

Goat Lake LIHI Recertification Application 2021

Recertification Checklist

Facility Name:	Goat Lake
LIHI Certificate No:	26
Application Date:	7/30/2021
1. Updates and Changes Needed to Facility Webpage	<input checked="" type="checkbox"/> N/A – webpage is accurate. <input type="checkbox"/> Changes are needed. Describe or attach
2. Updated Facility Information Table:	<input checked="" type="checkbox"/> Updated form attached, either the Single Facility Form or Multiple Facility Excel sheet
3. During the current LIHI term, have there been any:	
FERC license or exemption proceedings, applications, amendments and/or FERC orders?	<input type="checkbox"/> N/A, facility is not under FERC jurisdiction. <input checked="" type="checkbox"/> No. <input type="checkbox"/> Yes – describe here or attach.
Water Quality Certification (WQC) or amendment proceedings?	<input checked="" type="checkbox"/> N/A, no WQC for the facility. <input type="checkbox"/> No. <input type="checkbox"/> Yes – describe here or attach.
FERC-required facility or operational changes?	<input checked="" type="checkbox"/> No. <input type="checkbox"/> Yes – describe here or attach.
Changes to facility-related management plans, settlement agreements, MOUs or other agreements?	<input checked="" type="checkbox"/> No. <input type="checkbox"/> Yes – describe here or attach.
Any formal or informal resource agency communications related to the LIHI criteria?	<input checked="" type="checkbox"/> No. <input type="checkbox"/> Yes – describe here or attach.
4. During the current LIHI term, have there been any activities or changes at the facility:	
Environmental upsets (e.g., oil spills, erosion events, damaging flood events)?	<input checked="" type="checkbox"/> No. <input type="checkbox"/> Yes – describe here or attach.
Changes in the environmental conditions at the facility (e.g., significant land clearing, dredging, flood damage repairs, construction activities)?	<input checked="" type="checkbox"/> No. <input type="checkbox"/> Yes – describe here or attach.

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<p>Any other issues related to the LIHI criteria that have arisen (e.g., agency comments or new recommendations, stakeholder inquiries, etc.)?</p>	<p><input checked="" type="checkbox"/> No issues have arisen. <input type="checkbox"/> Yes – describe here or attach.</p>
<p>5. During the current LIHI term have there been any:</p>	
<p>Deviations or excursions from regulatory requirements?</p>	<p><input type="checkbox"/> None have occurred. <input checked="" type="checkbox"/> Yes – describe here or attach.</p> <p>Reported minimum flow deviation in 2018 https://elibrary.ferc.gov/eLibrary/filedownload?fileid=14973260 FERC letter, not a violation: https://elibrary.ferc.gov/eLibrary/filedownload?fileid=15411435</p>
<p>FERC compliance orders, notices of non-compliance or violations from FERC, from regulatory agencies, or from stakeholders or the general public?</p>	<p><input checked="" type="checkbox"/> None received. <input type="checkbox"/> Yes – describe here or attach.</p> <p>Describe the outcomes of any related actions or ongoing activities or attach.</p> <p>Provide links here or attach copies of all relevant documents.</p>
<p>6. Ecological Flows (if not captured above):</p>	
<p>Are there any temporary or permanent changes in impoundment operations that have occurred or are planned, including significant drawdowns (planned for maintenance or dam repairs or extended flashboard removal); and/or changes in flow release quantity or schedules, including white water releases?</p>	<p><input checked="" type="checkbox"/> No changes have occurred or are planned. <input type="checkbox"/> Yes – describe here or attach.</p> <p>Provide links here or attach copies of all relevant documents.</p>
<p>7. Water Quality:</p>	
<p>If applicable, are there any amendments or applications for amendment to the facility’s Water Quality Certification (WQC) during the current LIHI term?</p>	<p><input checked="" type="checkbox"/> N/A, no WQC for the facility. <input type="checkbox"/> No WQC amendment proceedings. <input type="checkbox"/> Yes, there have been amendment proceedings. Describe here or attach.</p> <p>Provide links here or attach copies of all relevant documents.</p>

