

# **NYSRC Installed Capacity Subcommittee**

Meeting #29

**June 6, 2003**

**9:30 a.m. – 3:00 p.m.**

**NYISO: Wash Ave Ext. Conference Room WD**

Meeting Minutes

## **Attendees**

### Members/Alternates Present:

Mr. Curt Dahl (KeySpan/LIPA) – Chairman  
Mr. Kevin Donnelly (Con Ed) – Secretary  
Mr. Joe Fleury (NYSEG)- Telephone  
Mr. Bart Franey (NGRID)  
Mr. Peter Chamberlain (Wholesale Sector) -Telephone  
Mr. Michael Hogan (CHGE)  
Mr. Steven Jeremko (NYSEG)  
Mr. Mark Cordeiro (Municipals)- Telephone  
Mr. Carl Courant (NYPA)- Telephone

### Advisers/Non-member Participants Present:

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

### Other interested Parties:

Mr. Glenn Haranga (GE)  
Mr. William Chiume (NYISO) – For Load Discussion  
Mr. Harry Josher (PSEG)  
Mr. Bill Lamana (NYISO) – For Action Items on Transmission

### Members/Non-members/Advisers Absent:

Mr. Steve Keller (NYPSC)

## **1. Meeting Minutes Review**

### **1.1. Finalized Meeting Minutes from Meeting #28 on 5/02/03.**

## **2. Reviewed previous Outstanding Assignments**

## **3. Pre- 2004-05 IRM Study Modeling Issues**

### **3.1. Load Data Requirements**

Con Edison created a load uncertainty model for their service area, Zones H, I and J, but requires refinement with NYISO. Action item 26-7 remains open. Action item 28-1 to provide a graph of 2002 Load vs the average plus the uncertainty model remains open. Comparison is to see if the load fell within the average plus the uncertainty model. Received presentation on weather pattern history for NY.

### **3.2. SCR/EDRP- NYISO Modeling Proposal**

NYISO provided action item 28-8, the graph was IRM results based on limiting number of days SCR's can be called. Started with last year and no limits, with over 30 calls, then began limiting number of calls. But, MARS counts each zone separately, so on 1 day, an SCR call in all areas could be 11 different calls. MARS will be updated to count individual days of calls. Mr. Drake will add an expected outcome on IRM vs # of calls to the graph. Action item.

### **3.3. Testing of NE/ External Control area Models**

Mr. Drake completed the New England study, action items 25-12 and 25-13 are closed. The results show that New England's internal transmission model does not have a significant affect on the assistance provided into New York. Therefore, New England can remain modeled as a single area instead of a multiple zone model with internal transmission constraints. This allows for shorter MARS run times. Other external areas will remain model as single areas as they were in last years study.

### **3.4. GADS data/EFOR'd Model Issues**

NYISO concern about validity of GADS data: Action items 28-2 to review DMNC values against what was seen as actual performance and 28-3 to review statewide Step-up transformer outages that may need to be included in the data remain open. These action items are part of the continued evaluation by NYISO of the GADS data.

Forced Outage Model for Generators: Splinter Group presented recommendation to use 5 Year Forced Outage Rates under Demand (EFORd) rather than 10 Year EFORd. Based on trend since NYISO inception, 5 year model appears to be a better predictor of what to expect for the next year. Concerns were raised about the change as 3 years worth of history does not guarantee performance in the future and a concern about the financial incentives that could effect how a generator is reporting their data. To ensure agreement before a change is initiated, Action item 29-3 is to include generator performance for the first part of 2003 on the EFOR'd chart, provided under previous action item 25-8 to ensure trend is continuing. Action Item 29-4 for NYISO to find EFOR'd trends in PJM and NERC. Also, Action item 28-2 and 28-3 have to be completed by the NYISO to ensure validity of most recent data.

