

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

***Final Minutes of Meeting #101  
RRS Meeting @ NYSERDA Offices  
17 Columbia Circle, Albany, NY***

***Thursday, November 1, 2007***

**In Attendance:**

Roger Clayton	Electric Power Resources (Chairperson)	Member
Robert Waldele	NYISO	Member
John Adams	NYISO	Member
Ted Pappas	LIPA	Member
Jack Alvarez	Con Edison	Member
Larry Hochberg	NYPA	Member
Jeff Crandall	NYSEG	Member
Al Adamson	Consultant	Member
Ed Schrom	DPS	Member
Roy Pfleiderer	National Grid	Member
Valerie Strauss	Alliance for Clear Energy New York, Inc.	Guest
Josh Berkow	BQ Energy	Guest
Eric Barrevelo	ENEL North America	Guest
Scott Winneguth	PPM Energy	Guest
Adam Sotirakopoulos	ENEL North America	Guest
Brian Lacoste	ALCOSTE	Guest
Eric Miller	INVETERGY	Guest
Kimberly Harriman	Multiple Intervenors, Couch White LLP	Guest

**Agenda Items**

**1.0 Introduction**

The meeting was called to order by Mr. Clayton at 9:30 a.m.

**1.1 Executive Session**

No Executive Session was requested.

**1.2 Requests for Additional Agenda Items**

The following additional agenda items are reported in Section 4.0

4.1 Discussion of wind turbine design and the reliability rules.

4.2 ISO NE paper on the effect of high gas prices and the availability of electric generation.

4.3 Discussion of “minimum oil burn” (MOB) issues.

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

### **2.1 Approval of RRS Meeting #100 Minutes**

The draft minutes of RRS Meeting #100 were approved as final with minor corrections.

### **2.2 Action Items List**

The following Action Items were reviewed,

**AI 39-10** Send any new draft SARs or OSs to RRS for its consideration (Adamson)  
This item is ongoing.

**AI 43-1** Monitor progress of NYISO investigation of governor response (PRR 52).  
(Waldele)

Mr. Waldele reported updated activity of the SS-38 Working Group.

**AI 43-9** Monitor the potential need to revise definition of NYS Bulk Power System.  
(Waldele)

Mr. Waldele reported on the activities of the NPCC CP-11 Working Group.

**AI 52-1**, Based on results of post 8/14 studies determine if new/revised rules are required regarding definition of areas and tripping times on UFLS relays. (PRR52)(Waldele)

Mr. Waldele reported that the NPCC SS-38 Working Group completed their review and will issue report soon.

**AI 83-8** Review RFC and ISO-NE Criteria, Rules and Standards (RRS)  
This item is ongoing.

**AI 84-1** Complete PRR 84 following NPCC approval of A-3.

Mr. Pappas reviewed A-3 and reported that there was no need to change any of the reliability rules.

**AI 87-5** RRS to monitor Reactive Power WG discussions on NERC Rules regarding generator reactive capability. (RRS) This item is ongoing.

**AI 88-5** RRS to monitor Wind Generator Structural Performance for PRR application. (RRS) This item is ongoing.

See commentary under agenda item 4.1.

AI 91-3 Mr. Waldele to monitor NERC standards MOD-024,MOD-025,VAR-001 & VAR-002 and the NPCC implementation of them with the objective to examine the need to change the NYSRC rules; these standards will be discussed at the NYISO RPWG.  
(Waldele)

This item is ongoing.

AI 93-2 Ted Pappas will review System Restoration Criteria (A-12) for potential rule changes (Pappas)

This item is ongoing.

AI 94-3 John Adams will report on the NYISO's position on issues brought forth in NYPA's presentation on Loss of Generator Gas Supply. (Adams)

This item is ongoing.

AI 98-3 Mr. Waldele will review the wording of Rule #17 and #18 of the Reliability Rule Exception List. (Waldele)

This item is complete.

AI 98-6 Mr. Waldele to provide a discussion on the studies which the NYISO conducts that may be used to indicate compliance with the "(N-1)-1" criteria.(Waldele)

Mr. Waldele indicated that the NYISO is discussing how to implement the criteria in their studies.

AI 100-1 Mr. Adamson to provide an updated listing of the Exceptions List to the RRS members for review and comment.

This action item is related to changes being made to Policy 1-5 on "Exceptions to the NYSRC Reliability Rules", and to PRR #94. This item is completed as of 11/01/07.

AI 100-2 RRS members will review and comment on the revised Exception list provided by Mr. Adamson prior to the next RRS meeting.

This action item is related to changes being made to Policy 1 on "Exceptions to the NYSRC Reliability Rules", and to PRR #94. This item is completed as of 11/01/07.

AI 100-3 Mr. Clayton to go back to the EC and question their action item assignment to RRS regarding the ability of the NYISO to meet LOG criteria or perhaps to change the EC minutes regarding the action item.

This item is completed as of 11/01/07.

## **2. 2. 1 The following new action items resulted from this meeting's discussions:**

AI 101-1 Ms. Strauss will provide additional data and commentary on wind turbine failure incidents from available 'industry sources.

AI 101-2 Mr. Clayton will provide to RRS a copy of the NYISO report called "Integrated Pending Environmental Initiatives into the NYISO 2008 Reliability Needs Assessment".

