

LOW IMPACT HYDROPOWER INSTITUTE RECERTIFICATION APPLICATION

CERTIFICATION QUESTIONNAIRE

APRIL, 2014 REVISION

Bear River Hydroelectric Project (FERC No. P-20)

Background Information	
1) Name of the Facility as used in the FERC license/exemption.	Bear River Hydroelectric Project (FERC No. P-20)
2) Applicant's name, contact information and relationship to the Facility. Please use the Project Contact Form in Appendix D.	Mark Sturtevant, Managing Director, Hydro Resources PacifiCorp Energy 825 NE Multnomah, Suite 1500 Portland, OR 97232 Tel: 503.813.6680 Fax: 503.813.6659 Email: mark.sturtevant@pacificorp.com
3) Location of Facility including (a) the state in which Facility is located; (b) the river on which Facility is located; (c) the river-mile location of the Facility dam; (d) the river's drainage area in square miles at the Facility intake; (e) the location of other dams on the same river upstream and downstream of the Facility; and (f) the exact latitude and longitude of the Facility dam.	(a) State: Idaho (b) River: Bear River (c) River miles (approximate RM on Bear River) Soda Dam: RM 185 Grace Dam: RM 179 Oneida Dam: RM 143 (d) Drainage area: approx. 1,040 sq. mi. (parts of Bear Lake, and Middle Bear sub-basins)

	<p>(e) Location of other dams:</p> <table border="1" data-bbox="1003 277 1713 428"> <thead> <tr> <th></th> <th>Latitude</th> <th>Longitude</th> </tr> </thead> <tbody> <tr> <td>Last Chance diversion (downstream)</td> <td>42.60758</td> <td>-111.70666</td> </tr> <tr> <td>Cutler Dam (downstream)</td> <td>41.83643</td> <td>-112.04829</td> </tr> </tbody> </table> <p>(f) Locations of facility dams:</p> <table border="1" data-bbox="1003 505 1713 656"> <thead> <tr> <th></th> <th>Latitude</th> <th>Longitude</th> </tr> </thead> <tbody> <tr> <td>Soda Dam (upstream)</td> <td>42.64489</td> <td>-111.69633</td> </tr> <tr> <td>Grace Dam (upstream)</td> <td>42.58726</td> <td>-111.72816</td> </tr> <tr> <td>Oneida Dam (upstream)</td> <td>42.27579</td> <td>-111.74950</td> </tr> </tbody> </table>		Latitude	Longitude	Last Chance diversion (downstream)	42.60758	-111.70666	Cutler Dam (downstream)	41.83643	-112.04829		Latitude	Longitude	Soda Dam (upstream)	42.64489	-111.69633	Grace Dam (upstream)	42.58726	-111.72816	Oneida Dam (upstream)	42.27579	-111.74950
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4) Installed capacity.	<p>77 MW Soda Development: 14 MW Grace Development: 33 MW Oneida Development: 30 MW</p>																					
5) Average annual generation.	<p>Based on the past 30 years (1984 to 2013), the average annual generation of the project is 199.8 GWh. The average annual generation of each development is as follows: Soda Development: 25.07 GWh Grace Development: 122.11 GWh Oneida Development: 52.66 GWh</p>																					
6) Regulatory status.	<p>The developments were licensed as one project for a 30-year term by FERC Order dated December 22, 2003. A Settlement Agreement dated August 28, 2002 was incorporated into the license. Signatories to the Settlement Agreement included the resource agencies, tribes and non-governmental organizations that have jurisdiction and/or interest in the natural and cultural resources in the watershed (see Attachment 1 for a listing of the parties). Representatives from the signatory groups continue to serve in a consultation capacity as part of</p>																					

