

NORTH UMPQUA HYDROELECTRIC PROJECT

FERC No. P-1927

Protection, Mitigation, and Enhancement Measures



2013 Annual Report

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Executive Summary

PacifiCorp Energy (PacifiCorp) is implementing Protection, Mitigation, and Enhancement (PM&E) Measures on the North Umpqua Hydroelectric Project (Project) identified in the June 13, 2001 Settlement Agreement (Settlement Agreement, or SA) and the Federal Energy Regulation Commission (FERC) license (FERC P-1927) issued on November 18, 2003. The license was considered final on October 18, 2005, as defined in the Settlement Agreement. This milestone initiated full implementation of PM&E Measures identified in the Settlement Agreement. This annual report documents PacifiCorp's project and fiduciary activities from January to December 2013.

Representatives from the four federal and three state agencies that signed the Settlement Agreement, in addition to PacifiCorp, function as the Resource Coordination Committee (RCC), which facilitates implementation of the Settlement Agreement. During the reporting period, the RCC conducted four quarterly scheduled meetings that involved opportunities for public participation. As in past years, the RCC again sponsored an on-site public tour of ongoing implementation projects on November 13, 2013.

The PM&E Measures follow a schedule outlined in the Settlement Agreement. License PM&E Measures for this reporting year are those due between January and December 2013.

In 2013, key accomplishments included:

- Consistent with the schedule approved by FERC on September 1, 2011, the Soda Springs fish passage facilities (SA Sections 4.1.1-4.1.2) were completed on November 30, 2012. Adult salmon were observed spawning upstream of the dam during November and December 2012 for the first time since 1951. In 2013, repair of the primary screen was scheduled to address damage that resulted from a high-flow event in December 2012. Most of this work was completed by December 31, 2013.
- The Slide Creek tailrace barrier (SA Section 4.1.1f) was completed in 2011. Minor modifications were made in 2012 to improve the safety and efficiency of operations. Flow balancing was completed in 2013, during the spring high runoff period.
- Fish passage at Fish Creek (SA Section 4.3.2) was completed with the installation of fish screens in 2008, but improvement was needed to increase sweeping velocity across the T-screens and reduce debris loading. Following agency consultation, the shape of the fish screen pool was modified in 2012 to effect this change. The mechanical components of the screen cleaning system were also upgraded and the control system was reprogrammed for efficient operation. Successful operation of this modified fish screen facility was documented in 2013.
- Monitoring of enhanced anadromous fish habitat (SA Sections 7.2-8.3) continued in 2013. For the Slide Creek bypass reach habitat project, final work that began in 2002 was completed; a report was filed with FERC in 2013. Although the fish screen was out of service in 2013 for repairs, the fish ladder was in operation, and ODFW documented adult steelhead and salmon moving upriver into enhanced spawning habitat. During 2013,

greater than 250 new redds were monitored in the North Umpqua river and Fish Creek above Soda Springs dam.

- Planning to improve wetland habitat within Stump Lake was completed in 2013; the wetland will be enhanced in 2014. Two other wetlands will be designed and implemented by 2016 (SA Section 11.5).
- Research was completed at East Fork Rock Creek, as part of a long-term study that will guide future use of funding to provide for aquatic resources in the Rock Creek basin (SA Section 19.1).
- Five-year rolling action plans were again developed in 2013, as part of ensuring compliance with various management plans that provide long-term guidance for cooperative management of multiple resources within the Project area (SA Section 21.1).

The RCC met in January to plan actions for the year, as specified in the Resource Coordination Plan. This forum is conducted annually to coordinate the Parties' collaborative efforts in meeting the intent of the Settlement Agreement. Regularly scheduled RCC meetings continued to oversee current and future PM&E Measures.

SECTION 1.0

INTRODUCTION

SECTION 1.0 INTRODUCTION

Located on the west side of the Cascades mountain range in southern Oregon, the North Umpqua Hydroelectric Project consists of eight dams that have a combined capacity to generate 194 megawatts of power. The project was constructed between 1947 and 1956.

In the early 1990s, as the expiration of the first FERC license approached, PacifiCorp initiated the relicensing application preparation process with FERC. In June 2001, the relicensing process culminated in the development and signing of the North Umpqua Hydroelectric Project Settlement Agreement. The Settlement Agreement identifies annual reporting requirements that range from fiduciary reporting to narrative description of actions. This annual report represents a calendar year timeframe (January to December 2013) and contains the following reporting requirements:

- SA Section 7.2.3 (amended) Gravel Augmentation Program Funding and Accounting: Written annual report describing the amounts deposited and disbursed.
- SA Section 8.3.5 (amended) North Umpqua River Habitat Restoration/Creation Project Funding and Accounting: Written annual report describing the amounts deposited and disbursed.
- SA Section 19.1.1.3 Tributary Enhancement Program Funding and Accounting: Written annual report describing the amounts deposited and disbursed.
- SA Section 19.3.1 Mitigation Fund Annual Reporting: Written annual report describing the amounts deposited and disbursed.
- SA Section 21.4.2 Environmental Coordinator Reports: An annual report on the activities of the RCC and on the implementation of the PM&E Measures.

