

TYEE LAKE HYDROELECTRIC PROJECT

FERC No. 3015

EXHIBIT C

CONSTRUCTION HISTORY

**TYEE LAKE HYDROELECTRIC PROJECT
(FERC No. 3015)**

**APPLICATION FOR LICENSE AMENDMENT
FOR MAJOR PROJECT – EXISTING DAM**

**EXHIBIT C
CONSTRUCTION HISTORY**

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1.0 CONSTRUCTION HISTORY

1.1 Original Construction

The Tyee Lake Hydroelectric Project (Tyee Lake Project) is located at the head of Bradfield Canal, approximately 40 miles southeast of Wrangell, 60 miles northeast of Ketchikan, and 70 miles southeast of Petersburg, Alaska. Construction of the Tyee Lake Project began on October 20, 1981, and was completed in 1984, with commencement of commercial operations beginning in May 1984.

1.2 Modifications or Additions to the Existing Project

1.2.1 2013 Outlet Weir Construction

License Article 8 required the Licensee to maintain staff gages for flow measurements at the Tyee Lake Project. Historically, the Licensee and the USGS worked together to measure the outflow above and below the Tyee Lake Project, however the build-up of a logjam resulting in poor quality measurements necessitated removal and installation of a weir at the natural outflow of Tyee Lake to prevent future issues.

Removal of the logjam and installation of the weir and all necessary facilities was completed in October 2013, and by Order dated March 21, 2014, FERC approved the as-built drawings for the weir.

1.2.2 2014 Weir Repair

The weir was inspected in 2014 following high flows and was found to have significant leakage around the left and right abutments. Due to leakage in several locations, 45 yards of fill was placed to preserve the flow monitoring capabilities of the weir.

2.0 PROJECT SCHEDULE OF NEW DEVELOPMENT

Table 2-1 presents the proposed schedule for installing the third turbine and generating unit.

Table 2-1 Proposed Schedule for Installation of Third Turbine Unit.

Task	Estimated Start	Estimated Finish
Advance Procurement of Turbine & Generator	1/1/2025	7/1/2026
Advance Procurement of Transformer	1/1/2025	7/1/2027
Construction Mobilization	1/1/2026	3/31/2026
Remaining Equipment Lead Time	4/1/2026	7/1/2026
Install Turbine and Generator Embedded Parts	5/1/2026	7/1/2026
Concrete	6/1/2026	7/21/2026
Dewater Tunnel*	7/7/2026	7/15/2026
Install Turbine Shutoff Valve**	9/15/2026	10/15/2026
Install Turbine/Generator & Winter shutdown	10/15/2026	3/31/2027
Controls, Switchgear, and Misc. Systems	03/31/2027	6/30/2027
Switchyard Work	5/31/2027	7/20/2027
Outage for Connection	7/15/2027	7/20/2027
Wet Test	7/20/2027	8/1/2027
Commissioning	8/1/2027	10/31/2027

* If necessary, dewatering would occur within the ADF&G recommended in-water work window May 1 – July 31.

** Load Sensitive; would only occur if dewatering required.