	<p>the Bear River Hydroelectric Projects Environmental Coordination Committee (ECC). The ECC has a role in the development of monitoring and adaptive management plans and the administration of post-licensing activities.</p> <p>The Cove development, which was also addressed in the Bear River Hydroelectric License and Settlement Agreement, was decommissioned with FERC approval by Order dated May 23, 2006.</p>
7) Reservoir volume and surface area measured at the normal maximum operating level.	<p>Soda - <i>Alexander reservoir</i></p> <ul style="list-style-type: none"> • Volume (total storage capacity) = 16,300 acre-feet • Surface area = 1,100 acres <p>Grace - <i>forebay</i></p> <ul style="list-style-type: none"> • Volume (total storage capacity) = 320 acre-feet • Surface area = 38 acres <p>Oneida - <i>Oneida Narrows reservoir</i></p> <ul style="list-style-type: none"> • Volume (active storage capacity) = 10,880 acre-feet • Surface area = 480 acres
8) Area occupied by non-reservoir facilities (e.g., dam, penstocks, powerhouse).	<p>Soda – 1 acre Grace – 32 acres Oneida – 9 acres</p>
9) Number of acres inundated by the Facility.	<p>Soda – 1,100 acres Grace – 38 acres Oneida – 480 acres</p>
10) Number of acres contained in a 200-foot zone extending around entire reservoir.	<p>Soda – 373 acres Grace – 79 acres Oneida – 265 acres</p>
11) Contacts for Resource Agencies and non-governmental organizations	<p>See Attachment 1.</p>

<p>12) Description of the Facility, its mode of operation (i.e., peaking/run of river) and photographs, maps and diagrams.</p>	<p>See Attachment 2.</p>
<p>Questions for “New” Facilities Only: If the Facility you are applying for is “new” (i.e., an existing dam that added or increased power generation capacity after August of 1998) please answer the following questions to determine eligibility for the program.</p>	<p>N/A</p>
<p>13) When was the dam associated with the Facility completed?</p>	<p>N/A</p>
<p>14) When did the added or increased generation first generate electricity? If the added or increased generation is not yet operational, please answer question 18 as well.</p>	<p>N/A</p>
<p>15) Did the added or increased power generation capacity require or include any new dam or other diversion structure?</p>	<p>N/A</p>
<p>16) Did the added or increased capacity include or require a change in water flow through the facility that worsened conditions for fish, wildlife, or water quality (for example, did operations change from run-of-river to peaking)?</p>	<p>N/A</p>
<p>17(a) Was the existing dam recommended for removal or decommissioning by resource agencies, or recommended for removal or decommissioning by a broad representation of interested persons and organizations in the local and/or regional community prior to the added or increased capacity?</p> <p>(b) If you answered “yes” to question 17(a), the Facility is not eligible for certification, unless you can show that the added or increased capacity resulted in specific measures to</p>	<p>N/A</p>

<p>improve fish, wildlife, or water quality protection at the existing dam. If such measures were a result, please explain.</p>		
<p>18(a) If the added or increased generation is not yet operational, has the increased or added generation received regulatory authorization (e.g., approval by the Federal Energy Regulatory Commission)? If not, the facility is not eligible for consideration; and</p> <p>(b) Are there any pending appeals or litigation regarding that authorization? If so, the facility is not eligible for consideration.</p>	<p>N/A</p>	
<p>A. Flows</p>	<p>PASS</p>	<p>FAIL</p>
<p>1) Is the Facility in Compliance with Resource Agency Recommendations issued after December 31, 1986 regarding flow conditions for fish and wildlife protection, mitigation and enhancement (including in-stream flows, ramping and peaking rate conditions, and seasonal and episodic instream flow variations) for both the reach below the tailrace and all bypassed reaches?</p>	<p>YES = Pass, Go to B N/A = Go to A2 Yes. See Attachment 3</p>	<p>NO = Fail</p>
<p>2) If there is no flow condition recommended by any Resource Agency for the Facility, or if the recommendation was issued prior to January 1, 1987, is the Facility in Compliance with a flow release schedule, both below the tailrace and in all bypassed reaches, that at a minimum meets Aquatic Base Flow standards or “good” habitat flow standards calculated using the Montana-Tennant method?</p>	<p>YES = Pass, go to B NO = Go to A3</p>	