1.1 Background

On June 13, 2001, PacifiCorp filed a Settlement Agreement pursuant to FERC Rule 602, 18 Code of Federal Regulations §385.602, to resolve issues concerning the relicensing of the North Umpqua Hydroelectric Project (FERC P-1927). Parties to the Settlement Agreement include PacifiCorp, the USDA Forest Service (USDA-FS), the USDI Fish and Wildlife Service (USFWS), the USDI Bureau of Land Management (BLM), the National Marine Fisheries Service (NMFS), the Oregon Department of Environmental Quality (ODEQ), the Oregon Department of Fish and Wildlife (ODFW), and the Oregon Water Resources Department (OWRD), referred to collectively as the “Parties.” As required by statute, FERC conducted a National Environmental Policy Act (NEPA) process that concluded with a Final Environmental Impact Statement (FEIS) issued in March 2003. Based on the findings of the FEIS, FERC

developed articles for a new license for the North Umpqua Hydroelectric Project. FERC formally issued the new license on November 18, 2003, designating a term of 35 years.

Under the provisions of the Settlement Agreement, the license is not final until all administrative and judicial appeals are exhausted. The license was appealed to the Ninth U.S. Circuit Court of Appeals on May 21, 2004. On September 1, 2005, the Court ruled the case in favor of FERC, USDA-FS, and PacifiCorp. The license was therefore considered final on October 18, 2005.

Copies of the Settlement Agreement and the FERC license are available from FERC upon request or on the PacifiCorp Web site at: <http://www.pacificorp.com/es/hydro/hl/nur.html#>.

1.2 Resource Coordination Committee

SA Section 21 establishes a process to facilitate coordination and decision-making concerning implementation of Settlement Agreement measures. To accomplish this objective, SA Section 21.1 provides for the creation of the Resource Coordination Committee (RCC) consisting of representatives from the signing Parties. The purposes of the RCC, discussed in detail in SA Section 2.0, are to 1) facilitate coordination and consultation on plans developed by PacifiCorp for the implementation of PM&E Measures; 2) coordinate the implementation of PM&E Measures and ongoing monitoring requirements by PacifiCorp; 3) establish appropriate procedures for conducting activities; and 4) establish subcommittees to accomplish these objectives.

1.3 Report Organization and Review

The 2013 North Umpqua Hydroelectric Project Annual Report provides the following information:

Section 1.0 Introduction

Section 2.0 Resource Coordination Committee

Section 2.1 RCC Roles and Responsibilities

Section 2.2 RCC Members

Section 2.3 RCC Meetings

Section 3.0 Protection, Mitigation, and Enhancement Measures

Section 3.1 Implementation of PM&E Measures

Section 3.2 FERC License Actions

Section 4.0 Fiduciary Reporting

Section 5.0 Conclusion

SECTION 2.0

RESOURCE COORDINATION COMMITTEE

SECTION 2.0

RESOURCE COORDINATION COMMITTEE

This section provides an overview of RCC roles and responsibilities according to the Settlement Agreement and as subsequently implemented. It also presents a summary of RCC meetings held during the reporting period, including major discussion points, decisions, and action items associated with each meeting.

2.1 RCC Roles and Responsibilities

The purpose and role of the RCC, as defined in SA Section 21.1, is to facilitate coordination and implementation of PM&E Measures. The RCC also looks at implementation requirements, and through collaboration and sharing of information, works to achieve desired results. Specifically excluded from RCC responsibility and authority is the administration of the Tributary Enhancement Program and Mitigation Fund set forth in SA Section 19. However, responsible Parties may consult with the RCC concerning measures conducted pursuant to this program and fund.

The structure and process of the RCC is intended to provide a forum to address time-sensitive matters, give early warning of problems, and coordinate member organization actions, schedules, and decisions to save time and expense. As described in the Settlement Agreement, the RCC must endeavor to conduct its business by consensus. However, in the event of disagreements, the Parties may refer disagreements to appropriate policy-level decision-makers. Decisions of the RCC may not usurp the authority of individual Parties or specific governmental agencies identified in the Settlement Agreement as having approval authority regarding specific PM&E Measures.

The RCC is responsible for the following measures pursuant to the Settlement Agreement:

- Facilitate coordination of the implementation of the Resource Coordination Plan (RCP), including ongoing operations and maintenance (SA Section 21.1).
- Coordinate the implementation of PM&E Measures and ongoing monitoring requirements by PacifiCorp (SA Section 21.1).
- Coordinate responses and evaluations specifically assigned to the RCC (SA Sections 8.2.2, 8.3.3, 12.2, 14.3.3, 14.5, 17.8, 19.2.1 and 22.5.2, and SA Amendment Section 7.2).
- Facilitate coordination and consultation on plans developed by PacifiCorp (SA Section 21.1).
- Review and comment on the draft annual report of RCC activities and implementation of PM&E Measures (SA Section 21.4.2).

- Serve as a common point of contact for public information regarding Settlement Agreement implementation.

The following measures are specifically excluded from RCC responsibility:

- Administration of the Tributary Enhancement Program through ODFW's Memorandum of Understanding (SA Section 19.1).
- Administration of the Mitigation Fund through USDA-FS (SA Section 19.3).
- Approval of plans and actions regarding specific PM&E Measures assigned to individual organizations for resource protection (SA Section 21.2).

