

***Meeting of the  
New York State Reliability Council, L.L.C. (NYSRC)  
Reliability Rules Subcommittee (RRS)***

***Final Minutes of Meeting #113  
RRS Meeting @ NYSERDA Offices  
17 Columbia Circle, Albany, NY***

***Thursday, November 06, 2008***

**In Attendance:**

Larry Hochberg	NYPA	Member
John Adams	NYISO	Member
Al Adamson	Consultant	Member
Roy Pfleiderer	National Grid	Member
Henry Wysocki	Con Edison	Member
Roger Clayton	Chairman	Member
Brian Gordon	NYSEG (Secretary)	Member
David Mahlmann	NYISO	Guest *
Robert Ganley	LIPA	Member
Jonathan Appelbaum	LIPA	Member
Edward Schrom	NYSDPS	Member
Dean Ellis	NYISO	Member
John Hickey	NYISO	Guest *
Rob Pike	NYISO	Guest *
Matthew Lazarewicz	Beacon Power	Guest *
Todd Ryan	Beacon Power	Guest *

\* Denotes part time attendance.

**Agenda Items**

**1.0 Introduction**

Meeting 113 was called to order by Mr. Clayton at 09:33.

**1.1 Executive Session**

No Executive Session was requested.

**1.2 Requests for Additional Agenda Items**

The next RRS meeting re-scheduling issue was assigned to agenda item 4.3. The Beacon Power Flywheel Generator presentation was placed as agenda item 4.4.

## **2.0 Meeting Minutes/Action Items**

### **2.1 Approval of RRS Meeting #112 Minutes**

The minutes of RRS Meeting #112 were approved with changes as final.

Mr. Adams will review status of the inclusion of BPS testing in SRIS study process (**AI 113-1**). Mr. Ganley will consider a change to the reliability rules that would conform to Directory A-6 that references one hour sustainability of operating reserves for generation resources (**AI 113-2**).

### **2.2 Action Items List**

The following Action Items were reviewed:

**AI 112-1** BPS testing be a part of the SRIS process

NYISO has been considering this topic. Change the status to closed.

**AI 112-2** Reactive testing impact on market issue concern to the EC

Change the due date to 12/04/2008.

**AI 112-3** Discuss PRR96 line five with Mrs. Whitaker

Change the status to closed because it was completed.

**AI 112-4** Review PRR 96 compliance items with RCMS

Change the status to closed because it was completed.

**AI 112-5** Raise three options at EC about BPS definition

Change the status to closed because the EC was made aware of the BPS definition activity of RRS.

**AI 112-6** Revise facility list applicable to reliability rules as discussed.

Change the status to closed because it was completed.

**AI 112-7** D-R1-4 reliability rule impact based on Directory A-6

No impact was identified by Mr. Ganley.

**AI 112-8** Provide technical and economic impact of Northport Tie STE Exception

Change the status to closed because it was completed.

**AI 112-9** Deliverability testing item to ICS

Change the status to closed because it was completed.

AI 112-10 RPWG study question of what equipment caused the power factor adjustment in the Hudson Valley

The load power factor was the power factor adjustment made to the study in the Hudson Valley. Change the status to a closed because it was completed.

### **3.0 NYSRC Reliability Rules (RR) Development**

#### **3.1 List of Potential RR Changes**

RRS reviewed the list of potential rule changes.

##### PRR 96 Align measurements with revisions to NPCC Directories A-9 and A-10

Modifications were made to page 2 line 8A level 2 and level 4 that “Documentation of” should remain. Level 4 should also state “C-M1”. Line 8C deals with an additional item “gross reactive power”. PRR96 is approved to recommend to EC for posting.

##### PRR 97 Bulk Power Definition

The discussion reviewed progress to date on a BPS definition. Planning lists and operating lists have been defined over a period of time with many different criteria. The A1 and A2 lists are difficult to redefine. The ATR list is easier to redefine and does change at five year intervals. It is very difficult to reverse engineer these historically based lists. If starting all over again, it would be assumed that the operating list and the planning lists would be the same and based on the same criteria. Additional discussion was focused on list recombination with many concerns raised. Mr. Clayton will request through the EC an investigation into the possibility of changing the NYS Bulk Power System definition into the NYISO Secured Facility terminology while keeping all NYISO lists as they currently are defined. (AI 113-3)

##### PRR 99 G. System Restoration

Mr. Mahlmann described a black start definition problem. The definition can relate to three hydro mentioned in the SRP, three hydros mentioned in SRP plus tariff procedure black start units or all black start capable units. G-M1 addresses NYISO responsibilities, G-M2 addresses transmission owner responsibilities, and G-M3 addresses black start unit provider responsibilities. Mr. Clayton requested a sub group be established with Mr. Mahlmann, Mr. Adamson, and Mr. Appelbaum to refine PRR 99 for the RRS. (AI 113-4)

#### **3.2 NPCC Criteria**

##### NPCC Criteria Revisions

No comments for Operating Reserve Criteria A-6 were generated by NYSRC RRS.

#### **3.3 NERC Standards**

## NERC Standard Tracking

Mr. Clayton reported on the FAC 011-1 SAR process with no new progress to report. Mr. Adamson voted yes on the two recent votes. Mr. Appelbaum reported that FAC003 has a new revision.

## **4.0 Additional Agenda Items**

### **4.1 Request for Northport Tie STE Exception**

Mr. Appelbaum presented technical paper concerning Northport Ties STE Exception. The exception is requested for periods of time where only one of three cables is in service. This is usually during times of switching one of the cables out of service for a limited time period. The contingency is for the loss of a Millstone unit and the result is that the remaining cable post – contingency flows are in excess of the LTE limit. The exception was requested by Mr. Ravalli to allow post – contingency cable operation up to the STE limitation. Brief review of the reliability rules appear that the cable can operate up to STE limits under the existing rules. Mr. Adams will ask Mr. Ravalli why the exception was requested (AI 113-5)

### **4.2 NYSRC RRS 2009 Meeting Schedule**

No discussion meeting schedule was presented to the RRS.

### **4.3 NYSRC RRS December 2008 Meeting**

A conflict with the December meeting was brought forward to the RRS because RCMS was meeting on the same day. Due to scheduling limitations at this point the RRS will still hold meeting on December 4, 2008.

### **4.4 Beacon Power Presentation**

Beacon Power, represented by Mr. Lazarewicz and Mr. Ryan, provided a 20 MW flywheel generation technical brochure and a Flywheel Based Energy Storage Regulation Service PowerPoint presentation. The presentation described the ability of a flywheel generation facility to provide MW regulation service to the electrical grid. Beacon power fully described the technical capabilities of the 20 MW flywheel facility. Mr. Hickey provided a Limited Energy Storage Resource (LESR) PowerPoint presentation which presented in what ways a flywheel energy storage facility can be integrated into the NYISO market to provide MW regulation service. At the present, it does not appear that there is any reliability rule that would prohibit the use of a LESR. At NPCC there may be a concern due to the one hour sustainability requirement for operating reserves. NPCC Document A-6, where this requirement resides, is currently under review and may definitely impact the application of LESR in supplying ancillary services such as MW regulation service.

## **5.0 Committee Reports**

### **5.1 ICS Report**

The first draft of the IRM report is to be presented to the EC next week.

## **5.2 RCMS Report**

A report is to be presented to EC on G-M5 GADS non-compliance. The report includes seven recommendations.

## **6.0 Next Meeting**

Meeting #113 was adjourned at 15:18.

The next meeting (#113) is scheduled for Thursday, December 4, 2008 at 9:30 in the NYSERDA offices located at Columbia Circle, Albany, NY.