3) If the Facility is unable to meet the flow standards in A.2., has the Applicant demonstrated, and obtained a letter from the relevant Resource Agency confirming that demonstration, that the flow conditions at the Facility are appropriately protective of fish, wildlife, and water quality?	YES = Pass, go to B	NO = Fail
B. Water Quality	PASS	FAIL
1) Is the Facility either: a) In Compliance with all conditions issued pursuant to a Clean Water Act Section 401 water quality certification issued for the Facility after December 31, 1986? Or b) In Compliance with the quantitative water quality standards established by the state that support designated uses pursuant to the federal Clean Water Act in the Facility area and in the downstream reach?	YES = Go to B2 Yes (B.1a). See Attachment 4	NO = Fail
2) Is the Facility area or the downstream reach currently identified by the state as not meeting water quality standards (including narrative and numeric criteria and designated uses) pursuant to Section 303(d) of the Clean Water Act?	YES = Go to B3 NO = Pass Yes. See Attachment 4	
3) If the answer to question B.2 is yes, has there been a determination that the Facility does not cause, or contribute to, the violation?	YES = Pass Yes. See Attachment 4	NO = Fail

C. Fish Passage and Protection	PASS	FAIL
1) Are anadromous and/or catadromous fish present in the Facility area or are they know to have been present historically?	YES = Go to C2 NO = Go to C6 No. There are no anadromous and/or catadromous fish present in the facility area nor were there any historic records of movement anadromous and/or catadromous fish through the area. The Bear River is a tributary to the Great Salt Lake; the basin is encircled by mountains and has no external drainage outlets.	
2) Is the Facility in Compliance with Mandatory Fish Passage Prescriptions for upstream and downstream passage of anadromous and catadromous fish issued by Resource Agencies after December 31, 1986?	YES = Go to C6 N/A = Go to C2	NO = Fail
3) Are there historic records of anadromous and/or catadromous fish movement through the Facility area, but anadromous and/or catadromous fish do not presently move through the Facility area (e.g., because passage is blocked at a downstream dam or the fish no longer have a migratory run)? a) If the fish are extinct or extirpated from the Facility area or downstream reach, has the Applicant demonstrated that the extinction or extirpation was not due in whole or part to the Facility?	YES = Go to C2a NO = Go to C3 YES = Go to C2b N/A = Go to C2b YES = Go to C5 N/A = Go to C3	NO = Fail

<p>b) If a Resource Agency Recommended adoption of upstream and/or downstream fish passage measures at a specific future date, or when a triggering event occurs (such as completion of passage through a downstream obstruction or the completion of a specified process), has the Facility owner/operator made a legally enforceable commitment to provide such passage?</p>		
<p>4) If, since December 31, 1986:</p> <p>a) Resource Agencies have had the opportunity to issue, and considered issuing, a Mandatory Fish Passage Prescription for upstream and/or downstream passage of anadromous or catadromous fish (including delayed installation as described in C.3.a above), and</p> <p>b) The Resource Agencies declined to issue a Mandatory Fish Passage Prescription,</p> <p>c) Was a reason for the Resource Agencies' declining to issue a Mandatory Fish Passage Prescription one of the following: (1) the technological infeasibility of passage, (2) the absence of habitat upstream of the Facility due at least in part to inundation by the Facility impoundment, or (3) the anadromous or catadromous fish are no longer present in the Facility area and/or downstream reach due in whole or part to the presence of the Facility?</p>	<p>NO = Go to C6 N/A = Go to C4</p>	<p>YES = Fail</p>

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<p>5) If C4 was not applicable:</p> <p>a) Are upstream and downstream fish passage survival rates for anadromous and catadromous fish at the dam each documented at greater than 95% over 80% of the run using a generally accepted monitoring methodology? Or</p> <p>b) If the Facility is unable to meet the fish passage standards in 5.a, has the Applicant either i) demonstrated, and obtained a letter from the U.S. Fish and Wildlife Service or National Marine Fisheries Service confirming that demonstration, that the upstream and downstream fish passage measures (if any) at the Facility are appropriately protective of the fishery resource, or ii) committed to the provision of fish passage measures in the future and obtained a letter from the U.S. Fish and Wildlife Service or the National Marine Fisheries Service indicating that passage measures are not currently warranted?</p>	<p>YES = Go to C6</p>	<p>NO = Fail</p>
<p>6) Is the Facility in Compliance with Mandatory Fish Passage Prescriptions for upstream and/or downstream passage of Riverine fish?</p>	<p>YES = Go to C7 N/A = Go to C7 Yes. See Attachment 5</p>	<p>NO = Fail</p>
<p>7) Is the Facility in Compliance with Resource Agency Recommendations for Riverine, anadromous and catadromous fish entrainment protection, such as tailrace barriers?</p>	<p>YES = Pass, go to D N/A = Pass, go to D N/A. See Attachment 5</p>	<p>NO = Fail</p>