The RCC defined discrete goals and functional responsibilities to enhance its effectiveness:

- Interpret the Settlement Agreement: Apply provisions to on-the-ground planning and implementation.
- Monitor implementation of the Settlement Agreement as a whole to provide a wider view than one agency's perspective.
- Avoid surprises and errors through effective communication.
- Track progress: Serve as the interface for the Parties as implementation takes place.
- Identify policy issues: As policy issues arise, work collectively to define and clarify the issues and options for transmittal to the executive members of the Parties.
- Provide public information: Serve as a point of information regarding Settlement Agreement implementation with a collective voice.
- Promote efficiency: Share information among organizations; communicate changes in policy, procedure, or regulation; consult before decision-making; and share technical resources.
- Implement the Settlement Agreement collaboratively to ensure that all Parties' interests continue to be valued throughout the new license term.
- Effectively communicate its progress through the development of a Web site at: <http://www.pacificorp.com/es/hydro/hl/nur.html#>.

2.2 RCC Members

The Parties have each appointed a member and an alternate to the RCC. The members are shown in Table 2.2-1. The RCC members work with a designated caucus within their respective organizations.

**TABLE 2.2-1
2013 Resource Coordination Committee Members**

RCC Member	Organization
Pam Sichting	USDA Forest Service, Umpqua National Forest, Roseburg, Oregon
Jim Thrailkill	USDI Fish and Wildlife Service, Roseburg, Oregon
Anne Shirley	USDI Bureau of Land Management - Roseburg District, Roseburg, Oregon
Ed Meyer	National Marine Fisheries Service, Portland, Oregon
Dave Harris	Oregon Department of Fish and Wildlife, Roseburg, Oregon
Chris Stine	Oregon Department of Environmental Quality, Eugene, Oregon
Craig Kohanek	Oregon Water Resources Department, Salem, Oregon
Monte Garrett	PacifiCorp Energy, Portland, Oregon

2.3 RCC Meetings

During the reporting period, the RCC conducted four meetings to finalize study plans, discuss implementation objectives for PM&E Measures, and facilitate the overall Settlement Agreement implementation. In addition, an annual work planning session was held in January to review past efforts, improve efficiency going forward, and review project work plans (including the SA 19.3 Mitigation Fund projects) for the coming year. The formal ground rules established and adopted by the RCC provide the functional framework for this collaborative approach. These ground rules are provided on the PacifiCorp Web site at:

http://www.pacificorp.com/content/dam/pacificorp/doc/Energy_Sources/Hydro/Hydro_Licensing/North_Umpqua_River/RCC_Ground_Rules.pdf

Meeting summaries are drafted for RCC meetings. The draft summaries are distributed to the RCC members for review and comment. At a subsequent meeting, after corrections have been made as appropriate and when work in progress is completed, the RCC approves the summaries by consensus. Meetings are open to the public for comment, and any comments received are added to the meeting summaries.

This section provides highlights of items discussed at RCC meetings during the reporting period. Detailed meeting summaries are provided on the PacifiCorp Web site at: <http://www.pacificorp.com/es/hydro/hl/nur.html#>.

- The Fireswamp area was chosen as a replacement wetland site for the Clearwater flood plain (below Stump Lake), which the USDA-FS determined was no longer considered a valid enhancement site due to concern regarding old-growth timber in the area. The construction schedule for this enhancement has moved out to 2015 due to a delay in obtaining environmental clearances.
- The RCC approved a Lemolo 1 bypass flow reduction to 40 cfs for up to three days in the fall, to facilitate a survey of the river channel needed to plan repairs to the footbridge below Lemolo Falls.
- Mark Brown (Intermountain Digital) continued his work on the last part of the North Umpqua project video. It will be a comprehensive look at the entire program and will highlight completion of the Soda Springs fish passage project as well as many other efforts.
- The RCC approved use of up to \$10,000 from the SA 19.2 fund for Stillwater Sciences' work on a survey and technical memorandum that will help document the number of Chinook salmon spawning upstream of Soda Springs dam. This work was deemed to be valuable information and a prudent use of the long term monitoring fund.
- The annual public tour was held on November 13, 2013.
- The RCC agreed during the January 2013 annual planning session to change the meeting schedule from monthly to quarterly. The schedule included an annual planning session and the annual public tour. It was further agreed that, if there is a need for other project discussion or collaboration, additional conference calls would be scheduled.

SECTION 3.0

PROTECTION, MITIGATION, AND ENHANCEMENT MEASURES

SECTION 3.0 PROTECTION, MITIGATION, AND ENHANCEMENT MEASURES

This section presents 2013 progress of PM&E Measures defined in the North Umpqua Settlement Agreement and the FERC license. A summary of all documents submitted to FERC and their current status is also presented.

The Parties have agreed to modify the schedule of PM&E Measures, when necessary. In such instances, the Parties convene and modify Settlement Agreement implementation dates if all Parties are in agreement that such modifications are warranted. Delays in implementation are typically needed only to further refine plans for the action in order to ensure greater success.

