add my word as well and
21 seconded everything that Phil just said. Thank you for
22 your leadership for this past year and a half now.

23 It is a tremendous workload and burden that falls
24 upon the chair of any regulatory agency and ours is one
25 of those.

1 Thank you for the years of service before
2 especially for this last year and a half and look
3 forward to continuing to work with you for the
4 remainder of your term.

5 CHAIRMAN LaFLEUR: Thank you.

6 COMMISSIONER BAY: I also would like to thank the
7 Chairman for her outstanding leadership and for her
8 dedication.

9 As passionate as she is about Boston area sports
10 teams, she is even more passionate about FERC and the
11 work of FERC. It has been a great honor to serve with
12 the Chairman as a Commissioner and also as a member of
13 senior staff here at the Commission.

14 COMMISSIONER HONORABLE: Thank you, and to round out the
15 accolades, I'm sure we are embarrassing you now.

16 Just accept it.

17 I still remember when we first met, Madame
18 Chairman, at a NERUC meeting and from that moment that
19 I met you you have been warm and receiving and I have
20 greatly admired how hard you work.

21 I have told people, I have called Cheryl on
22 Central Time, it was still late at 7:00, so at 8
23 o'clock, and she is sitting in her office and she has
24 endeavored along with her team to do what needed to be
25 done to run this agency and you have done so

1 excellently and it really is now such an honor and it
2 is humbling to work with you and beside you and I look
3 forward to doing so going forward, and as have my
4 colleagues I am commending you on a job very well done.

5 Congratulations.

6 CHAIRMAN LaFLEUR: Thank you. (Applause.)

7 COMMISSIONER MOELLER: If Commissioners could give out
8 awards, then we would give you one, but we are not
9 authorized to do that.

10 CHAIRMAN LaFLEUR: Thank you all so much. I did
11 purposely leave out the Bill because I was afraid I
12 would get emotional, but I certainly sidestepped that
13 land mine and I also continue to work for Bill even
14 beyond April 15, 2019.

15 COMMISSIONER HONORABLE: I am glad that you mentioned
16 Bill. I have met him as he has been such a strong
17 supporter of yours even on the Hill and I'm glad that
18 Bill is here today and I want to thank you too for the
19 tremendous support you have given the Chairman.

20 CHAIRMAN LaFLEUR: Thank you so much. With that,
21 the meeting is adjourned.

22 (Whereupon, the meeting adjourned at 12:00 noon.)

23

24

25