

LOW IMPACT HYDROPOWER INSTITUTE RECERTIFICATION APPLICATION

CERTIFICATION QUESTIONNAIRE

APRIL, 2014 REVISION

North Umpqua Hydroelectric Project (FERC No. P-1927)

Background Information																															
1) Name of the Facility as used in the FERC license/exemption.	North Umpqua Hydroelectric Project (FERC No. P-1927)																														
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.	<table border="1"> <thead> <tr> <th colspan="3">Lemolo No. 1 Dam</th> </tr> </thead> <tbody> <tr> <td>(a)</td> <td>State</td> <td>Oregon</td> </tr> <tr> <td>(b)</td> <td>River</td> <td>North Umpqua</td> </tr> <tr> <td>(c)</td> <td>River Mile</td> <td>92.98</td> </tr> <tr> <td>(d)</td> <td>Drainage (sq. mi.)</td> <td>162.1</td> </tr> <tr> <th colspan="3">Lemolo No. 2 Diversion</th> </tr> <tr> <td>(a)</td> <td>State</td> <td>Oregon</td> </tr> <tr> <td>(b)</td> <td>River</td> <td>North Umpqua</td> </tr> <tr> <td>(c)</td> <td>River Mile</td> <td>88.56</td> </tr> <tr> <td>(d)</td> <td>Drainage (sq. mi.)</td> <td>186.3</td> </tr> </tbody> </table>	Lemolo No. 1 Dam			(a)	State	Oregon	(b)	River	North Umpqua	(c)	River Mile	92.98	(d)	Drainage (sq. mi.)	162.1	Lemolo No. 2 Diversion			(a)	State	Oregon	(b)	River	North Umpqua	(c)	River Mile	88.56	(d)	Drainage (sq. mi.)	186.3
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Toketee Dam		
(a)	State	Oregon
(b)	River	North Umpqua
(c)	River Mile	75.37
(d)	Drainage (sq. mi.)	323.6
Soda Springs Dam		
(a)	State	Oregon
(b)	River	North Umpqua
(c)	River Mile	69.81
(d)	Drainage (sq. mi.)	424.8
Slide Creek Diversion		
(a)	State	Oregon
(b)	River	North Umpqua
(c)	River Mile	73.24
(d)	Drainage (sq. mi.)	326.1
Clearwater No. 1 Diversion		
(a)	State	Oregon
(b)	River	Clearwater
(c)	River Mile	8.13
(d)	Drainage (sq. mi.)	41.6
Clearwater No. 2 Diversion		
(a)	State	Oregon
(b)	River	Clearwater
(c)	River Mile	4.76
(d)	Drainage (sq. mi.)	60.2
Fish Creek Diversion		
(a)	State	Oregon

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	(b)	River	Fish Creek	
	(c)	River Mile	7.03	
	(d)	Drainage (sq. mi.)	61.7	
	(e)	Location of other dams:		
		Winchester Dam (North Umpqua downstream of PacifiCorp Facilities)	Latitude	Longitude
			43.2839	-123.3539
	(f)	Location of facility dam:		
		Facility Dam	Latitude	Longitude
		Lemolo No. 1 Dam	43.32263	-122.19436
		Lemolo No. 2 Diversion	43.35537	-122.24929
		Toketee Dam	43.26447	-122.42106
		Slide Creek Diversion	43.27512	-122.44873
		Soda Springs Dam	43.30284	-122.49474
	Clearwater No. 1 Diversion	43.24645	-122.28217	
	Clearwater No. 2 Diversion	43.25114	-122.33786	
	Fish Creek Diversion	43.21083	-122.42660	
4)	Installed capacity.	Total: 193.99 MW Lemolo No. 1: 31,990 kW Lemolo No. 2: 38,500 kW Clearwater No. 1: 15,000 kW Clearwater No. 2: 26,000 kW Toketee: 42,500 kW Fish Creek: 11,000 kW Slide Creek: 18,000 kW Soda Springs: 11,000 kW		