3.1 Implementation of PM&E Measures

The schedule for all PM&E Measures and their status is presented in Table 3.1-1. The status of the PM&E Measures specific to the timeframe of this report is presented in Table 3.1-2.

During the report period, Settlement Agreement and license actions focused on planning, monitoring, construction projects, and engineering designs. All Parties have worked cooperatively toward meeting Settlement Agreement schedule commitments.

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**TABLE 3.1-1
Protection, Mitigation, and Enhancement Measures
Implementation Schedule**

Key	
	Due Date
x	In Progress
●	Complete

SA Section	PM&E	YEAR														
		2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024+
4.0 FISH PASSAGE MEASURES																
4.1.1(e)	Soda Springs Fish Ladder Construction	x	x	●												
4.1.2(d)	Soda Springs Downstream Screen Construction	x	x	●												
4.1.2(f)	Soda Springs Downstream Passage Construction	x	x	●												
5.0 INSTREAM FLOWS																
5.6	ODFW Holding Ponds Water Supply	●	●	●	●											
6.0 RAMPING																
6.2.1	Slide Creek Ramping Monitoring Plan Implementation				●											
6.4	Wild & Scenic Ramping Restrictions	●	●	●	●											
6.5	Bypass Reach Ramping Restrictions	●	●	●	●											
6.6	Project Maintenance - Appendix D Schedule	●	●	●	●											
6.7	Emergency Shutdown Ramp Restrictions	●	●	●	●											
7.0 RESTORATION OF FLUVIAL PROCESSES																
7.2	Gravel Augmentation Program	●	●	●	●											
7.3	Passage of Woody Debris	●	●	●	●											
7.4	Passage of Sediment (if high flows present)	●	●	●	●											
8.0 MAINSTEM HABITAT ENHANCEMENT																
8.3.5	Soda Springs Funding and Accounting	●	●	●	●											
9.0 RESERVOIR AND FOREBAY MANAGEMENT																
9.1	Stocking of Rainbow Trout Funding	●	●	●	●											
9.3	Management of Lemolo Lake Reservoir	●	●	●	●											
9.5	Fish Salvage during Shutdowns	●	●	●	●											
10.0 AQUATIC RESOURCES																
10.6	Reconnecting Aquatic Connectivity Sites	x	x	x	x											
11.0 TERRESTRIAL RESOURCES																
11.5	Wetland Areas: #6, #7, & #8			x	x											
12.0 VEGETATION MANAGEMENT																
12.1	Vegetation Management Plan Development and Implementation	●	●	●	●											
12.2	Noxious Weed Control	●	●	●	●											
13.0 AVIAN PROTECTION																
13.4	Records & Database Management System	●	●	●	●											

**TABLE 3.1-1
Protection, Mitigation, and Enhancement Measures
Implementation Schedule**

Key	
	Due Date
x	In Progress
●	Complete

SA Section	PM&E	YEAR														
		2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024+
14.0 EROSION & SEDIMENT CONTROL																
14.4.3	Medium Priority Erosion Sites (27)	x	x	x	x											
14.5	Erosion Monitoring	●	●	●	●											
15.0 TRANSPORTATION																
15.1	Transportation Management Plan Implementation	●	●	●	●											
15.2	PPL Roads to USDA-FS Standards	●	●	●	●											
15.3	Cost Sharing for Joint Roads and Maintenance	●	●	●	●											
15.5	Bridges - Inspections/Maintenance	●	●	●	●											
15.5.1	Bridge Maintenance Cost Sharing	●	●	●	●											
15.6	100-Year Flood Culvert Upgrades	x	x	x	x											
15.6	Culvert Maintenance on PPL Use Roads	●	●	●	●											
16.0 AESTHETICS																
16.1	Aesthetics Management Plan Implementation	●	●	●	●											
16.4	Transmission Line Mitigation (11 Sites)															
17.0 RECREATION																
17.2	Recreation O&M Funding	●	●	●	●											
17.7	Law Enforcement Funding	●	●	●	●											
17.8	Recreation - Capital Improvements	●	●	●	●											
17.9	Public Information Funding	●	●	●	●											
17.10	Annual Monitoring Funding	●	●	●	●											
18.0 CULTURAL																
18.1	Historic Properties Management Plan Implementation	●	●	●	●											
18.3/18.6	Site Discovery/Monitoring	●	●	●	●											
18.4	Protection, Restoration, and Recovery	●	●	●	●											
19.0 MITIGATION																
19.1.1	Tributary Enhancement Account - Use of Funds	●	●	●	●											
19.2	Long-Term Monitoring/Predator Control Funding	●	●	●	●											
19.2.1	Long-Term Monitoring/Predator Control Disbursements	●	●	●	●											
19.3.3	Federal Mitigation Funding	●	●	●	●											
19.4.1	Monitoring and Oversight	●	●	●	●											

**TABLE 3.1-1
Protection, Mitigation, and Enhancement Measures
Implementation Schedule**

Key	
	Due Date
x	In Progress
●	Complete

SA Section	PM&E	YEAR														
		2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024+
21.0 COORDINATION & DECISION-MAKING																
21.1	Resource Coordination Committee	●	●	●	●											
21.1	Resource Coordination Plan - Developed and Implemented	●	●	●	●											
21.4.2	Annual Report	●	●	●	●											
21.5	Site Specific Plan Development	●	●	●	●											

