



**Wallowa Falls Project Relicensing
January 14, 2014**

Updated Study Report Meeting Summary

Start Time: 9:30 a.m.	End Time: 4:15 p.m.
Subject: To review the overall 2013 study methods, results, and recommendations; to discuss and clarify the enhancement measures proposed in the Preliminary Licensing Proposal	Attendees: See attendance list at the conclusion of this summary

The comments identified in the table below were submitted orally at the Updated Study Report (USR) Meeting on January 14 & 15, 2014.

Stakeholder Requests and PacifiCorp Responses - January 14, 2014
Nez Perce, Colville and Umatilla Tribes: Follow-up Meeting – Expressed concern about filing Traditional Cultural Properties documentation with the FERC, SHPO and USFS.
<i>PacifiCorp Response: Follow up Meetings – Howison will arrange individual follow-up conversations with each Tribe regarding what information is appropriate for a FERC filing; discussion about integration of cultural reports into the Final License Application and filing of Tribal cultural reports as Appendices. See individual conference calls identified below.</i>
<i>Note: At this time, FERC is not requiring site specific information on Traditional Cultural Properties be filed.</i>
Nez Perce, Colville and Umatilla Tribes: Additional Monitoring - additional monitoring may be needed during tailrace reroute construction work.
<i>PacifiCorp Response: Additional Monitoring –Based on the results of the cultural resource reports received to date, PacifiCorp proposes to monitor ground disturbing activities associated with the construction of the tailrace reroute for cultural resources. This proposal will be included in the Final License Application.</i>
Nez Perce Tribe: Schedule additional discussion with PacifiCorp to discuss TCP report filing.
<i>PacifiCorp Response: Scheduled a conference call with Pat Baird (Nez Perce Tribe) for January 23, 2014 at 9:00am.</i>
Umatilla Tribe: Schedule additional discussion with PacifiCorp to discuss TCP filing.
<i>PacifiCorp Response: Scheduled a conference call with Shawn Steinmetz (Umatilla Tribe) for January 21, 2014 at 10:00am.</i>

Colville Tribe: Schedule additional discussion with PacifiCorp to discuss TCP filing.
PacifiCorp Response: <i>Scheduled a conference call with Arrow Coyote (Colville Tribe) for January 21, 2014 at 2:00pm</i>
FERC: Schedule Meeting with PacifiCorp to discuss TCP filing.
PacifiCorp Response: <i>Scheduled a meeting with FERC to provide status of discussions with the Tribes on February 4, 2014 at 10:30am PST</i>
FERC: Requested PacifiCorp elaborate upon the noise reduction data within the FLA, i.e. analysis and interpretation of data collected in 2013. PacifiCorp should include a description of what current noise reduction measures are in place and an analysis of what if any additional noise reduction measures may be appropriate.
PacifiCorp Response: <i>Concur with the FERC and will include the information in the Final License Application.</i>
OPRD – Hutton pointed out that there is a Wallowa county guidance document and/or possible codes for fencing, landscaping and other aesthetic measures included in the Preliminary License Proposal. PacifiCorp will contact the Wallowa county planning department to determine if any of the proposed measures are subject to county codes or other restrictions.
PacifiCorp – <i>Contact the Wallowa county planning department to determine if any of the proposed measures are subject to county codes or other restrictions.</i>

Meeting Minutes

Introduction

Following introductions, Russ Howison (PacifiCorp) reviewed the Near Term Relicensing Schedule as indicated below:

Party	Milestone	Date
PacifiCorp	File Initial Study Report (ISR)	January 3, 2013
All stakeholders	Initial Study Report Meeting	By January 17, 2013
PacifiCorp	File ISR Meeting Summary	By February 2, 2013
All Stakeholders	Disputes/Requests to Amend Study Plan Due to FERC	March 3, 2013
All Stakeholders	Responses to Requests Due to FERC	April 3, 2013
FERC	Director's Determination	May 3, 2013
PacifiCorp	Second Study Season (as needed)	Spring Summer 2013
PacifiCorp	Final Technical Report (assumes 1 study season)	June 2013
PacifiCorp	File Preliminary Licensing Proposal	October 1, 2013

Party	Milestone	Date
All stakeholders	Preliminary Licensing Proposal Comments Due	December 30, 2013
PacifiCorp	File Updated Study Report (USR)	January 3, 2014
All stakeholders	Updated Study Report Meeting	By January 17, 2014
PacifiCorp	File USR Meeting Summary	February 2, 2014
PacifiCorp	File Final License Application	February 28, 2014
PacifiCorp	Issue Public Notice of App. Filing	March 14, 2014
Party	Post Filing Milestone	Date
FERC	Issue Public Tendering Notice	March 14, 2014
FERC	Director's Determination on Any Additional Study Requests	March 30, 2014
FERC	Issue Ready for EA Notice	April 29, 2014
Agencies	Terms, Condit's, Recomm's Due	June 28, 2014
FERC	Issue License Order	March 25, 2015

Matt Cutlip (FERC – Portland) communicated that if after this meeting additional studies are requested, PacifiCorp will file its Final License Application (FLA) on the required date (February 28, 2014) without the additional requested studies being completed.

