

## MCNARY DAM FISH ATTRACTION, P-10204

### **Washington Department of Fish & Wildlife**

#### NARRATIVE DESCRIPTION OF EXPECTED WORKLOAD:

Attend the McNary Fisheries Irrevocable Trust Fund meetings.

#### COMPLIANCE & LICENSE IMPLEMENTATION:

Irrevocable Trust Fund is a license settlement agreement.

#### REVIEW, COMMENT, APPROVALS:

Review and make recommendations for Grant applications for fund disbursement.

#### ACTIVITIES:

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### **Washington Department of Ecology**

No information provided.

## YOUNGS CREEK, P-10359

### **Washington Department of Fish & Wildlife**

#### NARRATIVE DESCRIPTION OF EXPECTED WORKLOAD:

Review and comment on Terrestrial Resources Management Plan Annual Reports.

#### COMPLIANCE & LICENSE IMPLEMENTATION:

License implementation

#### REVIEW, COMMENT, APPROVALS:

Review and comment on Terrestrial Resources Management Plan Annual Report.

Review and comment on fish impacts on modification or amendment to 401 certification-- as needed at the request of Ecology.

#### ACTIVITIES:

Attend meetings and site visits in relation to terrestrial resources.

Consult on fish and wildlife impacts on any construction, repairs, or projects -- as needed

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### **Washington Department of Ecology**

#### NARRATIVE DESCRIPTION OF EXPECTED WORKLOAD:

Implementation of 401 Certification - As needed amendment and variance for monitoring and reporting requirements to accommodate changes to the project and upcoming construction activities.

#### COMPLIANCE & LICENSE IMPLEMENTATION:

License Implementation

#### REVIEW, COMMENT, APPROVALS:

- Review and comments on modifications to WQ monitoring requests – as needed
- Review and comments on WQ deviation/violation – as needed
- Development and review of Administrative orders – as needed

#### ACTIVITIES:

- Ad hoc meetings and consultations to address project-related issues as they come up
- Sites visits - as needed
- Respond to non-compliance events, ERTS complaints - as needed
- Respond to public information request- as needed

## YELM, P-10703

### Washington Department of Fish & Wildlife

#### NARRATIVE DESCRIPTION OF EXPECTED WORKLOAD:

- Act as Yelm designated licensing and implementation lead
- Participation is through the Nisqually Project. Ensure any adjustments to instream flow takes into account the Yelm senior water right.

#### COMPLIANCE & LICENSE IMPLEMENTATION:

- Provide technical support
- Attend NRCC meetings and NRCC conference calls – flow management
- Review License, plans and FERC e-library for implementation conditions as needed

#### REVIEW, COMMENT, APPROVALS:

- Meeting notes/materials
- Decision Documents
- Assist with fish screens

#### ACTIVITIES:

- Coordinate with Ecology and WDFW on activities related to adaptive management and License conditions.
  - Coordination with Nisqually Tribe, USFWS and NMFS
  - Attend Hydro-fee meeting and review project and participation with Yelm representative
  - Project site visits as needed for aquatic and terrestrial activities
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### Washington Department of Ecology

#### NARRATIVE DESCRIPTION OF EXPECTED WORKLOAD:

- Implementation of FERC license and 401 Certification.
- Ecology will be involved in discussions to accommodate changes within the Project and scheduled construction activities.
- Provide technical assistance related to water quality compliance; Water Quality Protection Plans (WQPPs) and possible tie to Construction Stormwater General Permits.

#### COMPLIANCE & LICENSE IMPLEMENTATION:

- License Implementation work
- Water Quality Monitoring Plan

#### REVIEW, COMMENT, and APPROVALS:

- Annual WQ Monitoring Report
- Potential WQPPs for activities within the Project boundary

ACTIVITIES (require review and approval of WQPP or SWPPP; may also require Construction Stormwater General Permit(s)):

SUMMER/FALL WEEKLY MTGS:

- Low flow/warm temperature meetings in conjunction with P-1862 Nisqually River Project
- Barrier dam dredging – on hold
- Site visits: 2-4/yr

## ENLOE PROJECT, P-12569

### **Washington Department of Fish & Wildlife**

**NARRATIVE DESCRIPTION OF EXPECTED WORKLOAD:**

Continue coordination of activities with Okanogan PUD in regards to the future of the Enloe Project. Currently it is not known how Okanogan PUD would like to proceed after announcing that they do not intend to energize the Enloe Project. Continued coordination activities with Ecology.

**COMPLIANCE & LICENSE IMPLEMENTATION:**

**REVIEW, COMMENT, APPROVALS:**

**ACTIVITEIS NOT FUNDED BY HYDRO-FEES:**

Technical Review, legal consultation, and general correspondence with applicant. Approximately 78 hrs.

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### **Washington Department of Ecology**

**NARRATIVE DESCRIPTION OF EXPECTED WORKLOAD:**

Okanogan PUD passed a decision on November 19, 2018 to no longer pursue reenergizing Enloe Dam. Continued coordination with Okanogan County PUD on process.