**TABLE 3.1-2
Protection, Mitigation, and Enhancement Measures Status**

SA Section	PM&E	Due Date	Current Status
4.1	Fish Passage at Soda Springs Dam Design/Construct/Evaluate/Operations and Maintenance	2012 – complete construction 2013 – complete repairs 2016 – complete evaluation	Construction was completed and facilities were functional by November 30, 2012. Damage to the fish screen during natural high flows in December 2012 required shutdown for repair and modification during all of 2013. The fish ladder remained in service all year and passed hundreds of adult steelhead and salmon.
4.1.1(f)	Slide Creek Tailrace Barrier & Bypass Design /Construct Refer to SA Section 6.9 for Bypass project	2011 – complete construction 2013 – complete evaluation	Hydraulic balancing was completed in May 2013. Additional adjustments are being considered for 2014.
5.1	Instream Flow Increases in Project Bypass Reaches	2005-2038	New-license-required minimum flows continue to be provided and managed within required ramp rate allowances.
5.5	Instream Flow Monitoring	2002-2038	Monitoring and reporting continued as required in the Plan.
6.2.1	Slide Creek Ramping Monitoring Plan Implementation	2013-2020	A pilot field study was done in October 2013 to refine study methods.
6.4	Wild and Scenic Ramping Restrictions	2001-2038	Ramping restrictions have been followed within equipment limitations per the Flow Monitoring Plan.
6.5, 6.6	Bypass Reach Ramping Restrictions	2001-2038	Ramping restrictions and reporting requirements have been followed per the Flow Monitoring Plan.
7.2	Gravel Augmentation Program (as per SA Amendment No. 1)	2002-2038	Monitoring of augmentation sites continued per the Plan.

SA Section	PM&E	Due Date	Current Status
7.3	Passage of Woody Debris at Soda Springs and Slide Creek Dams	2002-2038	Passage of woody debris continued according to the Plan.
8.2.1-8.2.2	Slide Creek Bypass Reach Habitat Project Implementation/ Monitoring	2002 - 2038	Monitoring continued according to the Plan.
8.3.2-8.3.3	North Umpqua River Habitat Restoration/ Creation Implementation/ Monitoring	2004-2038	Annual monitoring occurred according to the Plan. An annual report was submitted to the RCC.
9.1	Funding for Production of Rainbow Trout for Stocking	2004-2038	PacifiCorp provided \$21,545 to the ODFW.
9.3	Lemolo Reservoir Management Plan and Limits on Drawdown Rate and Elevations	2001-2038	Water levels and drawdown rates were monitored according to the Flow Monitoring Plan. Lake management and consultation proceeded according to the Lemolo Reservoir Management Plan.
9.5	Salvage of Fish During Maintenance Shutdowns	2001-2038	Advance notice of maintenance shutdowns and the salvage and liberation of fish continued as required.
10.6	Aquatic Connectivity	Priority 2 sites – 2016	Three aquatic connection sites were constructed. A schedule of implementation has been developed with a completion date in 2016. For 2014, a total of seven sites will be constructed. Five of the sites have prepared designs and two will have fully engineered designs completed on or about June 2014. Construction of the five “complicated” sites will be completed in late September with the two “outage” sites completed in early November.

SA Section	PM&E	Due Date	Current Status
11.5	Wetland Development	2006-2016	The three remaining wetland enhancement sites were identified in consultation with ODFW and USDA-FS. The Stump Lake Pothole enhancement is scheduled for construction in 2014. The Fireswamp and Lake Creek Elk Camp enhancements are scheduled for construction in 2015 and 2016, respectively.
12.1	Vegetation Management Plan Implementation	2004-2038	The Vegetation Management Plan (VMP) is being implemented. Noxious weed treatments are being conducted on both BLM and USDA-FS lands on an annual basis. The noxious weed training program was developed and implemented and will continue on an annual basis per the VMP. The horticultural invasive species program was also developed and implemented and will continue as necessary to satisfy VMP requirements. The 5-year rolling action plan (RAP) was presented to both the USDA-FS and the BLM in December.
13.1	Power Pole Modification	2001-2038	Transmission structures were replaced and installed on Lines 39 and 46 to achieve NERC compliance requirements for under-clearance. Additional structures are planned for replacement in 2014 on lines east of Clearwater Switchyard.
13.4	Records Database Management System	2001-2038	PacifiCorp continues to maintain a database for management of birds on power lines. An annual report summarizing avian-powerline program activities occurring within the Project area was submitted to the USDA-FS in February.
14.2	Canal Shutoff and Drainage Systems	2007-2010	Fish Creek, constructed in 2008, continues to receive improvements to its communication system. Further upgrades and testing occurred this year with more planned for 2014.

