



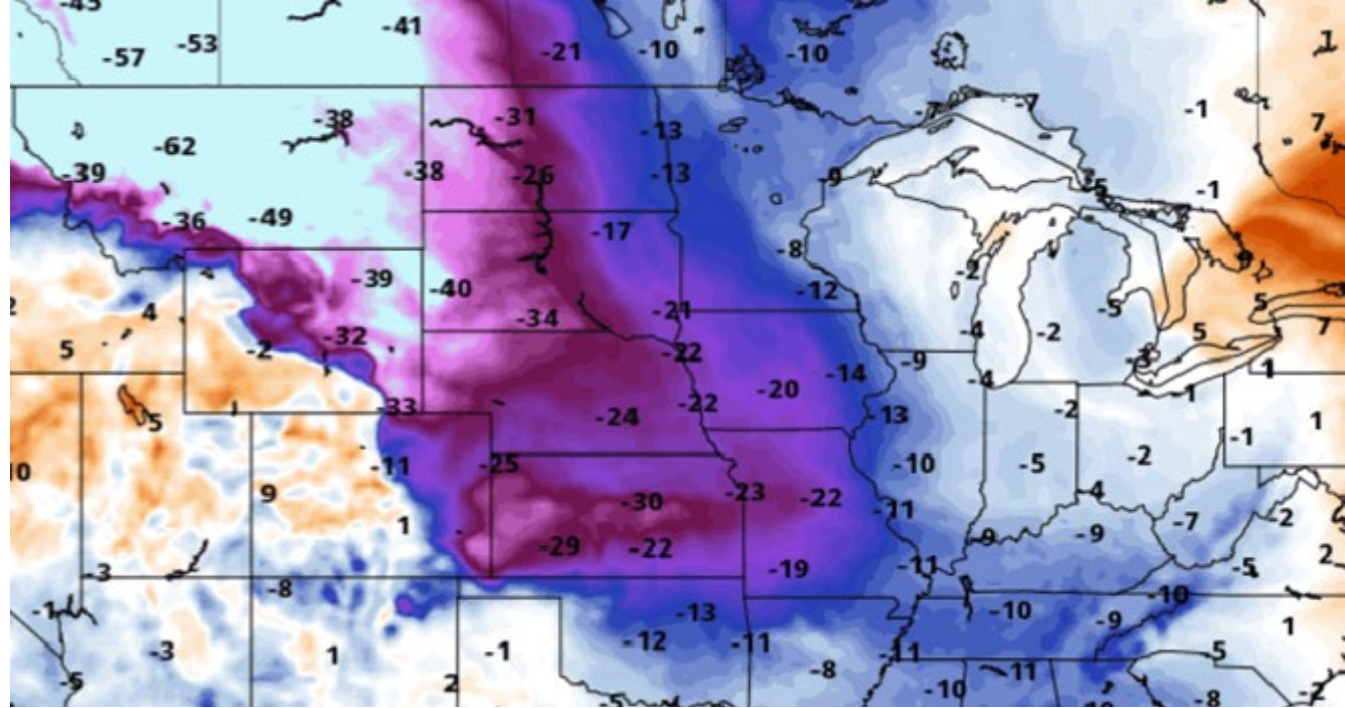
Systems Weather Hardening – Generation Cold Weather Preparedness

January 2025



Readiness Drivers

- Extreme cold weather events increasingly impactful to electric production
- Regional drought impacting winter river levels & increasing risk for generators
- Stricter national and regional regulations require utilities to enhance winterization
- Massive customer growth has reduced margin between energy supply and demand locally and regionally
- Cold weather performance is a heightened priority to meet customer needs:
 - Key focus for the OPPD Board and executive leadership and managed through Enterprise Risk Management process.



