

***Final Minutes
New York State Reliability Council, L.L.C. (NYSRC)
Reliability Rules Subcommittee (RRS)
Minutes of Meeting #55***

***RRS Meeting @ NYISO Offices
Washington Ave. Extension, Albany, NY***

Tuesday, January 6, 2004

Attendance

Roger Clayton (Chairperson)	Conjunction	Member
Steve Corey	NYISO	Member
Larry Hochberg	NYPA	Member
Alan Adamson		Consultant
Ray Kinney	NYSEG	Member
Hebert Joseph	PSC	Member
Ted Pappas (Secretary)	LIPA	Member
Larry Eng	National Grid	Member
Mike Gildea	Constellation Energy	Market Participant

Agenda Items

1.0 Introduction

The meeting was called to order at 0930.

1.1 Executive Session

No Executive Session was requested.

1.2 Requests for Additional Agenda Items

No new agenda items were added under agenda item 4:

2.0 Meeting Minutes/Action Items

2.1 Approval of RRS Minutes #54

The minutes of RRS Meeting #54 were approved as amended. Mr. Pappas will issue the final minutes.

2.2 Action Items List

The action items list was reviewed and updated. An updated action items list is attached.

AI 39-3, Monitor FERC response to short circuit issue (Clayton/Corey).

This is still in dispute resolution process.

AI 39-10, Send new draft SARs and OSs to RRS for consideration (Adamson)

Ongoing

AI 43-1 (Δ RR52), Monitor NYISO investigation of governor response and UFLS program (Corey/Alvarez/Pappas)

These issues are becoming part of the blackout investigation. Also see section 3.1 for a discussion on UFLS.

AI 43-9, Monitor the potential need to revise the definition of the NYS Bulk Power System (RRS)

NPCC CP-11 WG is to undertake this issue; however, it has not yet been addressed.

AI 48-4, Provide update on the NYISO/NYSERDA wind energy study (Corey)

The Phase 1 draft report was received by the NYISO for review. A meeting between the vendor, NYISERDA and NYISO is scheduled for 1/7/04. The report is scheduled to be finalized by the end of January 2004. Mr. Clayton requested a copy of the report for RRS review. **(AI 55-1)**

AI 50-1 (PRR 59), Review NYISO package in regards to SEAMS issues related to changing restoration times of operating reserves to match ISO NE (RRS)

NYISO has not yet provided the requested information. Mr. Pappas will contact Mr. Adams of the NYISO inquiring about the status of the information and the NYISO interest in continuing to request this change. **(AI 55-2)**

AI 52-1, Determine the need for new rules regarding the definition of areas and tripping times on UFLS relays as a result of the blackout (Corey)

See information under Δ RR52 in section 3.1. Mr. Corey also reviewed the proposed blackout study plan for TFSS. The group will be focusing on the period 1606 through 1625 on August 18, 2003. Six major tasks have been proposed:

- Compile data
- Replicate the events and save “snapshots” of critical stages
- Review “post islanding” performance
- Evaluate island creation

- Review general system design performance issues
- Summation and final report

AI 53-2, Research NPCC/NERC criteria for information on frequency of communications testing for non restoration type events (Pappas)

This item will be closed. Also see ΔRR67 in section 3.1.

AI 54-1, Larry Eng to give a presentation of UFLS studies by NPCC (Eng)

This item will be closed. Larry Eng provided materials on January 4 and gave the presentation on January 6.

AI 54-2, Provide comments to Mr. Adamson on A2 rev 10b (Clayton)

See Section 3.2.

AI 54-3, Provide comments on A2 rev 10b to Mr. Clayton (RRS)

See section 3.2. No additional comments received. This item will be closed.

AI 54-4, Write recommendation to EC to ballot yes on RS-2 (Adamson)

After additional review after meeting 54, it was determined to recommend a no vote to the EC on this item. The details are discussed in the minutes of meeting 54. Also see section 3.3. This item will be closed.

AI 54-5, Talk to Mr. Adams regarding RRS participation in SAR drafting (RS-3) (Adamson)

Nothing new to report

AI 54-6, Prepare comments on RS-4, Standard 600-Determine Facility Ratings, Operating Limits and Transfer Capabilities (Adamson)

See section 3.3. This item will be closed.

3.0 NYSRC RR Development

3.1 List of Potential RR Changes

RRS reviewed the list of potential rule changes as follows:

ARR 8 - Reactive Load and Resource PF Requirements at BPS/LSE Boundaries

A template will be prepared after the operating study is completed and accepted. The desired result is defined parameters at the interface between the bulk power system and the underlying transmission system.

