

Cornell Hydroelectric Project Licensing
FERC Project No. 2639

Notice of Intent to Relicense
Request to Use the Traditional Licensing Process
Pre-Application Document
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**NOTICE OF INTENT
BEFORE THE FEDERAL ENERGY REGULATORY COMMISSION
TO FILE AN APPLICATION
FOR NEW LICENSE
CORNELL HYDROELECTRIC PROJECT
FERC PROJECT NO. 2639
XCEL ENERGY SERVICES, INC. ON BEHALF OF NORTHERN STATES POWER**

In accordance with 18 C.F.R. Section 5.5, Xcel Energy Services Inc., on behalf of Northern States Power Company, a Wisconsin corporation, hereby declares its intent to file an application for a new license for an existing hydroelectric development at the Cornell Hydroelectric Project as described below.

Information Required Pursuant to 18 C.F.R. §§ 5.5 and 16.6(b)

1. Potential License Applicant's Name and Address

The licensee's name and address are:

Northern States Power Company – Wisconsin
Attn: William P. Zawacki
Director of Regional Generation
1414 W Hamilton Ave
PO Box 8
Eau Claire, WI 54702
william.p.zawacki@xcelenergy.com

2. Project Number

The FERC project number is 2639.

3. License Expiration Date

The license expiration date is November 30, 2023.

4. Statement of Intent

Xcel Energy Services Inc., on behalf of Northern States Power Company, a Wisconsin corporation, unequivocally intends to file an application for a new license for the Cornell Hydroelectric Project (FERC No. 2639) and has requested permission to use the Commission's Traditional Licensing Process.

5. Principal Project Works and Project Description

The principal project works consist of a 42-foot-long bulkhead section with intake with a nominal top elevation of approximately 1,010.0 feet National Geodetic Vertical Datum 1929 (NGVD), a 131-foot-long powerhouse with integral intake, an 85-foot-long gated spillway section with a nominal top elevation of 1008.0 feet NGVD containing two steel radial gates 37 feet wide and 23.3 feet high, a 292-foot-long gated spillway with nominal top elevation of 1004.2 feet NGVD containing twelve 20-foot long by 16.75-foot high steel radial gates, a 210-foot-long overflow spillway with 48-inch high flashboards installed to provide a nominal top elevation of the boards 1002.2 feet NGVD, a 91-foot-long earthen embankment

with a concrete core wall with a nominal top elevation of 1,010.0 feet NGVD, and an outdoor substation with a 115 kV electric transmission line.

The powerhouse contains three Horizontal shaft, tube-type, hydraulic turbines with fixed blade propeller runners and fixed vanes. Each turbine is rated at 13,900 horsepower (hp) when operating at a speed of 100 revolutions per minute (rpm) under a net head of 36 feet. Each turbine is controlled by a hydraulically-operated 24-foot-wide by 24-foot high radial head gate in the front part of the powerhouse.

The powerhouse also contains one vertical hydraulic turbine with a propeller-type runner operating at a nominal head of 36 feet of head that is used for release of the minimum flow requirements.

Three horizontal-shaft, forced air-cooled, enclosed synchronous generators with static excitation. Each generator is rated at 11,111 kilovolt-amperes (kVA), 0.9 power factor, 10,000 kilowatts (kW), 7.2 kilovolts (kV), 1000 rpm, three phase 891 amperes per phase at 60° C rise. Each static excitation unit is 170 kw. Each generator is connected to the 7.2kV substation bus through an air circuit breaker.

One vertical shaft, air-cooled, synchronous generator with brushless rotating main shaft driven exciter, forced oil lubrication, 7.2 kV, 800 kVA, 750 kW generator running at 450 rpm. This generator operates on a constant stream flow controlled by wicket gates with motor operated limit torque operation.

6. Location of the Project

The location of the project is as follows:

State:	Wisconsin
County:	Chippewa
Stream:	Lower Chippewa River-River Mile 103
Nearby Communities:	City of Cornell, Wisconsin; Town of Birch Creek, Wisconsin; Town of Lake Holcombe, Wisconsin; and Town of Estella, Wisconsin
Other:	Located in northwest Chippewa County, approximately 40 miles by road northeast of the City of Eau Claire, Wisconsin, and approximately 115 miles east by road of the City of St. Paul, Minnesota.

7. Installed Plant Capacity

The plant has an installed capacity of 30.75 MW.

8. Names and Mailing Addresses

- *Every county in which any part of the project is located, and in which any Federal facility that is used or to be used by the project is located:*

County:	Chippewa
Contact name:	Jaclyn J. Sadler, Chippewa County Clerk
Mailing Address:	711 N. Bridge Street Chippewa Falls, WI 54729 jsadler@co.chippewa.wi.us

- *Every city, town, or similar local political subdivision*

(A) *in which any part of the project is or is to be located and any Federal facility that is or is to be used by the project is located:*

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Tracey Larson
Town Clerk
Town of Lake Holcombe
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Robin Stender
Town Clerk
Town of Birch Creek
26344 240th Street
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(B) *that has a population of 5,000 or more people and is located within 15 miles of the existing proposed project dam:*

None.

- *Every irrigation district, drainage district, or similar special purpose political subdivision*

(A) *in which any part of the project is or is proposed to be located and any Federal facility that is or is proposed to be used by the project is located;*

Northwest Regional Planning Committee
1400 S. River St.
Spooner, WI 54801-8692

(B) *that owns, operates, maintains, or uses any project facility or any Federal facility that is or is proposed to be used by the project:*

None.

- *Every other political subdivision in the general area of the project or proposed project that there is reason to believe would likely be interested in, or affected by, the notification:*

None.

- *Indian tribes:*

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