



MONTICELLO NUCLEAR GENERATING PLANT SUBSEQUENT LICENSE RENEWAL APPLICATION

March 15, 2022

Environmental Report & SAMA

Pre-Application Meeting



AGENDA

1. Opening Remarks

NRC

XCEL Energy

2. Background

3. Discussion Items

4. Lessons Learned

5. Closing Remarks

XCEL

NRC

OPENING REMARKS

1.NRC

2.XCEL Energy MNGP SLR ER Project Team

Scott McCall, Director of Nuclear Fleet Operations

Paul Young, Manager Site Routine Projects

Max Smith, Senior Project Manager

Steve Sollom, PE, Environmental Lead

Tom Slavonic, ER Project Manager (ENERCON)

Rachel Turney-Work, ER Technical Lead (ENERCON)



Background



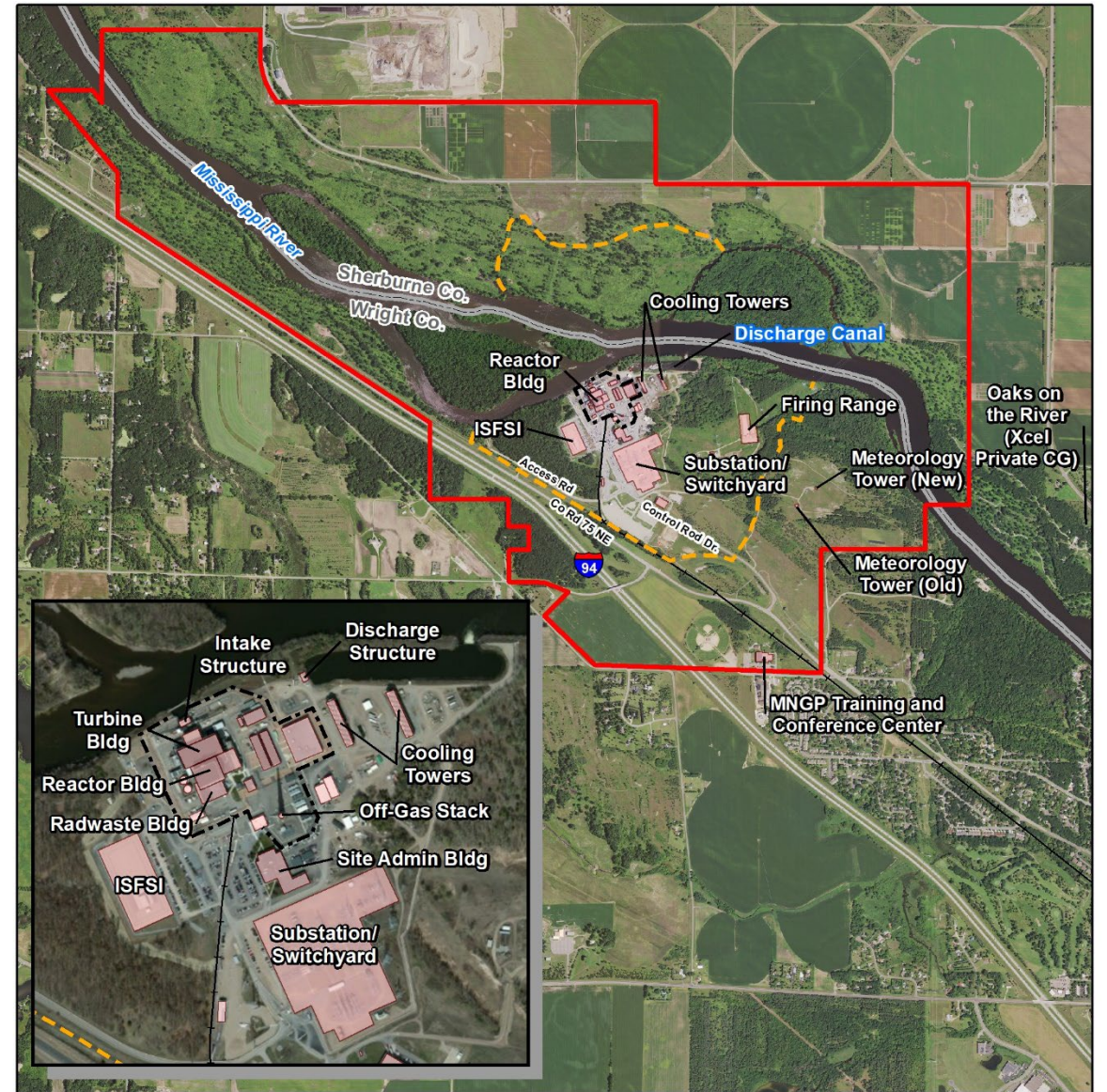
- One General Electric BWR
- 2004 Mwt
- Net Capacity: 640 Mwe
- Capital improvements include uprate & efficiencies since initial LR
- No refurbishment anticipated for subsequent period of extended operation (SPEO)

