

**Planning Advisory Committee
Doubletree Hotel, Westborough, MA
November 20, 2013**

Joseph Adadjo	Northeast Utilities Service Company
Mark Babula	ISO New England Inc.
Denis Bergeron	Maine Public Utilities Commission
Peter Bernard	ISO New England Inc.
Brad Bentley	Northeast Utilities Service Company
Curt Beveridge	Central Maine Power Company
Christian Bilcheck	United Illuminating Company
Cal Bowie	Northeast Utilities Service Company
Tim Brennan	New England Power Company
Frank Broche	ICF
Dorothy Capra	NESCOE
ML Chan	ML Consulting Group
Rick Conant	RLC Engineering
Dave Conroy	Central Maine Power Company
Ray Coxe	Mosaic Energy for Brookfield
Greg Cunningham	Conservation Law Foundation
Ben D'Antonio	NESCOE
George DeLovraio	New England Power Company
Gaurang Desai	Customized Energy Solutions
Stacy Dimou	Bangor Hydro Electric Company
Stan Doe	ISO New England Inc.
Frank Ettori	Vermont Electric Company
Jeff Fenn	Bangor Hydro Electric Company
Tony Fitzgerald	Northeast Utilities Service Company
Kevin Flynn	ISO New England Inc.
Bill Fowler	Exelon/Equipower/Granite Ridge
Steve Garwood	New Hampshire Transmission
Don Gates	ISO New England Inc.
Mike Giamo	ISO New England Inc.
Brian Hayduk	New England Power Company
Mike Henry	Environmental Northeast
John Higgins	Navigant Consulting
Jim Hyland	MMWEC
Jeff Jones	Bangor Hydro Electric Company
Tom Kaslow	GDF Suez
Bill Killgoar	Long Island Power Authority
Rich Kowalski	ISO New England Inc.
Abigail Krich	Boreas Renewables
MaryJo Krolewski	Vermont Public Utilities Commission
Robin Lafayette	ISO New England Inc.
Marc Lyons	ISO New England Inc.
Maurice May	Power Insights
Al McBride	ISO New England Inc.
Bruce McKinnon	CMEEC
John Moskal	U.S. EPA
Brent Oberlin	ISO New England Inc.
Daniel Patt	Alstom
Rose Ann Pelletier	Massachusetts Department of Public Utilities
Kevin Petale	ICF

Fred Plett	Massachusetts Attorney General Office
Hantz Presume	Vermont Electric Company
Francis Pullaro	ReNew New England
Eric Runge	Day Pitney
Patricio Silva	ISO New England Inc.
Allison Smith	NESCOE
Doug Smith	Green Mountain Power Company
Joe Staszowski	Northeast Utilities Service Company
Robert Stein	HQUS
Veronica Szczerkowski	Connecticut Department of Public Utilities
Matt Valle	New Hampshire Transmission
Pradip Vijayan	ISO New England Inc.
Sharon Webber	PPL Energy Plus
Jinlin Zhang	ISO New Enbgland Inc.

Item 1 – Chair’s Remarks

Mr. Don Gates welcomed the committee and reviewed the day’s agenda. Mr. Gates announced that some addition PAC meeting minutes have been posted for review. Please send any comments to Mr. Marc Lyons (ISO). Mr. Gates also briefed the committee on the inclement weather procedure.

Item 2 – EIPC Gas/Electric Update

Mr. Mark Babula (ISO) provided an overview of the EIPC Gas/Electric study work efforts to date.

There were no questions from the committee on this topic.

Item 3 – ICF Natural Gas White Paper

Mr. Kevin Petak (ICF) and Mr. Frank Brock (ICF) provided an overview of the ICF Natural Gas White Paper.

Comment – Stakeholders commented that while they believe it is important to add pipeline infrastructure in New England, they feel a higher priority should be more flexibility in the timing of the day ahead market so gas nominations can be made earlier in the day.

Q - Should fuel contracts be considered as part of a generator interconnection agreement?

A – We can take that back to ISO for discussion.

Q – I see an issue with the proposed 15 minute scheduling over the ties. The IMM and EMM should be prepared for volatility when unscheduled gas is pulled off the system once this program goes into effect.

A – We can take that back to ISO for discussion.

Other clarifying questions on the charts and graphs within the presentations were asked and responded to by Mr. Petak and Mr. Brock.

Item 4 – Maine 2023 Needs Assessment Scope of Work

Ms. Jinlin Zhang (ISO) provided an overview of the Maine 2023 Needs Assessment Scope of Work.

Q – It’s been around 7 years since the last Maine study. What is the timeframe standard for relooking at an area? We haven’t even finished constructing MPRP yet.