**COMPLIANCE & LICENSE IMPLEMENTATION:**

**REVIEW, COMMENT, APPROVALS:**

**ACTIVITIES:**

Provide technical assistance as needed.

## SUNSET FALLS, P-14295

### **Washington Department of Fish & Wildlife**

**NARRATIVE DESCRIPTION OF EXPECTED WORKLOAD:**

WDFW anticipates spending substantial time with settlement agreement negotiations, license articles review, and consultation with internal and external technical experts for study plan and study plan results review. Will also consult on 401 certification creation.

**COMPLIANCE & LICENSE IMPLEMENTATION:**

401 certification development.

**REVIEW, COMMENT, APPROVALS:**

**ACTIVITIES:**

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### **Washington Department of Ecology**

**NARRATIVE DESCRIPTION OF EXPECTED WORKLOAD:**

SNOPUD withdrew the application for FERC licensee for this project in 2018. Not anticipating any major work, except filing and compiling existing information.

**COMPLIANCE & LICENSE IMPLEMENTATION:**

Pre-license stage

**REVIEW, COMMENT, APPROVALS:**

**ACTIVITIES:**

- Filing and sorting existing documents.
- Respond to public information requests - as needed

## NISQUALLY RIVER, P-1862

### Washington Department of Fish & Wildlife

#### NARRATIVE DESCRIPTION OF EXPECTED WORKLOAD:

- Act as Nisqually River designated licensing and implementation lead
- Attend Committee and Subcommittee meetings
- Report and plan review and comment
- Monitor compliance with License, Settlement Agreement and plan(s)
- Participate on annual wildlife land field tour
- Coordination with Ecology and WDFW
- Provide technical support

#### COMPLIANCE & LICENSE IMPLEMENTATION:

- Attend Nisqually River Coordinating Committee meetings
- Participate on Nisqually River Coordinating Committee conference calls – flow management
- Attend Gravel Subcommittee meetings
- Review License, Settlement Agreement, plans and FERC e-library for implementation conditions
- Provide Ecology fish technical information

#### REVIEW, COMMENT, APPROVALS:

- Meeting notes/materials
- Decision Documents
- Gravel Plan
- Tailrace Plan
- License Amendment
- Annual Reports

#### ACTIVITIES:

- Provide Tacoma technical support
- Annual Reports
  - License Article 410 Annual Natural Resources Report
  - Alder Lake Kokanee Stocking and Fish Passage Assessment Report License Articles 413 and 415
  - License Article 416 Report Monitoring Fish Passage in the LaGrande Bypass Reach
  - License Article 417 LaGrande Powerhouse Tailrace Attraction Study
  - Combined License Article 418 & 419 Nisqually River Gravel Report
  - License Article 423 Annual Wildlife Management Report
- Coordinate with Ecology and WDFW on activities related to adaptive management, new plans, and License conditions.

- Provide WDFW information from License and associated amendments, Settlement Agreement, and plan(s)
- Coordination with Nisqually Tribe, City of Centralia, USFWS and NMFS
- Attend Hydro-fee meeting and review project and participation with Tacoma representative
- Participate on Annual wildlife land field tour, provide adaptive management input for wildlife land management operations (mowing schedule, etc.)
- Participate on site visits for gravel augmentation and any others as needed
- Review and comment on the License amendment for articles 416 (not encouraging fish use in the bypass reach and 419 (gravel augmentation in bypass reach)
- Evaluate remaining tailrace study needs

**ACTIVITIES NOT FUNDED BY HYDRO-FEES:**

Technical Review, Legal consultation, general correspondence with applicant, engineering review and technical meeting representation. Approximately 248 hrs.

**Washington Department of Ecology**

COMPLIANCE & LICENSE IMPLEMENTATION: None known at this time.

REVIEW, COMMENT, and APPROVALS:

- FERC License Reports: Articles 416, 418, and 419
- Gravel Augmentation Plan review

MEETINGS:

- Nisqually River Coordinating Committee as needed (approximately six meetings per year)
- As needed: Summer-Fall weekly meetings related to: Low flow/warm temperature, minimum flow
- Participate in Gravel Augmentation Sub-Committee meetings

ACTIVITIES (require review and approval of WQPP and/or SWPPP; may also require Construction Stormwater General Permit(s)):

- Gravel augmentation
- SITE VISIT: As needed (1-3/yr)



## COWLITZ RIVER, P-2016

### Washington Department of Fish & Wildlife

#### NARRATIVE DESCRIPTION OF EXPECTED WORKLOAD:

- Act as Cowlitz River designated licensing and implementation lead
- Attend Committee and Subcommittee meetings
- Report and plan review and comment
- Monitor compliance with License, Settlement Agreement and plan(s)
- Coordination with Ecology and WDFW
- Provide Tacoma technical support

