

NYSRC Installed Capacity Subcommittee

Meeting #59

November 30, 2005

9:30 a.m. – 3:30 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. Richard Wright (Central Hudson)
Mr. King Look (Con Edison), Secretary

Advisers/Non-member Participants Present:

Mr. Al Adamson (Consultant)
Mr. Greg Drake (NYISO)
Mr. Steve Keller (NYPSC) – Telephone
Mr. Ed Schrom (NYPSC)
Mr. Frank Vitale (Consultant)

Guests Present:

Mr. John Charlton (NYISO) – Limited Participation
Mr. Bill Lamanna (NYISO) – Limited Participation
Mr. Madison Milhous (KeySpan Ravenswood)
Mr. John Pade (NYISO)
Mr. Cenk Yildirim (NYISO) – Limited Participation

1. Review and Approval of Meeting Minutes

1.1. Meeting #58 on 11/2/05

The Meeting Minutes from Meeting #58 (held on 11/2/05) were reviewed. A motion was made and accepted to finalize these minutes with a couple of editorial corrections.

2. Review of Previous Outstanding Assignments

Action Items List #58 was reviewed and resulted in closing out the following action items:

- Action Items 55-1 – The description of the modeling of wind resources is included in the draft 2006 IRM report. This closes out this action item.

- Action Items 57-1, CC22-1, CC22-2 and 58-2 – These are sensitivity cases that will be added to the 2006 IRM Study. This closes out these action items.
- Action Item 58-1 – The dynamic interface nomograms are completed and are in the MARS model for the 2006 IRM Study. This closes out this action item.
- Action Item 58-4 – The study scope for the Upstate/Downstate Study was presented at the November 10, 2005 EC meeting. This closes out this action item.

The following action item was added:

- Action Item 58-3 – Per the Meeting Minutes from Meeting #58 (held on 11/2/05), Steve Jeremko will provide Curt Dahl with PJM fuel related information for incorporation in the fuel availability white paper. This was made an action item.

The scheduled completion date for the following action item was changed:

- Action Item 56-1 – The procedure for the unified method will be written after completion of the 2006 IRM Study. The new scheduled completion date is February 1, 2006.

3. IRM Base Case

Greg Drake presented preliminary location capacity requirement (LCR) vs. statewide reserve margin (SRM) curves. The results show that use of the dynamic interface limits to reflect the voltage issue raised in the NYISO Reliability Needs Assessment (RNA) produces LCRs virtually identical to the use of thermal interface limits only; for example:

- At 18% SRM, the LCRs for NYC and LI are 81.8% and 99.1%, respectively, using dynamic interface limits versus 81.7% and 99.1% for NYC and LI, respectively, using thermal limits only.
- At 20% SRM, both the use of dynamic interface limits and use of thermal limits only produce identical results: 80.1% NYC LCR and 97.9% LI LCR.

Bill Lamanna noted that the locational results are relatively insensitive to the change in transmission topology, because he believes that $\frac{2}{3}$ rd of the voltage issue is due to the load in the Lower Hudson Valley.

Bill Lamanna presented the dynamic interface nomograms, which is described below:

- When the load in zones G through J is at 90% of the annual zonal peak load or greater, the grouping of the I to J interface and the I to K interface is reduced by 300 MW from 4,970 MW to 4,670 MW.
- When the load in zones G through J is at 90% of the annual zonal peak load or greater and the Poletti unit is also not available, the grouping of the I to J interface and the I to K interface is reduced by 400 MW from 4,970 MW to 4,570 MW.
- The UPNY/ConEd interface is reduced from 5,500 MW maximum to 5,000 MW maximum.
- When load in zones G through I is at 90% of the annual zonal peak load or greater and any one of the four units (Bowline 1 and 2 and Roseton 1 and 2) is also not available, the UPNY/ConEd limit is reduced by 300 MW from 5,000 MW to 4,700 MW.
- When load in zones G through I is at 90% of the annual zonal peak load or greater and any two of the four units (Bowline 1 and 2 and Roseton 1 and 2) are also not available, the UPNY/ConEd limit is reduced by 600 MW from 5,000 MW to 4,400 MW.
- Besides creating a new grouping for the I to J interface and the I to K interface, a new grouping is also created for the UPNY/ConEd interface and the G to PJM-East interface.

