

Final - 4/21/08
Minutes of RSP Planning Advisory Committee (PAC28) Meeting
 ISO Offices, Holyoke, MA
 February 15, 2008

Attendees:

Name	Organization
Jeff Jones	Bangor Hydro
Bill Fowler (phone)	BG/ENEH/LRGC
Brian Forshaw (phone)	CMEEC
Seth Kaplan (phone)	CLF
Dave Conroy (phone)	CMP
Rick Rodrigue (phone)	CT DEP
Eric Jacobi	CT DPUC
Tim Morrissey (phone)	Dominion
John Moskal (phone)	EPA
Jeff Plante	ERM
Tom Kaslow (phone)	First Light, Dynegy, Calpine
Dave Bertagnolli	ISO-NE
Marcia Blomberg	ISO-NE
Hayley Dunn	ISO-NE
Dave Ehrlich	ISO NE
Bob Ethier (phone)	ISO-NE
Don Gates (phone)	ISO-NE
Michael Henderson	ISO-NE
Eric Johnson	ISO-NE
Andrew Kniska	ISO-NE
Constantia Lambrinos	ISO-NE
Frank Mezzanotte	ISO-NE
Brent Oberlin	ISO-NE
Jim Platts	ISO-NE
Cheryl Ruell	ISO-NE
Kannan Sreenivasachar	ISO-NE
Carol Wendel	ISO-NE
Jinlin Zhang	ISO-NE
Bob Donaldson (phone)	MA DEP
Paul Lopes (phone)	MA DOER
Paul Hibbard (phone)	MA DTE
John Keene (phone)	MADTE
Shashi Parekh (phone)	MADTE
John Kerry (phone)	Maine Governor's Office
Phil Smith (phone)	Mirant
Bruce McKinnon	MMWEC
Steve Conant (phone)	NEITC
Jim Nash (phone)	NEITC
Henri Daher (phone)	NGRID
Dana Walters (phone)	NGRID
Mike Harrington (phone)	NH PUC
Peter Fuller (phone)	NRG
Steve Masse	NSTAR
Cal Bowie (phone)	NU
Gene Taddeo	NU
Joyce Wood (phone)	Wellesley Municipal

Bob Stein (phone)	Signal Hill
Jeff Fenn	SGC/BHE
Paul Peterson	Synapse
Jim Gawronski	UI
Mike Jacobs	UPC Wind

Administrative

Mr. Mike Henderson welcomed the attendees and after introductions reviewed the meeting agenda and dates of future PAC meetings. Updates and additional data have been posted regarding the Maine Reliability Program presentations at PAC27.

Economic Studies

Dr. Bob Ethier described a separate stakeholder process that he, along with co-chairs from NECPUC and NEPOOL, would be leading in March to determine the criteria for performing economic studies of developer proposals related to Attachment K of the OATT. He also indicated that Market Efficiency Transmission Upgrades defined in Attachment N of the OATT would be part of the stakeholder process to define how these studies will be done. The ISO will conduct up to three studies that are agreed upon by stakeholders. Stakeholders may request and pay for additional studies. Questions and comments received included:

- Would ISO support additional studies beyond the first three using proprietary data? Yes, but the sponsor would have to pay for the studies.
- Regarding tariff changes would the Attachment N process be limited to production costs or will environmental costs be included? LSE costs, emission allowance costs and RECs might be included but this is open for discussion.
- Scope of studies need to include carbon prices beyond RGGI.
- Need to include cost allocation in the tariff similar to the Western U.S. approach. This could be addressed but it would extend the period of discussion.
- What is the process to submit a request? This will be clarified.
- Will the economic studies be done by RSP09? Probably
- What are the ideas on how to prioritize the project requests? This will be discussed with stakeholders.
- Will the study schedule and projects be listed in RSP08? Probably

RSP08 Scope of Work

Mr. Henderson presented a summary of the comments received at PAC27 on the proposed Scope of Work for the RSP08. They covered the following items:

- Operating issues of demand side and renewable resources
- Uplift and mitigating transmission solutions
- Losses
- FCM
- Planning process
- Economic analysis
- Environmental analysis

In general, the PAC agreed with the proposed scope of work but wished to have further discussion on the RSP08 economic and environmental analysis. Mr. Henderson presented several

sample graphs to illustrate analysis results and sensitivity cases that could be presented in RSP08.