Readiness: What we've done

- Improved processes and procedures using lessons from winter storms Uri, Elliott and Gerri
- Invested in physical modifications to harden plants
- Met and exceeded new regulatory standards for extreme cold weather conditions
- Executed 28 preventative maintenance routines, including thousands of generating station level tasks
- Benchmarked approach with neighboring utilities; built relationships with key river stakeholders

Information as of November 14, 2024



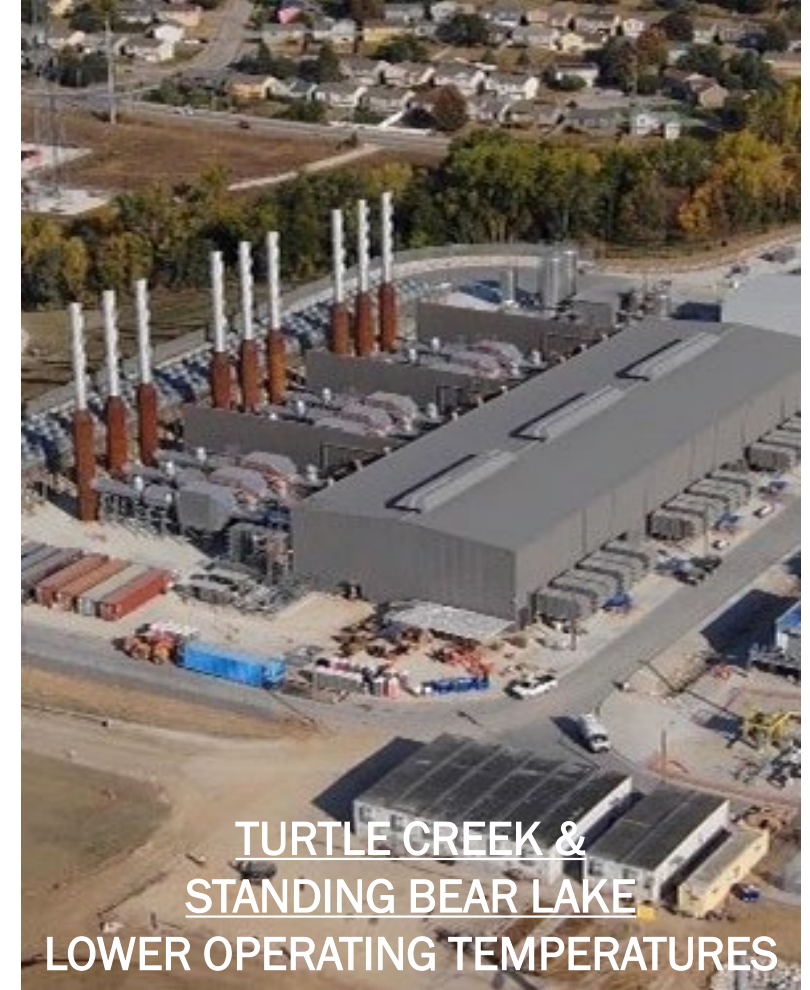
Spotlight: Example Plant Improvements



SARPY COUNTY STATION
HEAT TRACING
& INDICATOR LIGHTS



NEBRASKA CITY STATION
REMOTE TEMPERATURE
MONITORING



TURTLE CREEK &
STANDING BEAR LAKE
LOWER OPERATING TEMPERATURES

Advocacy: Managing river risk

MOBILIZING STAKEHOLDERS

'24 Ice Jam



MEC, Neal Station(s)

'22 Ice Jam



OPPD, North Omaha Station



MEC, Walter Scott Energy Center

OPPD, Nebraska City Station



NPPD, Cooper Nuclear Station



Evergy, Lake Road Station



Evergy, Iatan Station



Evergy, Hawthorne Station



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River Management Stakeholders

U.S. Army Corp of Engineers
National Weather Service
USSTRATCOM,
MAPA, NEMA, Papio NRD,
Coalition to Protect MO River

Utility Industry Stakeholders

OPPD, MidAmerican,
Evergy, NPPD, Ameron,
MUD
MISO & SPP

State and Federal Government Officials

Governor's Office
Federal regulators
Local officials



Next steps

- **Continuous improvement mindset** – every storm presents unique challenges
- **Disciplined monitoring** of changing weather patterns and **advocacy** at local, state and national levels
- Continued evaluation of **additional investments** needed based on changing conditions
- **New generating facilities are and will be** hardened for extreme cold by design, and do not rely on river cooling
- Continuing to foster **culture of collaboration** within the industry

QUESTIONS?