

**Joint: ATC Black Start Restoration Plan Working Group Advisory Group**  
**MISO Eastern Wisconsin Upper Michigan Sub region of MISO EPPSRWG**  
**October 2, 2008**  
**Notes by: P. F. Walter**

The ATC BSRPWG advisory group met at Manitowoc Public Utilities (MPU) offices hosted by MPU. The meeting lasted from 9 am to about 1 pm. With a Fluidized bed tour of MPU's new Fluidized Bed Unit 9 generation unit following the meeting.

We announce that since CDAA and non CDAA employees were in attendance, including marketers that no sensitive information could or would be discussed. We also posted notice of the meeting on the MISO OASIS. The first hour was spent going over the pending MISO Black Start Drills and the last three hours discussing the direction ATC should take on detailing Future Blackstart, Restoration and the new MISO tariff.

Regarding the Black Start MISO Drills, ATC stressed the need each company's involvement to help simulate load shedding, communication protocols and paths, timing etc. Each company supply the names, contacts and email addresses they wished ATC and MISO to list for the various drills. Planned drills:

- a. Overview of planned October 14 MISO Drill – System Normal then being heavily stressed:
  1. Starting at 9 am Tuesday Oct. 14, several lines and units will sequentially be lost eventually leading to a possible (likely) Load Shedding Events.
  2. An in-tact island may be left around Cedar Rapids and/or Valley Power Plant. Emphasis will be on identifying an island and timely shedding or rotating loads.
  3. ATC will use its Load Shed Form of its TOP 33 (Transmission Operating Procedure 33) (attached to this email) to communicate any requested Load shed. Please come prepared to suggest improvements to the form or how to improve its effectiveness.
  4. ATC will set up conference call hot lines for various areas during the drill.
  5. Updates of system status will be by phone and internet pdf files of system snap shots during all four days of the drills.
  
- b. October 15 MISO Drill - System Black, bringing it back up
  1. Paths to be demonstrated:
    - Rock River to Oak Creek (Players: ATC CG, ATC PWK, Alliant, We Energies)
    - Gladstone (or Escanaba) to Presque Isle (Players: ATC PWK, WPS, UPPCo, ESE, We Energies)
    - West Dubuque to Nelson Dewey (Players: ATC CG, ITC (Observation), Alliant)
    - Weston to Pulliam (Players: ATC CG, WPS, Alliant, We Energies)
  2. Cranking paths will need to have all significant load (simulated as) disconnected prior to start of path building and load returned per plan as path progresses.
  
- c. October 28 MISO Drill – System going down – similar to October 14 drill
  
- d. October 29 MISO Drill- System Black bringing it back up
  1. Paths to be demonstrated:
    - Germantown to Valley then on to Edgewater
    - West Marinette (rather than Manitowoc)

- Sycamore (Or alt. MGE Black Start plant) to Columbia
  - Cedar Rapids Island to Iowa Grid
- Optional if time allows Weston to Pulliam

After the pending MISO drill discussion a discussion of MISO Black Start Tariff Details for ATC followed with discussion on the following areas:

- Foreseen required testing
- On site fuel requirements
- Fuel types and relationships
- What constitutes a blackstart unit under MISO rate schedule 33
- Locations
- Adequacy to meet standards vs. optimal

It was agreed that ATC would furnish a draft document of the business practice of the attributes ATC felt were important to help rank and guide the selection of Black Start Units in the ATC Black Start Restoration Plan. Comments would then be taken under advisement for finalization of the Black Start unit selection plan. It was understood that once a unit was included in the ATC Black Start Restoration Plan it may be eligible for compensation under the MISO Schedule 33 tariff that goes into effect next summer.

The group agreed to meet individually as needed to review the existing specific ATC Black Start Restoration Plan paths that directly affected their companies. These meetings would start in January 2009.

A tour of MPU power facility followed the meeting.

If you have any further comments, additions or corrections please contact ATC's Paul Walter, Transmission Reliability Administrator PWK, 262 424 4327.