SA Section	PM&E	Due Date	Current Status
14.4	Erosion Site Remediation	2016	Erosion site remediation was completed at two sites: Site LM2-8 which is also an aquatic reconnect site (LM2-AR-6.09), and LM2-24 Norma Creek.
14.5	Erosion Control Monitoring	2001-2038	Erosion sites were monitored and an annual report was produced and distributed to the agencies in December.
15.1 – 15.4	Transportation Management Plan Implementation	2004-2038	The Transportation Management Plan continues to undergo implementation. Culvert inspections and maintenance are being performed annually. The 5-year RAP was developed in consultation with the USDA-FS and the BLM. The road maintenance cost share amount was \$42,861; of which PacifiCorp's share was \$9,712.
15.5, 15.5.1	Bridge Inspections, Maintenance; and Cost Sharing	Biennial - Inspections 2015 – Non-critical Bridge Maintenance 2005-2038 – Cost Sharing	Major progress has been made toward completion of non-critical bridge maintenance and deferred maintenance tasks by 2015. The Deer Creek bridge (U-15) was painted and a new asphalt surface installed. All of the North Umpqua bridges were inspected in 2013 as part of the biennial inspection program. Twenty-four of the bridges will be inspected and new load ratings developed for the bridges in 2014.
15.6	Fish Passage and Q100 Culvert Upgrades	2005-2016	All fish passage projects on PacifiCorp-maintained roads have been completed. The last remaining Q100 culvert upgrade on PacifiCorp-maintained roads (culvert no. 1035) was installed in 2013 to coincide with related aquatic connectivity projects. PacifiCorp continues to fund the USDA-FS culvert upgrades on jointly maintained roads.

SA Section	PM&E	Due Date	Current Status
16.1, 16.3, 16.4	Visual Resources (Aesthetics) Management Plan	2005-2038	The Visual Resources (Aesthetics) Management Plan is final and undergoing implementation. The 5-year RAP is developed annually in December.
17.1	Recreation Resources Management Plan Implementation	2004-2038	The Recreation Resources Management Plan is final and implementation occurs through the 5-year RAP process. The RAP is updated annually, approved by the USDA-FS and identified actions are then completed. Detailed descriptions of planned and completed actions are presented in the RAP attachments.
17.2	Campground Operations and Maintenance	2004-2038	PacifiCorp provided \$102,756 to the USDA-FS. These funds are to be used for the operation and maintenance expenses for campground facilities on or near PacifiCorp project waters.
17.7	Law Enforcement	2004-2038	PacifiCorp provided \$10,412 to the USDA-FS for land-based law enforcement support at recreation facilities in the FERC project boundary.
17.8	Capital Improvements	2002-2015; future years will be monitoring-dependent	PacifiCorp provided \$325,375 to the USDA-FS. These funds were used for recreation facility capital improvement projects.
17.9	Public Information	2004-2038	PacifiCorp provided \$8,434 to the USDA-FS.
17.10	Recreation Monitoring Recreation Monitoring (Periodic Surveys)	2004-2038 2007, 2012, 2017, 2022, 2027, and 2032	PacifiCorp provided \$8,434 to the USDA-FS.

SA Section	PM&E	Due Date	Current Status
18.1	Cultural Resources (Historic Properties) Management Plan Implementation	2006-2038	The Historic Properties Management Plan and Historic Structures Plan are both finalized and undergoing implementation. The 5-year RAP is updated annually in consultation with the USDA-FS, the BLM, and the SHPO. Detailed descriptions of planned and completed actions are presented in the RAP attachments.
18.6	Cultural Resources Monitoring	2001-2038	PacifiCorp continues to coordinate ground-disturbing activities with the USDA-FS, the BLM, and the SHPO to assure ongoing monitoring and protection of historic properties.
19.1	Tributary Enhancement Program	2004-2038	Per the ODFW Memorandum of Understanding, work continues on fish habitat enhancements and fish passage improvements.
19.2	Long-Term Monitoring and Predator Control	2004-2038	PacifiCorp deposited \$130,154.31 Long-term monitoring and predator study work proceeded according to the study plan.
19.3	Mitigation Fund	2004-2038	<p>PacifiCorp deposited \$325,385.77 into the USDA-FS account.</p> <p>A USDA-FS Mitigation Fund Board of Directors (BOD) annually evaluates proposals and selects mitigation projects to be implemented with this funding. Project rankings are completed by the USDA-FS hydropower project review group and final recommendations are made by the BOD. The Forest Supervisor of the Umpqua National Forest makes the final decision on project selections.</p>
19.4	Oversight Costs	2005-2020	PacifiCorp provided \$210,849.98 to the ODFW for the funding of two full-time ODFW personnel to help oversee and monitor work associated with the ODFW MOU.

SA Section	PM&E	Due Date	Current Status
21.4.1	RCC	2001-2038	The RCC continued to facilitate the implementation of PM&Es. It held an annual planning session, one public tour, and quarterly meetings. Technical working groups also convened if/when necessary, to address detailed consultation issues.

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3.1.1 Major Accomplishments

During the reporting period, PacifiCorp continued progress on implementing PM&E Measures in compliance with the Settlement Agreement. Major accomplishments in 2013 are described below by Settlement Agreement section.

Fish Passage at Soda Springs Dam (SA Section 4.1)

Significant efforts were devoted to designing, contracting, and completing repair and modifications to the fish screen facility to address damage that occurred during the flow event of December 2, 2012. Mitigation of this damage included development and implementation of high flow event procedures to proactively prevent future damage from such events, and to incorporate into the repaired screen facility two pressure relief panels that will prevent harmful water differential pressures across the primary screens. The repair was nearly complete by the end of 2013. Though the screen facility was out of service during 2013, the fish ladder remained in operation. PacifiCorp and agency staff documented more than 220 successful Chinook salmon redds and more than 30 steelhead redds within historic habitat upstream of Soda Springs in the North Umpqua River and Fish Creek.

