NorthWestern® Energy Delivering a Bright Future

Thompson Falls Hydroelectric Relicensing Stakeholder Workshop

December 4, 2018

AGENDA

- 1. Introductions
- 2. Safety Moment
- 3. Purpose of the Workshop
- 4. Relicensing 101 Refresher
- 5. Overview of the Baseline Environmental Document (BED)
- 6. Breakout Sessions



	Project History
Date	Event
1912 – 1916	Project construction
1975	Original FERC license expired
1979	Current FERC license issued
1990	Major license amendment authorizing construction of new powerhouse
1995	New powerhouse construction completed
2009	License amendment authorizing construction of fish ladder
2011	Fish ladder starts operation
December 31, 2025	Current license expiration date

Relicensing 101 Refresher

Integrated Licensing Process (ILP)

- Default process
- Predictable scheduling in prefiling and postfiling stages
- FERC study plan determination







FERC's Integrated Licensing Process

Pre-Filing Steps



NOTE: These dates are approximate and reflect required timeframes and MG's optimism





FERC's Integrated Licensing Process

Post-Filing Steps





- Baseline Environmental Document developed to summarize existing information about the Thompson Falls Hydroelectric Project
- Significant information developed through the collaborative efforts of NorthWestern Energy, resources agencies, public, and other stakeholders at Thompson Falls
- Voluntarily prepared by NorthWestern Energy to help prepare for the upcoming FERC relicensing of Thompson Falls
- BED is precursor to the Pre-Application Document (PAD)
 - PAD is a FERC-required report
 - PAD will be filed July 2020





- Describe the Thompson Falls Project
- Summarize existing, available information on the Project
- Request that stakeholders share any additional reports, data, or information that would help inform the Thompson Falls relicensing
- Provide a basis for the FERC-required Pre-application Document





- Authors are NorthWestern staff supported by a consultant team of technical specialists
- Reviewed information in NorthWestern files
- Collected information publicly available on the web
- Outreach to Indian Tribes, resource agencies and others



What Information Is In the BED?

Project Description



Key Project Features

- Total installed capacity 92.6 MW
 - Average generation 58 MW
 - Power for 35,000 40,000 households
- Full powerhouse flow ~23,000 cfs
- Reservoir ~12 miles in length, ~1,446 surface acres
- Active Storage in Reservoir ~15,000 acre-feet
 - For comparison, Flathead Lake is 1,200,000 acre-feet



Aerial View of Thompson Falls Hydroelectric Project









- Project operated to provide baseload and flexible generation, within the requirements of the FERC license
- Typically operated to maximize generation across all units with available flows
- When total flow exceeds powerhouse capacity, spillway panels and radial gates used to pass excess flow
 - Main Channel Dam is opened first
 - If flow exceeds 70,000 cfs, Dry Channel Spillway used to pass flow



- Fisheries
 - Funds to purchase water rights from Painted Rocks Reservoir for instream flows in the Bitterroot River
 - Establish Technical Advisory Committee
 - Annual funding of Adaptive Management Funding Account
 - Construction and operation of fish ladder
- Recreational Improvements
 - Interpretive information and park upgrades
 - Improvements to parking areas, trails, benches, boat launches, dock, park
- Cultural Resource Protection
 - Rehabilitate historic High Bridge
 - Historic American Engineering Record documentation
 - Cultural resources inventories
- Studies and monitoring of multiple resources





- - Geology, Topography, Soils
 - Water Resources, Quality and Quantity
 - Fisheries and Aquatic Resources
 - Wildlife and Botanical Resources
 - Threatened, Endangered, Proposed, Candidate and Sensitive Species, and Species of Concern
 - Floodplains, Wetlands, Riparian, Littoral Habitat
 - Recreation and Land Use
 - Aesthetic Resources
 - Cultural Resources
 - Tribal Resources
 - Socio-economic Resources





- NorthWestern is required to file a PAD and the Notice of Intent between 5 and 5.5 years before license expiration
 - July 2020 is target date
- After the PAD is filed, there will be scoping meetings and a site visit
- A Study Plan is developed and implemented
- NorthWestern's license application is due no later than December 31, 2023





The PAD will include:

- Additional information gathered... from you!
- Additional information gathered by NorthWestern over the next 12-18 months
- A process plan and schedule
- Additional detail on project operations, focus on last 5 years
- Preliminary issues and studies list for each resource area
- Documentation of consultation with stakeholders





Please provide additional information to NorthWestern Energy by February 22, 2019.

Send to:

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Balance generation of clean, renewable hydropower with conservation of public resources



