

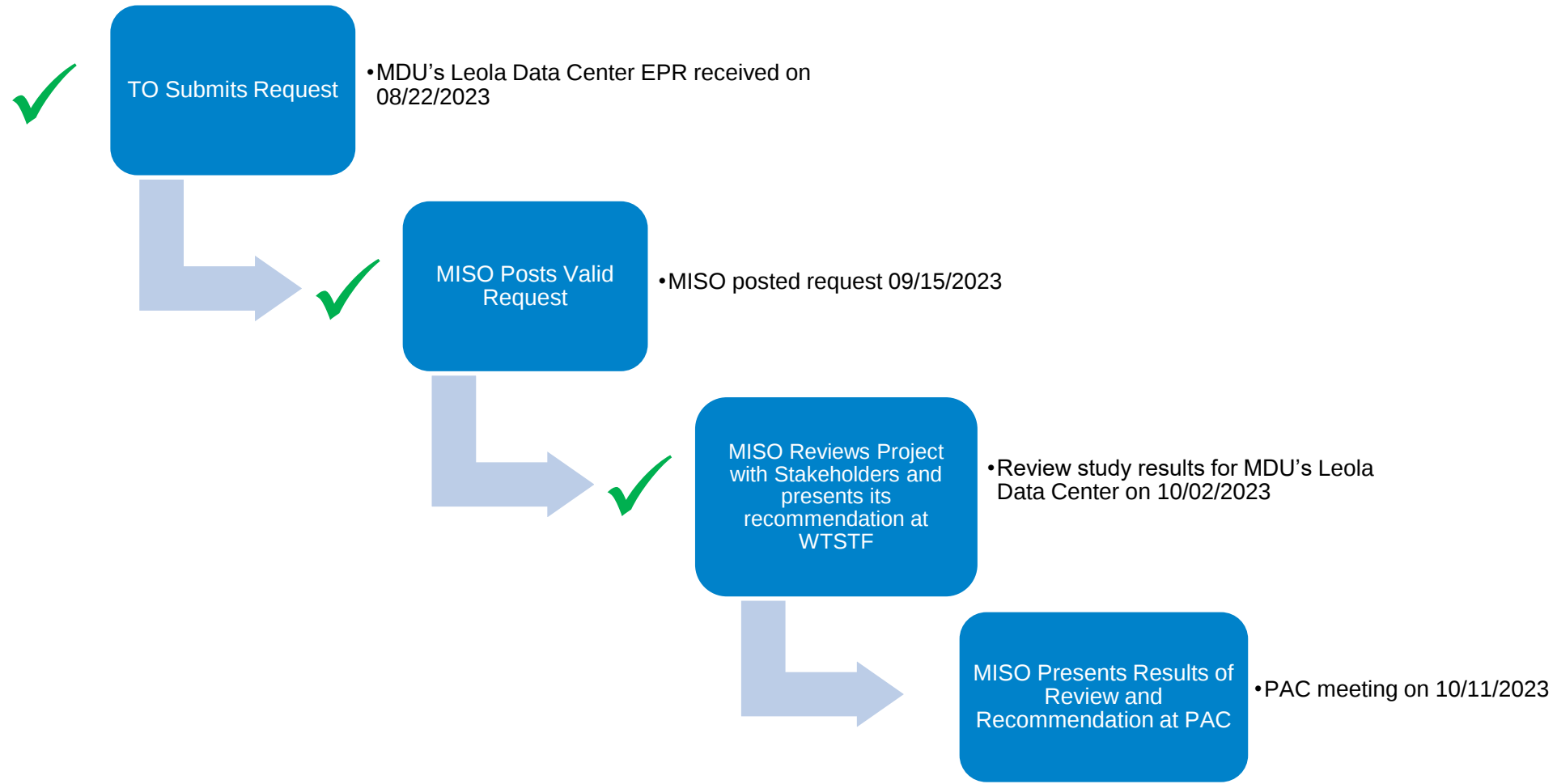


MTEP24 Expedited Project Review Leola Data Center

West Technical Study Task Force

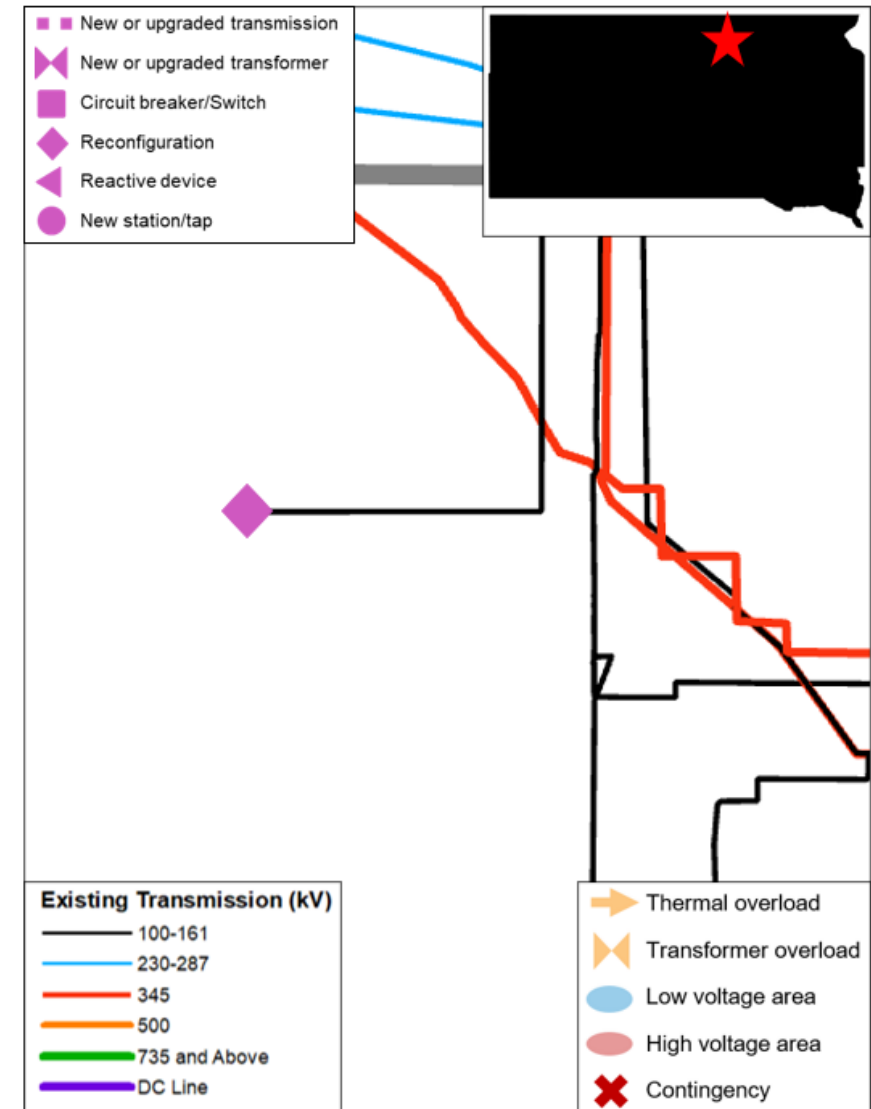
October 2, 2023

MISO follows Expedited Project Review provisions for the EPR request received from MDU



The Leola Data Center project is driven by Load Growth

- **Project Description: #25301**
 - Addition of a new customer with a 50 MW facility. The new customer load will be served from MDU's 41.6 kV system at the Leola Substation. Two cap banks will be added on the 115 kV side of the substation to support the load addition.
- **Estimated Cost:**
 - \$3.6 million
- **Expected ISD:**
 - 06/01/2024
- **Project Type:**
 - Other: Load Growth
- **Target Appendix:**
 - A in MTEP24



MISO, using Ventyx Velocity Suite © 2014

MISO Reliability Analysis Scope and Assumption

Study Overview

Description

- Perform Steady State analysis on MISO models with and without project candidate
- Study performed on select area (subsystem)