#### COMPLIANCE & LICENSE IMPLEMENTATION:

- Attend and participate at Fish Technical Committee meetings
- Attend Cowlitz Restoration and Recovery meetings and participate on grant program
- Attend and participate at Habitat Advisory Group meetings
- Attend and participate at Fish Hatchery Management Plan workshops
- Review License, Settlement Agreement, plans and FERC elibrary for implementation conditions
- Provide Ecology fish technical information

#### REVIEW, COMMENT, APPROVALS:

- Meeting notes/materials
- Decision Documents
- Gravel Plan
- Fish Hatchery Management Plan
- Hatchery Genetics Management Plan
- Annual Reports
- Cowlitz Restoration and Recovery

#### ACTIVITIES:

- Provide Tacoma technical support
- Annual Reports
  - Downstream Fish Passage Improvement Plan: Mayfield
  - Upstream Fish Passage Report Annual Report
  - Effectiveness of the Riffe Lake/Cowlitz Falls downstream fish passage/collection facilities and measures
  - Fisheries and Hatchery Management Plan Update: Annual Project Evaluation and Status Report
  - License Article 402 Annual flow monitoring report
  - License Article 409 Annual Lower Cowlitz River Side-Channel Maintenance and Use Plan
  - Gravel Augmentation Report

- Fish Habitat Fund Annual Progress Report
- Lower Cowlitz River Water Quality Monitoring Plan Annual Report
- License Article 501 Hydropower Compliance Management Program Annual Report (read only)
- Annual Report: Cowlitz River Hydroelectric Project, FERC No. 2016- Settlement Agreement License Articles 24 and 12 (read only)
- Large Woody Debris Plan –Monitoring Study Report (5 year interval)
- Attend and participate at Fish Technical Committee meetings, Cowlitz Restoration and Recovery meetings and Habitat Advisory Group meetings
- Participate in development and implementation of Fisheries and Hatchery Management Plan
- Participate in development and implementation of the long-term Gravel Augmentation Plan
- Monitor and evaluate the effectiveness of interim Gravel Augmentation Plan
- Coordinate with Ecology and WDFW on activities related to adaptive management, new plans, and License conditions.
- Provide WDFW information from License and associated amendments, Settlement Agreement, and plan(s)
- Coordination with Trout Unlimited, USFWS, NMFS, Lower Columbia Fish Recovery Board, Cowlitz Tribe, Bonneville Power Administration, Lewis County and Lewis County Public Utility District
- Attend Hydro-fee meeting and review project and participation with Tacoma representative
- Attend Annual Cowlitz Science Symposium
- Participate on site visits as needed
- Monitor minimum flow and ramping rates, adjust minimum flows in adverse conditions; verify flow data meets Articles 13, 14, 15, and 16 compliance.

**ACTIVITIES NOT FUNDED BY HYDRO-FEES:**

Fish Technical Committee representative, hatchery consultation and coordination, monitoring and evaluation, report review and comment, development of Fish Hatchery Management Plan and Hatchery Genetic Management Plan, technical review, legal consultation, general correspondence with applicant, engineering review and technical meeting representation. Approximately 668 hrs.

**Washington Department of Ecology**

**NARRATIVE DESCRIPTION OF EXPECTED WORKLOAD:**

- Implementation of FERC license and 401 Certification.
- Ecology will be involved in discussions to accommodate changes within the Project and scheduled construction activities.
- Provide technical assistance related to water quality compliance; Water Quality Protection Plans (WQPP) and possible tie to Construction Stormwater General Permits.

#### COMPLIANCE & LICENSE IMPLEMENTATION:

- License Implementation work
- Kosmos contaminated soil seep (Rainey Creek and Riffe Lake) capping and clean up will require cross Ecology Program coordination
- Development of gravel augmentation plan.

#### REVIEW, COMMENT, and APPROVALS:

- FERC License Reports: Articles 402, 409, 410, 417
- Monthly Fish Technical Committee meetings
- Check in meetings to discuss WQ Monitoring status, Tacoma Power must present all WQ Monitoring (except TDG) results and request cessation.
- Development of TDG Monitoring Plan (to include: Operational Spills and Storm Spills).
- WQPPs that may be submitted during 2020:
  - Newly discovered Toxics Cleanup Program site within Project boundary:
    - Kosmos Oil Seep Investigation and Capping
    - Kosmos Oil Seep Interim Monitoring
    - Kosmos Oil Seep Remediation
  - Gravel augmentation below barrier dam
  - Barrier Dam Repair and Remodel
  - Construction and maintenance of Debris Removal Infrastructure at Lake Scanewa
  - Taidnapam Park Boat Launch Repair and Maintenance
  - Taidnapam Park North Boat Launch Repair and Maintenance
  - Riffe Lake Debris Management
  - Gus Backstom Fish Release Site Repair and Maintenance
  - Blue Creek Dredging

#### ACTIVITIES (may require review and approval of WQPP or SWPPP; may also require Construction Stormwater General Permit(s)):

- Kosmos oil seep
- Gravel augmentation
- Barrier Dam Repair
- Debris removal management
- Fish release site repair and maintenance
- Blue Creek Dredging
- Other Habitat Restoration Projects?
- Site visits: 5-10/yr

#### COMMENTS:

Continued requirement to keep Riffe Lake 30' lower than full pool as a result of USGS seismic risk study of Mossyrock Dam. Lower capacity and the power market may result in increased spilling actions moving into the future. An updated TDG Monitoring Plan is being developed to address operational spill at both Mossyrock and Mayfield Dams.