D. Watershed Protection	PASS	FAIL
1) Is there a buffer zone dedicated for conservation purposes (to protect fish and wildlife habitat, water quality, aesthetics and/or low-impact recreation) extending 200 feet from the average annual high water line for at least 50% of the shoreline, including all of the undeveloped shoreline?	YES = Eligible for 3 extra years of certification; Go to D4	NO = Go to D2 No.
2) Has the Facility owner/operator established an approved watershed enhancement fund that: 1) could achieve within the project's watershed the ecological and recreational equivalent of land protection in D.1, and 2) has the agreement of appropriate stakeholders and state and federal resource agencies?	YES = Eligible for 3 extra years of certification; Go to D4 Yes. See Attachment 6 and Attachment 6a	NO = Go to D3
3) Has the Facility owner/operator established through a settlement agreement with appropriate stakeholders, with state and federal resource agencies agreement, an appropriate shoreland buffer or equivalent watershed land protection plan for conservation purposes (to protect fish and wildlife habitat, water quality, aesthetics and/or low impact recreation)?	YES = Go to D4 Yes. See Attachment 6	NO = Go to D4

<p>4) Is the facility in compliance with both state and federal resource agencies recommendations in a license approved shoreland management plan regarding protection, mitigation or enhancement of shorelands surrounding the project?</p>	<p>YES = Pass, go to E N/A = Pass, go to E</p> <p>N/A. See Attachment 6 (responses to D.2 and D.3) There is no shoreline management plan. However, it is notable that on April 11, 2006, FERC approved the shoreline buffer plan as required by Article 425 of the license and PacifiCorp has been implementing the plan in consultation with the ECC.</p>	<p>No = Fail</p>
<p>E. Threatened and Endangered Species Protection</p>	<p>PASS</p>	<p>FAIL</p>
<p>1) Are threatened or endangered species listed under state or federal Endangered Species Acts present in the Facility area and/or downstream reach?</p>	<p>YES = Go to E2 NO = Pass, go to F</p> <p>Yes. See Attachment 7</p>	
<p>2) If a recovery plan has been adopted for the threatened or endangered species pursuant to Section 4(f) of the Endangered Species Act or similar state provision, is the Facility in Compliance with all recommendations in the plan relevant to the Facility?</p>	<p>YES = Go to E3 N/A = Go to E3</p> <p>N/A. There are not any adopted recovery plans for threatened or endangered species with the potential for occurrence in the Bear River project area. A Recovery Outline for the Contiguous United States Distinct Population Segment of Canada Lynx (<i>Lynx canadensis</i>) has been prepared by the USFWS, but it has not been finalized and adopted</p>	<p>NO = Fail</p>

	http://ecos.fws.gov/docs/recovery_plan/final%20draft%20Lynx%20Recovery%20Outline%209-05.pdf .	
<p>3) If the Facility has received authorization to incidentally Take a listed species through: (i) Having a relevant agency complete consultation pursuant to ESA Section 7 resulting in a biological opinion, a habitat recovery plan, and/or (if needed) an incidental Take statement; (ii) Obtaining an incidental Take permit pursuant to ESA Section 10; or (iii) For species listed by a state and not by the federal government, obtaining authorization pursuant to similar state procedures; is the Facility in Compliance with conditions pursuant to that authorization?</p>	<p>YES = Go to E4 N/A = Go to E5</p> <p>N/A. No federally-listed species are known to occur in the project area requiring issuance of an ESA incidental take statement. This conclusion is reflected in ESA Section 7 consultations between FWS and FERC concerning the new project license.</p>	<p>NO = Fail</p>
<p>4) If a biological opinion applicable to the Facility for the threatened or endangered species has been issued, can the Applicant demonstrate that:</p> <p>a) The biological opinion was accompanied by a FERC license or exemption or a habitat conservation plan? Or</p> <p>b) The biological opinion was issued pursuant to or consistent with a recovery plan for the endangered or threatened species? Or</p> <p>c) There is no recovery plan for the threatened or endangered species under active development by the relevant Resource Agency? Or</p> <p>d) The recovery plan under active development will have no material effect on the Facility’s operations?</p>	<p>YES = Pass, go to F</p>	<p>NO = Fail</p>

