		EPR 5.200
Energy Supply Performance Optimization Policy System		Revision: 4.3
TITLE:	Facility Rating and Reporting NERC FAC-008 Compliance Requirements	Page 1 of 4

1.0 Purpose:

1.1 This policy defines the responsibilities of Performance Optimization to meet certain requirements established by NERC Standard FAC-008. The policy ensures Energy Supply develops and applies a facility rating methodology.

2.0 Applicability:

2.1 This policy applies to all Xcel Energy generating facilities and Energy Supply-owned synchronous condensers connected to the Bulk Electric System. Facility ratings for jointly owned units will be determined by the generating unit operator.

3.0 Responsibilities:

3.1 Performance Optimization, Fleet Engineering management is responsible to:

3.1.1 Compile Normal and Emergency electrical ratings for the generators, transformers, relay protective devices, and terminal equipment, as applicable, for each unit in all regions.

If Emergency ratings have not been provided by the Original Equipment Manufacturer, the only ratings used will be Normal ratings. Peak and Reserve ratings and Winter/Summer ratings may be used for combustion turbine units that have been assigned such ratings by the original equipment manufacturer.


3.1.2 Determine the most limiting and next most limiting applicable equipment rating of each unit. Identify and document the most limiting and next most limiting component.

3.1.3 Maintain the records required by 5.1, 5.2 for the generating plants.

3.1.4 Review and update ratings data annually. Upon receipt of request to supply facility ratings, Performance Optimization, Fleet Engineering will review and update ratings prior to submittal in accordance with EPR 5.220P01 NERC Facility Rating Methodolgy. Reviews shall include all new facilities, modified facilities, or any changes in operational limitations of in scope equipment.

Author: Larry White	Revised by: Larry White	Approved By: /S/Don Baxa Sr. Director, Performance Optimization (Electronic approval on file)
Effective Date: 10/07/2019	Revision Date: 10/07/2019	Approval Date: 10/07/2019

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4.0 Requirements:

4.1 Performance Optimization, Fleet Engineering shall maintain, in an approved document repository, a spreadsheet, by region, of electrical component and unit ratings.

4.1.1 The equipment and unit ratings will include Normal and Emergency ratings, as well as the most limiting component rating.

If Emergency ratings have not been provided by the Original Equipment Manufacturer, the only ratings used will be Normal ratings. Peak and Reserve ratings and Winter/Summer ratings may be used for combustion turbine units that have been assigned such ratings by the original equipment manufacturer.

4.2 Performance Optimization, Fleet Engineering shall maintain, in an approved document repository, the methodology used to develop the facility ratings. Any superseded portions of the methodology that had been replaced, changed, or revised must be retained for 12 months.

4.3 Performance Optimization, Fleet Engineering shall provide, on request, each facility rating methodology, and rating, to those Reliability Coordinators, Transmission Operators, Transmission Planners, and Planning Coordinators that have responsibility for the area in which the associated facilities are located, within 21 calendar days of receipt of a request.


4.4 Performance Optimization, Fleet Engineering shall respond, within 45 calendar days, in writing, to written comments from those Reliability Coordinators, Transmission Operators, Transmission Planners, and Planning Coordinators that have responsibility for the area in which the associated facilities are located. The response shall indicate whether a change will be made to the facility rating methodology and, if no change the reason why.

4.5 Performance Optimization, Fleet Engineering shall provide its Facility Ratings and the identity of the most limiting equipment to the Reliability Coordinators, Planning Coordinators, Transmission Planners, Transmission Owners, and Transmission Operators as scheduled by these entities.

4.6 Performance Optimization, Fleet Engineering shall provide the identity of the second most limiting equipment and its thermal rating within 30 calendar days of a request from its Reliability Coordinators, Planning Coordinators, Transmission Planners, Transmission Owners, and Transmission Operators.

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5.0 Required Records:

- 5.1 Performance Optimization, Fleet Engineering shall have evidence it provided the Reliability Coordinator, Transmission Operator, Transmission Planner, and Planning Authority the facility rating methodology and facility ratings requested within 21 calendar days.
- 5.2 Performance Optimization, Fleet Engineering shall have evidence it responded to comments from the Reliability Coordinator, Transmission Operator, Transmission Planner, and Planning Authority within 45 calendar days.
- 5.3 Performance Optimization, Fleet Engineering shall retain the spreadsheet required by section 4.1, and methodology required by section 4.2 in an approved document repository in accordance with the corporate non-nuclear records retention schedule, record class code AUD1040.

6.0 References & Definitions:

6.1 References


- 6.1.1 [EPR 5.220P01 – NERC Facility Rating Methodology procedure](#) found on XpressNet.
- 6.1.2 [Corporate non-nuclear records retention schedule](#) found on XpressNet.

6.2 Definitions

- 6.2.1 **North American Electric Reliability Corporation (NERC)** -The organization charged with establishing standards for the reliable operation of the North American electric power grids.
- 6.2.2 **NERC Reliability Standard FAC 008** – NERC Standard applicable to Facility Ratings
- 6.2.3 **Bulk Electric System** – As defined by the Regional Reliability Organization, the electrical generation resources, transmission lines, interconnections with neighboring systems, and associated equipment, generally operated at voltages of 100kv or higher. Radial transmission facilities serving only load with one transmission source are generally not included in this definition.

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7.0 Revision History

Date	Revision	Change
04/02/2007	Draft	Draft for FERC Reliability Standard – FAC 008, 009
04/10/2007	0	
06/07/2007	1	Added requirement to review and update ratings every 12 months or as facilities are added, modified or re-rated. Added reference to EPR-5.220. Added requirement to retain superseded portions of the methodology fro 12 months.
06/21/2007	2	Revised applicability “Facility ratings for jointly owned units will be determined by the generating unit operator.”
11/09/2007	3.0	If Emergency ratings have not been provided by the Original Equipment Manufacturer, the only ratings used will be Normal ratings. Peak and Reserve ratings and Winter/Summer ratings may be used for combustion turbine units that have been assigned such ratings by the original equipment manufacturer.
09/20/2012	4.0	Revised the policy to align with NERC Standard FAC-008-3 which replaces FAC-008-1 and FAC-009-1. Changed Maintenance Resources to Technical Resources and Compliance. Changed Production Resources to Technical Services in the header. Removed reference to Performance Monitoring.
01/01/13	4.1	Added language to specify that operational limitations be included in the review and reporting.
08/19/2013	4.2	Modified header and footer to reflect current standardized format. Updated author to current responsible employee. Corrected effective and approval dates to reflect the most recent major revision.
10/04/2016	4.2	Completed triennial review. No content change required.
10/07/2019	4.3	Updated department names to reflect current organization. Combined sections 3.1, 3.1 and 3.3 (region-specific) into a single section encompassing all regions. Updated references.

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