A draft summary report for water quality monitoring (excluding TDG) and a recommendation to cease monitoring (excluding TDG) has been received and the final report is expected in early 2020.

Discovery of the Kosmos oil seep resulted in capping of the site. Investigations and remedial actions will likely continue through 2020 and beyond.

## BOX CANYON, P-2042

### Washington Department of Fish & Wildlife

#### NARRATIVE DESCRIPTION OF EXPECTED WORKLOAD:

Technical Committee: fish, erosion control wildlife.

#### COMPLIANCE & LICENSE IMPLEMENTATION:

- Technical Committee  
Meetings, Agency Policy Issues, Program Coordination, Caucus, Reports
- Fish Subcommittee  
Meetings & Preparation, Field Review, Agency Coordination, Reports  
Fish Passage DS, site inspection, Review Revised O&M Plan, Effectiveness Evaluation Plan.  
Trout Habitat Restoration Program, Winchester Creek Restoration Plan Review, Qualitative & Quantitative Monitoring Report Review
- Erosion Control Subcommittee  
(March 2019) Meetings & Preparation, Field Reviews, Program Coordination
- Wildlife Subcommittee  
Meetings & Preparation, Management Plan Review, Annual Site Visit

#### REVIEW, COMMENT, APPROVALS:

Annual plan review.

#### ACTIVITIES:

#### ACTIVITIES NOT FUNDED BY HYDRO-FEES:

Technical Review, Legal consultation, general correspondence with applicant, and engineering review.  
Approximately 120 hrs.

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### Washington Department of Ecology

#### NARRATIVE DESCRIPTION OF EXPECTED WORKLOAD:

- Implementation of FERC license and 401 Certification.
- Address any ongoing water quality issues such as amending or considering variances to monitoring or reporting requirements.

- Ecology will be involved in discussions to accommodate changes to the project and scheduled construction activities.
- Ecology will be involved along with other regulatory agencies in habitat mitigation projects on reservoir and tributaries of Pend Oreille River.
- Ecology will be involved in the fish ladder construction project.

COMPLIANCE & LICENSE IMPLEMENTATION:

- License Implementation work.

REVIEW, COMMENT, APPROVALS:

- Review and comment on any reports or plans on the upstream fish passage project.
- Review and comment on Annual TDG Report, Terrestrial Resources Compliance Report, aquatic plant management plan, shoreline management plan, water quality monitoring data reports, terrestrial resources reports/plans, tributary habitat restoration plans/reports, landowner stream bank restoration project fund requests, annual erosion control report, erosion control prevention & remediation plans, fish passage reports, drawdown and discharge reports, operational compliance reports, Weed & Treatment Report, any QAPP changes, DO monitoring reports, and JARPAs for projects related to Box Canyon Dam.

ACTIVITIES:

- Consultations with Washington Department of Fish and Wildlife , USFWS, National Forest Service and the Kalispell Tribe.
- Attend Fish Sub Committee meetings.
- Attend Integrated Aquatic Plant Management meetings and workshops.
- Attend Technical Committee workgroup meetings.
- Attend Wildlife Sub Committee meetings.
- Consultations with Washington Department of Fish and Wildlife , USFWS, National Forest Service and the Kalispell Tribe
- Site visits to Box Canyon, Pend Oreille River and tributaries for technical assistance and report verification

## YALE, P-2071

### Washington Department of Fish & Wildlife

#### NARRATIVE DESCRIPTION OF EXPECTED WORKLOAD:

- See P-935 Merwin.
- Licenses are implemented as one.

#### COMPLIANCE & LICENSE IMPLEMENTATION:

#### REVIEW, COMMENT, APPROVALS:

#### ACTIVITIES:

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### Washington Department of Ecology

#### NARRATIVE DESCRIPTION OF EXPECTED WORKLOAD:

- Implementation of FERC license and 401 Certification.
- Ecology to be involved in discussions to accommodate any major changes to Project features that may impact water quality including construction activities required by the Lewis River Settlement Agreement and FERC license for the project.
- Provide technical assistance related to water quality compliance; In-Water Work Protection Plans (IWWPPs) and possible tie to Construction Stormwater General Permits.

