

NYSRC Installed Capacity Subcommittee

Meeting #60

January 4, 2006

9:30 a.m. – 3:30 p.m.

NYSERDA: 17 Columbia Circle Board Room

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), Secretary
Mr. King Look (Con Edison) – Telephone - Limited Participation

Advisers/Non-member Participants Present:

Mr. Al Adamson (Consultant)
Mr. Greg Drake (NYISO)
Mr. Frank Vitale (Consultant)
Mr. John Adams (NYISO)
Mr. Hebert Joseph (NYPSC)
Mr. John Pade (NYISO)

Guests Present:

Mr. John Charlton (NYISO) – Limited Participation
Mr. Bill Lamanna (NYISO) – Limited Participation
Mr. Madison Milhous (KeySpan Ravenswood)
Mr. Tim Foxen (NRG Energy) – Telephone - Limited Participation
Mr. Glenn Haringa (GE) – Telephone, Limited Participation
Mr. Carl Patka (NYISO) – Limited Participation

1 Review and Approval of Meeting Minutes

1.1 Meeting #59 on 11/30/05

The group reviewed and commented on the draft meeting minutes from meeting #59. At the suggestion of Curt Dahl and Madison Milhous, ICS agreed to revise the meeting minutes to replace the discussion of why Ravenswood 3 is not part of the Dunwoodie interface nomogram with a reference to John's Pade memo "Transmission System representation Used in the 2006 IRM Study".

It was additionally noted that Steve Jeremko sent some editorial corrections for the minutes for the last meeting. These were incorporated in the final version of the meeting's write-up. The secretary will re-submit the revised minutes to the group before January 10th.

1.2 Conference Call #23 on 12/02/05

The group reviewed and commented on the draft meeting minutes from conference call #23. Again Mr. Jeremko sent editorial corrections that were incorporated into the minutes from this conference call. The secretary will re-submit the revised minutes to the group before January 10th.

1.3 ICS Conference Call #24 on 12/5/05

The group reviewed and commented on the draft meeting minutes from conference call #24. Again Mr. Jeremko sent editorial corrections that will be incorporated into the minutes from this conference call. The secretary will re-submit the revised minutes to the group before January 10th.

2 Review of Previous Outstanding Assignments

2.1 Closed

None

2.2 New

- 60-1 Finalize IRM Report by January 6, 2006 under the responsibility of all members.

2.3 Revised

- 56-1 Write the procedure for the unified method.
- 59.3 Prepare schedule of ICS activities for first half of 2006.

3 Sensitivity Cases

Greg Drake presented the sensitivity analysis results and proceeded to explain the methodology used for this analysis. For each of the sensitivities Mr. Drake started with the base case and made the changes necessary to model the sensitivity. Then Mr. Drake removed or added capacity to each zone in proportion to its share of the total NYCA capacity for July. This process was repeated until an LOLE of 0.1 days/year was attained.

Bart Franey objected to this method of performing the sensitivity tests. He felt that the methodology should have "locked" the LCRs at the level corresponding to the IRM base case (82% NYC, 99.5% LI) and then computed the impact of the parameter changes to the IRM only without moving the LCRs. Mr. Franey said that he believed that this was what the Executive Committee had approved based on Mr. Dahl's motion at the January meeting. Mr. Dahl stated that under the unified methodology the resource adequacy involves the calculation of both IRM and LCR and that this was the basis for the sensitivity tests process.

John Pade responded to Mr. Franey by pointing out that this approach produces extremely distorted results. In some sensitivity cases, Mr. Franey's approach will not yield an LOLE of 0.1 days/year. For example, in the NYCA Isolated Case, even with an infinite IRM, a NYCA LOLE of 0.1 could not be achieved because the "locked" LCRs would be too low. 82% for NYC and 99.5% for LI are too low without outside world assistance no matter what the IRM is. For this reason, General Electric and NYISO collaborated with AI

Adamson and Frank Vitale in recommending the methodology that Mr. Drake used to conduct the sensitivity cases.

Mr. Dahl added that the ideal way to do sensitivity testing is to generate a separate LCR/IRM curve and determine the Tan 45° point for each case. This would clearly show both the IRM and LCRs relationship on each of the sensitivities. However because of the time constraints imposed by the IRM study schedule, the group cannot produce the multiple curves.

The ICS members then reviewed the Table 1 results and asked for an explanation of the nomograms used in Case 19 sensitivity. Mr. Drake will forward an email from Bill Lamanna with the details.

Consequently, Al Adamson explained how the Table 2 results were calculated. Mr. Adamson used the LOLE results presented by Mr. Drake on the October 5th meeting and logarithmically extrapolated the base case IRM using the LOLEs. The ICS members did not have any objections to the methodology used by Mr. Adamson.

4 Review of the 2006-2007 IRM Study Report

The group reviewed the IRM report and concentrated its comments on Tables 1 and 2. The comments were mainly clarifications about the implementation of the sensitivities or editorial corrections. Mr. Pade will include in the report a paragraph on how Table 1 was developed.

Glenn Haringa explained to the group the confident levels of the IRM study. He gave the following example from last year's (2005) IRM study;

- At an IRM of 17.1% there will be a 0.15% probability of meeting an LOLE of 0.1 days/year.
- At 17.6% there will be a 50% chance of meeting an LOLE of 0.1 days/year
- At 17.9% there will be a 99.85% chance of meeting an LOLE of 0.1 days/year.

The sentence in the executive summary that explained the confident levels was removed from the report because it was not clear. The document will be sent to the EC committee by January 6th.

5 ICS Activities for First Half of 2006

Carlos Villalba asked the members to review the MARS representation of the interaction of Athens with the UPNY/SENY interface in particular to how the Athens units and the UPNY/SENY interface are expected to operate to maintain system reliability.

Mr. Pade and Mr. Drake presented the estimated NYISO man-hours that were allocated to provide MARS modeling support for the 2006 resource adequacy studies. They allocated approximately 2,000 man-hours to the Installed Reserve Margin study. The resource adequacy work for 2006 consists of:

Annual Studies (IRM, LCR, RNA, NPCC annual, Transmission Expansion, External ICAP Analysis, and NYSRC three-year), Special Studies (NPCC triennial, IPSAC, and NPCC assistance), New Requested Studies (Upstate/Downstate, Horizon Year, and ISONE/NYISO), and other work. The ICS members asked for a breakdown by percentage of each task for the 2006 calendar year.

The ICS will revisit this item during the next meeting.

6 Committee Reports

John Charlton updated the ICS regarding the ICAP working group issues on deliverability, capacity prices comparison between summer and winter, and LIPA's intention to file for the UDRs.

7 Other Business

Carlos Villalba is now the new secretary of the ICS committee.

8 Review Action Items

See attached action item list.

9 Next Meeting

January 30, 2006 Meeting # 61

Secretary – Carlos Villalba