As part of the 5 year EFORd proposal, using 3 years worth of actual GADS data on units that only reported data for the last 3 years was proposed. Action Item 29-5 is to determine how many units only have 3 years worth of data and to review what was used in last years

model for these units, class averages or some other data. Action item 29-6 is to test effect of using 3 years worth of GADS data on units at Linden and Independence instead of the class data used in the program.

**3.5. PV-20 Import Limit**

Action item 27-2 is closed; the test run with the limit set to zero in both directions confirms no effect. Action item 28-5 for Mr. Lamina to review if PV-20 transformer outage has an affect on any other transfer interfaces with NE is on going.

**3.6. Dynamic Transmission System Limits & Groupings**

Action Item 26-1 for NYISO to determine if using dynamic interface ratings operates correctly in MARS is completed. Test case of Arthur Kill units and PJM-Zone J interface ratings used. Action Item 26-2, Phase 1, creating the new topology is continuing. NYISO will also look at creating a separate generation sub-zones as part of new topology to better capture the effects of generation units and their affect on the UPNY-SENY interface (Zone E, F and NE into Zone G). Phase 2 will be to update the interface ratings between all zones as required. Item 27-3 remains open to test the new topology when this is completed.

**3.7. NYISO model for Multiple Units instead of Single Units**

NYISO completed the test runs for splitting Athens, Independence and Linden into multiple unit sights. Action items 26-5,26-4 and 27-4 are closed. Action item 28-4 to understand why Athens in the isolated case raised the LOLE remains open. GE stated the most likely reason is the additional units changed the order or random seed for each generator, affecting the results. Test run with Athens units at end of unt-data file will be done as part of this action item.

**3.8. Temperature Derate for Gas Turbines**

Action item 25-9 remains open, GE expects update with new derate logic to be delivered to NYISO by June 30, 2003.

**3.9. EOPs**

The NYISO is reviewing the actual usage of EOPs. NYISO is reviewing the order used in the model compared to how they are normally implemented. Operators have discretion to implement as necessary, but there is a general order to their flow. SCR's are considered capacity resources therefore they will be called as the first step. Action item 29-2 created to run last years model implementing SCR's before operating reserve. Action item 28-6 remains open, GE is reviewing why the IRM changed when the NYISO updated the locations of the operating reserve.

**3.10. MARS executable**

New Executable scheduled to be delivered to count EOP's by days to be delivered next week, and a final new executable with ability to derate GT's by June 30.

**3.11. IRM Method Comparison**

The initial resulting LOLE in the Installed Reserve margin calculation is less than 0.1 days/year based. The reliability requirement is how much capacity is required at an LOLE of 0.1 days per year. The MARS results must be adjusted to determine what that required capacity is. Currently, the model is adjusted by adding additional load to all areas of the NYCA on a weighted basis (based on each areas % of the load).

One of the model inputs is forecasted load for each zone, and an uncertainty probability model for this load. When additional load is added for the LOLE adjustment to 0.1 days per year, the uncertainty model has an added effect on this additional load.

Since the effect this process is attempting to model is to reduce capacity, it was proposed that we remove capacity equally on a percent basis from all units. Reducing capacity may provide a different result. Action Item 29-2 initiated to run the comparison by using last years base-case.

- 4. Policy 5 Guideline for establishing NYCA Installed Capacity Requirements**  
Reviewed draft policy document led by Mr. Adamson. Edited the document page by page. Final version to be sent out by end of next week.
- 5. IRM Workshop**  
Reviewed the draft schedule and presentations. Asked for a reminder for registration be resent. The date for this meeting is Friday July 11, 2003.
- 6. Committee Reports**
  - 6.1. Resource Adequacy Model (RAM) Group Meeting**  
No Discussion due to time constraints.
  - 6.2. NYISO ICAP Working Group Report**  
No discussion due to time constraints.
- 7. Other Business**  
No Other business discussed.
- 8. Review Action Items**  
See attached action item list.
- 9. Next Meeting**  
**July 8, 2003 Meeting #30 9:30 am – 3:30 pm**

Secretary: Kevin Donnelly