

**Lewis River Hydroelectric Projects
Terrestrial Coordination Committee (TCC)
Meeting Agenda**

Date & Time: Wednesday, December 14, 2016
9:00 a.m. – 10:30 a.m.

Place: CONFERENCE CALL ONLY

Contacts: Kendel Emmerson (503) 813-6040; cell 503-703-7734

Time	Discussion Item
9:00 a.m.	Welcome <ul style="list-style-type: none">➤ Review Agenda & 10/12/16 Meeting Notes➤ Comment & accept Agenda & 10/12/16 Meeting Notes
9:15 a.m.	Project Updates <ul style="list-style-type: none">➤ Status of WDFW Funds➤ Status of McKee Meadows➤ Status of BPA final ROD discuss; revisit mitigation strategy➤ Status of Cowlitz PUD Interconnect➤ Reflective Board Tree Removal➤ Frasier Diversion Dam
10:15 a.m.	Next Meeting's Agenda <ul style="list-style-type: none">➤ Note: all meeting notes and the meeting schedule can be located at: http://www.pacificorp.com/es/hydro.html
10:30a.m.	<i>Meeting adjourn</i>

Join by Phone

+1 (503) 813-5252 [Portland, Ore.]

+1 (801) 220-5252 [Salt Lake City, Utah]

+1 (855) 499-5252 [Toll Free]

Conference ID: 885150

FINAL Meeting Notes
Lewis River License Implementation
Terrestrial Coordination Committee (TCC) Meeting
December 14, 2016
Conference Call Only

TCC Participants Present: (10)

Ray Crosswell, RMEF
 Bill Richardson, RMEF
 Kendel Emmerson, PacifiCorp
 Kim McCune, PacifiCorp
 Summer Peterman, PacifiCorp
 Peggy Miller, WDFW
 Eric Holman, WDFW
 Erik White, Cowlitz Indian Tribe
 Nathan Reynolds, Cowlitz Indian Tribe
 Amanda Froberg, Cowlitz PUD

Calendar:

January 11, 2017	TCC Meeting	Cancelled
February 8, 2017	TCC Meeting	HCC

Assignments from December 14, 2016	Status
McCune: Set up accounting for Cowlitz PUD Interconnect Funds; will not be comingled with WHMP fund.	Complete – 12/16/16
Emmerson: Get more details on the Reflective Board beam path and update the TCC to include a map and total footprint.	Complete – 2/8/17

Assignments from July 13, 2016	Status
Emmerson: Report back to the TCC regarding status of the Property Encroachment Permit and Shoreline Permit Application.	Pending

Assignments from March 9, 2016	Status
McCune: Add the Fisher CCAA conservation measures in in 2016 WHMP Annual Report and in year 17 re-write (incorporate into Best Management Practices).	Pending
WDFW: In regards to 10.3.3 Matching Funds Eagle Island Project the TCC would like a 1-2-page progress report of project status with photos after the grant term expires (12-31-2017).	Requested email update – 2/8/17

Kendel Emmerson (PacifiCorp) called the meeting to order at 9:00am. Emmerson reviewed the agenda and asked the TCC if there were any changes/additions. Eric Holman (WDFW) requested the addition of the land acquisition update and few minutes to discuss WDFW elk research in the area. Emmerson reviewed the TCC October 12, 2016 Meeting Notes which were approved at 9:05am without change.

Public Comment Opportunity:

None

Status of 10.3.3 WDFW Funds

Kim McCune (PacifiCorp) informed the attendees that through an exchange of emails regarding invoicing vs contracting McCune provided the appropriate backup i.e., Settlement Agreement language and TCC Meeting Notes for WDFW to invoice PacifiCorp for the \$16,500 awarded funds.

Status of McKee Meadows

Emmerson indicated that the grass growth is approximately 2-3” tall and has good coverage since the TCCs visit last October. There will be thistle and sting nettle to address. She recommends a field visit in March 2017 so the TCC can see the progress.