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<p>If there is a WQC and you selected Standard B-2, Agency Recommendation in the prior LIHI application, is the WQC is now > 10 years old?</p> <p>Provide a letter from the state water quality agency confirming that the terms and conditions of the existing WQC are still valid and applicable to the facility.</p>	<p><input checked="" type="checkbox"/> N/A, no WQC for the facility. <input checked="" type="checkbox"/> No, did not select Standard B-2. <input type="checkbox"/> No, WQC is still < 10 years old. <input type="checkbox"/> Yes, WQC is > 10 years old - attach agency letter or email.</p>
<p>Review the most recent published state impaired waters list (draft or final).</p> <p>Have there been any changes in the listing (new impairments, impairments removed, etc.) for the facility vicinity since the prior LIHI application?</p>	<p><input checked="" type="checkbox"/> No changes. <input type="checkbox"/> Yes.</p> <p>The project area is not listed as impaired on the most recently available 2018 list. https://dec.alaska.gov/water/water-quality/impaired-waters/</p>
<p>Identify any changes in stream designation such as state water quality classification changes for the river, Wild and Scenic Rivers designation, or other protected river status changes.</p>	<p><input type="checkbox"/> None identified. <input checked="" type="checkbox"/> Yes – describe here or attach.</p> <p>Alaska water quality standards most recently changed in March 2020 but no changes to the river or lake https://dec.alaska.gov/media/1046/18-aac-70.pdf</p>
<p>If water quality monitoring has been conducted at or near the facility by you or others during the current LIHI term, provide links to, or copies of, the final monitoring report, and if applicable, all related FERC and agency consultation and communications.</p>	<p><input checked="" type="checkbox"/> N/A, no monitoring conducted. <input type="checkbox"/> Yes.</p> <p>Provide links here or attach copies of all relevant documents.</p>
<p>8. Upstream and Downstream Fish Passage:</p>	
<p>Have there been any completed or ongoing fish passage studies during the current LIHI term, including any data collected on fish passage (e.g., return numbers, changes made in seasonal operations, mortalities reported, effectiveness results)?</p>	<p><input checked="" type="checkbox"/> N/A, no fish passage. <input checked="" type="checkbox"/> No studies have occurred or are planned. <input type="checkbox"/> Yes, studies have occurred or are planned. Describe here or attach.</p> <p>No migratory fish, natural falls downstream. Any fish in lake that moved downstream would not likely survive the steep drop in the bypass.</p>

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<p>Have there been any temporary or permanent changes in passage facilities or related operations that have occurred during the current LIHI term, or that are planned?</p>	<p><input checked="" type="checkbox"/> N/A, no fish passage. <input type="checkbox"/> No changes have occurred or are planned. <input type="checkbox"/> Yes, changes have occurred or are planned. Describe here or attach.</p> <p>Provide links here or attach copies of all relevant documents.</p>
<p>9. Shoreline and Watershed Protection:</p>	
<p>Are there any new or revised agency watershed-related management plans that may affect the facility (e.g., watershed management plan, fishery restoration plan, recovery plan for threatened or endangered species, or other agency plans)?</p>	<p><input checked="" type="checkbox"/> None identified. <input type="checkbox"/> Yes – describe here or attach.</p> <p>Provide links here or attach copies of all relevant documents.</p> <p>Describe whether, and if so, how any management plans affect the facility and any operational or facility changes that have been made or may be needed in the future to comply with relevant plans.</p>
<p>10. Threatened and Endangered Species:</p>	
<p>Conduct a U.S. Fish and Wildlife Service IPaC online data check (https://ecos.fws.gov/ipac/) for newly observed or newly listed federally threatened and endangered species.</p>	<p><input checked="" type="checkbox"/> IPaC report attached.</p> <p>No listed species are present</p>
<p>Conduct a state threatened and endangered species data check (may require payment of fees) for newly observed or newly listed state threatened and endangered species.</p>	<p><input checked="" type="checkbox"/> State listed species report attached.</p> <p>In lieu of a report, see: http://www.adfg.alaska.gov/index.cfm%3Fadfg=s_pcialstatus.akendangered</p> <p>The only state-listed species are also federal-listed species, therefore not present.</p>
<p>Describe and summarize any studies of protected species at the facility that were completed or are ongoing during the current LIHI term.</p>	<p><input checked="" type="checkbox"/> No studies have occurred or are planned <input type="checkbox"/> Yes, studies have occurred or are planned. Describe here or attach.</p> <p>Provide links here or attach copies of all relevant documents.</p> <p>Describe whether, and if so, how study results affect the facility and any related operational or facility changes made or planned.</p>