- Monitor local facilities for voltage and thermal criteria violations
- Project passes the no harm test if there are no new criteria violations that occur in the project case

MTEP23 Models simulated with and without project candidates

- 2025 Spring Light Load
- 2025 Summer Peak
- 2028 Shoulder Average Wind
- 2028 Shoulder High Wind
- 2028 Spring Light Load
- 2028 Summer Peak
- 2028 Winter Peak
- 2033 Summer Peak

Contingencies Included

P1 through P7 contingencies impacting the substations in the study area

No adverse impact on system reliability due to project

MISO Recommends MDU's Leola Data Center for inclusion in MTEP24 Appendix A

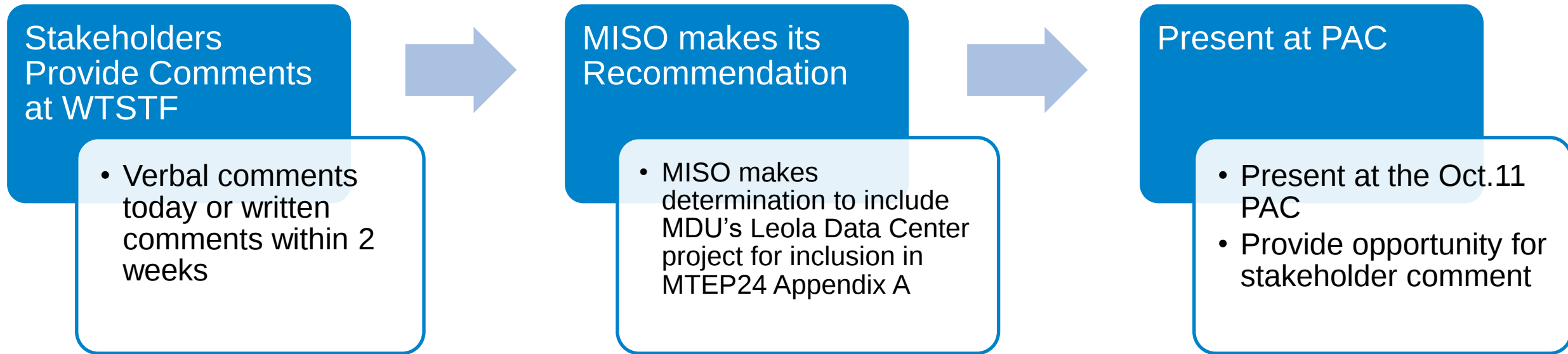
Leola Data Center

- No adverse system impact caused by the project.

MISO recommendation

- MISO recommends that MDU's Leola Data Center project be included in MTEP24 Appendix A, and that MDU may proceed with construction as needed to meet the in-service date.

Next Steps



Contact Information

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