Status of BPA final Record of Decision (ROD) discussion; revisit mitigation strategy

Assuming that when the ROD comes out this month and BPA will select the crossing below Merwin Dam on WHMP lands, then PacifiCorp will need to provide a mitigation strategy. Emmerson asked the TCC what format should the mitigation strategy be submitted. The TCC would like a memorandum detailing expected impacts, mitigation proposed, how was the decision calculated and how did they arrive at their decision. The TCC expressed that the memorandum detail will include impacts, to vegetation cover classes, species, and HEP. Methods should be described as a rigorous exercise and reference other mitigation strategies that were used as a template. Emmerson will include previous TCC meeting notes relating to this topic since it has been over a period of five years. The TCC wishes to also open discussion about funds for ongoing management, mitigation land acquisition and consideration for the remaining 42 years remaining on the Lewis River license.

Status of Cowlitz PUD Interconnect

After the TCC approval October 12, 2016 Emmerson issued a memorandum to Brian Bogle, PacifiCorp Project Manager of T&D Operations titled, Mitigation for Cowlitz PUD Interconnect Project impacts to Lewis River Wildlife Habitat Management Lands, dated November 1, 2016 (**Attachment A**). McCune confirmed that this memo only (not map images due to confidentiality) would be included into these meeting notes. The memorandum outlines the obligation of PacifiCorp T&D operations to Hydro Resources for \$10,172.00. McCune confirmed that PacifiCorp would track these funds with no interest accrual, which will also be included in the ACC/TCC Annual Reporting. McCune will work with PacifiCorp staff to set up accounting for the Cowlitz PUD Interconnect Funds. The TCC has full discretion for using the funds as it relates to WHMP lands.

Reflective Board Tree Removal

Emmerson informed the attendees that there are four (4) reflective boards on the Lewis River that facilitate communication between the hydro facilities and Portland. Two of these boards are on WHMP lands, one of which is above the town of Cougar. This reflective board is surrounded by trees with root rot. In early December there were about 10-15 trees that were removed because they were dying or were touching the board.

The bigger issue is the board has beam paths that constantly require cutting/removing trees out of the path. PacifiCorp is resubmitting its Exhibit G in 2017 and Emmerson suggested taking out the

reflective boards and their beam paths out of WHMP lands putting them into Excluded Lands similar to other hydro facilities. The approximate footprint is 40' wide for 200 feet in length, so about ½ acre for each site. The TCC discussed if the footprint, after the tree removal, could possibly be used as a browsing spot for big game. Emmerson suggested that the Cougar Board beam paths have a good shrub component, which she tried to retain by leaving all shrubs under 20 feet in height.

Emmerson will get more details on the beam path footprint and update the TCC to include a map and total footprint and if there are ways to manage for maximizing habitat and operational use

Frasier Diversion Dam

Emmerson informed the attendees that after the 1996 flood the beaver dam and the culvert into Saddle Dam blew out, so PacifiCorp constructed a small rock crib dam to retain Frasier Pond and prevent beaver dams from blowing out. Last winter she notice that the top 6" of the dam eroded and since then about the top ¼ of the dam had washed away. PacifiCorp engineering would like construct a new more permanent dam structure, which will require major 12-18 months of permitting and design. In the meantime, Emmerson asked TCC approval to pull the stop logs for duration of 2017 to lower the pond water level significantly. Current inhabitants are bass, bullfrogs, newts, beavers and ducks. TCC requested that the new dam design consider bullfrog management. It was noted if the dam blows out it would affect other wetlands below. In the end, the project will be a better outcome for Frasier Pond and will provide an opportunity to construct a better equestrian trail crossing.

The TCC agreed to allow modification of the pond operations for PacifiCorp to pull the stop logs (boards) and the pond will draw down to its lowest level for all of 2017.

Land Acquisition Update

This topic is considered confidential and proprietary and not for public viewing.

