

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. John Pade (NYISO)
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. 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. The ICS endorsed these minutes with only minor editorial corrections.

1.2. Administrative

Effective immediately, John Pade has assumed expanded duties at NYISO and will be now coordinating NYISO technical support for the NYSRC-ICS Team.

2. Review of Action Items (AI) List #58

CLOSED Action Items:

- **55-1** – The description of the modeling of wind resources is included in the draft 2006 IRM Study.
- **57-1, CC22-1, CC22-2 and 58-2** – These are sensitivity cases that will be added to the 2006 IRM Study.
- **58-1** – The dynamic interface nomograms are completed and are in the MARS model for the 2006 IRM Study.
- **58-4** – The study scope for the Upstate/Downstate Superzone Study was presented at the November 10, 2005 EC meeting.

NEW Action Items:

- **58-3** – Per #58 Meeting Minutes, Steve Jeremko will provide Curt Dahl with PJM fuel-related information for incorporation in the fuel availability white paper.

REVISED Action Items:

- **56-1** – The procedure explaining the unified method has been rescheduled for completion by 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 changes in transmission topology. He believes that two-thirds of voltage-related issues are due to increasing loads in the Lower Hudson Valley.

Interface Nomograms:

Mr. Lamanna also presented the following dynamic interface nomograms:

- When the load in zones G-J is at 90% of the annual zonal peak load or greater, the interface grouping of I-J and I-K is reduced by 300 MW from 4,970 MW to 4,670 MW.
- When the load in zones G-J is at 90% of the annual zonal peak load or greater — and the Poletti unit is also unavailable, the interface grouping of I-J and I-K 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-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 unavailable, the UPNY/ConEd limit is reduced by 300 MW — from 5,000 MW to 4,700 MW.
- When load in zones G-J 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 unavailable, 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-J and the I-K interfaces, new interface groupings are also created for UPNY/ConEd and G-PJM-East.

Exclusion of Ravenswood 3 Nomogram:

Bill Lamanna indicated that Ravenswood 3 is not part of the nomogram. The rationale for this representation was laid out in the memo issue by Mr. Pade on the “Transmission System representation Used in the 2006 IRM Study“

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

4. Sensitivity Cases

In order to provide timely sensitivity information to the EC by December 9, the ICS prioritized the top six sensitivity cases (by degree of importance):

1. NYCA isolated
2. No load forecast uncertainty

3. Remove EDRPs and SCRs
4. No voltage reductions
5. Thermal limits only (completed)
6. 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

The ICS provided feedback on the initial draft IRM report prepared by Al Adamson and Greg Drake. A revised draft will be completed by December 2, 2005 for final ICS review prior to distribution of the report to the EC on December 9

6. Upstate / Downstate Superzone Study

Pending EC approval of the work scope, the Upstate / Downstate Superzone Study will be conducted after completion of the 2006 IRM Study.

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) may be better equipped to do this work. Mr. Dahl will advise the EC at their December 9, 2005 meeting of the status of this proposed Joint NYISO / ISO-NE Study, including the possibility of GE involvement.

8. NYISO Committee Reports

Installed Capacity Working Group (ICAPWG):

John Charlton's ICAPWG briefing highlighted the following activities:

- Finalizing the rules on the intermittent resources
- Improving DMNC (Dependable Maximum Net Capability) requirements
- Revising the rules of UDRs (Unforced Capacity Deliverability Rights) to allow partial usage of controllable lines to import external ICAP
- Working on annual update of ICAP demand curve

Mr. Charlton also noted serious concerns with under-performance of SCRs (Special Case Resources) during the July 27 record peak day. It was estimated that roughly half of the SCRs that were called to reduce load actually responded. By contrast, the NYISO expected that SCR response performance to reach 95%. The Price

Response Load Working Group (PRLWG) is now evaluating the 2005 performance of the 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. Mr. 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