Any request to modify an ongoing FERC-approved study must meet the criteria identified in 18 CFR §5.15(d). Any proposal for new information gathering or studies must meet the criteria identified in 18 CFR Section §5.15(e).

Howison informed the attendees that the Cultural Resources discussion is considered confidential and sensitive. The details and discussion to be covered during the meeting are general by design and not site specific. Howison requested the Tribal representatives present to speak up should any of the discussion take a direction they are not comfortable with at which time PacifiCorp can arrange a private meeting.

Both the USRs and a copy of the USR Meeting presentations given by the resource leads at the meeting can be found at:

USR:

<http://www.pacificorp.com/es/hydro/hl/wf.html>

- Updated Study Reports

Presentation:

<http://www.pacificorp.com/es/hydro/hl/wf.html>

- Relicensing Documents
- *Note: The Updated Study Report PowerPoint presentation for Cultural Resources is not for public distribution*

Cultural Resources

Howison reviewed the study objectives which include identifying an Area of Potential Effect (APE) based upon potential direct and indirect effects from Project development and operation, identifying cultural resources within the APE, assessing identified resources for National Register of Historic Places (NRHP) –eligibility, describing any potential effects from Project development and operation to NRHP-eligible resources and developing protection measures for NRHP-eligible resources.

The study area includes the Project’s direct Area of Potential Effect (APE) for archaeological and architectural resources and the indirect APE for Traditional Cultural Properties/Historic Properties of Religious and Cultural Significance. *The APE was amended in October 2013 to include the area of the proposed tailrace reroute.*

Demuth reviewed the methods to include a desktop analysis of existing resource maps and publications to identify areas of concern, review previous studies within the area, conduct a field reconnaissance to collect site data and record conditions, conduct archival research of PacifiCorp files and resources at Wallowa County Museum and develop preliminary NRHP eligibility evaluations.

The field Work conducted to date and study status includes:

- A desktop analysis was completed in July 2012.
- Archival research was completed in August 2012.
- A one-day field reconnaissance was conducted on July 25, 2012.
 - Architectural historians performed a field inspection of the dam, forebay, powerhouse, penstocks, and other features.
 - Archaeologists conducted a pedestrian survey of all accessible areas using 15-meter intervals.

- Archaeological monitoring was conducted on October 21 and 22, 2013 for geotechnical boring for the tailrace reroute.
- A one-day field reconnaissance was conducted on November 26, 2013 for the tailrace reroute.
 - Architectural historians performed a field inspection of structures within 150 feet of the Amended APE.
 - Archaeologists conducted a pedestrian survey of all accessible areas of the Amended APE using 15-meter intervals.

The study plan was updated in November 2013 to include the methodology for the tailrace reroute inventory. The methodology for the tailrace reroute inventory was the same as described in the initial study plan.

- No archaeological sites were recorded as a result of the pedestrian survey.
- Project facilities within the original APE and the structures managed by Oregon State Parks in the amended APE are recommended as not NRHP-eligible.

No additional field work or study modifications are proposed at this time.

- The results and final NRHP assessment recommendations were presented in the December 2013, *Updated Study Report*.
- Final results and recommendations will be presented in the *Final Technical Report in 2014*.

Proposed measures include implementing an unanticipated discovery plan for cultural resources. A draft unanticipated discovery plan is provided in the PLP as Appendix K.

And develop as needed, a Historic Properties Management Plan (HPMP) to address any Project effects that may be identified from activities under the new license (i.e. monitoring of excavation for tailrace reroute).

Traditional Cultural Properties (TCPs)/Historic Properties of Religious and Cultural Significance (HPRCs) – Kimberly Demuth (Cardno Entrix)

Demuth identified the methods of evaluation for TCPs utilizing the National Register Bulletin No. 38 (*Guidelines for Evaluating and Documenting TCPs* (Parker and King 1990) as a means for taking into consideration the information collected during any background research, during oral histories, and during any field investigations. Each tribe will conduct a review of existing tribal records, and conduct oral histories via interviews of tribal elders and appropriate community members. Informants may be compensated for their time. These oral histories will be recorded, transcribed, and entered into a tribal oral history database.

The TCP study included site visit(s) with cultural resource technicians and/or elders or community members as appropriate. Fieldwork occurred within the direct and/or indirect APE for the Project provided the area being visited is accessible.

