

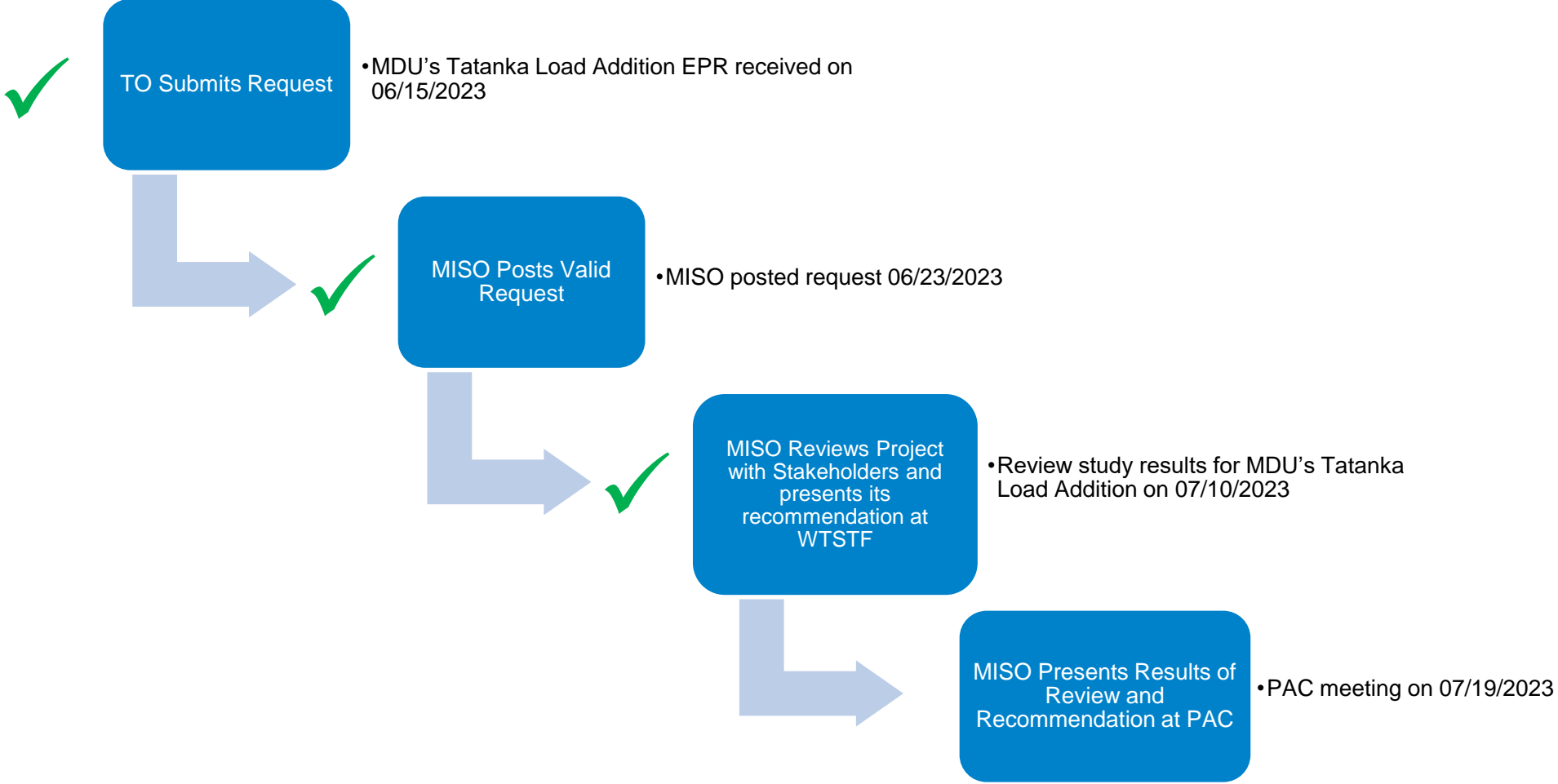


MTEP23 Expedited Project Review Tatanka Load Addition

West Technical Study Task Force

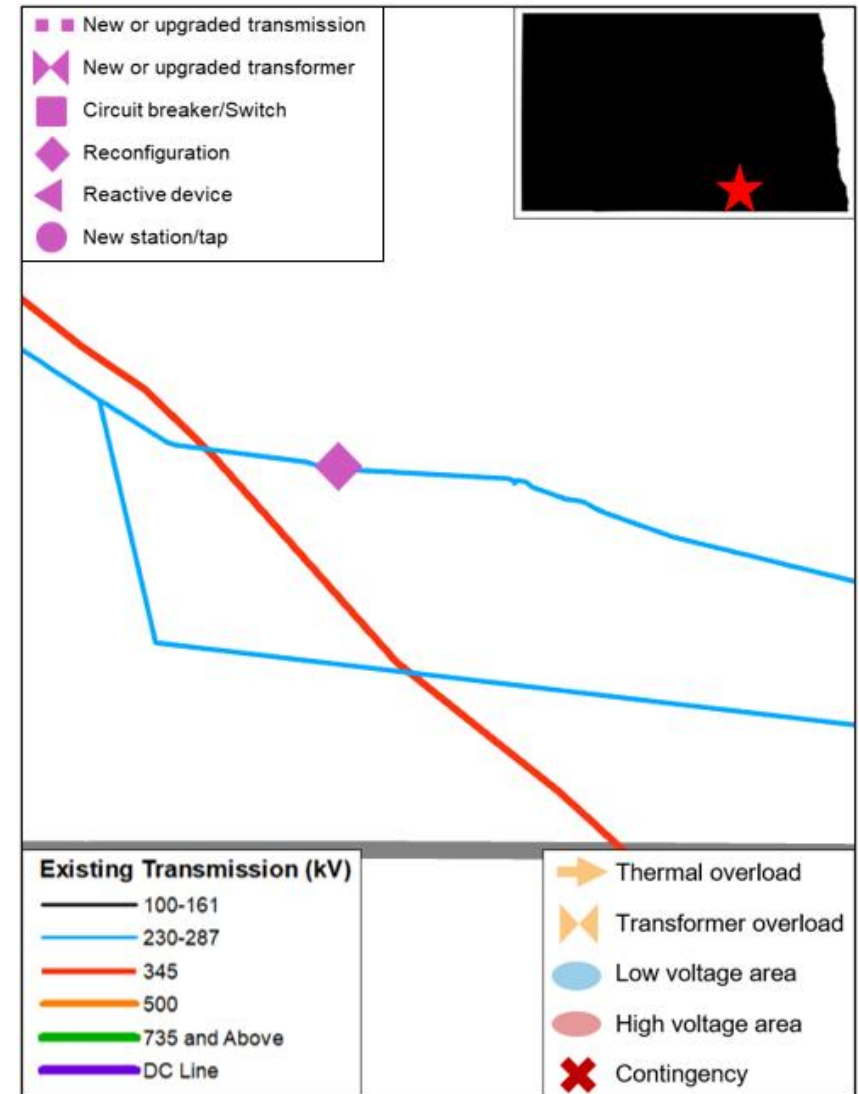
July 10, 2023

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



The Tatanka Load Addition project is driven by Load Growth

- **Project Description: #24978**
 - New 100 MW load at the Tatanka Wind Farm collector substation. The new customer load will be served from the Tatanka South Substation. There will be no cost to MDU to serve the customer.
- **Expected ISD:**
 - 12/01/2023
- **Project Type:**
 - Other: Load Growth
- **Target Appendix:**
 - A in MTEP23



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 Tatanka Load Addition for inclusion in MTEP23 Appendix A

Tatanka Load Addition

- No adverse system impact caused by the project.

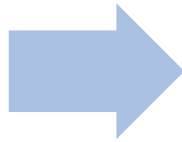
MISO recommendation

- MISO recommends that MDU's Tatanka Load Addition project be included in MTEP23 Appendix A, and that MDU may proceed with construction as needed to meet the in-service date.

Next Steps

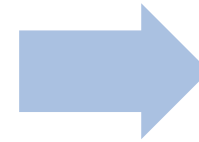
Stakeholders Provide Comments at WTSTF

- Verbal comments today or written comments within 2 weeks



MISO makes its Recommendation

- MISO makes determination to include MDU's Tatanka Load Addition project for inclusion in MTEP23 Appendix A



Present at PAC

- Present at the July 19 PAC
- Provide opportunity for stakeholder comment

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