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11. Cultural and Historic Resources:	
Are there any structural or operational changes that have occurred or are planned that affect or could affect cultural or historic resources?	<input checked="" type="checkbox"/> No changes have occurred or are planned. <input type="checkbox"/> Yes, changes have occurred or are planned. Describe here or attach. Provide links here or attach copies of any required consultation with the State or Tribal Historic Preservation Office(s) and/or local governments.
Describe and summarize any cultural or historic resource studies at the facility, that were completed or are ongoing during the current LIHI term including mitigation measures taken or planned.	<input checked="" type="checkbox"/> No studies have occurred or are planned <input type="checkbox"/> Yes, studies have occurred or are planned. Describe here or attach. Provide links here or attach copies of all relevant documents. Describe whether, and if so, how any management plans affect the facility and any operational or facility changes made or that may be needed in the future to comply with relevant plans.
12. Recreational Resources:	
Provide a description and current photos of formal and informal recreation areas/facilities along with a description of any temporary or permanent changes in recreational facilities or services, including consultation with recreational stakeholders during the current LIHI term or planned in the foreseeable future.	<input checked="" type="checkbox"/> N/A, the facility has no formal or informal recreation access. <input type="checkbox"/> Yes, recreation area photos attached. <input type="checkbox"/> No changes have occurred or are planned. <input type="checkbox"/> Yes, changes have occurred or are planned. Describe here or attach. Provide links here or attach copies of all relevant documents.
Provide a summary of inquiries and comments received from stakeholders about recreation sites during the current LIHI term, including any changes made as a result.	<input checked="" type="checkbox"/> No inquiries received. <input type="checkbox"/> Yes, inquiries were received. Describe here or attach. Provide links here or attach copies of all relevant documents.

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<p>If applicable, provide links to or copies of, any FERC Environmental and Recreation Inspection reports and reports of follow up activities during the current LIHI term.</p>	<p><input checked="" type="checkbox"/> N/A, no FERC inspection has occurred <input type="checkbox"/> Yes, FERC inspection occurred on: Click and use arrow button to enter date</p> <p>Describe any follow up activities and provide links here or attach copies of all relevant documents.</p>
<p>If there is a recreation management plan for the facility, provide any updates to the plan that have occurred during the current LIHI term.</p>	<p><input checked="" type="checkbox"/> N/A, no recreation management plan for the facility. <input type="checkbox"/> No changes have occurred or are planned. <input type="checkbox"/> Yes, updated recreation management plan attached.</p>
<p>13. Other:</p>	
<p>PLUS standards selections. See LIHI Handbook Appendix B Tables B.2 – B.9 for PLUS requirements.</p>	<p><input checked="" type="checkbox"/> No PLUS standards requested. <input type="checkbox"/> Yes, one or more PLUS standards are requested.</p> <p>Attach a detailed description including which LIHI criteria are applicable along with documentation to support the PLUS award(s).</p>
<p>Provide updated photos of key project features.</p>	<p><input checked="" type="checkbox"/> No changes in key project features. <input type="checkbox"/> Yes, photos attached.</p>
<p>If the FERC boundary has changed during the current LIHI term, provide updated maps.</p>	<p><input checked="" type="checkbox"/> No FERC boundary changes have occurred. <input type="checkbox"/> Yes, FERC boundary has changed, map attached.</p>
<p>Review and update the facility, agency and stakeholder contact lists from the prior LIHI application, including all requested contact information therein.</p>	<p><input type="checkbox"/> No changes in any contacts. <input checked="" type="checkbox"/> Yes, updated contact list(s) attached.</p>
<p>Provide a signed Sworn Statement and Waiver Form.</p>	<p><input checked="" type="checkbox"/> Signed statement attached.</p>