AI 101-3 Mr. Clayton will bring to the EC that RRS recommends the final approval of PRR 93, and to adopt it subject to any further comments received prior to 11/12/07.

AI 101-4 Mr. Waldele will investigate the concept of NYISO controlled and NYISO secured facilities as it relates to the definition of a 'bulk power facility'.

It was noted that a NYISO controlled facility is 'not' the same as a NYISO secured facility.

AI 101-5 Mr. Hochberg will discuss with NYPA the sponsorship of a new PRR #96 which will require a 'loss of gas' contingency study in the planning horizon.

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

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

RRS reviewed the list of potential rule changes.

##### **PRR 8 - Reactive Load and Resource PF Requirements at BPS/LSE Boundaries (Waldele)**

There is nothing new to report on this item.

##### **PRR 52 - Generator Governor Response (Waldele)**

There is nothing new to report on this item.

##### **PRR 84 - Revision to F-R8 Operations during major emergency (Pappas)**

There is nothing new to report on this item.

##### **PRR 93 D-R3: Availability and Category of Operating Reserves & I-R2: Locational Reserves (New York City)**

RRS approved the PRR as final contingent on the receipt of no comments.

##### **PRR 94 Review of Exceptions to the NYSRC Reliability Rules**

PRR was posted for comments and Policy 1-5 was accepted as final. New changes to the recent list of "Exceptions", need to be submitted and go through the approval process. Con Edison had submitted some new changes which will need to go through the approval process.

#### **3.2 NPCC Rules Revisions Update**

The NPCC Criteria Revision Tracking Summary table was reviewed.

Mr. Crandall provided NYSRC/RRS comments to the NPCC 'A-14' document on October 30, 2007.

Mr. Crandall will review revised NPCC 'A-13' for changes that may affect the reliability rules.

Mr. Pappas reports that NPCC 'A-5' does not require any changes to be made to the NYSRC rules but there are references to A-5 that need to be added to certain sections of the reliability rules.

### **3.3 NERC SAR /Standards Update**

The NERC Reliability Standards Tracking Summary Table was reviewed.

3.3.1 Mr. Clayton provided comments on the proposed "Adequate Level of Reliability" (ALR) definition which were based on discussion at the previous RRS meeting.

### **4.0 Additional Agenda Items**

**4.1** Ms. Strauss and guests discussed wind turbine failure issues. It is rare that a wind tower will fall. There is concern about locating towers within the transmission line right of way and if the clearances are sufficient. R. Clayton stated that RRS does not create design standards, it only addresses reliability criteria.

- Mr. Scott Winneguth – commented on the tower collapsed in Oklahoma which was due to excessive rotor speed. Investigation showed that the damage field extended 140 meters. He also commended on the Oregon collapse which was due to a similar cause. There the damage field extended 150 meter field to 180 meters. Towers in both collapses were made of tubular steel, but the foundations remained intact.

Other considerations mentioned when constructing a wind turbine included -

- Design includes a 150 meter 'throw distance' field,
  - Noise concern up to 1000 feet,
  - 1.1 to 1.5 times the height to the tip of the turbine blade setback from the property line,
  - Use standards similar to 'telecom' towers for 'fail-safe zone' setback.
  - 'Ice liberation' and flying ice safety issues,
  - Need additional sources of wind turbine
- 
- R. Clayton asked about his statistics, which came from a website, regarding the excess 'throw distance' that averaged 200 meters. Data was based on European incidents.

Ms. Strauss was asked to provide additional data on wind turbine failure incidents from available 'industry sources'.

See action item 101-1.

- Ms. Strauss provided data which came from the AWEA 2006 Fall Symposium, and is based on Danish experts:
  - There has never been a case of a turbine blade being tossed and hitting a person.
  - With 5000 turbines in Denmark – they toss ~ 1 blade piece per year.
  - There are 200 – 300 meter setback limits for sound in Denmark but not for transmission lines or other facilities.

**4.2** Mr. Pappas discussed ISO-NE paper on the relationship of high gas prices and the availability of electric generation if the prices are high thereby making gas short. ISO-NE study does not address a ‘loss of gas’ contingency study.

Mr. Waldele says that NYISO is looking at the issue with gas shortages as it affects generation in the CRP study – as a resource adequacy issue but not as a gas contingency analysis.

**4.3** Mr. Clayton asked Mr. Hochberg to inquiry if NYPA would be willing to sponsor a proposed reliability rule change that would require the NYISO to study the ‘loss of gas’ contingency in the planning horizon. See action item 101-5.

## **5.0 Committee Reports**

### **5.1 NYSRC EC Report**

Minutes of NYSRC EC meetings are available at <http://www.nysrc.org/documents.html>.

### **5.2 ICS Report**

Minutes of NYSRC ICS meetings are available at <http://www.nysrc.org/documents.html>

### **5.3 NYSRC RCMS Report**

Minutes of NYSRC RCMS meetings are available at <http://www.nysrc.org/documents.html>.

## **6.0 Next Meeting**

Meeting #101 was adjourned at 2:15 p.m. The next meeting (#102) is scheduled for 9:30 a.m. on Thursday, December 6, 2007 at the NYSERDA offices located at Columbia Circle, Albany, NY.