

**Standard Development Roadmap**

*This section is maintained by the drafting team during the development of the standard and will be removed when the standard becomes effective.*

**Modified to address Order No. 693 Directives contained in paragraphs 1249, 1250, 1251, 1252, and 1255.**

**Development Steps Completed:**

1. SAR posted for comment (June 18, 2010 through July 13, 2010).
2. First draft of proposed standard posted (June 18, 2010 through July 13, 2010).
3. Posted for 15-day pre-ballot review (June 18 – July 2, 2010).

**Proposed Action Plan and Description of Current Draft:**

This is the first draft of the proposed standard. The modifications included in this standard are being proposed through an expedited process in order to be responsive to directives from FERC Order No. 693.

**Future Development Plan:**

<b>Anticipated Actions</b>	<b>Anticipated Date</b>
1. Conduct initial ballot on a line-item basis.	July 3 – 13, 2010
2. Post response to comments on initial ballot.	July 20, 2010
3. Conduct recirculation ballot.	July 20 – 30, 2010
4. Submit standard to BOT for adoption.	August 2010
5. File standard with regulatory authorities.	September 2010

**Definitions of Terms Used in Standard**

*This section includes all newly defined or revised terms used in the proposed standard. Terms already defined in the Reliability Standards Glossary of Terms are not repeated here. New or revised definitions listed below become approved when the proposed standard is approved. When the standard becomes effective, these defined terms will be removed from the individual standard and added to the Glossary.*

**None.**

## A. Introduction

1. **Title:** Aggregated Actual and Forecast Demands and Net Energy for Load
2. **Number:** MOD-017-1
3. **Purpose:** To ensure that assessments and validation of past events and databases can be performed, reporting of actual Demand data is needed. Forecast demand data is needed to perform future system assessment to identify the need for system reinforcement for continued reliability. In addition to assist in proper real-time operating, load information related to controllable Demand-Side Management programs is needed.
4. **Applicability:**
  - 4.1. Load-Serving Entity.
  - 4.2. Planning Authority.
  - 4.3. Resource Planner.
  - 4.4. Transmission Planner.
5. **(Proposed) Effective Date:** The first day of the first calendar quarter, one year after applicable regulatory approval; or in those jurisdictions where no regulatory approval is required, the first day of the first calendar quarter one year after Board of Trustees' adoption.

## B. Requirements

- R1.** The Load-Serving Entity, Planning Authority, Transmission Planner, and Resource Planner shall each provide the following information annually on an aggregated Regional, subregional, Power Pool, individual system, or Load-Serving Entity basis to NERC, the Regional Reliability Organizations, and any other entities specified by the documentation in Standard MOD-016-1\_R1.
  - R1.1.** Integrated hourly demands in megawatts (MW) for the prior year. For Loads that vary based on temperature and/or humidity, coincident hourly temperature and humidity data for the prior year.
  - R1.2.** Monthly and annual peak hour actual demands in MW and Net Energy for Load in gigawatthours (GWh) for the prior year. For Loads that vary based on temperature and/or humidity, coincident hourly temperature and humidity data for the prior year.
  - R1.3.** Monthly peak hour forecast demands in MW and Net Energy for Load in GWh for the next two years.
  - R1.4.** Annual Peak hour forecast demands (summer and winter) in MW and annual Net Energy for load in GWh for at least five years and up to ten years into the future, as requested.
  - R1.5.** Day-ahead Hourly for each hour, Monthly peak hour, and Annual Peak hour load Forecast accuracy (expressed in terms of error divided by actual demand) as well as any biasing of each load forecast.
- R2.** The Load-Serving Entity, Planning Authority, Transmission Planner, and Resource Planner shall annually review Load forecast variation for the previous year and, if necessary (e.g., if variation expressed in terms of error divided by actual demand is greater than 10%), modify load forecast assumptions to improve accuracy. [*Violation Risk Factor: Low*] [*Time Horizon: Operations Assessment*].

**C. Measures**

- M1.** Load-Serving Entity, Planning Authority, Transmission Planner and Resource Planner shall each provide evidence (such as e-mails, delivery confirmations, or other evidence) to its Compliance Monitor that it provided load data R1.
- M2.** Load-Serving Entity, Planning Authority, Transmission Planner, and Resource Planner shall each provide evidence (such as load data, change logs, or other evidence) that it annually reviewed Load forecast accuracy and, if necessary, modified load forecast assumptions to improve accuracy.

**D. Compliance**

**1. Compliance Monitoring Process**

**1.1. Compliance Enforcement Authority**

Regional Entity

**1.2. Compliance Monitoring Period and Reset Time Frame**

Annually or as specified in the documentation (Standard MOD-016-1\_R1.)

**1.3. Compliance Monitoring and Enforcement Processes:**

Compliance Audits

Self-Certifications

Spot Checking

Compliance Violation Investigations

Self-Reporting

Complaints

**1.4. Data Retention**

None specified.

**1.5. Additional Compliance Information**

None.

**2. Violation Severity Levels (changes only)**

R #	Lower VSL	Moderate VSL	High VSL	Severe VSL
R1	The responsible entity failed to provide one (1) of the elements of information as specified in R1.1, R1.2, R1.3, R1.4 or R1.5 on an annual basis.	The responsible entity failed to provide two (2) of the elements of information as specified in R1.1, R1.2, R1.3, R1.4 or R1.5 on an annual basis.	The responsible entity failed to provide three (3) of the elements of information as specified in R1.1, R1.2, R1.3, R1.4 or R1.5 on an annual basis.	The responsible entity failed to provide four (4) or more of the elements of information as specified in R1.1, R1.2, R1.3, 1.4 or R1.5 on an annual basis.
R2			The responsible entity reviewed its Load forecast accuracy on an annual basis, but failed to make improvements to improve accuracy when such improvements were necessary (e.g., variation was greater than 10%).	The responsible entity failed to review its Load forecast accuracy on an annual basis.

**E. Regional Differences**

None identified.

**Version History**

<b>Version</b>	<b>Date</b>	<b>Action</b>	<b>Change Tracking</b>
0	April 1, 2005	Effective Date	New
0	April 18, 2008	Revised R1. And D1.2. to reflect update in version from “MOD-016-0_R1” to MOD-016-1_R1.”	Errata
0.1	October 29, 2008	BOT adopted errata changes; updated version number to “0.1”	Errata
0.1	May 13, 2009	FERC Approved — Updated Effective Date and Footer	Revised
1	TBD	Modified to address Order No. 693 Directives contained in paragraphs 1249, 1250, 1251, 1252, and 1255.	New version.