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Facility Information Table

Item	Information Requested	Response (include references to further details)
Name of the Facility	Facility name (use FERC project name or other legal name)	Goat Lake Hydroelectric Project (GLH)
Reason for applying for LIHI Certification	1. To participate in voluntary REC market (e.g., Green-e) 2. To satisfy the facility's own corporate sustainability goals 3. For the facility's corporate marketing purposes	GLH is applying for certification to participate in a voluntary REC market.
	If applicable, amount of annual generation (MWh and % of total generation) for which RECs are currently received or are expected to be received upon LIHI Certification	Not applicable.
Location	River name (USGS proper name)	Goat Lake, Pitchfork Falls Creek
	Watershed name - Select region, click on the area of interest until the 8-digit HUC number appears. Then identify watershed name and HUC-8 number from the map at: https://water.usgs.gov/wsc/map_index.html	Chilkat-Skagway (19010303)
	Nearest town(s), county(ies), and state(s) to dam	Skagway, Borough of Skagway, Alaska
	River mile of dam above mouth	Skagway River Mile 8.5 at lake outlet
	Geographic latitude of dam	59.526451
	Geographic longitude of dam	-135.183694
Facility Owner	Application contact names (Complete the Contact Form in Section B-4 also):	Jim Baumgartner, Alaska Power and Telephone Company
	Facility owner company and authorized owner representative name. For recertifications: If ownership has changed since last certification, provide the effective date of the change.	Alaska Power and Telephone Company Michael Garrett CEO No change
	FERC licensee company name (if different from owner)	Goat Lake Hydro, Inc.
Regulatory Status	FERC Project Number (e.g., P-xxxxx), issuance and expiration dates, or date of exemption	P-11077 Issued 07/15/1996 Expires 07/01/2046
	FERC license type (major, minor, exemption) or special classification (e.g., "qualified conduit", "non-jurisdictional")	Major

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Item	Information Requested	Response (include references to further details)
	Water Quality Certificate identifier, issuance date, and issuing agency name. Include information on amendments.	State of Alaska, Department of Environmental Conservation issued a WQC waiver on 10/03/1994
	Hyperlinks to key electronic records on FERC e-library website or other publicly accessible data repositories	<p>See 2016 LIHI Application appendices for FERC license, FERC EA, ADN-R-Water Permit: LAS 19193 & LAS 22488; and USFS Special Use Permit https://lowimpacthydro.org/wp-content/uploads/2020/07/GLH-LIHI-2016-Application-Appendices-revised.pdf</p> <p>1997 license amendment, project modification at construction: https://elibrary.ferc.gov/eLibrary/filedownload?fileid=8215815</p> <p>2003 license amendment operational elevation changes: https://elibrary.ferc.gov/eLibrary/filedownload?fileid=9634244</p> <p>2005 license amendment article 105: https://elibrary.ferc.gov/eLibrary/filedownload?fileid=10529527</p> <p>2014 license amendment article 105: https://elibrary.ferc.gov/eLibrary/filedownload?fileid=13438127</p>
Powerhouse	Date of initial operation (past or future for pre-operational applications)	1997
	Total installed capacity (MW) For recertifications: Indicate if installed capacity has changed since last certification	4 MW
	Average annual generation (MWh) and period of record used For recertifications: Indicate if average annual generation has changed since last certification	15,323 MWh 2020 15,500 MWh 2019 15,010 MWh 2018 15,719 MWh 2017
	<u>Mode of operation</u> (run-of-river, peaking, pulsing, seasonal storage, diversion, etc.) For recertifications: Indicate if mode of operation has changed since last certification	Sometimes block-loaded, but mostly load- following depending upon the inflow to the lake and how full the lake is.

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Item	Information Requested	Response (include references to further details)
	Number, type, and size of turbine/generators, including maximum and minimum hydraulic capacity and maximum and minimum output of each turbine and generator unit	One horizontal twin-jet Pelton turbine; 6000 HP total; total hydraulic capacity: 32 cfs
	Trashrack clear spacing (inches) for each trashrack	3/8 inch diameter spacing.
	Approach water velocity (ft/s) at each intake if known	Not known.
	Dates and types of major equipment upgrades For recertifications: Indicate only those since last certification	Not applicable
	Dates, purpose, and type of any recent operational changes For recertifications: Indicate only those since last certification	Not applicable
	Plans, authorization, and regulatory activities for any facility upgrades or license or exemption amendments	Not applicable
Dam or Diversion	Date of original dam or diversion construction and description and dates of subsequent dam or diversion structure modifications	n/a no dam, lake siphon
	Dam or diversion structure length, height including separately the height of any flashboards, inflatable dams, etc. and describe seasonal operation of flashboards and the like	n/a not a dam, no flashboards
	Spillway maximum hydraulic capacity	Uncontrolled spillway
	Length and type of each penstock and water conveyance structure between the impoundment and powerhouse	6,578-foot-long; HDPE and steel; 704 feet 30-inch HDPE; 959 feet 28-inch HDPE; 4,915 feet 24-inch HDPE
	Designated facility purposes (e.g., power, navigation, flood control, water supply, etc.)	Power supply
Conduit Facilities Only	Date of conduit construction and primary purpose of conduit	n/a – not a conduit project
	Source water	n/a
	Receiving water and location of discharge	n/a
Impoundment and Watershed	Authorized maximum and minimum impoundment water surface elevations For recertifications: Indicate if these values have changed since last certification	Maximum 2,925 ft. MSL Minimum 2,885 ft. MSL No change