5) If E.2 and E.3 are not applicable, has the Applicant demonstrated that the Facility and Facility operations do not negatively affect listed species?	YES = Pass, go to F Yes. As noted above, the project EIS and related correspondence from USFWS for the project concluded that current and proposed project operations would not affect listed or candidate species.	NO = Fail
F. Cultural Resource Protection	PASS	FAIL
1) If FERC-regulated, is the Facility in Compliance with all requirements regarding Cultural Resource protection, mitigation or enhancement included in the FERC license or exemption?	YES = Pass, go to G N/A = Go to F2 Yes. See Attachment 8	NO = Fail
2) If not FERC-regulated, does the Facility owner/operator have in place (and is in Compliance with) a plan for the protection, mitigation or enhancement of impacts to Cultural Resources approved by the relevant state or federal agency or Native American Tribe, or a letter from a senior officer of the relevant agency or Tribe that no plan is needed because Cultural Resources are not negatively affected by the Facility?	YES = Pass, go to G	NO = Fail
G. Recreation	PASS	FAIL
1) If FERC-regulated, is the Facility in Compliance with the recreational access, accommodation (including recreational flow releases) and facilities conditions in its FERC license or exemption?	YES = Go to G3 N/A = Go to G2 Yes. See Attachment 9	NO = Fail

<p>2) If not FERC-regulated, does the Facility provide recreational access, accommodation (including recreational flow releases) and facilities, as Recommended by Resource Agencies or other agencies responsible for recreation?</p>	<p>YES = Go to G3</p>	<p>NO = Fail</p>
<p>3) Does the Facility allow access to the reservoir and downstream reaches without fees or charges?</p>	<p>YES = Pass, go to H</p> <p>Yes. Access to the reservoirs and downstream reaches of the project is provided to the public without fees or charges.</p>	<p>NO = Fail</p>
<p>H. Facilities Recommended for Removal</p>	<p>PASS</p>	<p>FAIL</p>
<p>1) Is there a Resource Agency Recommendation for removal of the dam associated with the Facility?</p>	<p>NO = Pass, Facility is Low Impact</p> <p>No. The resource agencies have not recommended removal of the Oneida, Grace, or Soda dams.</p>	<p>YES = Fail</p>

APPENDIX D – PROJECT CONTACT FORM

Project Name: Bear River Hydroelectric Project FERC No. P-20

Project Owner/Operator:

Name and Title: Mark Sturtevant, Managing Director, Hydro Resources

Company: PacifiCorp Energy

Phone: 503-813-6680

Email address: mark.sturtevant@pacificorp.com

Please include this email address in LIHI e-newsletter distribution: no

Mailing Address: 825 NE Multnomah, Suite 1500, Portland, OR 97232

Consulting firm that manages LIHI program participation (if applicable):

Name _____

Company _____

Phone _____

Email address _____

Please include this email address in LIHI e-newsletter distribution _____

Mailing Address _____

Party responsible for compliance with LIHI certification requirements:

Name and Title: Todd Olson, Director, Compliance, Hydro Resources

Phone: 503-813-6657

Email address: todd.olson@pacificorp.com

Please include this email address in LIHI e-newsletter distribution: yes

Mailing Address: 825 NE Multnomah, Suite 1500, Portland, OR 97232

Party responsible for accounts payable:

Name and Title: Pooja Kishore, Renewable Resource Specialist

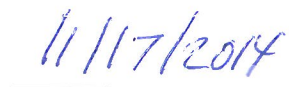
Phone: 503-813-7314

Email address: pooja.kishore@pacificorp.com

Mailing Address: 825 NE Multnomah, Suite 600, Portland, OR 97232



Project Owner/Operator Signature



Date