Other

WDW Elk – Eric Holman (WDFW) informed the attendees that their staff is catching elk December 16 – 22, 2016 north of PacifiCorp lands. There will be a recapture of 30 elk with collars and see how they are doing living with the hoof disease situation. In addition, they will capture and add 20 new elk with collars.

The TCC approved cancelling the January 11, 2017 meeting and reconvening February 8, 2017.

<10:00am Meeting Adjourned>

Agenda items for February 8, 2017

- Review December 14, 2016 Meeting Notes
- Utilities WHMP Plan & Update
- 2016 TCC Accounting
- Project Updates
- PacifiCorp Website Public ACC/TCC Statement
- Land Acquisition Update (**CONFIDENTIAL**)

Next Scheduled Meeting

February 8, 2017
Location: HCC

Attachments:

- December 14, 2016 Meeting Agenda
- **Attachment A** – Memorandum regarding Mitigation for Cowlitz PUD Interconnect Project impacts to Lewis River Wildlife Habitat Management Lands, November 1, 2016



Pacific Power
Rocky Mountain Power
PacifiCorp Transmission

MEMORANDUM

DATE: November 1, 2016

TO: Brian Bogle, PacifiCorp Project Manager

FROM: Kendel Emmerson, PacifiCorp Certified Wildlife Biologist[®]

SUBJECT: Mitigation for Cowlitz PUD Interconnect Project impacts to
Lewis River Wildlife Habitat Management Lands

To meet the increasing customer demand in southern Cowlitz County, the Public Utility District #1 of Cowlitz County (Cowlitz PUD) has proposed constructing an 8.5 mile long 115 kV transmission line that will connect their Lewis River substation to PacifiCorp's Merwin substation. This transmission line will be a double circuit line beginning at Merwin substation and extending 1.21 miles on PacifiCorp's Merwin-Kalama-Cardwell line (**Attachment A**). The Merwin substation will be expanded approximately 0.60 acres to the southwest of the existing substation to allow for new infrastructure (**Attachment B**). Trees and vegetation must be removed to allow for the substation expansion and new road access.

The November 30, 2004 Lewis River Settlement Agreement (SA) was signed by PacifiCorp, Cowlitz PUD, and 24 other Parties, including five federal agencies, two state agencies, eight county/local agencies, two tribes, two citizens-at-large, and five nongovernmental organizations. The SA Section 10.8 directs PacifiCorp, in Consultation with the Terrestrial Coordination Committee (TCC), to develop a Wildlife Habitat Management Plan (WHMP) for their respective lands designated in SA Exhibit A. The SA addresses mitigation requirements for impacts to WHMP lands under Section 10.8.5.5 Mitigation for Impacts on Wildlife Habitat:

“If PacifiCorp proposes to take action on its Interests in Land that are managed under its WHMP, other than those actions specifically prescribed under this Agreement, and that action makes those lands no longer available for wildlife habitat, PacifiCorp shall consult with the TCC to determine if any mitigation is necessary. If Cowlitz PUD proposes to take action on its Interests in Land managed under its WHMP, other than those actions specifically prescribed under this Agreement, and that action makes those lands no longer available for wildlife habitat, Cowlitz PUD shall consult with the TCC to determine if any mitigation is necessary. If the TCC determines that mitigation is necessary, then whichever Licensee is responsible in the specific case shall implement that mitigation. Mitigation shall not be required for land parcels specifically identified in the WHMPs as having wildlife habitat as the secondary use.”