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Item	Information Requested	Response (include references to further details)
	Normal operating elevations and normal fluctuation range For recertifications: Indicate if these values have changed since last certification	Maximum 2,925 ft MSL Minimum 2,395 ft MSL
	Gross storage volume and surface area at full pool For recertifications: Indicate if these values have changed since last certification	204 acres, 5,460 ac. ft No change
	Usable storage volume and surface area For recertifications: Indicate if these values have changed since last certification	Same as above
	Describe requirements related to impoundment inflow and outflow, elevation restrictions (e.g., fluctuation limits, seasonality) up/down ramping and refill rate restrictions.	None other than aesthetic flow of 8.5 cfs from June 1 – September 30 for 12 daylight hours each day
	Upstream dams by name, ownership and river mile. If FERC licensed or exempt, please provide FERC Project number of these dams. Indicate which upstream dams have downstream fish passage.	No dams above or below project; project uses an alpine lake
	Downstream dams by name, ownership, river mile and FERC number if FERC licensed or exempt. Indicate which downstream dams have upstream fish passage	No dams above or below project; project uses an alpine lake
	Operating agreements with upstream or downstream facilities that affect water availability and facility operation	n/a
	Area of land (acres) and area of water (acres) inside FERC project boundary or under facility control. Indicate locations and acres of flowage rights versus fee-owned property.	273 acres total, 204 acres in water, 69 acres of land
Hydrologic Setting	Average annual flow at the dam, and period of record used	8,840 acre-feet (2016-2020 average)

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Item	Information Requested	Response (include references to further details)
	Average monthly flows and period of record used	JAN—1,282 acre-feet (2016-2020 ave.) FEB—1,199 acre-feet MAR—1,128 acre feet APR—890 acre-feet MAY—329 acre-feet JUN—238 acre-feet JUL—342 acre-feet AUG—396 acre-feet SEP—350 acre-feet OCT—631 acre-feet NOV—817 acre-feet DEC—1,139 acre-feet
	Location and name of closest stream gaging stations above and below the facility	None
	Watershed area at the dam (in square miles). Identify if this value is prorated from gage locations and provide the basis for proration calculation.	4.2 sq. miles
	Other facility specific hydrologic information	n/a
Designated Zones of Effect	Number of zones of effect	3
	Type of waterbody (river, impoundment, bypassed reach, etc.)	Zone 1: reservoir Zone 2: bypass reach Zone 3: tailrace/downstream reach
	Upstream and downstream locations by river miles	Zone 1: RM 8.5 – RM 9.86 Zone 2: RM 7.37 – RM 8.5 Zone 3: RM 8.5 – RM 7.4
	Delimiting structures or features	Lake outlet separates zones 1 and 2. Powerhouse separates zones 2 and 3.

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Contacts Forms

A. Applicant-related contacts

Facility Owner:	
Name and Title	Michael Garrett, CEO
Company	Alaska Power & Telephone Company
Phone	360-385-1733 x160
Email Address	mike.g@aptalaska.com
Mailing Address	PO Box 3222 Port Townsend, WA 98368
Facility Operator (if different from Owner):	
Name and Title	
Company	
Phone	
Email Address	
Mailing Address	
Consulting Firm / Agent for LIHI Program (if different from above):	
Name and Title	
Company	
Phone	
Email Address	
Mailing Address	
Compliance Contact (responsible for LIHI Program requirements):	
Name and Title	Jim Baumgartner
Company	Alaska Power & Telephone Company (Goat Lake Hydro, Inc.)
Phone	360-385-1733
Email Address	james.b@aptalaska.com
Mailing Address	PO Box 3222 Port Townsend, WA 98368
Party responsible for accounts payable:	
Name and Title	Tracy Babauta, Lead Accounts Payable Specialist
Company	Alaska Power & Telephone Company
Phone	360-385-1733 ext 106
Email Address	tracy.b@aptalaska.com
Mailing Address	PO Box 3222 Port Townsend, WA 98368

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B. Current and relevant state, federal, and tribal resource agency contacts with knowledge of the facility