The work conducted to date includes:

- Individual scopes of work are finalized with each tribe.
- PacifiCorp contracts are effective with each tribe.

- Field work has been conducted and two (2) of three (3) expected reports have been received from the Tribes.

Further discussion is needed to address the integration of the individual TCP study results into the Final License Application and the filing of Tribal TCP Reports as Appendices to the Final Technical Report.

Additional work proposed includes the review and integration of individual TCP reports into the Final Technical Report: Winter 2014 and development of TCP treatment measures as needed upon completion of the Final Technical Report.

Wrap Up and Next Steps (Cultural Resources)

The Nez Perce Tribe is working on completing the report for their traditional use study and is having internal discussion on possible treatment measures.

Additional discussion is needed between PacifiCorp and the three affected tribes regarding reporting of the traditional use study results to FERC and appropriate treatment measures. PacifiCorp will continue to hold one on one and group discussions with the tribes on these issues. The outcome of these discussions will be summarized in the final license application as appropriate.

<Break 11:35am>

<Reconvene 1:05pm>

Land Use – Mark Greenig (CH2M Hill)

Greenig identified the study objectives to include documenting existing land uses in the Study Area along with identifying applicable land use and management plans and evaluating the appropriateness of changes to the Project facilities and operations related to relicensing with land uses in the Study Area and their consistency with applicable land use and management plans.

The study area is composed of lands within and adjacent to the proposed FERC Project boundary. The existing FERC Project boundary excluded portions of the forebay access road and tailrace channels. The proposed FERC Project boundary has changed since the last meeting and now includes all of Pacific Park, and portions of the existing tailrace channels not currently in FERC Project boundary along with the proposed tailrace reroute alignment.

The issuance of a special use permit for the Project by the Wallowa-Whitman National Forest (WWNF) indicates a history of approval of the Project by the WWNF, subject to conditions in the FERC licenses that have been granted to the Project in the past. PacifiCorp has and will continue to, assist the WWNF in meeting the directive of providing opportunities for dispersed recreation in the WWNF by:

- Providing recreational access from the Wallowa Lake area through PacifiCorp lands into the WWNF and Eagle Cap Wilderness so that the public can participate in dispersed recreation activities.
- Working cooperatively with WWNF to manage the Wallowa Lake Trailhead on PacifiCorp land and use by the public of the Project's forebay access road.

PacifiCorp will improve the visual setting of the portion of the Project on National Forest Service (NFS) lands so that the directive of having the landscape remain relatively natural and undeveloped will be more closely realized.

The proposed measures will reduce the visual presence of Project features to recreationists and are described in the Updated Study Report (Final Technical Report) for Aesthetics and Visual Resources.

The Project is located within Wallowa County and is under the jurisdiction of the 2003 Wallowa County Comprehensive Plan. Power generation and transmission at the Project facilities are permitted as conditional uses in all zones the Project is located in – the Project is consistent with the county comprehensive plan.

There are no variances from the study plan and no additional studies are proposed. The results and conclusions are presented in the December 2013, Updated Study Report.

Aesthetics and Recreation Resources – Mark Greenig (CH2M Hill)

Greenig identified the study objectives to include documenting the existing aesthetic and visual character of the study area, Project facilities, and operations (noise and flows in bypass reach), evaluating how/if changes to the Project facilities and operations related to relicensing would impact aesthetic and visual character, determine if changes to Project facilities and operations related to relicensing would be consistent with applicable land management planning goals for aesthetic and visual resources and identify opportunities for mitigation measures.

For visual resources the Study Area extends 0.5 mile from the Project boundary and for noise, considered to be an aesthetic resource, the Study Area is an approximate 3-mile radius around the Project powerhouse. No variances from the study plan occurred although an unplanned noise reading of the powerhouse was conducted in the summer of 2013.

Jim Hutton (OPRD) pointed out that there is a Wallowa county guidance document and/or possible codes for fencing, landscaping and other aesthetic measures included in the Preliminary License Proposal. PacifiCorp will contact the Wallowa county planning department to determine if any of the proposed measures are subject to county codes or other restrictions.

Potential additional work identified at the 2013 Meeting is identified in the first bullet below:

- *“If applicable standards used to gauge the degree to which noise associated with the powerhouse exceeds suggested or required standards are found, powerhouse noise will be examined to determine if the noise meets or exceeds such standards”.*

Noise readings were taken from 25 locations around the Project Area (see **Appendix A** handout). No standards were identified by PacifiCorp, the WWNF, or OPRD and a determination could not be made on whether or not the powerhouse noise was excessive.