Tributary Enhancement Program (SA Section 19.1)

A 9-year study to determine habitat enhancements (large woody debris and boulder placement) to best benefit overwintering juvenile coho salmon in the East Fork Rock Creek was completed in 2013. The results of this work will continue to inform use of 19.1 funding by ODFW to enhance tributaries downstream of the North Umpqua Project.

Meanwhile in 2013, implementation of habitat enhancements and other program work by ODFW staff continued, including:

- Enhancement of another mile of the Mainstem Rock Creek with 800 5-6ft boulders and 72 40-60ft logs placed at 11 sites. Three side channels were also enhanced within those sites. Prior to enhancement, these sites were dominated by bedrock and no salmon redds had been observed. After enhancement, gravel was retained within the reach and seven spring chinook salmon redds were observed.
- In addition, the logs placed in 2012 for passive mobilization have been hydraulically moved downstream to interact with previously constructed porous jams to form high grade habitats without the use of an excavator. Of the twenty 50-60ft logs “seeded” into upper Rock Creek by a self-loading truck, the majority have moved into the canyon downstream and have formed several small jams and are slowing and diverting water and collecting gravel for fish to spawn on. The log seeding is proving to be very cost effective and successful.
- The Upper East Fork Rock Creek received 300 3-4ft boulders and 50 30-45ft logs at 11 sites within a three-quarter mile section of Seneca Jones Timber land.

- The eighth and final year of the effectiveness monitoring at Harrington Creek was wrapped up in the winter. The study showed that by reconnecting and enhancing side channels in the floodplain, overwintering success of juvenile coho (14 percent pre-enhancement and 30 percent post-enhancement) could effectively be doubled, thereby increasing the carrying capacity in the tributary. ODFW plans to incorporate the same design elements in Harrington Creek’s mainstem and in the 13 remaining unenhanced side channels in the coming years (2015-2017), as well as to the remaining tributaries of Rock Creek and the Rock Creek mainstem side channels (2014 and beyond).
- Conservation easements were considered again and the local watershed council and Roseburg BLM have expressed interest to pursue some ideas in 2014-2015.
- Progress was made toward installing fish-sorting facilities at the Rock Creek Hatchery diversion dam fish ladder. Several depth gauges have been added, a davit crane was installed to help sort trapped adults, and the juvenile bypass system has been redesigned and will be installed soon.

Monitoring is a substantial component of the program, and the results observed in sites previously enhanced will help increase the efficiency and cost-effectiveness of future enhancements. ODFW is partnering with the local watershed council to supplement the mitigation fund dollars to provide continued coverage of the basin well into the future.

3.1.2 Plans and Reports

The following plans and reports were completed and/or revised:

Plan/Report	SA Section and/or License Article	Date
Soda Springs Spawning Habitat Annual Report	SA 8.3	January 2013
Lemolo Reservoir Management Report	SA 9.0	January 2013
Annual Avian Protection Report	SA 13.4	February 2013
Annual Threatened and Endangered Species and Bald Eagle Monitoring Report	License Articles 411 & 412	February 2013
Erosion Control Plan Annual Report	SA 14.5	August 2013
Flow Monitoring Report (WY2011)	SA 5,6	September 2013
Historic Properties Annual Report	License Article 414	December 2013

3.2 FERC License Actions

The FERC license contains actions that are required in addition to those actions in the Settlement Agreement. Table 3.2-1 summarizes the FERC License requirements that were fulfilled during this reporting period.

**Table 3.2-1
FERC License Actions Status**

Date Filed	License Article	Settlement Agreement Section	Description	Status/ Comments
2/22/13	411 & 412	USDA-FS 4(3) Cond. 16	2012 Threatened and Endangered Species and Bald Eagle Monitoring Report	Acknowledged 2/22/13
3/18/13	401	SA 8.2	2012 Slide Creek Bypass Reach Habitat Enhancement – Final Monitoring Report	Acknowledged 5/22/13
6/12/13	401	21.4.2	2012 Resource Coordination Committee Annual Report	Acknowledged 6/22/13
12/17/13	414	18.1 & 18.2	2013 Historic Properties Annual Report/Action Plan	Acknowledged 12/17/13

SECTION 4.0

FIDUCIARY REPORTING

SECTION 4.0 FIDUCIARY REPORTING

Consistent with Settlement Agreement fiduciary reporting requirements, this section provides account information for the following actions and fulfills the requirement to annually report the amounts deposited into and disbursed from each account:

- SA Section 7.2.3 (amended) Gravel Augmentation Program
- SA Section 8.3.5 (amended) North Umpqua River Habitat Restoration/Creation Project
- SA Section 19.1.1.3 Tributary Enhancement Program
- SA Section 19.3.1 Mitigation Fund

The Settlement Agreement does not require annual reporting for SA Section 19.2 Long-Term Monitoring and Predator Control Fund. Since this was likely an oversight, the account information for this fund is also provided in this section.