Agency Contact		Area of Responsibility
Agency Name	US Forest Service	<input type="checkbox"/> Flows
Name and Title	Tristan Fluharty, District Ranger	<input type="checkbox"/> Water Quality
Phone	907-586-8800	<input type="checkbox"/> Fish/Wildlife
Email address	tristan.fluharty@usda.gov	<input type="checkbox"/> Watershed
Mailing Address	USDA Forest Service Juneau Ranger District 8510 Mendenhall Loop Rd, Juneau, AK 99801	<input type="checkbox"/> T&E Species
		<input checked="" type="checkbox"/> Cultural/Historic
		<input checked="" type="checkbox"/> Recreation

Agency Contact		Area of Responsibility
Agency Name	USFWS	<input type="checkbox"/> Flows
Name and Title	Kevin Foley, Fish and Wildlife Biologist	<input type="checkbox"/> Water Quality
Phone	(907) 271-2788	<input checked="" type="checkbox"/> Fish/Wildlife
Email address	kevin_foley@fws.gov	<input type="checkbox"/> Watershed
Mailing Address	Ecological Services, Anchorage Office U.S. Fish and Wildlife Service 4700 BLM Rd Anchorage, AK. 99507	<input checked="" type="checkbox"/> T&E Species
		<input type="checkbox"/> Cultural/Historic
		<input type="checkbox"/> Recreation

Agency Contact		Area of Responsibility
Agency Name	NOAA NMFS	<input type="checkbox"/> Flows
Name and Title	Sean Eagan, Hydrologist	<input type="checkbox"/> Water Quality
Phone	(907) 586-7345	<input type="checkbox"/> Fish/Wildlife
Email address	sean.eagan@noaa.gov	<input type="checkbox"/> Watershed
Mailing Address	P.O. Box 21668 709 W. 9th Street Juneau, Alaska 99802-1668	<input type="checkbox"/> T&E Species
		<input type="checkbox"/> Cultural/Historic
		<input type="checkbox"/> Recreation

Agency Contact		Area of Responsibility
Agency Name	Alaska Dept. of Fish and Game	<input type="checkbox"/> Flows
Name and Title	Gregory Albrecht, Habitat Biologist	<input type="checkbox"/> Water Quality
Phone	907-465-6384	<input checked="" type="checkbox"/> Fish/Wildlife
Email address	greg.albrecht@alaska.gov	<input type="checkbox"/> Watershed
		<input type="checkbox"/> T&E Species
		<input type="checkbox"/> Cultural/Historic
		<input type="checkbox"/> Recreation
Mailing Address	802 3rd Street Douglas, AK 99824	

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Agency Contact		Area of Responsibility
Agency Name	Alaska DNR Mining, Lands and Water	<input checked="" type="checkbox"/> Flows
Name and Title	Clint Gundelfinger, Natural Resource Specialist	<input type="checkbox"/> Water Quality
Phone	(907)465-6363	<input type="checkbox"/> Fish/Wildlife
Email address	clint.gundelfinger@alaska.gov	<input type="checkbox"/> Watershed
Mailing Address	PO Box 111020 Juneau, AK 99811-1020	<input type="checkbox"/> T&E Species
		<input type="checkbox"/> Cultural/Historic
		<input type="checkbox"/> Recreation

C. Current stakeholder contacts that are actively engaged with the facility

Stakeholder Contact		Area of Responsibility
Organization Name		<input type="checkbox"/> Flows
Name and Title		<input type="checkbox"/> Water Quality
Phone		<input type="checkbox"/> Fish/Wildlife
Email address		<input type="checkbox"/> Watershed
Mailing Address		<input type="checkbox"/> T&E Species
		<input type="checkbox"/> Cultural/Historic
		<input type="checkbox"/> Recreation

2nd Edition LIHI Handbook Recertification Application Table and Checklist

Sworn Statement and Waiver Form

All applications for LIHI Certification must include the following sworn statement before they can be reviewed by LIHI:

SWORN STATEMENT

As an Authorized Representative of Alaska Power and Telephone Company, the Undersigned attests that the material presented in the application is true and complete.

The Undersigned acknowledges that the primary goal of the Low Impact Hydropower Institute's certification program is public benefit, and that the LIHI Governing Board and its agents are not responsible for financial or other private consequences of its certification decisions.

The Undersigned further acknowledges that if LIHI Certification of the applying facility is granted, the LIHI Certification Mark License Agreement must be executed prior to marketing the electricity product as LIHI Certified®.

