



PJM Interconnection
Joint System Operations Subcommittee
March 10, 2010
Summary

1. REVIEW OF OPERATIONS

A. Mr. Bryson provided an update of System Operations

- a. CPS1 139.5%, BAAL 99.6% (NERC 100%), CPS2 90.3%, DCS 100%
- b. The 2/18/10 loss of both Calvert Cliffs units 1 and 2 (1750MWs) was reviewed. The SOS requested additional details regarding the cause and sequence of events, which Mr. Bryson will send after the meeting.

B. Member Operational Issues

- a. Mr. Gear noted that the Exelon MOC only received 4 All-Calls during the entire March Restoration drill. He will fill out the Restoration Drill feedback form to capture this.
- b. Mr. Hunt reported the Kerr Dam units went unstable around 1700hrs on 3/9/10. Initially it is believe to be a faulty AVR on unit #1 and a possible low side bus fault. The event is under investigation.

2. WORKING GROUP UPDATES

- A. eDART User Groups – Mr. Deloach gave an update on eDart changes, highlighting the IRC changes for June.
- B. Black Start Working Group (BSWG) - Mr. Bryson reported on the group's activities and progress on agenda items. The next meeting is scheduled for 3/24/10.
- C. Dispatcher Training Task Force (DTTF) – Mr. Hoke provided an update on the DTTF activities. The Exam working group is continuing to work on the PJM Test questions.

3. SYSTEM OPERATOR TRAINING AND CERTIFICATION

Mr. Hoke reviewed the results of System Operator Training and Certification reporting using LMS.

LCCs: 17 companies total

Training: all companies were compliant

Certification: all companies were compliant

MOCs: 60 companies total

Training: 3 companies were non-compliant, 1 has a mitigation plan

Certification: 5 companies were non-compliant, 2 have mitigation plans



4. PJM AUDIT DISCUSSION

Mr. Brown reviewed the recent Reliability Audit of PJM, including:

- a. The initial results/potential violations
- b. The “areas of concern” noted by the Audit Team.
- c. Discussion of the PJM Compliance Bulletins that were seen as a key piece of evidence the audit team was impressed by.
- d. The opening presentation given to the Audit Team, which will be sent to the SOS.

5. REGIONAL STANDARDS, NAESB, AND COMPLIANCE UPDATE

Ms. Wesley gave an update on NERC, SERC, RFC and NAESB Regional Standards and the associated PJM Comments.

6. RFC CIP COMMITTEE

Mr. Alexander had no update on the RFC CIP Committee.

7. WIND FARM OPERATIONAL MODEL WHITE PAPER

Mr. Souder gave an update on the Wind Farm Operational Model White Paper initiative and requested feedback/input. Once completed, this will become part of Manual 14-D.

8. ENERGY VS CAPACITY RESOURCE CURTAILMENT

Mr. Souder gave an update on the energy vs. capacity resource curtailment initiative. Draft Manual language will be presented to the SOS at the April meeting after input is received from the MRC.

9. NUC-001 UPDATE

Mr. Souder reminded the SOS that NUC-001 will become a mandatory standard on 4/1/2010. Manual M-39 will be posted on 3/31/10 with an effective date of 4/1/2010. It was noted that the NPIRs will be referenced in the manual, but will not be posted due to the sensitive nature of the information.

10. MANUAL REVIEWS & UPDATES

- A. Mr. Bryson led the SOS in the annual review of Manual M-01 and requested each member review the manual for any changes. Recent changes to the manuals may have covered an in depth review, however PJM has requested that members also review and changes should be sent to Mr. Bryson for final review and approval at the April 2010 SOS meeting.



- B. Mr. Bryson reviewed changes to Manual M-03. Mr. Bryson also requested all members do a review of the manual in preparation of the annual review in April 2010. In particular, all members were requested to review their specific procedures in Section 5.
- C. Mr. Thomas reviewed changes to Manual M-03a
- D. Mr. Bryson reviewed changes to Manual M-10
- E. Mr. Bryson reviewed changes to Manual M-12
- F. Mr. Bryson reviewed changes to Manual M-13.
- G. Mr. Bryson reviewed changes to Manual M-14D
- H. Mr. Bryson reviewed changes to Manual M-36. Mr Bryson noted that updates to the TO restoration plans will also need to be captured during the PJM Annual review.
- I. Mr. Bryson reviewed changes to Manual M-39
- J. Mr. Bryson reviewed changes to Manual M-40
- K. Mr. Bryson reviewed changes to Manual M-41

11. REVIEW OF OPERATIONS

- A. SOS-T reviewed operational events and concerns.
 - 1) Mr. Souder gave an update on the Load Forecasting Root Cause report from 1/2/10, 1/3/10 and 1/11/10. The investigation indicated the weather report inaccuracies were the main factor in the Neural Net errors. Situational awareness screens and training to the Master Coordinators is being reviewed to improve operator intervention to correct neural net deficiencies. Period tuning and updates to the Neural Net inputs are being considered as well.

The investigation report is being drafted and will be circulated to the SOS when available.

12. POWER SYSTEM COORDINATION

- A. Outage Analysis and Coordination: Mr. Schweizer and Mr. Rich Souder reviewed and solicited feedback regarding the high volume of outages scheduled from Spring 2010 through Spring 2011, the ability to recognize and mitigation inter- and intra-TO outage conflicts, and the challenges this presents for PJM and the members.
 - Track outage work hours on each ticket.
 - Find ways to open communication paths to coordinate intra TO outages.



- Concerns about short term (under 5 minute) outages and the ability to push them through the approval process.

13. MANUAL M-03 RELAY OUTAGE CLARIFICATIONS

Mr. Souder reviewed proposed changes to Manual M-03 regarding relaying and protection system outage notification requirements. Feedback on the language should be directed to Mr. Souder for review at the April SOS meeting.

Mr. Schweizer reminded the members that changes to relay settings must be coordinated with all neighbors, not just affected neighbors, in accordance with PRC-001.

14. CYBER RECOVERY

Mr. Bryson discussed the potential for drafting some additional recovery and business continuity plans – possibly for inclusion in M01.