Dan Gonzalez suggested that noise associated with the Project can be beneficial to discourage wildlife from using Project facilities, such as, the power house for nesting or shelter. For this reason, leaving the powerhouse noise as it is may not be an issue.

The FERC staff requested PacifiCorp include a discussion of the 2013 noise data collected in the FLA, along with any data analysis and interpretation. It would also be helpful to describe existing noise mitigation measures such as insulation, and explain why no additional noise reduction measures are proposed.

Greenig summarized the impacts to aesthetic and visual character from changes to Project facilities and operations associated with relicensing to include:

- Due to terrain and heavy vegetation, the visibility of most Project facilities is limited, so changes to them will have localized impacts to aesthetic and visual character.
- The entire portion of the Project in the WWNF is surrounded by areas that were assigned a Visual Quality Objective (VQO) of Retention (which is the second most restrictive VQO) in the Forest Plan.

Although the Project has been permitted as a special use and is therefore consistent with the management intentions of the WWNF, USFS policy requires that attempts be made to reduce the visual impacts of projects on NFS lands. Mitigation measures were developed to address this concern.

The following potential mitigation measures were suggested during the 2012-2013 site visits with PacifiCorp and WWNF staff:

- Plant vegetation between the East Fork Trail and the shoreline near the forebay to screen views of the forebay, dam, spillway, catwalk, dam laydown area, and storage area from people using the trail. *(Was found to not be practical) – Replaced with an interpretive sign on west side of forebay w/ information on Project, Eagle Cap Wilderness, trails, etc.*
- Modify the intake structure to make it more attractive and similar in character with storage shed (cabin) in the laydown area. *(Adopted)*
- Treat (stain) the timber support members of the upper trestle that are light in color a darker color so that all support timbers are the same color. *(Adopted)*
- *Additional measure – paint exposed parts upper penstock a dark color.*
- *Additional measure – improve the appearance of the laydown and storage area on east side of forebay.*
- Powerhouse – partially screen area and make more attractive with landscaping along the portion of area abutting the Joseph-Wallowa Lake Highway turnaround area. *(Adopted)*

No additional studies are proposed and the results and conclusions are presented in the December 2013, Updated Study Report.

<Break 2:10pm>

<Reconvene 2:20pm>

Recreation Resources - Mark Greenig (CH2M Hill)

Greenig informed the attendees that the objective of the recreation resources study was to characterize existing recreation opportunities and use levels within the Study Area and identify both existing and future recreation needs related to the Project over the term of the new license.

The methods include an inventory of recreation facilities and use areas in the Study Area and their condition and a Recreation Use and Demand Analysis to identify existing recreational demand in the Study Area and estimate future recreation demand and needs over the term of the new license (30 to 50 years).

The study area includes an approximate one mile radius around the FERC Project boundary. No variances from the study plan occurred and no additional studies are proposed. The results and conclusions are presented in the December 2013, Updated Study Report. No additional recreation studies are proposed at this time.

Jim Hutton pointed out that while the study conclusions make some important points, OPRD feels there is currently an unmet need for additional equestrian opportunities that the study did not identify. Howison acknowledged this and the Final Application will more fully identify the need for additional equestrian opportunities in the area.

Howison distributed a handout titled, Proposed Mitigation Measures from the Preliminary License Proposal (PLP) and USDA-FS & OPRD Comments (**Appendix B**). Discussion took place regarding the tailrace reroute-emergency spillway that is currently proposed using the existing tailrace channels through the campground. PacifiCorp is evaluating the need for the emergency spillway and will provide a more detailed description of how this feature would be used and proposed public safety measures in the final license application. It is possible that the tailrace emergency spillway is not needed and it may not be included as a proposed Project feature in the Final License Application.

Suzanne Novak (FERC) suggested that the FLA should describe the recreational needs in the area, uses currently occurring, recreation nexus to the Project, proposed enhancement measures,; and how the proposed Project will meet recreational demands through the new license term. In response to Greenig's question to the FERC staff regarding Project nexus to recreation resources, Novak stated that if recreation is occurring immediately adjacent to the Project facilities on Project lands, the Project may be at least partially responsible to meet these recreation needs. Other factors include economic viability-cost, and compatibility with Project purposes (generating power). It is well documented that recreation facilities in the Project area are heavily used during the summer months.

Howison said that while PacifiCorp wants to contribute to recreation needs in the vicinity, the company also has an obligation to our rate payers to keep electric rates down.

Cutlip said that PacifiCorp's proposed recreation measures appear to be commensurate with the Project's size and consistent with the Project purposes. If stakeholders feel additional measures are warranted they will need to make their case why additional measures are appropriate and why the additional costs are justified.

Olson concurred adding that each entity needs to make a case for Project nexus to recreation needs, and provide a convincing argument why a particular facility is needed and why PacifiCorp is obligated to provide it.