A – We do not have a specific timetable. However, depending on the size of the project, by the time you finish the initial area study work, approve and then construct the resulting project solution, it only gives roughly a two year useful window before the area in question should be looked at again.

Q – Will the proposed Northern Pass Transmission line be included as part of the study as a sensitivity?

A – The project scope states all approved projects as of October 2013, plus MPRP, will be used in the study.

Comment – I would recommend that unless significant computer inputs has been performed already, I recommend revising the October cutoff date so the Northern Pass project can be added to the study.

Q - Will you look at specific contingencies on the 34.5 kV?

A - No. We will assess 34.5 kV voltage and thermal issues as it directly impacts the BES system.

Q - I recommend that if you do not find any issues with the 2023 peak load, I recommend adding and analyzing additional load until you do discover a problem so ISO will know where the tipping point is.

A – That is not part of our process when we analyze an area. It is also extremely unlikely that we will not discover some issues that will need to be addressed.

Comment – NESCOE recently performed some research illustrating some ISO study analysis that reviews scenarios that are extremely unlikely to occur. NESCOE recommends that you ignore those extremely rare events and we ask that you keep this in mind as you perform this study work.

Comment – Going forward, ISO will no longer be studying the impacts of export capability as part of the overall study area review. ISO will soon be developing a point paper detailing the specifics of this concept that will be distributed to the PAC.

Item 5 – Greater Hartford/Central Connecticut Needs Assessment

Mr. Pradip Vijayan (ISO) provided an overview of the Greater Hartford/Central Connecticut Needs Assessment.

Q - As part of the study will ISO look at alternative resource solutions?

A – If something clears in FCM and it impacts the GHCC project, we will consider it.

Other minor clarification questions were asked and responded to by Mr. Vijayan and Mr. Brent Oberlin (ISO).

Item 6 – Greater Boston 2023 Needs Assessment Solution Study Update

Mr. Andrew Kniska (ISO) provided an overview of the Greater Boston 2023 Needs Assessment Solution Study Update.

Q – Can you comment on why the New Boston site is no longer being considered for the Sealink DC cable.

A – When the New Boston generators retired, three new transmission lines were installed into the area. If the Sealink cable is added to that location it would create an export constraint condition.

Several technical questions regarding the study were asked and responded to by Mr. Kniska and Mr. Brent Oberlin (ISO).

Item 7 – NGrid Transmission Refurbishments Update to Salem Harbor Cable Replacement

Mr. George Delovraro (NEP) and Mr. Jack Martin (NEP) provided an overview of the NGrid Transmission Refurbishments Update to Salem Harbor Cable Replacement.

Q – How long are the cables?

A – Approximately 1 ½ miles.

Q – By using a common duct are you creating the potential for a common mode failure?

A – It is possible but we consider the risk as highly unlikely.

Q – By using a single duct bank, does that reduce construction times?

A – Yes, a construction of a single duct bank is estimated to be 18 month versus two years for dual duct banks.

Item 8 – NGrid Asset Condition Needs: 115 kV Salem Harbor Substation

Mr. Jim Wynn (NEP) and Mr. Jack Martin (NEP) provided an overview of the NGrid Asset Condition Needs: 115 kV Salem Harbor Substation.

Comment – It seems that the -50%/+200% project costs is too vague. Can you return to the committee and provide some more cost certainty. Something on the lines of a +/- 25%

A – Yes we plan to narrow those estimates down in the near future.

Other minor clarification questions were asked and responded to by Mr. Wynn.

Item 9 – Peaslee Switching Station Project

Mr. Jim DiLuca (NU) provided an overview of the Peaslee Switching Station Project.

There were no questions from the committee on this topic.

Planning Advisory Committee meeting adjourned at 12:50 PM

Respectively submitted

Marc Lyons
Secretary, Planning Advisory Committee

Transmission Owners Planning Advisory Committee (TOPAC)

Item 10 – Northeast Utilities/NStar Local System Plan

Mr. Brad Bentley (NU) provided an overview of the NU/NStar Local System Plan (LSP). As this is part of the TOPAC meeting, no formal minutes or notes will be taken.

Item 11 – Central Maine Power Company Local System Plan

Mr. Curt Beveridge (CMP) provided an overview of the CMP Local System Plan (LSP). As this is part of the TOPAC meeting, no formal minutes or notes will be taken.

Item 12 – Vermont Electric Company Local System Plan

Mr. Hantz Presume (VELCO) provided an overview of the VELCO Local System Plan (LSP). As this is part of the TOPAC meeting, no formal minutes or notes will be taken.