

ISO Rules

Part 300 System Reliability and Operations

Division 304 Routine Operations

Section 304.2 Electric Motor Start Requirements



Applicability

- 1 Section 304.2 applies to:
 - (a) the **operator** of an industrial complex that is:
 - (i) the Shell Limestone industrial complex; or
 - (ii) the Edson Gas Storage industrial complex;
 - (b) the **operator** of the **transmission facility** that operates **bulk transmission line** 854L from the 39S Bickerdike substation to the 397S Benbow substation;
 - (c) the **operator** of the **transmission facility** that operates 348S Marlboro substation; and
 - (d) the **ISO**.

Requirements

ISO Approval Prior to Starting an Electric Motor

- 2(1)** The **operator** of an industrial complex must have the prior verbal approval of the **ISO** by means of direct access telephone to start an electric motor at the industrial complex, in accordance with the specific requirements set out in subsections 3 and 4, as applicable.
- (2)** The **operator** of an industrial complex must report to the **ISO** by means of direct access telephone when an attempt to start the electric motor has been completed, whether successful or not.
- (3)** The **ISO** must notify the **operator** of the **transmission facility** in the regional area of the industrial complex that there has been a request to start up the electric motor, and confirm that the **operator** of the **transmission facility** is not aware of any **reliability** reason to not start the electric motor.
- (4)** The **ISO** must grant approval to start the electric motor unless the **ISO** has **reliability** concerns that would prevent the electric motor start.

Shell Limestone Electric Motor Start

- 3(1)** The **operator** must, if the **ISO** receives a request from the **operator** of an industrial complex that is the Shell Limestone industrial complex to start the 18,000 hp electric motor located at that industrial complex, provide the anticipated date and time of the start of the electric motor and make the verbal request to the **ISO** at least 1 hour prior to that start.
- (2)** The **operator** must provide all affected direct connect **market participants**, served from the 581S Amoco Ricinus substation and which the **ISO** indicates, with at least 1 hour notice by telephone prior to the starting of the electric motor, indicating the expected time of start and that there may be a short dip in their utility voltage due to the electric motor start.

Edson Gas Storage Electric Motor Start

- 4(1)** The **operator** of the 348S Marlboro substation located in the Hinton/Edson Area must request approval from the **ISO** before restarting any of the compressor electric motors if that industrial complex experiences an outage or derate resulting in any of the 5,000 hp electric motor-driven compressors at the Edson Gas Storage industrial complex shutting down.
- (2)** The **operator** of the **transmission facility** must sectionalize the appropriate section of **bulk transmission line** 854L to allow radial supply to the 348S Marlboro substation from either the 39S Bickerdike substation or the 397S Benbow substation depending on the location of the permanent fault if an outage or derate is in the nature of a permanent fault.

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Revision History

Date	Description
2023-03-31	Updated to align with current AESO drafting principles.
2020-09-16	Removed requirements for Empress Area. Moved content in Appendix 1 to subsections 3 and 4; removed conditions of approval examples; removed Appendix 1 and references to Appendix 1. Administrative amendments.
2014-07-02	Amended subsections 4(1), 4(2) and 5(1) of Appendix 1 by unbolding the references to “outages” and adding the words “or derate” after the word “outages”
2012-05-31	Initial release