ARR 52 - Generator Governor Response

These issues are becoming part of the blackout investigation. Mr. Eng gave a presentation summarizing the SS38 report on UFLS.

- Simulation results for the New York and New England Areas indicate that the UFLS program as presently defined in NPCC criteria and guidelines is inadequate to arrest frequency decline and ensure an acceptable recovery following formation of an island with a 25 percent generation deficiency. It should be recognized that both Areas are in compliance with requirements of the existing program. Modification to the UFLS relay time delay from 0.75 s to 0.4 s or less would allow all Areas in NPCC to meet the objectives of the UFLS program. While a setting of 0.4 s would meet the objectives of the NPCC UFLS program, a shorter time of 0.3 s would provide greater margin in the system design to allow for uncertainties such as load response modeling
- Modifications to the UFLS program can be implemented to ensure the minimum system frequency observed following a 25 percent generation deficiency will be no lower than 58.0 Hz. If implemented, Section 4.6 of the A-3 Criteria could be modified to stipulate that the UFLS load shedding steps in Sections 4.6.1 and 4.6.2 are intended to limit the frequency decline to a minimum frequency of 58.0 Hz. Such modifications, if implemented, would also allow consideration of exempting existing nuclear unit protection settings from the requirements of Figure 1 in the A-3 Criteria, or could allow consideration of modifications to Figure 1.
- Limitations on non-conforming generation and equivalent compensatory load shedding would improve the reliability of the UFLS program. A limitation of 1 percent of Area load could be considered, with amounts in excess of 1 percent to be allowed when proven by studies that the greater amount will not prevent the UFLS program in that Area from meeting the objectives set forth in the NPCC Criteria
- The predominant factor in arresting frequency decay associated with a generation deficiency is the shedding of load initiated by the UFLS program. The predominant factor in recovering the frequency to 59.5 Hz within 30 seconds is the governor response of the generating units in the island. Governor response also is critical to controlling frequency overshoot due to shedding load in excess of the generation deficiency. Some mismatch between the amount of load shed and the generation deficiency is inevitable. As such, NPCC should ensure that the requirements for governor response from generating units are adequate for both of these purposes.
- In order to improve the protection against off-nominal frequency operation and improve the probability that islands will survive, the potential for under-shedding and over-shedding can be reduced by increasing the number of UFLS stages and reducing the block sizes.

- Further review of the UFLS program should be implemented in areas with additional stages that regularly import more than 25 percent of the power needed to serve the load, in the context of the results of this study.
- Inherent limitations in the simulations performed in this study make them insufficient to draw definitive conclusions regarding system behavior in the post-transient period. Ensuring an acceptable post transient recovery should involve considerably more input from system operators, and may involve reducing the block size of the UFLS scheme employed and establishing a criterion for the dispatch of regulating resources and governing response.

ΔRR 59 – Operating Reserves

RRS and Con Ed are still awaiting additional information from the NYISO. **(AI 50-1)** The information request was made by the EC at the 7/10/03 meeting. Mr. Pappas will contact Mr. Adams of the NYISO inquiring about the status of the information and the NYISO interest in continuing to request this change. **(AI 55-2)**

ΔRR 66 System Restoration-Black Start Testing (Modification to Measurement GM-1)

One comment was received concerning the applicability of the change to generators that are not part of the NYISO Restoration Plan but are part of a local TO's plan. It is the position of RRS that the rule will apply to both types of units in accordance with NPCC A3 and NYSRC rules. The template will be forwarded to D. Raymond for approval at the next EC meeting. **(AI 55-3)**

ΔRR 67 NYISO Control Center Communications (Modifications to JR-2)

NPCC A3 defines testing frequency. Mr. Adamson will query the NYISO regarding the type and frequency of testing performed. **(AI 55-4)**

Potential New Rule Regarding Deliverability

Mr. Eng stated that in the future a request for a new rule on deliverability might be submitted.

Reliability Rules Section B-R3.b

Mr. Corey questioned the applicability of the rule when considering faults on a bus directly connected to a generator. It was noted that this rule was adopted from a NYPP Design Standard. The group also agreed that it did not apply for faults on a bus directly connected to a generator when determining the stability of that generator to faults on the system.

3.2 NPCC Rules Revisions Update

Mr. Adamson reviewed the NPCC Criteria Revision Tracking Summary table he had issued to RRS.