Jim Hutton stated that Oregon State Parks would prefer that substantive recreation measures be a condition of the new license. Relicensing presents an opportunity to State Parks that does not come along very often.

Cutlip said that cost of enhancement measures is a FERC consideration along with the nexus to recreation needs. Ultimately the rate payers will bear the costs.

Olson expressed that at some point a small Project such as this one will not be able to support the whole suite of measures that could get applied to it. PacifiCorp must give careful consideration to what is in the best interest of rate payers. PacifiCorp would like to further discuss OPRD's prioritization of measures they have proposed. Howison stated that OPRD had already provided a prioritized list to PacifiCorp in December.

Discussion took place regarding a longer term recreation lease agreement between PacifiCorp and OPRD for two parcels OPRD currently leases from PacifiCorp adjacent to the Project. One option is for OPRD to take on O&M responsibility at the campground in exchange for more favorable lease terms. The potential FERC jurisdiction over a recreation lease agreement was also discussed.

Olson said that the measures proposed by OPRD are more than the Project can bear financially. Cutlip asked if the measures identified in the PLP will jeopardize the economic viability of the Project.

Howison stated that PacifiCorp is committed to implementing the measures proposed in the PLP and that the total enhancement package included in the PLP is economically viable. PacifiCorp include total costs of the proposed Project in the FLA.

Cutlip informed the attendees that the FERC will levelize the capital and annual O&M costs over 30-years regardless of the license term.

PacifiCorp is open to the possibility of continued discussion with OPRD and the Forest Service regarding recreation needs at the Wallowa Falls Project. This may entail an "off license" settlement agreement outside of the FERC process and jurisdiction.

Howison said that he would like to develop a recreation management plan that may have some elements of the OPRD request in exchange for a longer term lease to OPRD. The FERC staff cautioned that there is a potential risk that anything submitted to FERC may become a condition of the new license.

Hutton said that OPRD will revisit their requested enhancement measures and reevaluate their priorities. Additional discussion between OPRD and PacifiCorp is needed to resolve the issue of appropriate recreation facilities associated with the Project.

Cutlip provided clarification that while a management plan per se is not a FERC requirement, PacifiCorp's final License Application should include specific recreation measures, their location, an analysis of environmental effects, cost of measures, map of facilities and entity responsible for maintenance.

Greenig reviewed the recreation use and demand study conclusions as follows:

- The Project helps meet demand for several outdoor activity types identified in the Statewide Comprehensive Outdoor Recreation Plan (SCORP) that are popular in Wallowa County and likely will continue to be popular in the future;
- During the peak recreational use months of July and August, demand for some activities such as camping (particularly at Wallowa Lake State Park) exceeds the supply,
- There are opportunities for the Project to more effectively help meet these demands,
- The ability of the Project to directly help support existing and future recreation needs should focus on types of activities that are supported on PacifiCorp Project lands (or trails passing through them). These include various types of camping as well as popular activities identified in SCORP that occur via trails (e.g., hiking, big game hunting, fishing, nature observation, nature photography),
- Developing trails and controlling the creation of user-created trails on PacifiCorp land will be a valuable contribution to the trail system in the Study Area and opportunities are available for the Project to help meet needs of other types of popular activities identified in SCORP by upgrading area near powerhouse (make more attractive, add interpretive material, maps and better signage) and potentially teaming with OPRD to upgrade Little Alps Day Use Area (which will support popular and growing activities such as picnicking, relaxing, and back-country use).

And lastly, Greenig informed the attendees of the following recreation supply conclusions – PacifiCorp Lands:

- PacifiCorp Park Campground is popular during July and August, provides a more rustic camping experience than other campgrounds in the Study Area, and helps meet a demand for less developed camping.
- Better site definition of campsites at Pacific Park Campground is warranted as well as providing better ADA accessibility to facilities (particularly at one or both of the vault toilets).
- Good opportunities to work with OPRD on connecting campground with Little Alps Day Use Area.
- Better communication with OPRD could allow Pacific Park Campground to help meet Study Area camping demands.
- User-created trails west of campground need to be controlled (some eliminated and some hardened) and linked (via signage) to WWNF trails.
- OPRD is concerned about the future of the Little Alps Day Use Area and maintenance facility in the future if PacifiCorp does not renew its lease with OPRD.

Wrap Up and Next Steps (Land Use, Aesthetics and Recreation)

Olson proposed that PacifiCorp continue to work toward finalizing the license application to include the final study results as presented today. The FERC has identified at today's meeting additional information PacifiCorp needs to include regarding noise data, recreation use, and needs. PacifiCorp will continue to hold discussions with OPRD and the Forest Service regarding recreation issues and enhancement measures both within and outside of the FERC process. The recreation measures proposed in the final license application may be revised from those identified in the PLP to reflect these discussions.