Bill Lamanna indicated that Ravenswood 3 is not part of the nomogram, because the loss of Ravenswood 3 would create enough fault current duty headroom to switch out the Dunwoodie / Sprain Brook 345 kV series reactors during off-peak hours. John Pade explained that the MARS model would not be able to capture the intra-day risk from the loss of Ravenswood 3 during peak hours and the switching out of the reactors during the ensuing off-peak hours. However, John Pade noted that given the small probability of loss of Ravenswood 3 (based on the unit's EFORD) when load is at 90% of the annual peak load or greater, this intra-day risk from the loss of Ravenswood 3 should be insignificant in the annual LOLE calculation in MARS.

As a new action item (#59-1), John Pade of the NYISO will provide ICS with a written affirmation of the transmission topology and limits and the exclusion of Ravenswood 3 from the dynamic interface nomograms, in support of their use in the 2006 IRM Study.

4. Sensitivity Cases

ICS prioritized the sensitivity cases to get the most important ones done prior to the December 9, 2005 EC meeting. ICS agreed that the top 6 sensitivity cases for Greg Drake to focus on in preparation for the December 9, 2005 EC meeting are:

- NYCA isolated
- No load forecast uncertainty
- Remove EDRPs and SCRs
- No voltage reductions
- Thermal limits only (this case is complete)
- Decrease GADf (i.e., DMNC derating) to zero

As a new action item (#59-2), Greg Drake will follow up with GE on the determination of the IRM range that defines the 99.7% confidence interval.

5. Draft 2006-2007 IRM Study Report

Al Adamson and Greg Drake reviewed with ICS the latest draft IRM report and ICS provided comments at the meeting. Al Adamson and Greg Drake will send ICS a revised draft of the body and appendices, respectively, of the report by December 2, 2005 for final review by ICS prior to discussion of the report at the December 9, 2005 EC meeting.

6. Upstate / Downstate Study

The Upstate / Downstate Study will be conducted after completion of the 2006 IRM Study. Per the EC's request, Curt Dahl will prepare a memo to the EC, highlighting the ICS's activities for the first half of 2006.

As a new action item (#59-3), Curt Dahl will prepare the schedule of ICS activities for the first half of 2006.

7. Joint NYISO / ISO-NE Study

Curt Dahl indicated that ISO-NE has accepted all the changes recommended by ICS, including accepting the use of the GE-MARS model to do the study. Bart Franey suggested that GE (instead of the NYISO) should do the study. Curt Dahl will bring up for discussion at the December 9, 2005 EC meeting the status of this proposed Joint NYISO / ISO-NE Study, including exploring the possibility of GE doing the study.

8. Committee Reports

John Charlton briefed ICS of the activities of the NYISO ICAP Working Group, which include:

- Finalizing the rules on the intermittents
- Improving DMNC test requirements
- Revising the rules of UDRs to allow partial usage of controllable lines to import external ICAP
- Working on annual update of ICAP demand curve

John Charlton noted the serious under-performance of SCRs on the July 27 peak day and estimated that only about half of the SCRs performed, instead of the expected 95%. The PRL Working Group is evaluating the 2005 performance of SCRs.

9. Other Business

Reliability First Corporation (RFC): Prior to today's ICS meeting, Steve Jeremko sent out to ICS the summary of the RFC Workshop, which he had previously provided to the EC.

NERC Resource Adequacy Standards: Curt Dahl and Greg Drake attended the November 15, 2005 meeting of the NERC Resource Adequacy Standards Team in Chicago. Phil Fedora of the NPCC also attended. Curt Dahl reported that there was success in designating the fuel deliverability issue for extreme contingency analysis instead of in base case. Comments from all on the NERC Resource Adequacy Team were compiled into a document of about 300 pages, with the next step to convert it to a consensus document, after which would go to the Standards Authorization Committee (SAC).

10. 2006 NYSRC Meeting Schedule

The 2006 meeting schedule was sent to ICS prior to today's meeting. In 2006, ICS meetings will be at NYSERDA at 17 Columbia Circle.

11. Review Action Items

See attached action item list.

12. Next Meeting

January 4, 2006 Meeting # 60

Secretary: King Look