<p>5) Average annual generation.</p>	<p>Based on 30 years of data (1984 - 2013), the average annual generation of the project is 848.9 GWh. The average annual generation of each development is as follows: Lemolo No. 1: 140.8 GWh Lemolo No. 2: 167.9 GWh Clearwater No. 1: 52.0 GWh Clearwater No. 2: 57.3 GWh Toketee: 228.9 GWh Fish Creek: 51.0 GWh Slide Creek: 88.8 GWh Soda Springs: 62.3 GWh</p>
<p>6) Regulatory status.</p>	<p>The project was relicensed for a 35-year term by FERC Order, dated November 18, 2003. A Settlement Agreement, dated June 13, 2001, was adopted by the license. The Settlement Agreement was collaboratively developed with regulatory agencies that have jurisdiction over the natural resources in the watershed.</p>
<p>7) Reservoir volume and surface area measured at the normal maximum operating level.</p>	<p>Lemolo No. 1 Reservoir <ul style="list-style-type: none"> • Volume (total storage capacity) =11,752 acre-feet • Surface area = 419 acres Forebay <ul style="list-style-type: none"> • Volume (total storage capacity) = 46 acre-feet • Surface area = 12 acres Lemolo No. 2 <ul style="list-style-type: none"> • Volume (total storage capacity) = 230.6 acre-feet • Surface area = 24.2 acres Clearwater No. 1 <ul style="list-style-type: none"> • Volume (total storage capacity) = 30.2 acre-feet (reservoir) + 120.8 acre-feet (forebay only) • Surface area: 11.8-acre reservoir + 16.3-acre forebay </p>

	<p>Clearwater No. 2</p> <ul style="list-style-type: none"> • Volume (total storage capacity) = 70.7 acre-feet • Surface area: 8.6 acre <p>Toketee</p> <ul style="list-style-type: none"> • Volume (total storage capacity) = 1,051 acre-feet • Surface area: 96.9 acres <p>Fish Creek</p> <ul style="list-style-type: none"> • Volume (total storage capacity) = 110.3 acre-feet • Surface area = 9.3 acres <p>Slide Creek</p> <ul style="list-style-type: none"> • Volume (total storage capacity) = 43 acre-feet • Surface area = 2 acres <p>Soda Springs</p> <ul style="list-style-type: none"> • Volume (total storage capacity) = 411.6 acre-feet • Surface area = 31.5 acres 																		
<p>8) Area occupied by non-reservoir facilities (e.g., dam, penstocks, powerhouse).</p>	<p>Approximately 125 acres are occupied by non-reservoir facilities (including canals, penstocks, dam vicinity, housing areas, building grounds, parking lots etc.). This acreage is associated with the following facilities:</p> <table border="1" data-bbox="1039 1036 1486 1352"> <thead> <tr> <th>Facilities</th> <th>Acres</th> </tr> </thead> <tbody> <tr> <td>Lemolo No. 1</td> <td>4.3</td> </tr> <tr> <td>Lemolo No. 2</td> <td>0.9</td> </tr> <tr> <td>Clearwater No. 1</td> <td>2.4</td> </tr> <tr> <td>Clearwater No. 2</td> <td>7.0</td> </tr> <tr> <td>Toketee</td> <td>18.4</td> </tr> <tr> <td>Slide Creek</td> <td>1.3</td> </tr> <tr> <td>Soda Springs</td> <td>1.7</td> </tr> <tr> <td>Fish Creek</td> <td>1.9</td> </tr> </tbody> </table>	Facilities	Acres	Lemolo No. 1	4.3	Lemolo No. 2	0.9	Clearwater No. 1	2.4	Clearwater No. 2	7.0	Toketee	18.4	Slide Creek	1.3	Soda Springs	1.7	Fish Creek	1.9
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	canals	82.5																													
	penstocks	5.0																													
9) Number of acres inundated by the Facility.	The project reservoirs inundate approximately 625 acres (open water).																														
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10) Number of acres contained in a 200-foot zone extending around entire reservoir.	Approximately a combined 612 acres are contained within a 200 ft buffer of water and marsh around the impoundments.																														
11) Contacts for Resource Agencies and non-governmental organizations.	See Attachment 1.																														
12) Description of the Facility, its mode of operation (i.e., peaking/run of river) and photographs, maps and diagrams.	See Attachment 2.																														
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.	N/A																														