#### COMPLIANCE & LICENSE IMPLEMENTATION:

- Ensure water quality parameters are monitored as per the 401 Certificate.
- Review data: Temperature, DO, TDG (tailrace and turbine adjacent), and turbidity (construction activities)
- License Implementation work

#### REVIEW, COMMENT, and APPROVALS:

- Annual Aquatic Coordination Committee (ACC) Report: Aquatic Habitat, and Monitoring and Evaluation (including Water Quality) Reports
- Review and approve In-Water Work Protection Plans

ACTIVITIES (may require review and approval of WQ IWWPPs or SWPPP; may also require Construction Stormwater General Permit(s)):

- ACC meetings (2-3/year)
- Lewis Flow Coordination Committee meetings as needed
- Beaver Bay Campground Renovation (includes Beaver Bay Wetland)
- Yale Saddle Dam - Dam Safety Remediation

Site visits: 1-3/year



## SWIFT NO. 1, P-2111

### Washington Department of Fish & Wildlife

#### NARRATIVE DESCRIPTION OF EXPECTED WORKLOAD:

- See P-935 Merwin.
- Licenses are implemented as one.

#### COMPLIANCE & LICENSE IMPLEMENTATION:

#### REVIEW, COMMENT, APPROVALS:

#### ACTIVITIES:

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### Washington Department of Ecology

#### NARRATIVE DESCRIPTION OF EXPECTED WORKLOAD:

- Implementation of FERC license and 401 Certification.
- Ecology to be involved in discussions to accommodate any major changes to Project features that may impact water quality including construction activities required by the Lewis River Settlement Agreement and FERC license for the project.
- Provide technical assistance related to water quality compliance; In-Water Work Protection Plans and possible tie to Construction Stormwater General Permits.

#### COMPLIANCE & LICENSE IMPLEMENTATION:

- Ensure TDG is monitored according to and results are in alignment with the February 25, 2014, TDG Attainment Plan
- Review data: Temperature, DO, TDG (tailrace and turbine adjacent), and turbidity (construction activities)
- License Implementation work

#### REVIEW, COMMENT, and APPROVALS:

- Annual Aquatic Coordination Committee (ACC) Report: Aquatic Habitat, and Monitoring and Evaluation (including Water Quality) Reports

- Swift TDG Attainment Plan – reports of any exceedances
- Review and approve In-Water Work Protection Plans

ACTIVITIES (require review and approval of WQ In-Water Work Protection Plan (IWWPP) or SWPPP; may also require Construction Stormwater General Permit(s)):

- ACC meetings (2-3/year)
- Lewis Flow Coordination Committee meetings as needed
- Site visits: 1-3/year

## PRIEST RAPIDS - WANAPUM, P-2114

### Washington Department of Fish & Wildlife

#### NARRATIVE DESCRIPTION OF EXPECTED WORKLOAD:

Continued coordination of activities related to the implementation of the non ESA covered species in the Priest Rapids 401 Water Quality Certification by participating in the Priest Rapids Fish Forum.

Continued coordination of activities related to the Priest Rapids Wildlife Habitat Management Plan and implementation and development of wildlife habitat enhancement projects to address impacts of the 2014 Wanapum Dam Emergency Draw Down.

Continued participation in the Priest Rapids Coordinating Committee.  
Continued coordination of activities with Ecology.

#### COMPLIANCE & LICENSE IMPLEMENTATION:

Continued implementation of non ESA listed fish management plans/PRFF and act as the backup representative for WDFW on the listed fish species management plans/PRCC.

#### REVIEW, COMMENT, APPROVALS:

All PRFF and PRCC annual reports, Recreation Management Plan Reports, Terrestrial Management Plan Reports.

#### ACTIVITIES:

#### ACTIVITIES NOT FUNDED BY HYDRO-FEES:

Technical Review, Legal consultation, general correspondence with applicant, Priest Rapids Coordinating Committee (PRCC) and PRCC sub-committees representation. Approximately 556 hrs.

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### Washington Department of Ecology

#### NARRATIVE DESCRIPTION OF EXPECTED WORKLOAD:

Implementation of 401 Certification - As needed amendment and variance for monitoring and reporting requirements to accommodate changes to the project and upcoming construction activities.

#### COMPLIANCE & LICENSE IMPLEMENTATION:

License Implementation

#### REVIEW, COMMENT, APPROVALS:

- Total Dissolved Gas Abatement Plan
- Annual Fish-Spill Season and Total Dissolved Gas Monitoring Report
- 10-year TDG Compliance Report
- Aquatic Invasive Species Control & Prevention Plan
- Annual Water Quality Monitoring Report

ACTIVITIES: Technical assistance as needed

## BOUNDARY, P-2144

### Washington Department of Fish & Wildlife

#### NARRATIVE DESCRIPTION OF EXPECTED WORKLOAD:

Participation on the Resource Coordination Committee, Fish and Aquatics Work Group, Hatchery Technical Committee, Water Quality Committee, Terrestrial Resources Work Group, Sullivan Fund.