Monticello Nuclear Generating Plant

	OLs	40 Yrs	60 Yrs	80 Yrs
Unit 1	1970	2010	2030	2050


















Plant Aerial

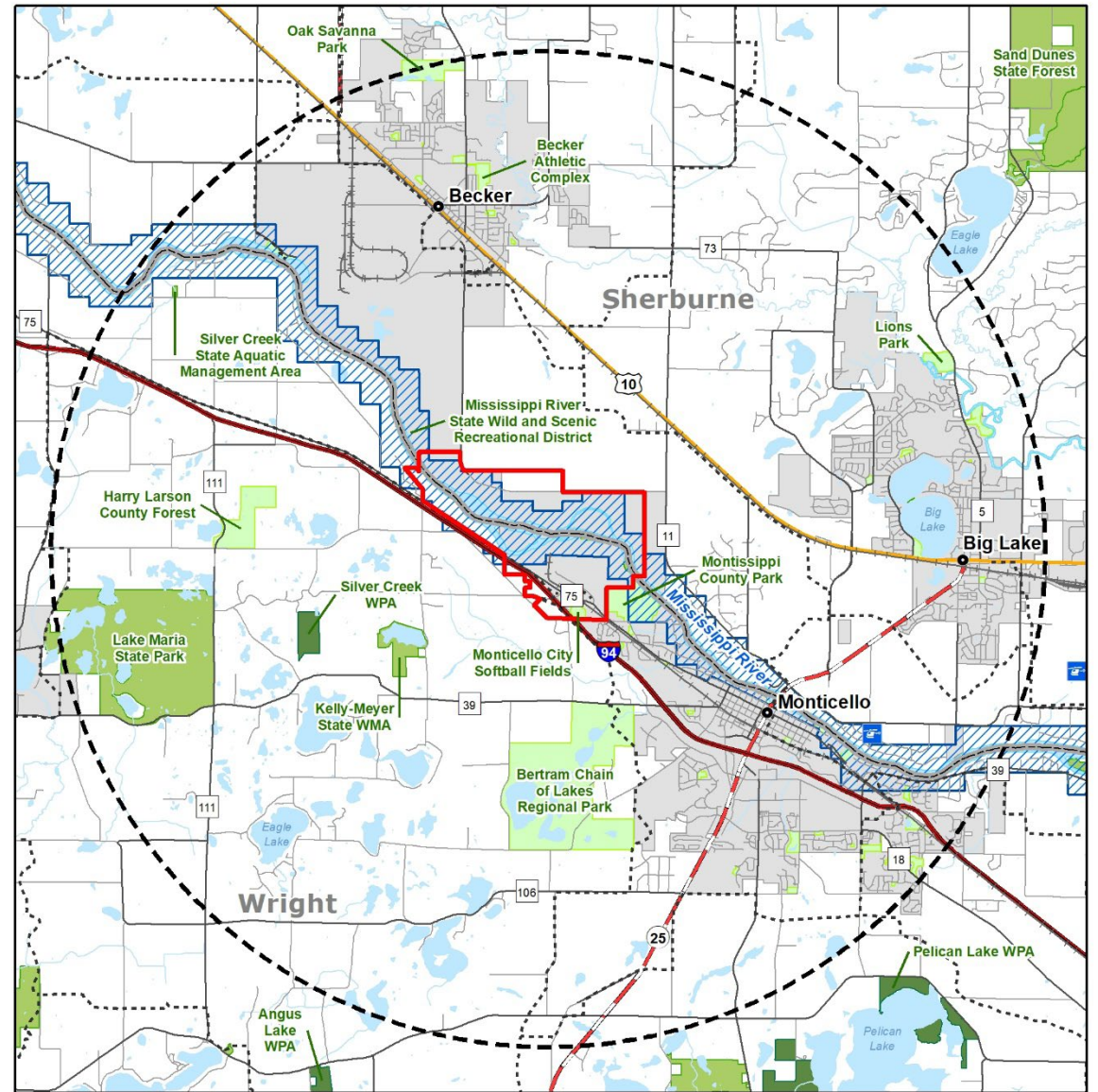
- MNGP is owned by Xcel Energy, the licensee and applicant, and operated by Northern States Power Company.
- The MNGP plant site is located within the city limits Monticello, Minnesota, on the southern bank of Mississippi River.
- The property (approx. 2000 acres) straddles the river and is located in Wright and Sherburne Counties, MN.
- The MNGP EAB falls within the site boundary.