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13) When was the dam associated with the Facility completed?	N/A
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.	N/A
15) Did the added or increased power generation capacity require or include any new dam or other diversion structure?	N/A
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)?	N/A
<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 improve fish, wildlife, or water quality protection at the existing dam. If such measures were a result, please explain.</p>	N/A

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<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 (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 Yes. Anadromous fish are present due to completion of fish passage facilities in 2012 which have allowed passage of hundreds of adult steelhead and salmon into the project area.	
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 C3 Yes. See Attachment 5	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? 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	YES = Go to C2a C3a NO = Go to C3 C4 YES = Go to C2b C3b N/A = Go to C2b C3b YES = Go to C5 C6 N/A = Go to C3 C4	NO = Fail NO = Fail

<p>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 C4C5</p>	<p>YES = Fail</p>
<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>YES = Go to C6</p>	<p>NO = Fail</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>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 Yes. See Attachment 5</p>	<p>NO = Fail</p>
<p>D. Watershed Protection</p>	<p>PASS</p>	<p>FAIL</p>
<p>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?</p>	<p>YES = Eligible for 3 extra years of certification; Go to D4</p>	<p>NO = Go to D2 No.</p>
<p>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</p>	<p>YES = Eligible for 3 extra years of certification; Go to D4</p>	<p>NO = Go to D3</p>

land protection in D.1, and 2) has the agreement of appropriate stakeholders and state and federal resource agencies?	Yes; See Attachment 6	
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	NO = Go to D4
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?	YES = Pass, go to E N/A = Pass, go to E N/A. There were no resource agency recommendations for a shoreline management plan.	No = Fail
E. Threatened and Endangered Species Protection	PASS	FAIL
1) Are threatened or endangered species listed under state or federal Endangered Species Acts present in the Facility area and/or downstream reach?	YES = Go to E2 NO = Pass, go to F Yes. See Attachment 7	
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?	YES = Go to E3 N/A = Go to E3 Yes. See Attachment 7	NO = Fail
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	YES = Go to E4 N/A = Go to E5 Yes. See Attachment 7	NO = Fail

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?		
4) If a biological opinion applicable to the Facility for the threatened or endangered species has been issued, can the Applicant demonstrate that: a) The biological opinion was accompanied by a FERC license or exemption or a habitat conservation plan? Or b) The biological opinion was issued pursuant to or consistent with a recovery plan for the endangered or threatened species? Or c) There is no recovery plan for the threatened or endangered species under active development by the relevant Resource Agency? Or d) The recovery plan under active development will have no material effect on the Facility's operations?	YES = Pass, go to F Yes (4a). The North Umpqua project license that was issued on November 18, 2003 references the terms and conditions of both the NMFS Biological Opinion and USFWS Biological Opinion. The incidental take statements in the Biological Opinions are consistent with the conditions of the Settlement Agreement, designed to minimize incidental take over the course of the project's 35-year license.	NO = Fail
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	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
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?	YES = Go to G3	NO = Fail
3) Does the Facility allow access to the reservoir and downstream reaches without fees or charges?	YES = Pass, go to H Yes. PacifiCorp provides free access to the reservoirs and downstream reaches of the river.	NO = Fail
H. Facilities Recommended for Removal	PASS	FAIL
1) Is there a Resource Agency Recommendation for removal of the dam associated with the Facility?	NO = Pass, Facility is Low Impact No. The most recent resource agency recommendations do not include removal of any of the dams associated	YES = Fail

	<p>with the North Umpqua project. The Settlement Agreement contains the adopted recommendations for the continued operation of the project and the FERC project license affirms the status of the Settlement Agreement: <i>The federal and state agencies that are signatories agree that the protection, mitigation, and enhancement measures contained in the Agreement will be adequate to protect resources under their jurisdiction that are affected by project operations, and the agencies have modified their mandatory and recommended conditions to achieve consistency with the Agreement.</i></p>	
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North Umpqua Hydroelectric Project (FERC No. P-1927)

APPENDIX D – PROJECT CONTACT FORM

Project Name: North Umpqua Hydroelectric Project

FERC No. P-1927

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 n/a

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

Phone: 503-813-7314

Email address: pooja.kishore@pacificorp.com

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



Project Owner/Operator Signature

11/17/2014

Date