#### COMPLIANCE & LICENSE IMPLEMENTATION:

- Boundary Resources Coordination Committee- Meetings, Agency Policy Issues, Program Coordination, Caucus, Annual Report Review
- Fish & Aquatics Work Group - Meetings & Preparation, Field Review, Agency Coordination, Reports
  - Mainstem Aquatic Measures- Discussion on Gravel Augmentation, LWD at Tributary Deltas, Trapping Pools Monitoring, Fish Community Monitoring
  - Upstream Fish Passage- Discussion on Development of Fishway Development Plan
  - Entrainment Reduction- Discussion of study and monitoring results
  - Tributary Aquatic Habitat – Non-Native Suppression and Eradication, Flume Creek Fish Management Structure, Phase 1 Sullivan LWD Placement, Culvert Monitoring
  - Mill Pond Monitoring & Maintenance- Discussions Effectiveness Monitoring
  - Native Salmonid Conservation Program- Continued Coordination, Project Assistance
  - Recreational Fish Stocking Program- Review Annual Reports
  - Sullivan Lake Upper Tributary Fund- Planning Projects, Reviewing Activities Annually
- Water Quality Work Group- Meetings & Preparation, Annual Report Review Total Dissolved Gas Reduction, Temperature
- Terrestrial Resources Work Group- Meetings & Preparation, Annual Report Review, Riparian Management Plan, Terrestrial Adaptive Management, Field Visits, Protocols and Procedure Reviews
  - Land Acquisitions – Review and Approve Proposals
    - Habitat Management, Enhancement and Protection Program- Review and Approve Proposals for Wetland, Riparian and Upland Riparian Habitats for select habitat lands
    - Rare, Threatened and Endangered Plant Species Program- Review and Discuss Activities
  - Integrated Weed Management Program- Review and Discuss Activities
  - Wildlife Program- Review and Discuss Activities

#### REVIEW, COMMENT, APPROVALS:

Annual report review.

#### ACTIVITIES:

Project Field Reviews.

#### ACTIVITIES NOT FUNDED BY HYDRO-FEES:

Technical Review, legal consultation, general correspondence with applicant, and engineering review. Approximately 250 hrs.

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## Washington Department of Ecology

### NARRATIVE DESCRIPTION OF EXPECTED WORKLOAD:

- Implementation of FERC license and 401 Certification.
- Ecology will address any ongoing water quality issues such as amending or considering variances to monitoring or reporting requirements.
- Ecology will be involved in discussions to accommodate changes to the project and scheduled construction activities.
- Ecology will be involved along with other regulatory agencies in habitat mitigation projects on reservoir and tributaries of Pend Oreille River.
- Ecology will be involved in the hatchery project on Skookum Creek.

### COMPLIANCE & LICENSE IMPLEMENTATION:

- License Implementation work.

### REVIEW, COMMENT, APPROVALS:

- Review and comment on reports and plans for the fish hatchery project.
- Review and comment on habitat restoration plans, engineered log jam plans/reports, aquatic invasive species plans/reports, entrainment reduction plans/reports, and Mill Pond Dam reports/plans.
- Review and comment on annual TDG report, annual temperature measure implementation report, erosion control monitoring report, terrestrial resources compliance report, weed & treatment report, any necessary QAPP changes, and DO monitoring Reports.
- Review and comment on Water Pollution Control Plans and JARPAs for projects

### ACTIVITIES:

- Ecology will be involved with Consultations with Washington Department of Fish and Wildlife , USFWS, National Forest Service and the Kalispell Tribe.
- Ecology will be involved with Site visits for projects on the dam, reservoir, tributaries, fish hatchery, Mill Pond Dam such as habitat restoration, engineered logjams, or erosion control projects.
- Ecology will attend meetings of Hatchery subcommittee, FAWG, TDG workgroup, and the Water Quality workgroup.

## ROCKY REACH, P-2145

### Washington Department of Fish & Wildlife

#### NARRATIVE DESCRIPTION OF EXPECTED WORKLOAD:

Continued participation in the Rocky Reach Fish Forum.  
Continued coordination of activities related to the implementation of the Rocky Reach Settlement Agreement on non ESA covered species and ESA covered Bull Trout.  
Continued participation in the Rocky Reach and Wells HCP implementation.  
Continued participation in the implementation of the Rocky Reach Wildlife Management Plan.  
Continued participation in the implementation of the Rocky Reach Recreation Management Plan.  
Continued coordination of activities with Ecology.

#### COMPLIANCE & LICENSE IMPLEMENTATION:

Meetings, Agency Policy Issues, Program Coordination, Annual Report Review

#### REVIEW, COMMENT, APPROVALS:

All Rocky Reach Fish Forum and Habitat Conservation Plan annual reports, Recreation Management Plan Reports, Terrestrial Management Plan Reports.

#### ACTIVITIES:

#### ACTIVITIES NOT FUNDED BY HYDRO-FEES:

Technical Review, legal consultation, general correspondence with applicant, engineering review, representation on the Habitat Conservation Plan Coordinating Committee and sub-committees.  
Approximately 508 hrs.

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### Washington Department of Ecology

#### NARRATIVE DESCRIPTION OF EXPECTED WORKLOAD:

Implementation of 401 Certification - As needed amendment and variance for monitoring and reporting requirements to accommodate changes to the project and upcoming construction activities.