WHMP Lands Impacts

The proposed Cowlitz PUD Interconnect Project has potential to impact both primary and secondary WHMP lands by the following actions:

- Construction will occur within 660 feet of a known Merwin Dam #2 bald eagle nest.
- The substation expansion will remove 0.28 acres from primary WHMP lands and 0.40 acres of secondary WHMP lands into Excluded land status.
- The Merwin-Kalama-Cardwell transmission line on WHMP lands will become a double circuit.
- All trees and vegetation will be removed within 30 feet of the expanded substation. This area is classified as Upland Mix habitat which is comprised of larger Douglas-fir trees with a mix of bigleaf maple and red alder trees. An estimated 37 trees will be removed, 4 conifer trees ranging from 18 to 30 inch in diameter at breast height (dbh) and 33 deciduous trees ranging in 6 to 48 inches in dbh.
- A new access road will be built leading from 1620 road to the new substation access point.
- A control building will be built on an existing concrete pad north of the substation.

The following actions will be implemented to minimize impacts to wildlife and WHMP lands:

- PacifiCorp will obtain a bald eagle nest take permit from USFWS.
- The project footprint has been minimized to the extent possible.
- To avoid constructing additional poles the existing line will become a double circuited line.
- The control building will be placed on an existing concrete pad to avoid further ground disturbance.
- No vegetation will be removed along the east side of the 1620 road to minimize effects to habitat and to the bald eagle nest.

Impacts that cannot be avoided include the removal of the 37 conifer and deciduous trees and the approximately 0.28 acres of primary WHMP lands become Excluded lands due to the substation expansion.

WHMP Valuation

Joe Berry, Chilton Logging Inc. Forester conducted a valuation of the trees marked for removal within the primary WHMP lands to determine the current market value. The value of the trees was based on September market prices and on the market condition of the trees. These trees have an estimated value of \$3,495. The TCC is requesting the full value for these trees.

The project will require removing approximately 0.28 acres of WHMP lands into Excluded lands. PacifiCorp's Real Estate Management Group evaluated comparable properties in the vicinity to determine an average price of \$0.19 per square foot. The value for the property is 0.28 acres or 12,200 square feet x \$0.19= \$2,318.00.

Mitigation Strategy

In 2011 the TCC developed a mitigation strategy that identified replacement values for each vegetation cover type on WHMP lands. The values were based on the definitions and habitat types in the Oregon Department of Fish and Wildlife Fish and Wildlife Habitat Mitigation Policy (OAR 635-415-0000) in the table below.

Habitat Type	Definitions	Replacement Value
Irreplaceable	Unable to replace or recreate, essential or primary habitat for species, and locally rare (e.g., forested wetlands, old-growth)	1:3
Essential	Difficult to replace or recreate, essential or primary habitat for species, and locally uncommon (e.g. mature conifer forests, oak woodland)	1:2.5
Limited	Able to recreate or replace, primary habitat for species, and locally uncommon (e.g., shrubland, meadows). Habitat is actively or has been actively managed in the last 5 years (e.g., Pole thinned). Habitat is a PHS habitat.	1:2
Important	Able to recreate or replace, primary habitat for species, and locally common (e.g., mid-successional forests, pastures)	1:1.5
Potential	Able to restore or natural succession will provide habitat (e.g., clear cut forest)	1:1
Potential	Difficult to restore and natural succession will not provide habitat, and locally common (e.g. developed lands)	1:1

The substation expansion will be removing habitat that is vegetation cover typed as Upland Mixed and considered Important with a 1:1.5 replacement value. Therefore, the total value for the lands will be $2,318 \times 1.5 = \$3,477.00$.

Following construction the areas on WHMP lands that had vegetation removed or ground disturbance will need monitoring and managed to insure that it meets WHMP goals and objectives. This will likely require grass seeding areas with ground disturbance, replanting the vegetation removal areas, and annual monitoring and management of invasive plant species for five (5) years. The estimated cost for this management is \$1,200 for the first year for monitoring, planting, and grass seeding, and \$500 for the following four (4) years for invasive plant species monitoring and management, totaling \$3,200.

Total compensatory mitigation will be $\$3,477 + \$3,495 + \$3,200 = \$10,172$. These funds will be a lump sum payment and may be used by the TCC for land acquisition or management of WHMP lands. These funds will not accrue interest.