Appendix A: Noise Level Recordings

*Appendix B: Proposed Mitigation Measures from the Preliminary License Proposal (PLP) and
USDA-FS & OPRD Comments*

Appendix A
Noise Level Recordings

Noise Level Recordings

Noise levels from areas near the Project were recorded by Mark Greenig of CH2M HILL on June 12, 2013 between 8:30 a.m. and 10:30 a.m. using an Ono Sokki LA-221 Sound Level Meter. The weather was clear with occasional breezes. The Project powerhouse was releasing between 11 and 12 cubic feet per second (cfs) of water into the Project tailrace. The release of water creates the bulk of the noise (the “hum”) associated with the Project powerhouse.

To provide some context related to the decibel readings that were collected, the following was obtained from the Center of Hearing and Communication website. It provides examples of the decibel levels of commonly heard sounds.

Points of Reference of Common Sounds - measured in dBA (or decibels)

- 0—The softest sound a person can hear with normal hearing
- 10—normal breathing
- 20—whispering at 5 feet
- 30—soft whisper
- 50—rainfall
- 60—normal conversation
- 110—shouting in ear
- 120—thunder

(Source: Center of Hearing and Communication; accessed at <http://www.chcheating.org/noise-center-home/facts-noise/common-environmental-noise-levels>.)



Figure 1: Locations of Noise Readings

Noise Readings Near Wallowa Falls Hydroelectric Project

Location #	Location Description	dba	Project Heard?	Notes
<i>Wallowa Lake Highway north of Project</i>				
1	Next to Project powerhouse fence	69	Yes	Sound of water released from Project (the “hum” of water being released, which is the “sound” of the Project Power plant) very audible.
2	25 feet from fence	65	Yes	Same as above.
3	50 feet from fence	61	Yes	Less than above.
4	100 feet from fence	55	Yes	Less than above. Could hear flowing water from other sources (probably the East Fork of the Wallowa River [East Fork] and Project tailraces [tailraces]), but sound of Project powerhouse water release most audible sound (unless vehicles drive by).
5	200 feet from fence	51	Somewhat	Sound of flowing water (West and East Forks) and Project tailraces started to compete with Project powerhouse water release for listening attention.
6	400 feet from fence (see Figure 1)	51	Barely	The sound of flowing water was clearly heard from this location, and Project powerhouse water release barely heard.
<i>Pacific Park Campground</i>				
7	Entry gate	64	Yes	Mix of sounds from Project powerhouse water release and flowing water from tailraces.
8	Entry road and eastern bypassed reach	70	Barely	Flowing water of tailraces was very audible sound, and Project powerhouse water release was barely heard.
9	Bottom of slope near start of social trail. Approximately 260 feet from Project powerhouse (see Figure 1)	54	Yes	Sound from Project powerhouse water release was more audible than flowing water of bypassed reach.
<i>Trails west of Project powerhouse</i>				
10	Social trail – intersection with other social trail	49	Yes	Could hear Project powerhouse water release (and other sounds), but the sound was somewhat muted in this location surrounded by forest.
11	Approximately midpoint to ridgeline trail	46	Somewhat	Much of noise from Project powerhouse muffled by forest.
12	Intersection of hillside social trail with ridgeline social trail – approximately 0.15 mile from Project powerhouse	57	Barely	Flowing water from West Fork was most audible sound and could barely hear Project powerhouse water release.
13	Flat area east of overlook on “knob” at north end of ridge. Approximately 0.14 mile from Project powerhouse (see Figure 1)	55	Yes	Terrain blocked much sound from West Fork and Project powerhouse water release could be clearly heard.