#### COMPLIANCE & LICENSE IMPLEMENTATION:

License Implementation

#### REVIEW, COMMENT, APPROVALS:

- Aquatic Invasive Species (AIS) Report
- Annual Water Quality Monitoring Report
- Operations Plan
- Gas Abatement Plan
- Total Dissolved Gas Annual Report
- Water Quality Projection Plan (as needed)

#### ACTIVITIES:

Technical assistance as needed  
Attend Rocky Reach Fish Forum meetings (RRFF) – Review/comment of documents submitted through the RRFF.

## ROCK ISLAND, P-943

### **Washington Department of Fish & Wildlife**

**NARRATIVE DESCRIPTION OF EXPECTED WORKLOAD:**

Coordinate communications with WDFW continue preparation for re-licensing.

**COMPLIANCE & LICENSE IMPLEMENTATION:**

**REVIEW, COMMENT, APPROVALS:**

**ACTIVITIES:**

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### **Washington Department of Ecology**

**NARRATIVE DESCRIPTION OF EXPECTED WORKLOAD:**

- Implementation of 401 Certification - As needed amendment and variance for monitoring and reporting requirements to accommodate changes to the project and upcoming construction activities.

**COMPLIANCE & LICENSE IMPLEMENTATION:**

License Implementation

**REVIEW, COMMENT, APPROVALS:**

- Gas Abatement Plan
- Total Dissolved Gas Annual Report
- Water Quality Protection Plans as needed

**ACTIVITIES:**

Technical assistance as needed

## WELLS DAM, P-2149

### Washington Department of Fish & Wildlife

#### NARRATIVE DESCRIPTION OF EXPECTED WORKLOAD:

Continued coordination of activities related to the implementation of the Wells Aquatic Settlement Agreement non ESA covered species management plans and ESA covered Bull Trout.  
Continued participation in the Wells and Rocky Reach Habitat Conservation Plan implementation.  
Continued participation in the implementation of the Wells Wildlife Management Plan.  
Continued participation in the implementation of the Wells Recreation Management Plan.  
Continued coordination of activities with Ecology.

#### COMPLIANCE & LICENSE IMPLEMENTATION:

Continued implementation of the Aquatic Settlement Agreement and Habitat Conservation Plan.  
Continued coordination on the Wells Wildlife Plan Implementation.

#### REVIEW, COMMENT, APPROVALS:

Aquatic Settlement Work Group annual reports, 401 water quality certification reports, Wildlife Plan Implementation Reports.

#### ACTIVITIES:

#### ACTIVITIES NOT FUNDED BY HYDRO-FEES:

Technical Review, legal consultation, general correspondence with applicant, engineering review, representation on the Habitat Conservation Plan Coordinating Committee and sub-committees.  
Approximately 390 hrs.

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### Washington Department of Ecology

#### NARRATIVE DESCRIPTION OF EXPECTED WORKLOAD:

Implementation of 401 Certification - As needed amendment and variance for monitoring and reporting requirements to accommodate changes to the project and upcoming construction activities.

#### COMPLIANCE & LICENSE IMPLEMENTATION:

License Implementation

#### REVIEW, COMMENT, APPROVALS:

- Total Dissolved Gas Abatement Plan Annual Report (2018)
- Total Dissolved Gas Abatement Plan (2019)
- Aquatic Settlement Agreement Action Plan
- Aquatic Settlement Agreement Annual Report (2018)
- Aquatic Nuisance Species Management Plan Annual Report
- Water Quality Management Plan Annual Report
- Water Temperature Annual Report

#### ACTIVITIES:

Technical assistance as needed



## HENRY M JACKSON (SULTAN), P-2157

### Washington Department of Fish & Wildlife

#### NARRATIVE DESCRIPTION OF EXPECTED WORKLOAD:

Consult through e-mail, phone calls, and quarterly Aquatic Resource Committee Meetings. Review and comment on amendment to annual plans and annual reports associated with project, which includes usually two site visits a year for aquatic and terrestrial resource considerations.

#### COMPLIANCE & LICENSE IMPLEMENTATION:

#### REVIEW, COMMENT, APPROVALS:

Review and comment on Water Quality Annual Report.

Review and comment on Operation Compliance Monitoring Plan Annual Report.

Review of Water Temperature Conditioning Plan Annual Temperature Data and Reach 3 Flow Schedule.

Review and Comment on Fish Habitat Monitoring Plan Annual Report.

Review and Comment on Fish Habitat Enhancement Plan Annual Report.

Review and approve Fish Habitat and Enhancement Projects and land acquisitions.

#### ACTIVITIES:

#### ACTIVITIES NOT FUNDED BY HYDRO-FEES:

District Fish and Wildlife Biologists will continue to consult, offer technical expertise, and act as a WDFW alternate at their respective resource groups. WDFW engineers will review restoration project and Baker construction. District Fish Biologist will coordinate with Baker Hatchery. Wildlife Program will continue to consult and attend meetings that concern elk management. Habitat Project Approvals for construction and habitat restoration projects. Approximately 56 hrs.

