

Transmission Strategy and Planning

Actual and Forecast Demands, Net Energy for Load, Controllable DSM MOD-031-2 and MOD-020-0

Effective: July 1, 2016



| MOD-031-2 and MOD-020-0: Procedure for Actual and Forecast Demands, Net Energy for Load, Controllable DSM | | | |
|---|--|--|--|
| Program Title | | | |
| July 1, 2016 | | | |
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Revision History

MOD-031-2 and MOD-020-0

Version No. | 1.0 Effective – July 1, 2016

Initial document development for new standard. MOD-031-1 is enforceable July 1, 2016 and MOD-031-2 is enforceable October 1, 2016. Since no data request is required between July 1 and October 1, LG&E and KU started with MOD-031 version 2. Also included MOD-020 requirements, since MOD-016, MOD-017, MOD-028, MOD-019, and MOD-021 compliance documents are retiring June 30, 2016.



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1 Introduction

This document represents how the LG&E and KU Planning Coordinator (PC) and or Balancing Authority (BA) maintain compliance with MOD-031-2 (enforceable 10-1-2016) and MOD-031-1 (enforceable 7-1-2016). Because MOD-031-1 and MOD-020-0 involve similar data, this document also represents how the LG&E and KU TP, LSE and RP maintain compliance with MOD-020-0.

2 Scope

The LG&E and KU PC and or BA shall initially identify a need for the MOD-031-2 data. If a need is identified, the LG&E and KU PC and or BA will collect the data required by MOD-031-2. The LG&E and KU PC shall also distribute the data to the Regional Entity upon request from the Regional Entity. If the LG&E and KU PC and or BA requests data for MOD-020-0, this document covers requirements for the TP, LSE and RP procedures for MOD-020-0.

3 Responsibilities & Procedures

3.1 MOD-031-2

R1. Each Planning Coordinator (PC) or Balancing Authority (BA) that identifies a need for the collection of Total Internal Demand, Net Energy for Load, and Demand Side Management data shall develop and issue a data request to the applicable entities in its area. The data request shall include:

The LG&E and KU PC and /or BA shall determine if there is a need for the MOD-031-2 data annually. Justification for the need shall be documented in the data request to the data suppliers. Any data received under this standard for which an applicable entity has made a claim of confidentiality should be maintained as confidential by the receiving entity. (R.1.)

R1.1. A list of Transmission Planners, Balancing Authorities, Load Service Entities, and Distribution Providers that are required to provide the data ("Applicable Entities").

The list of data providers by company name is included in Appendix A. The list of actual employees and their contact information may be updated as employees of the data providers change. Therefore, actual contacts are not included in Appendix A, only the names of the companies. (R1.1.))

Entities shown in Table A-1 include the companies that are in the LG&E and KU PC/BA area. (R1.1.)



If the LG&E and KU PC or BA identifies a need for the data, the entities listed in Table A-2 have load within the LG&E and KU BA but are not in the LG&E and KU Planning Coordinator area, a coordination email from the LG&E and KU PA to the other PA will be sent and received to ensure the data is reported to the correct Planning Coordinator. (R1.1.)

If a need is identified, the LG&E and KU PC/BA will also coordinate with entities shown in Table A-2 to ensure there is no missing or double counted data for the MOD-031, (R1.1.)

R1.2. A timetable for providing the data. (A minimum of 30 calendar days must be allowed for responding to the request.)

If the LG&E and KU identifies a need, the LG&E and KU Planning Coordinator or Balancing Authority will request data per a schedule in a data request emailed annually. The LG&E and KU PC/BA will allow the data submitters at least 30 calendar days to prepare and submit data requested as detailed in Requirements 1.3. – 1.5. and the respective sub-requirements.. (R1.2.)

- **R1.3.** A data request to provide any or all of the following actual data:
 - **R1.3.1.** Integrated hourly Demands in megawatts for the prior calendar year.
 - **R1.3.2.** Monthly and annual integrated peak hour Demands in megawatts for the prior calendar year.
 - **R1.3.2.1.** If the annual peak hour actual Demand varies due to weather-related conditions (e.g., temperature, humidity or wind speed), the Applicable Entity shall also provide the weather normalized annual peak hour actual Demand for the prior calendar year.
 - **R1.3.3.** Monthly and annual Net Energy for Load in gigawatthours for the prior calendar year.
 - **R1.3.4.** Monthly and annual peak hour controllable and dispatchable Demand Side Management under the control or supervision of the System Operator in megawatts for the prior calendar year. Three values shall be reported for each hour: 1) the committed megawatts (the amount under control or supervision), 2) the dispatched megawatts (the amount, if any, activated for use by the System Operator), and 3) the realized megawatts (the amount of actual demand reduction).
- **R1.4.** A request to provide any or all of the following forecast data, as necessary:



- **R1.4.1.** Monthly peak hour forecast Total Internal Demands in megawatts for the next two calendar years.
- **R1.4.2.** Monthly forecast Net Energy for Load in gigawatthours for the next two calendar years.
- **R1.4.3.** Peak hour forecast Total Internal Demands (summer and winter) in megawatts for ten calendar years into the future.
- **R1.4.4.** Annual forecast Net Energy for Load in gigawatthours for ten calendar years into the future.
- **R1.4.5.** Total and available peak hour forecast of controllable and dispatchable Demand Side Management (summer and winter), in megawatts, under the control or supervision of the System Operator for ten calendar years into the future.
- **R1.5.** A request to provide any or all of the following summary explanations, as necessary:
 - **R1.5.1.** The assumptions and methods used in the development of aggregated Peak Demand and Net Energy for Load forecasts.
 - **R1.5.2.** The Demand and energy effects of controllable and dispatchable Demand Side Management under the control or supervision of the System Operator.
 - **R1.5.3.** How Demand Side Management is addressed in the forecasts of its Peak Demand and annual Net Energy for Load.
 - **R1.5.4.** How the controllable and dispatchable Demand Side Management forecast compares to actual controllable and dispatchable Demand Side Management for the prior calendar year and, if applicable, how the assumptions and methods for future forecasts were adjusted.
 - **R1.5.5.** How the peak Demand forecast compares to actual Demand for the prior calendar year with due regard to any relevant weather-related variations (e.g., temperature, humidity, or wind speed) and, if applicable, how the assumptions and methods for future forecasts were adjusted.



R2. Each Applicable Entity identified in a data request shall provide the data requested by its Planning Coordinator or Balancing Authority in accordance with the data request issued pursuant to Requirement R1.

If the LG&E and KU PC and/or BA is identified in a data request by another PC or BA, it shall provide and/or forward the request to appropriate applicable parties. (R2.)

R3. The Planning Coordinator or the Balancing Authority shall provide the data collected under Requirement R2 to the applicable Regional Entity within 75 calendar days of receiving a request for such data, unless otherwise agreed upon by the parties.

If requested by SERC, the LG&E and KU PC and/or BA shall provide the data collected under Requirement R2 to the applicable SERC within 75 calendar days of receiving a request for such data, unless otherwise agreed upon by the parties. (R.3.)

R4. Any Applicable Entity shall, in response to a written request for the data included in parts 1.3-1.5 of Requirement R1 from a Planning Coordinator, Balancing Authority, Transmission Planner or Resource Planner with a demonstrated need for such data in order to conduct reliability assessments of the Bulk Electric System, provide or otherwise make available that data to the requesting entity. This requirement does not modify an entity's obligation pursuant to Requirement R2 to respond to data requests issued by its Planning Coordinator or Balancing Authority pursuant to Requirement R1. Unless otherwise agreed upon, the Applicable Entity:

- shall provide the requested data within 45 calendar days of the written request, subject to part 4.1 of this requirement; and
- shall not be required to alter the format in which it maintains or uses the data.

R4.1. If the Applicable Entity does not provide data requested under this requirement because (1) the requesting entity did not demonstrate a reliability need for the data; or (2) providing the data would conflict with the Applicable Entity's confidentiality, regulatory, or security requirements, the Applicable Entity shall, within 30 calendar days of the written request, provide a written response to the requesting entity specifying the data that is not being provided and on what basis.

If the LG&E and KU PC and/or BA is identified in a data request by another PC or BA, it shall provide and/or forward the request to appropriate applicable parties. (R4.)

If the LG&E and KU PC and/or BA does not provide data requested because (1) the request entity did not demonstrate a reliability need for the data; or (2) providing the data would conflict



with LG&E and KU's confidentiality, regulatory, or security requirements, LG&E and KU, within 30 calendar days of the written request will provide a written response to the requesting entity specifying the data that is not being provided and on what basis. (R4.)

3.2 MOD-020

MOD-020 R1. The Load-Serving Entity, Transmission Planner, and Resource Planner shall each make known its amount of interruptible demands and Direct Control Load Management (DCLM) to Transmission Operators, Balancing Authorities, and Reliability Coordinators on request within 30 calendar days.

Upon request, the LG&E and KU TP, LSE and RP shall make known its combined amount of interruptible demands and Direct Control Load Management (DCLM) to Transmission Operators, Balancing Authorities and Reliability Coordinators within 30 calendar days. (R1.) 3.6 MOD-021-1 (R.1).



Appendix A List of Data Suppliers

Table A-1 List of Data Suppliers for which the LG&E and KU PC is the only PA/PC

| Data Supplier |
|--|
| Kentucky Municipal Power Authority (KMPA) |
| Princeton Power Board |
| Paducah |
| |
| Benham Electric System |
| City of Madisonville |
| City of Paris |
| Berea Municipal Utilities |
| Providence Municipal Utilities |
| Frankfort Electric and Water |
| Corbin Utilities |
| Barbourville Municipal |
| City of Bardwell |
| Falmouth City Utilities |
| Louisville Gas & Electric and Kentucky Utilities |



Table A-2 List of Data Suppliers with a PC other than the LG&E and KU PC

| Data Supplier |
|--|
| Eastern Kentucky Power Coop. (EKPC) |
| Tennessee Valley Authority (TVA) |
| Big Rivers Electric Coop. (BREC) |
| Hoosier Energy (HE) |
| Owensboro Municipal Utility (OMU) ¹ |

¹ LG&E and KU's Planning Authority area does not include the area of Owensboro Municipal Utilities (OMU). LG&E and KU believes OMU should be registered as a Planning Authority unless some other party is performing those Planning Authority services for OMU. If a MOD-031 data request is issued by SERC and OMU cannot submit any Planning Authority area data on its own behalf, then to ensure SERC has complete data, LG&E will request and submit such data on OMU's behalf.