Noise Readings Near Wallowa Falls Hydroelectric Project

Location #	Location Description	dba	Project Heard?	Notes
14	On top of overlook.	55	No	West Fork most audible and could not hear Project powerhouse water release.
15	West Fork Trail bridge over West Fork	75	No	Very high flows of West Fork were clearly heard, and could not hear Project powerhouse water release.
16	Chief Joseph Mountain Trail	36	No	Middle of thick forest, no wind, was no perceptible sound from flowing water or the Project powerhouse water release.
17	First Chief Joseph Trail overlook area - approximately 0.25 mile from Project powerhouse (see Figure 1)	51	Barely	Location where could first hear Project powerhouse water release from the trail, but West Fork most noticeable sound.
18	Chief Joseph Trail – near where trail turns to BC Creek	59	No	Could hear West Fork and BC Falls but not Project powerhouse water release.
<i>Connection trail between West Fork and Wallowa Lake Trailhead area that passes through PacifiCorp land.</i>				
19	Intersection of ridge trail and connection trail – approximately 0.9 mile from Project powerhouse (see Figure 1)	47	Yes	Sound from Project powerhouse water release was more noticeable than the sound of the West Fork.
20	Immediately southwest of, and almost in sight of, Project powerhouse - approximately 250 feet from Project powerhouse (see Figure 1)	51	Yes	Sound from Project powerhouse water release was clearly heard, and sound from Project powerhouse generator could be heard.
21	Immediately east of Project powerhouse.	48	Yes	Both sounds described above could be heard.
<i>East Fork Trail</i>				
22	Within sight of powerhouse	48	Yes	Sounds of Project powerhouse water release and East Fork were heard about evenly.
23	Intersection of trail and forebay access road	48	Yes	Same as above.
24	Overlook of East Fork	48	No	East Fork clearly heard, and Project powerhouse water release not heard.
25	On switchback facing north – approximately 0.21 mile from Project powerhouse (see Figure 1).	46	Yes	Could hear both Project powerhouse water release and East Fork.

Appendix B

Proposed Mitigation Measures from PLP and USDA-FS & OPRD Comments (1-14-14)

Topic	PacifiCorp Proposal	USDA - FS Response Letter (12-10-14)	Oregon Parks and Recreation Department Response Letter (12-30-13)
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FERC Boundary

1.		Include campground in boundary.		Include campground and Little Alps area in boundary.
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Pacific Park Campground

			PacifiCorp should improve Pacific Park Campground whether or not an off-license agreement is reached with Oregon Parks and Recreation Department (OPRD).	With No-Off License Agreement
1.	Toilets.	Replace w/i 10 years and make ADA compliant		Replace with flush toilets now.
2.	ADA Compliant campsite.	In proposal		Agree needed.
3.	Improve management, maintenance.	Improve campground management system and communications with campers, OPRD, etc. Improve maintenance.	The management of Pacific Park should be turned over to OPRD or PacifiCorp should address the issues related to access to reservation opportunities and/or even access to sites available on a first come first serve basis.	Are management issues.
4.	Campground host.	In proposal Hook up to Little Alps restroom.		Want campground host. Hookup to County sewer and new septic tank
5.	Signage.	Improve internal and external signage and information related to contacting PacifiCorp, sites, etc.		Agree needed.
6.	Campsites.	Improve campsite definition, restore tent/vehicle pads, better site I.D. signs, clean up of campground – rocks, stumps., etc.		
7.	Fencing.	New fencing between Little Alps Day Use Area and ridge to west of campground.		Suggestions on better fencing types near ridge to west.
8.	Emergency spill way though campground.			Develop maintenance plan for weeds, etc. Alarm or notification system in case of emergency spill.
9.	Overall site design.	Agree needs work which above measures addressed – except for new entrance.	The site design creates confusion as to where to go for any activity. PacifiCorp should locate the entrance to Pacific Park Campground further north away from the cul-de-sac and the power facility.	

Little Alps Day Use Area

1.		Improved connections between Pacific Park Campground and Little Alps via fence removal and replacement and access across tailrace.		
2.				Bivouac camping area for 10 sites (30,000 square feet).
3.				New northern entrance to bivouac area and campground and road to future bridge to Boy Scout Camp.
4.				Parking for bivouac camping area
5.				Replace trails with new surfacing (make ADA compliant where possible)

Other PacifiCorp Lands

1.			USDA-FS supports OPRD measures.	Equestrian campground loop to eight campsites (155,000 square feet) east of St. Highway-351. Campground host site and each site would have water and electricity (?).
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Proposed Mitigation Measures from PLP and USDA-FS & OPRD Comments (1-14-14)

Topic	PacifiCorp Proposal	USDA - FS Response Letter (12-10-14)	Oregon Parks and Recreation Department Response Letter (12-30-13)
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Ridge to West of Pacific Park Campground and Access to West Fork Willowa River and WWNF

1.	USDA Forest Service registration station and informational signage.	Install sign and wilderness registration station at base of the new access trail to ridge (near Pacific Park Campground).	PacifiCorp should include the installation of a sign at the new Pacific Park Campground trail and Chief Joseph trail. Also, a sign should be placed at the user created trail by the Eagle Cap Pack Station between the east and West Fork trails to direct users and reduce trail use confusion.	
2.	Trails from Pacific Park Campground.	Decommission and restore user-created trails, construct a new access trail to the ridge west of campground.		
3.	Restore areas damaged by user-created trails.	Block access and restore damaged areas.		
4.	Overlook area.	Install overlook area interpretive sign at north end of ridge west of Pacific Park Campground.		
5.	Trails along ridge that provides access to West Fork and Chief Joseph Mountain trails.	Once on the ridge, the main trail would be connected with existing user-created trails that would be formalized to provide northern access to the proposed overlook area at the north end of the ridge (see below) and southern access to trails.		