NPCC A1, Criteria for Review and Approval of Documents

This was posted for comments on 12/17/03 and comments are due on 2/1/04. This is an administrative criterion.

NPCC Basic Criteria A2 (RRS)

Mr. Clayton received no additional comments on rev. 10b. Mr. Clayton's comment, shown below, will be submitted to Mr. Adamson. **(AI 54-2)**

In section 5.1 a reference to the definition of "system A" and "system B" should be added. A discussion ensued regarding the need to remove a line from service should either system A or system B relay trip channels be out of service. Mr. Corey explained that the A2 document specified that the design account for either A or B being out of service. Since the design already accounts for one of the channels being unavailable the line can remain in service.

Mr. Adamson will submit the A2 comments to NPCC. **(AI 55-5)**

3.3 NERC SARs/Organization Standards (OSs)

Mr. Adamson reviewed an updated NERC Organization Tracking Summary.

RS-1, Standard 300-Balance Resources & Demand (Clayton)

Nothing to report.

RS-2, Standard 200-Operate Within Interconnected Operating Limits (Hochberg)

After additional review after meeting 54, it was determined to recommend a no vote to the EC on this item. The details are discussed in the minutes of meeting 54. At the request of the EC, Mr. Adamson balloted no.

NOTE: On 1/7/04 the voting results were made public. Less than 10% of the votes cast were for approval.

RS-3, SAR-Assess Transmission Future Needs and Develop Transmission Plans (Adams)

Mr. Adams is a member of the SAR drafting team. Mr. Adamson will talk to Mr. Adams regarding RRS participation in the drafting process. **(AI 54-5)**

RS-4, Standard 600-Determine Facility Ratings, Operating Limits, and Transfer Capabilities (Adamson)

Mr. Adamson prepared comments regarding the elimination of Level C and D contingencies that are in current NERC criteria and opposition to monetary penalties. Also stated was a comment that NYSRC rules are more stringent than Standard 600;

however, these differences will not be requested to be part of the standard to emphasize that areas can adopt more stringent requirements without the approval of NERC.

Mr. Clayton to present the comments to the EC. **(AI 55-6)**

Mr. Clayton to request the EC to authorize the RRS to comment directly to NERC. **(AI 55-7)**

RS-8, Standard 400-Coordinate Interchange Transactions (T. Pappas)

The standard was posted for comments on 12/15/03 with comments due by 2/10/04.

The purpose of the new standard is to ensure that an interchange authority coordinates the implementation of interchange between source and sink balancing authorities such that the following reliability objectives are met:

1. Each interchange is checked for reliability before it is implemented.
2. The balancing authorities implement the interchange exactly as agreed upon in the interchange confirmation process.
3. Interchange information is available for reliability assessments.

No comments were made on this; however, Mr. Adamson will draft a comment regarding opposition to monetary sanctions. **(AI 55-8)**

RS-9, SAR-Coordinate Operations (Fleury)

Standard is being drafted.

RS-13, SAR-Certification of the Interchange Authority Function (T. Pappas)

The new standard will ensure that each entity that wants to be recognized as an Interchange Authority has the capability of performing the responsibilities assigned to the Interchange Authority function. Each entity that wants to be recognized as an Interchange Authority shall demonstrate that it has the processes, procedures, tools and agreements in place to demonstrate that it has the capability of performing the responsibilities assigned to the Interchange Authority Function.

NERC approved drafting of a standard and as of 1/5/04 it was still underway.

RS-18A, SAR-Permanent Cyber Security Standard (Corey)

Version 2 was posted for comments on 12/1/03 with comments due by 1/21/04. Steve Corey will provide the NYISO comments.

4.0 Additional Agenda Items

None

5.0 Reports

5.1 Report on NYSRC EC Meeting #56

Other actions are covered under items above.

It was emphasized that NERC criteria should be the minimum acceptable criteria and that no reliability entity should require NERC approval to implement more stringent rules.

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

5.2 NYSRC ICS Report

The EC approved a reserve requirement of 18% based on an ICS recommendation.

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

5.3 NYSRC RCMS Report

The 2004 requirements program was sent to the EC for approval.

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

6.0 Next Meeting

The meeting was adjourned at 1415.

The next meeting is scheduled for 0930 on Thursday, February 5, 2004 at the NYISO offices located at Washington Avenue Extension, Albany, NY.

Final Minutes of Meeting No. 55 submitted by Ted Pappas on February 6, 2004.