Comments and questions received from the PAC included:

- Industrial organizations such as the Utility Wind Integration Group (UWIG) can be sources for good information for the ISO. Mr. Henderson also mentioned the IEEE as a source for wind and other technical information.
- A future PAC meeting on renewables should include renewable resources from areas outside New England such as imports from Canada to help states integrate these into their RPS. This will be considered.
- Need to include integration of small resources. The RSP will include some discussion, especially for EE and DR.
- When will John Norden's work on integration of demand and renewable resources be completed? This will be later in 2008. The RSP08 will include a status of this work.
- Losses have two aspects: physical (engineering) losses and the impact on LSEs which are marginal losses.
- How will delisted and retired generators be treated in RSP08? Assumptions on their treatment will be presented to the PAC.
- How will local planning be treated and will local projects be listed? A process is under development for this.
- Need to show past and future projections of system emissions. This is planned.

Mr. Henderson indicated that economic modeling will be done on a one-bus system since the location of added resources needed beyond the FCM resources will not be known. Considerable discussion followed of one bus vs. 13 bubbles representation. Comments included:

- The assumption can be made that the resources will be located where they are needed or the transmission will be built to bring the power to the needed areas justifying the one bus representation.
- Need to model the bubble areas to represent transmission constraints. Scenarios for different resource mixes in the bubbles could then be used to look at potential transmission requirements.
- Mr. Kowalski pointed out that the studies to be done under Attachment K will include the transmission system for resource deliverability.
- Many resources that didn't qualify for FCM are likely located where they are needed.
- A suggestion was made for creating a breakout group to discuss this issue further.

Boston Light Load Voltage Study

Mr. Frank Mezzanotte presented the results of a study that was undertaken to determine if there was still a need to have a dynamic reactive source operating in the Boston area during light load periods to maintain regional stability. The preliminary results showed that this type of support is no longer needed. The analysis is currently being reviewed by Planning and Operations personnel directly impacted and should be finalized within the next month or two.

The results also recommended that a static reactor be added in the area to provide enhanced high voltage control both pre- and post-contingency, and significantly reduce the possibility of having to open up any of the 345kV cables.

Questions and comments received:

- Clarified that the study specifically investigated numerous system configurations, not dependent on any one unit external to the Boston area, without generation in the Boston area.
- Clarified that a variable reactor under study for possible siting at Mystic would have a range from 70 MVAR to 160 MVAR.

New Hampshire System Needs Assessment Study Scope

Ms. Jinlin Zhang presented a scope of work for a study effort by the ISO and the Northern New England TOs to assess the transmission needs and alternatives to reliably and economically serve New Hampshire through 2018. The study would consist of steady-state thermal and voltage analyses focusing on six regions within New Hampshire. Ms. Zhang described the base cases, contingencies, the generation dispatches and power transfers that would be tested. She will include all projects which have approved PPAs and will be performing sensitivity analysis to projects such as MPRP, Gosling Road, etc.

Comments and Questions received included:

- Would Sable Island gas contingencies be considered? A similar generation pattern had been tested in the MPRP studies. Since the New Hampshire studies will ensure that the transfer capability to Maine with the MPRP in place is maintained, this generation pattern is considered to already be addressed.
- Are planned additions included? Yes, those with I.3.9 approval.
- How is Line Y138 considered? It is assumed closed with 0 MW of flow.
- Include a dispatch with all of the Schiller generators and another generator out of service. This will be added to the scope.
- Will you do tests with the Scobie-Tewksbury line in service? This will be considered.

Next Meeting

The next PAC meeting (No. 29) is scheduled for March 19 in Westborough at the Doubletree Hotel