Vicinity (6-mile) Map

Legend

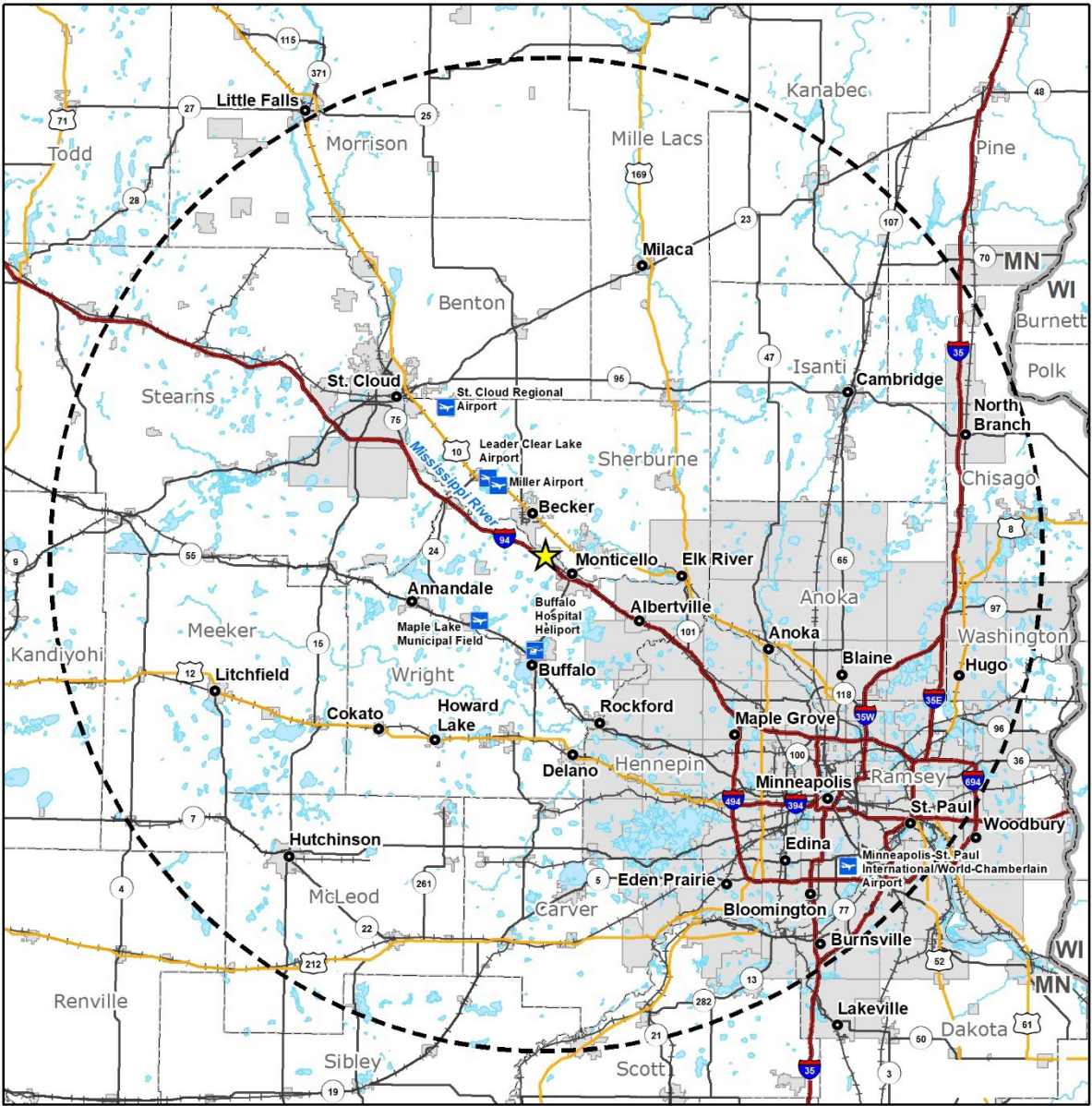
- Community
-  Heliport
-  Interstate
-  U.S. Route
-  State Highway
-  County Road
-  Local Road
-  Railroad
-  Snowmobile Trail
-  Surface Water
-  Federal
-  State
-  Local
-  Recreational District
-  MNGP Site Boundary
-  6-Mile Radius
-  County
-  Place



