

NYSRC Installed Capacity Subcommittee

Meeting #55

August 3, 2005

9:30 a.m. – 4:15 p.m.

NYISO: Washington Ave Ext. Conference Room WD

Meeting Minutes

Attendees

Members/Alternates Present:

Mr. Curt Dahl (LIPA), Chairman
Mr. Bart Franey (National Grid)
Mr. Steve Jeremko (NYSEG-RGE)
Mr. Carlos Villalba (Con Edison) – Telephone
Mr. Steve Whalen (NYSEG-RGE) – Telephone
Mr. Rich Wright (Central Hudson)
Mr. King Look (Con Edison), Secretary

Advisers/Non-member Participants Present:

Mr. John Adams (NYISO)
Mr. Al Adamson (Consultant)
Mr. Greg Drake (NYISO)
Mr. Ed Schrom (NYPSC)
Mr. Frank Vitale (Consultant)

Guests Present:

Mr. Glenn Haringa (GE) – Telephone, Limited Participation
Mr. Gary Jordan (GE) – Telephone, Limited Participation
Mr. Bill Lamanna (NYISO) – Telephone, Limited Participation
Mr. Madison Milhous (KeySpan Ravenswood)
Mr. John Pade (NYISO) – Limited Participation
Mr. Cenk Yildirim (NYISO)

1. Review and Approval of Meeting Minutes

1.1. Meeting #54 on 6/29/05

The Meeting Minutes from Meeting #54 (held on 6/29/05) were reviewed. A motion was made and accepted to finalize these minutes with some editorial corrections.

1.2. Conference Call #20 on 7/21/05

The Meeting Minutes from Conference Call #20 (held on 7/21/05) were reviewed. A motion was made and accepted to finalize these minutes with some editorial corrections.

2. Review of Previous Outstanding Assignments

Action Items List #54 was reviewed and resulted in closing out items 49-7, 51-1, 51-4, 53-1, and 54-1.

3. Review of 2006-2007 IRM Study Base Case Assumptions Matrix

▪ Interface Limits:

- Both John Adams and Bill Lamanna indicated that the 345 kV Sprain Brook and Dunwoodie series reactors could potentially affect the limits on the UPNY/SENY, UPNY/Con Ed, Y49/Y50 and Dunwoodie South interfaces. The NYISO has not yet completed its analysis of the potential impact of the 345 kV Sprain Brook and Dunwoodie series reactors.
- Bill Lamanna also indicated that the NYISO is still looking at how to model the PSEG – Con Edison Wheel.
- Curt Dahl reminded ICS, including the NYISO representatives, of the need to send the EC a complete set of base case assumptions prior to the August 12, 2005 EC meeting. As a result, Curt Dahl scheduled an ICS conference call for August 8, 2005, asking the NYISO representatives to be ready then to provide the updated assumptions on the interface limits.

- Load Forecast Uncertainty Model: Curt Dahl asked John Pade to look at this summer's experience to determine if there is a need to change the zones A through I load forecast uncertainty model. John Pade said he will reassess the zones A through I load forecast uncertainty model. Curt Dahl asked John Pade to discuss his reassessment of the zones A through I load forecast uncertainty model on the August 8, 2005 ICS conference call.

- Zonal Loads: ICS indicated that in the 2006-2007 IRM report there will be an explanation of how the zonal loads are developed.

- Wind Resources: Greg Drake indicated that wind will be modeled by hourly derate of zonal load using the DSM load modifier. Curt Dahl asked Greg Drake to get back to ICS with the equivalent forced outage rate of Flat Rock.

- *As a new action item (#55-1), Greg Drake will prepare a written description of the modeling of wind resources.*

- Retirements: John Adams brought up the possibility that the NYPA Vernon gas turbines (79.9 MW) may be retired in the Fall of 2006. Since currently there is no formal announcement regarding this, retirement of the NYPA Vernon gas turbines will not be a base case assumption.

- Forced and Partial Outage Rates: Greg Drake reviewed with ICS the EFORD trends. The NYISO grouping of 33,000 MW EFORD data are consistently less than the NYPP grouping of 21,330 MW EFORD data. NYISO grouping data are only

available for years 2001 and later. Per Greg Drake's suggestion, NYISO grouping data will be used.

