

April 28, 2008

TO: NERC DRDTF  
FROM: Robert Entriken, [rentrike@epri.com](mailto:rentrike@epri.com), 650/855-2665  
SUBJECT: **NERC Demand Response Data Task Force**

LOCATION: ERCOT Austin, Met Center  
CALL-IN: 1(732)694-2061. x1191044888

## Attendees

Mark Lauby (NERC)  
Rob Laurita (chair, ISO-NE)  
John Norden ([jnorden@iso-ne.com](mailto:jnorden@iso-ne.com))  
Paul Wattles, Steve Krien (sp?) (ERCOT)  
Mark Potter (EnerNOC)  
Rae McQuade, ? Thompson (NAESB)  
Donna Pratt (NYISO)  
? (PG&E)  
Grayson Heffner Goldman (Global Energy Associates for LBNL)  
Erich W. Gunther (EnerNex)  
Ripley C. Newcomb (Dominion)  
Gordon Drake (Ontario)

## Discussion

- Review of the Data Collection figure. Collecting GADS, TADS, now going to DRADS. Need to know how much of price responsive DR can be used for the purposes of resource adequacy (capacity).  
Review of work plan: Defs and Metric review 30 Apr; Review with PC 5 Jun.  
Develop Data Collection Manual 30 Jun.
- Form 861 is confusing and difficult for utilities to complete.
- How related to FERC. Invited David Kaithin, they summarize through surveys.  
FERC is not requesting numbers.  
FERC survey has: potential peak reduction, number of participants, max demand of customers.  
EEL also has a survey of IOUs.  
LBL is also working with ISOs to collect data.
- IEEE has Intelligent Grid Coordinating Committee effort to do a survey across groups in PES. Standards for formats of information exchange in real time and with NERC. Conference for RT exchange with control centers.
- Do not ask for Expected MWh Served. This quantity varies across years. This is a statistic, to be computed from historical information.

## NAESB Coordination

- Started in Apr 07. Limited to M&V for DR in electricity.
- Identified five categories of baselines. Likely principles about what a baseline is meant to achieve.
- Standards are meant to support transparency, so that one knows how the values are determined and whether comparisons are valid.
- FERC NOPR on WECC A/S last week.
- Need to know NERC use of baseline. ISO-NE thinks of resource-level determination of but-for quantity of demand. The calculation depends on where one expects the measurement to occur.

#### Metric/data submittals

- Does not mention for what data is used. This extra information may be an important qualification, given domain knowledge.
- Just doing inventory of available data in special DR programs. Moving toward having DR fully integrated into Capacity, A/S, and Energy markets.
- ISOs do not know how many participants are within a bid.
- There may be double counting, when not knowing the sources of the commitments.
- MWh Saved is not as important as quantity and frequency. Value achieved on first activation is a better indicator. When the activation occurs is also important.
- Emergencies do not happen only on summer and winter peak. The times when they happen are substantially different in character from peak.
- DR will need to make up for generator maintenance. Operators want an hourly value of DR that is callable. Good to have 8760 calls and what got.
- 22 Dec, 03:00 drop 1350 MW and get it back in 10 minutes through demand response. DR seems to be more reliable than generation. Can call 1150 MW DR. This is 45% of Operating Reserve requirement.
- Different baselines are more accurate for different customers: type of load, type of customer, when dispatched, and response time.
- ERCOT has a statistical valuation to determine appropriate baseline for the given customer.
- How much detail is needed to ensure reliability?
- Can each operator/planner justify the methodology for ensuring reliability that incorporates DR.
- What are the consequences for getting the DR estimate wrong in a given system under certain conditions?
- NYISO has 1800MW Op Res requirement. Have more DR than that.
- Purpose of data collection is to understand how well DR resources perform in operations and planning.
- It is important to know what reduction is delivered compared to expected reduction when called.

#### Energy Efficiency

- Discussed how EE/DR participate in Capacity Market.
- PUCT wants dollar savings from EE.

### Metrics

- For each event, expected response and what delivered.
- Slide 10 of the IRC presentation is a good template for reporting events.
- Could want to report the forecasts and events by location/zone.
- Hierarchy of reporting on DR programs could have multiple times counting the same resource. MOD-020-0  
[ftp://www.nerc.com/pub/sys/all\\_updl/standards/rs/MOD-020-0.pdf](ftp://www.nerc.com/pub/sys/all_updl/standards/rs/MOD-020-0.pdf)
- Worked on Sample Report.

### Assignments

- |  |                      |
|--|----------------------|
| • Event Data Sheet                     | Mark/Bob L.          |
| • Program Description /Characteristics | Grayson/Donna        |
| • Annually Roll-up                     | Mark/Mark/Paul/Steve |
| • User Manual/Application Manual       | Mark/Grayson         |
| • Who doing What                       | Erich                |
| • Use Cases                            | Bob E./Gordon D.     |