The Undersigned further agrees to hold the Low Impact Hydropower Institute, the Governing Board and its agents harmless for any decision rendered on this or other applications, from any consequences of disclosing or publishing any submitted certification application materials to the public, or on any other action pursuant to the Low Impact Hydropower Institute's certification program.

FOR PRE-OPERATIONAL CERTIFICATIONS:

The Undersigned acknowledges that LIHI may suspend or revoke the LIHI Certification should the impacts of the facility, once operational, fail to comply with the LIHI program requirements.

Company Name: Alaska Power and Telephone Company (Goat Lake Hydro, Inc.)

Authorized Representative:

Name: Michael Garrett

Title: President/CEO

Authorized Signature: _____

Date: 8/11/2021

ATTACHMENTS

IPaC resource list

This report is an automatically generated list of species and other resources such as critical habitat (collectively referred to as *trust resources*) under the U.S. Fish and Wildlife Service's (USFWS) jurisdiction that are known or expected to be on or near the project area referenced below. The list may also include trust resources that occur outside of the project area, but that could potentially be directly or indirectly affected by activities in the project area. However, determining the likelihood and extent of effects a project may have on trust resources typically requires gathering additional site-specific (e.g., vegetation/species surveys) and project-specific (e.g., magnitude and timing of proposed activities) information.

Below is a summary of the project information you provided and contact information for the USFWS office(s) with jurisdiction in the defined project area. Please read the introduction to each section that follows (Endangered Species, Migratory Birds, USFWS Facilities, and NWI Wetlands) for additional information applicable to the trust resources addressed in that section.

Project information

NAME

Goat Lake Hydroelectric Project

LOCATION

Skagway County, Alaska



DESCRIPTION

Some(4,0 MW lake tap hydroelectric project.)

Local office

Anchorage Fish And Wildlife Conservation Office

☎ (907) 271-2888

📅 (907) 271-2786

4700 Blm Road

Anchorage, AK 99507

NOT FOR CONSULTATION

Endangered species

This resource list is for informational purposes only and does not constitute an analysis of project level impacts.

The primary information used to generate this list is the known or expected range of each species. Additional areas of influence (AOI) for species are also considered. An AOI includes areas outside of the species range if the species could be indirectly affected by activities in that area (e.g., placing a dam upstream of a fish population even if that fish does not occur at the dam site, may indirectly impact the species by reducing or eliminating water flow downstream). Because species can move, and site conditions can change, the species on this list are not guaranteed to be found on or near the project area. To fully determine any potential effects to species, additional site-specific and project-specific information is often required.

Section 7 of the Endangered Species Act **requires** Federal agencies to "request of the Secretary information whether any species which is listed or proposed to be listed may be present in the area of such proposed action" for any project that is conducted, permitted, funded, or licensed by any Federal agency. A letter from the local office and a species list which fulfills this requirement can **only** be obtained by requesting an official species list from either the Regulatory Review section in IPaC (see directions below) or from the local field office directly.

For project evaluations that require USFWS concurrence/review, please return to the IPaC website and request an official species list by doing the following:

1. Log in to IPaC.
2. Go to your My Projects list.
3. Click PROJECT HOME for this project.
4. Click REQUEST SPECIES LIST.

Listed species¹ and their critical habitats are managed by the [Ecological Services Program](#) of the U.S. Fish and Wildlife Service (USFWS) and the fisheries division of the National Oceanic and Atmospheric Administration (NOAA Fisheries²).

Species and critical habitats under the sole responsibility of NOAA Fisheries are **not** shown on this list. Please contact [NOAA Fisheries](#) for [species under their jurisdiction](#).

1. Species listed under the Endangered Species Act are threatened or endangered; IPaC also shows species that are candidates, or proposed, for listing. See the [listing status page](#) for more information. IPaC only shows species that are regulated by USFWS (see FAQ).
2. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

THERE ARE NO ENDANGERED SPECIES EXPECTED TO OCCUR AT THIS LOCATION.

Migratory birds

Certain birds are protected under the Migratory Bird Treaty Act¹ and the Bald and Golden Eagle Protection Act².

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats should follow appropriate regulations and consider implementing appropriate conservation measures, as described [below](#).