Region (50-mile) Map

Legend

- ★ MNGP
- Community
- ✈ Airport
- 🚁 Heliport
- 🌊 Surface Water
- ⬢ 50-Mile Radius
- Interstate
- U.S. Route
- State Highway
- Railroad
- ▭ Place
- ▭ County
- ▭ State



Discussion Items

- Methodology
 - Regulatory
- Permits / Authorizations
 - Coastal Zone Management Act (CZMA)
 - Clean Water Act (CWA) 401 Certification
 - MPCA / NPDES
 - CWA 316(a) and 316(b)
- Consultations & Public Communications
 - Consultations with agencies and Native American Tribes will occur and all received responses will be included in the SLRA ER.

Discussion Items, Contd.

- MNGP does not use High Burnup Fuel
- Groundwater Use
- Severe Accident Mitigation Alternatives (SAMA) Analysis Status
 - Current PRA
 - SLR Nuclear Energy Institute (NEI) 17-04, Rev 1
- Circulating Water System
- Independent Spent Fuel Storage Installation
- Alternatives Analysis

Discussion Items: Ecology & Cultural Resources

Critical Habitat

- No designated critical habitat is listed for Sherburne or Wright counties.

Essential Fish Habitat

- No essential fish habitat (EFH) is located within the vicinity of MNGP, nor were any EFH areas protected from fishing.

Habitat Areas of Particular Concern

- No habitat areas of particular concern (HAPC) located within the six-mile vicinity of MNGP.

Threatened and Endangered Species

- Three Federally listed threatened, endangered or candidate species are listed within Sherburne and Wright Counties.
- Twenty-two state listed species are located within Sherburne and Wright counties.

Cultural Resources

- The MOSAP and SHPO databases list no cultural resources within the MNGP site.

Lessons Learned

SLR Review

- Incorporate lessons learned from previously submitted ER & SAMA analyses into the MNGP ER and basis documents
 - SAMA Evaluations
 - Agency Consultations
 - Alternatives
- Review and incorporate applicable information into MNGP ER based on previously submitted SLR ER RAIs (e.g., PSL, PBN, PTN, SPS, ONS, PBAPS)
- Allocate sufficient time to test IT resources (e.g., access to e-Portal and Microsoft Teams) and offer to walk through the organization presented on the e-Portal prior to environmental audit.

Discussion Regarding the Recent Orders

- February 24, 2022 NRC Memorandum and Orders and SECY-21-0066
- Xcel Initial Thoughts on Strategy

Closing Remarks

XCEL

NRC