Terminus of the Joseph-Wallowa Lake Highway, Project Powerhouse Area, and Trails to WWNF That Are Located on PacifiCorp Land

1.	Trailhead.	Replace existing Willowa Lake Trailhead sign and wilderness registration box.		
2.	Joseph-Wallowa Lake Highway Terminus.	Install interpretive signage in the terminus area (cul-de-sac) of Joseph-Wallowa Lake Highway with sign content developed with input from interested agencies and tribes.	The FLA should include the consultation and coordination with local and other indigenous Native American tribes when developing ideas and designs for signs in the Project area. <i>{Note from PacifiCorp – this suggestion was in the proposed measure}</i>	
3.	Joseph-Wallowa Lake Highway Terminus.	Replace Project fencing at the terminus of the Joseph-Wallowa Lake Highway.		
4.	Joseph-Wallowa Lake Highway Terminus.	Install low-maintenance landscape improvements at the Project powerhouse and at the edge of the Joseph-Wallowa Lake Highway terminus.	Rather than trying to make the powerhouse blend or disappear, it should "fit" and "compliment" the site with appropriate design style and materials. Use the Built Environment Image Guide for guidance.	
5.	Joseph-Wallowa Lake Highway Terminus.	Recoat Project powerhouse exterior with compatible color that is less contrasting than current color.		
6.	PacifiCorp Lands.	Survey USDA-FS trail easements through PacifiCorp property that provide access to the WWNF to determine and verify locations easements and trails currently maintained by USDA-FS.		
7.			PacifiCorp should provide an off road trailhead farther from the power facility, and move the entrance to the campground further north away from the Project	

Proposed Mitigation Measures from PLP and USDA-FS & OPRD Comments (1-14-14)

Topic	PacifiCorp Proposal	USDA - FS Response Letter (12-10-14)	Oregon Parks and Recreation Department Response Letter (12-30-13)
			powerhouse. The off road trailhead should include trailer parking for a minimum of 5 trailers, and 5 passenger cars, a bulletin board, fee tube, and restrooms, and the site design should be done in collaboration with the WWNF..
Portion of the Project within the WWNF			
1.	Connection trail between Forebay Access Road and East Fork Trail.	Improve connection trail (approximately 100 feet) between forebay access road and East Fork Wallowa River Trail (#1804).	PacifiCorp should install a culvert to drain water from the uphill spring. The culvert would reduce the need for short and long-term maintenance, reduce user created sediment runoff from constant trample of stepping stones, and better connect the runoff with its natural channel. The culvert should be installed to FS trail and maintenance standards and techniques.
2.	Forebay area seen from East Fork Trail.	Improve forebay intake structure by installing wood shake siding and roofing.	
3.	Forebay area seen from East Fork Trail.	Improve year-round pedestrian recreational access across dam spillway catwalk.	
4.	Forebay area seen from East Fork Trail.	Enhance the upper penstock trestle and penstock pipe by coating a uniform dark color.	
5.	Forebay area seen from East Fork Trail.	Install interpretive sign at the west side of forebay.	
6.	Coordination with PacifiCorp and USDA-FS	Measures on WWNF land are to be designed with input from WWNF.	PacifiCorp should include WWNF on design-development of mitigation measures on WWNF.



Wallowa Falls Hydroelectric Dam Relicensing
 Updated Study Report Meeting
 January 14, 2014 – 9:30 am – 4:00 pm

Meeting Room – PacifiCorp, 111 W. North Street, Enterprise, OR 97282

Participant Name	Agency/Company	
Russ Howison Russ.howison@pacificorp.com	PacifiCorp Energy	
Todd Olson	PacifiCorp Energy	
Kim McCune	PacifiCorp Energy	
Ken Carlson	CH2M Hill	Consultant
Mark Greenig	CH2M Hill	Consultant
Kimberly Demuth	Cardno Entrix	Consultant
Matt Cutlip	FERC - Portland	
Frank Winchell	FERC - DC	
Suzanne Novak	FERC - DC	
David Turner	FERC – OEP Wildlife Biologist	
Daniel Gonzalez	US Forest Service	
Tim Hardin	Oregon Dept of Fish & Wildlife	
Elizabeth Moats	Oregon Dept of Fish & Wildlife	
Pat Baird	Nez Perce Tribe	
Nakia Williamson	Nez Perce Tribe	
Shawn Steinmetz	Umatilla Tribe	
Arrow Coyote	Colville Tribe	

Participant Name	Agency/Company	
Tony King	USFS	
Jim Hutton	OPRD	
Suzanne Novak	FERC	
Frank Winchell	FERC	