- DMNC Derating:
 - Greg Drake informed ICS that the preliminary 2004 average DMNC derating is 637 MW in the state (versus 711 MW from last year's IRM study).
 - The largest increase in the DMNC derating was in zone D: 361 MW vs. 34 MW from last year's IRM study. The largest decrease in the DMNC derating was in New York City: 35 MW vs. 215 MW from last year's IRM study. The DMNC derating on Long Island remains about the same: 113 MW vs. 119 MW from last year's IRM study.
 - Curt Dahl questioned whether the DMNC derating on Long Island has properly reflected the operation of capacity limited resources on Long Island, and indicated that he would need to review the Long Island data.
 - Curt Dahl asked Greg Drake to include the draft report, "Adjusting for the Overstatement of Resource Availability in Resource Adequacy Studies" in the materials to be sent to the EC prior to the August 12, 2005 EC meeting.
- Gas Turbines Ambient Derate: John Adams brought up the issue of combined cycle units have gas turbine capacity that are sensitive to ambient temperatures. This issue with the combined cycle units will not be addressed in the 2006-2007 IRM Study but will be addressed in the following year's IRM study.
- Special Case Resources: Curt Dahl asked if the 96 MW of emergency generators on Long Island are included in the special case resources. Greg Drake indicated they were included in the 2005-2006 IRM Study and will also be in the 2006-2007 IRM Study as well.
- Outside World Model:
 - Greg Drake briefed ICS about the updates made to the PJM and ISO-NE models. The results show that with the both the PJM updated model and the ISO-NE updated model made to the 2005-2006 IRM base case, the 2005-2006 base IRM would have been 17.52% (vs. the 17.6% without the updated PJM and ISO-NE models). Updating the ISO-NE model alone would have increased the 2005-2006 base IRM from 17.6% to 18.1%.
 - Greg Drake indicated the updated PJM model reflects an "as found" 123% capacity to load ratio and the updated ISO-NE model reflects an "as found" 125% capacity to load ratio, which means both the updated PJM and updated ISO-NE models are above their respective reserve margin criterion.
 - Curt Dahl expressed concern of relying on the outside world's excess capacity. To address Curt Dahl's concern, Greg Drake stated that both the updated PJM and updated ISO-NE models do not include EOPs and the PJM LOLE (without

EOPs) and ISO-NE LOLE (without EOPs) were 0.165 and 6.24, respectively, which means that both PJM and ISO-NE are modeled being less reliable than New York. However, ICS did not believe the 0.165 LOLE for PJM (which reflects an “as found” PJM installed reserve margin of 23%) was conservative enough and agreed to modify the PJM model to be closer to the PJM installed reserve margin criterion of 15%. As a result, Greg Drake will remove from the PJM model the roughly 4500 MW of recently added PJM capacity, which will bring the “as found” PJM installed reserve margin to 17%, slightly about the 15% criterion.

- ICS asked Greg Drake to run the updated world model through some more iterations to ensure that it is appropriate for use in the 2006-2007 IRM Study.

4. Review of 2006-2007 IRM Study Work Plan Matrix

4.1. Resource Capacity Availability

See discussion on DMNC derating in item 3 above.

4.2. Outside World Representation

See discussion on outside world model in item 3 above.

4.3. Sensitivity Cases

As a new action item (#55-2), Frank Vitale will develop a list of sensitivity cases for discussion at the next ICS meeting (#56).

4.4. Horizon Year

The horizon year study will be a sensitivity case to assess the NYCA installed capacity requirement for year 2010. Greg Drake will resend ICS the study scope but this time with the attachments listing the assumptions, with the goal to finalize the study scope and assumptions at the next ICS meeting (#56).

4.5. Procedure for Unified Method

Greg Drake will send ICS the unified method procedure and the unconstrained IRM procedure.

- *As a new action item (#55-3), ICS team members should review and comment on the unified method procedure and the unconstrained IRM procedure before the next ICS meeting (#56).*

5. Separate Upstate and Downstate Installed Reserve Margins

- Steve Jeremko reviewed with ICS a NYSEG-RGE draft study scope to determine separate upstate and downstate IRMs by modeling upstate and downstate as separate control areas. Steve Jeremko asked this to be a sensitivity case in the 2006-2007 IRM Study.
- Al Adamson indicated that sensitivity cases are supposed to help the EC to set a single NYCA IRM. In this context, Al Adamson questioned how a study of

splitting NYCA into two separate control areas will help the EC set as a single NYCA IRM.

- Carlos Villalba indicated that control area means more than IRM; for example, each control area is responsible for its own operating reserve.
- Curt Dahl will bring the concept of separate upstate and downstate control areas and IRMs for discussion at the August 12, 2005 EC meeting. Steve Jeremko reserved the right to make a presentation of the proposed study at the August 12, 2005 EC meeting.

6. Committee Reports

None reported.

7. Other Business

- Steve Jeremko reported that PJM has extended their long-range planning process from a 5-year planning horizon to a 10-year planning horizon. Steve Jeremko asked ICS if it wants periodic updates, to which ICS said yes.
- Al Adamson informed ICS that NERC is forming a resource adequacy standards drafting team. Al Adamson suggested that Curt Dahl should be on the drafting team representing both NYSRC and NPCC. Curt Dahl indicated he would accept if given the assignment.

8. Review Action Items

See attached action item list.

9. Next Meeting

September 2, 2005 Meeting # 56

Curt Dahl asked the next meeting be moved from August 31, 2005 to September 2, 2005. King Look will confirm the September 2, 2005 date with ICS team members. *[Subsequent to today's (8/3/05) ICS meeting, the September 2, 2005 date was confirmed.]*

Secretary: King Look