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Fiduciary Reporting

SA Section 7.2 Gravel Augmentation Program

Date	Item	Expenditures	Funding	Balance
2013	Opening Balance			\$37,460.81
2013	Annual Escalation (as per SA 22.4.4)		\$611.47	\$38,072.28
2013	Expenditures	\$0.00		
2013	Total Expenditures	\$0.00		\$38,072.28
2013	Ending Balance			\$38,072.28

Fiduciary Reporting

SA Section 8.3 North Umpqua River Habitat Restoration/Creation Project

Date	Item	Expenditures	Funding	Balance
2013	Opening Balance			\$200,847.86
2013	Annual Escalation (as per SA 22.4.4)		\$3,278.43	204,126.29
2013	Expenditures	\$0.00		
2013	Total Expenditures	\$0.00		\$204,126.29
2013	Ending Balance			\$204,126.29

Fiduciary Reporting
SA Section 19.1 Tributary Enhancement Program Fund

Date	Item	Expenditures	Funding	Balance
2013	Opening Balance			\$1,739,984.45
2013	Expenditures			
	Knife River Materials			
	Boulders/delivery			
	Kevin Saylor			
	Root wads/large wood placement			
	United Rentals			
	Equipment Rental			
	Willard Marshall Trucking			
	Log hauling			
2013	Total Expenditures	(\$60,785.25)		\$1,679,199.20
2013	Investment Earnings		\$190.30	\$190.30
2013	Ending Balance			\$1,679,389.50

Fiduciary Reporting

SA Section 19.2 Long Term Monitoring/Predator Control Fund

Date	Item	Expenditures	Funding	Balance
2013	Opening Balance			\$130,607.94
2013	Annual Funding (\$100K escalated)		\$130,154.31	\$260,762.25
2013	Expenditures			
	Smith-Root			
	Electrofishing boat repairs	(\$8,401.67)		
	Stillwater Sciences			
	Photographic basemap book development; spring chinook redd survey	(\$15,059.00)		
2013	Total Expenditures	(\$23,460.67)		\$237,301.58
2013	Interest Earned		\$28.38	\$237,329.96
2013	Ending Balance			\$237,329.96

Fiduciary Reporting

SA Section 19.3 Mitigation Fund

Date	Item	Expenditures	Funding	Balance
2013	Opening Balance			\$1,290,347.83
2013	Annual Funding (\$250,000 escalated)		\$325,385.77	\$1,615,733.60
2013	Expenditures			
	Mitigation Projects			
	Copeland/Deception/Calf PCT			
	3831-005 Instream Restoration			
	Little Rock Creek/Cedar Creek			
	Longs Culvert			
	Stream Gages			
	Stream Temperature			
	Lemolo Public Health			
	Instream Restoration Effects Monitoring			
	Stinkhole Pond & Wetlands Monitoring			
	Newt Pond Creation			
	Mortality Compensation Forage Enhancement			
	Mitigation Fund Program Management			
	PREVIOUSLY SELECTED PROJECTS- ANNUAL FUNDS ADDED:			
	Steamboat Fish Ladder Monitoring			
	Macro Invert Study			
2013	Total Expenditures	(\$397,425.00)		\$1,218,308.60
2013	Interest Earned		\$535.50	\$1,218,844.10
2013	Ending Balance			\$1,218,844.10

SECTION 5.0

CONCLUSION

SECTION 5.0 CONCLUSION

The 2013 Annual Report underscores a productive year made possible through the dedication of Parties to the Settlement Agreement and their respective staff, PacifiCorp's implementation team members, and the public. This collaborative approach provided an effective framework for realizing benefits of the Settlement Agreement in a highly valued watershed.

The RCC ground rules and protocols for interagency teamwork and communication have provided an effective framework for watershed management consistent with the goals of the Settlement Agreement. Parties worked cooperatively toward meeting Settlement Agreement commitments during the report period and projects were completed on schedule. With the repair of the Soda Springs fish screen, the fish passage project was nearly completed by the end of the year, and hydraulic and biological evaluations of the facilities are expected to commence in 2014.

Major accomplishments during the reporting period included 1) substantial completion of the Soda Springs fish screen repair project; 2) documentation of spawning salmon upstream of Soda Springs for the first time in 60 years; 3) completion of a long-term study to determine effective habitat enhancement for coho salmon in tributaries downstream of the hydroelectric project; and 4) completing annual Rolling Action Plans and associated tasks for ongoing programs to manage vegetation, erosion, transportation, aesthetics, recreation, and cultural resources in the North Umpqua Project area.

We have high expectations for 2014, emphasizing commissioning of the modified Soda Springs fish screen, as well as the initiation of biological and hydraulic evaluations of the fish passage facilities. The RCC and technical working groups will focus attention on the successful operation of the new facilities pursuant to the intent of the Settlement Agreement. Other projects scheduled for 2014 include construction of aquatic site reconnections along the Clearwater 2 and Lemolo 2 waterways, completing designs for wetland enhancement near the Clearwater 1 dam, and additional recreation enhancements. As in past years, long-term monitoring and off-site mitigation will continue in the North Umpqua basin as part of the implementation program.