1. The [Migratory Birds Treaty Act](#) of 1918.
2. The [Bald and Golden Eagle Protection Act](#) of 1940.

Additional information can be found using the following links:

- Birds of Conservation Concern <http://www.fws.gov/birds/management/managed-species/birds-of-conservation-concern.php>
- Measures for avoiding and minimizing impacts to birds <http://www.fws.gov/birds/management/project-assessment-tools-and-guidance/conservation-measures.php>
- Nationwide conservation measures for birds <http://www.fws.gov/migratorybirds/pdf/management/nationwidestandardconservationmeasures.pdf>

THERE ARE NO MIGRATORY BIRDS OF CONSERVATION CONCERN EXPECTED TO OCCUR AT THIS LOCATION.

Tell me more about conservation measures I can implement to avoid or minimize impacts to migratory birds.

[Nationwide Conservation Measures](#) describes measures that can help avoid and minimize impacts to all birds at any location year round. Implementation of these measures is particularly important when birds are most likely to occur in the project area. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is a very helpful impact minimization measure. To see when birds are most likely to occur and be breeding in your project area, view the Probability of Presence Summary. [Additional measures](#) or [permits](#) may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

What does IPaC use to generate the migratory birds potentially occurring in my specified location?

The Migratory Bird Resource List is comprised of USFWS [Birds of Conservation Concern \(BCC\)](#) and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the [Avian Knowledge Network \(AKN\)](#). The AKN data is based on a growing collection of [survey, banding, and citizen science datasets](#) and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle ([Eagle Act](#) requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the [AKN Phenology Tool](#).

What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?

The probability of presence graphs associated with your migratory bird list are based on data provided by the [Avian Knowledge Network \(AKN\)](#). This data is derived from a growing collection of [survey, banding, and citizen science datasets](#).

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go to the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

How do I know if a bird is breeding, wintering, migrating or present year-round in my project area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating or year-round), you may refer to the following resources: [The Cornell Lab of Ornithology All About Birds Bird Guide](#), or (if you are unsuccessful in locating the bird of interest there), the [Cornell Lab of Ornithology Neotropical Birds guide](#). If a bird on your migratory bird species list has a breeding season associated with it, if that bird does occur in your project area, there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

What are the levels of concern for migratory birds?

Migratory birds delivered through IPaC fall into the following distinct categories of concern:

1. "BCC Rangewide" birds are [Birds of Conservation Concern](#) (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
2. "BCC - BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
3. "Non-BCC - Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the [Eagle Act](#) requirements (for eagles) or (for non-eagles) potential susceptibilities in offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).

Although it is important to try to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially eagles and BCC species of rangewide concern. For more information on conservation measures you can implement to help avoid and minimize migratory bird impacts and requirements for eagles, please see the FAQs for these topics.

Details about birds that are potentially affected by offshore projects

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the [Northeast Ocean Data Portal](#). The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the [NOAA NCCOS Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf](#) project webpage.

Bird tracking data can also provide additional details about occurrence and habitat use throughout the year, including migration. Models relying on survey data may not include this information. For additional information on marine bird tracking data, see the [Diving Bird Study](#) and the [nanotag studies](#) or contact [Caleb Spiegel](#) or [Pam Loring](#).

What if I have eagles on my list?

If your project has the potential to disturb or kill eagles, you may need to [obtain a permit](#) to avoid violating the Eagle Act should such impacts occur.

Proper Interpretation and Use of Your Migratory Bird Report

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated, and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please also look carefully at the survey effort (indicated by the black vertical bar) and for the existence of the "no data" indicator (a red horizontal bar). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a

starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list helps you know what to look for to confirm presence, and helps guide you in knowing when to implement conservation measures to avoid or minimize potential impacts from your project activities, should presence be confirmed. To learn more about conservation measures, visit the FAQ "Tell me about conservation measures I can implement to avoid or minimize impacts to migratory birds" at the bottom of your migratory bird trust resources page.

Facilities

Wildlife refuges and fish hatcheries

REFUGE AND FISH HATCHERY INFORMATION IS NOT AVAILABLE AT THIS TIME

Wetlands in the National Wetlands Inventory

Impacts to [NWI wetlands](#) and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local [U.S. Army Corps of Engineers District](#).

Please note that the NWI data being shown may be out of date. We are currently working to update our NWI data set. We recommend you verify these results with a site visit to determine the actual extent of wetlands on site.

This location overlaps the following wetlands:

LAKE

[L1UBH](#)

RIVERINE

[R3UBH](#)

A full description for each wetland code can be found at the [National Wetlands Inventory website](#)

Data limitations

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

Data exclusions

Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tubercid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

Data precautions

Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.