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### Washington Department of Ecology

#### NARRATIVE DESCRIPTION OF EXPECTED WORKLOAD:

Implementation of 401 Certification - New license began in September 2011. As needed amendment and variance for monitoring and reporting requirements to accommodate changes to the project

#### COMPLIANCE & LICENSE IMPLEMENTATION:

License Implementation

#### REVIEW, COMMENT, APPROVALS:

- Review and comments on Water Quality Management Annual Report
- Review and comments on Operation Compliance Monitoring Plan Annual Report
- Review of Water Temperature Conditioning Plan Annual temperature data
- Review and comments on A-LA 9 technical consultation and review of Reach 3 instream flow schedule
- Review and comments on Fisheries and Habitat Monitoring Plan Annual Report
- Review and comments on Marsh Creek Slide Modification Effectiveness Report
- Review and comment on Whitewater Recreation Plan scheduled events dates

ACTIVITIES:

- Multiple Aquatic Resource Committee (ARC) meetings
- Review and comments on Water Quality Management Annual Report
- Operation Compliance Monitoring Plan Annual report – review and comment
- Modifications to WQ monitoring – as needed
- Respond to non-compliance events, ERTS complaints - as needed
- Development and review of Administrative Orders – as needed
- Respond to public information requests- as needed

## SWIFT NO. 2, P-2213

### Washington Department of Fish & Wildlife

#### NARRATIVE DESCRIPTION OF EXPECTED WORKLOAD:

- Act as Swift No. 2 designated licensing and implementation lead
- Attend Committee and Subcommittee meetings
- Report and plan review and comment
- Monitor compliance with License, Settlement Agreement and plan(s)
- Coordination with Ecology and WDFW
- Provide technical support

#### COMPLIANCE & LICENSE IMPLEMENTATION:

- Attend and participate at monthly Aquatic Coordination Committee, and Terrestrial Coordination Committee meetings
- Attend and participate at the annual Lewis Recreation Committee meeting
- Review License, Settlement Agreement, plans and FERC e-library for implementation conditions
- Provide Ecology fish technical information

#### REVIEW, COMMENT, APPROVALS:

- Meeting notes/materials
- Annual reports and plans
- Materials associated with Future Fish Passage In Lieu Decision process and the implementation of selected outcome
- Aquatic Fund proposals
- Devil's Backbone Timber Management Plan

#### ACTIVITIES:

- Provide Cowlitz Public Utility District technical support
- Annual Reports
  - Lewis River Hydroelectric Projects - Annual Report Annual Summary of License Implementation and Compliance: Aquatic and Terrestrial Resources
  - Wildlife Habitat Management Plan Annual Progress Report for Operation Phase (year)
  - Lewis River Bull Trout (*Salvelinus confluentus*) Annual Operations Plan North Fork Lewis River
  - Yale Reservoir Kokanee (*Oncorhynchus nerka*) Escapement Report
  - Annual Report Lewis River Aquatic Fund Projects
  - New Information Regarding Fish Transport into Lake Merwin and Yale Lake (Read only)
- Annual Plans

- Wildlife Habitat Management Plan Annual Plan For The Swift No. 2 Wildlife Management Area
- Lewis River Bull Trout (*Salvelinus confluentus*) Annual Operations Plan North Fork Lewis River
- Review Future Fish Passage In Lieu Decision process materials and participate on the implementation of selected outcome
- Review and evaluate Aquatic Fund proposals
- Attend and participate at Aquatic Coordination Committee, Terrestrial Coordination Committee and Lewis Recreation Committee meeting meetings
- Participate in development and implementation of Devil’s Backbone Timber Management Plan
- Coordinate with Ecology and WDFW on activities related to adaptive management, new plans, and License conditions.
- Provide WDFW information from License and associated amendments, Settlement Agreement, and plan(s)
- Coordination with USFWS, NMFS, Lower Columbia Fish Recovery Board, and Cowlitz Tribe
- Attend Hydro-fee meeting and review project and participation with the Cowlitz Public Utility District representative
- Participate on site visits as needed

**ACTIVITIES NOT FUNDED BY HYDRO-FEES:**

Aquatic Coordination Committee representative and alternate, hatchery consultation and coordination, monitoring and evaluation, report review and comment, technical review, legal consultation, general correspondence with applicant, and meeting representation. Approximately 96 hrs.

**Washington Department of Ecology**

**NARRATIVE DESCRIPTION OF EXPECTED WORKLOAD:**

- Implementation of FERC license and 401 Certification.
- Ecology will be involved in discussions to accommodate changes within the Project and scheduled construction activities.
- Provide technical assistance related to water quality compliance; In-Water Work Protection Plans and possible tie to Construction Stormwater General Permits.

**COMPLIANCE & LICENSE IMPLEMENTATION:**

- License Implementation work

**REVIEW, COMMENT, and APPROVALS:**

- Reports: Lewis River 2019 Annual Summary of License Implementation and Compliance
- Plans: Cowlitz PUD Wildlife Habitat Management Plan: 2020 (Year 12) Annual Plan

ACTIVITIES: Site visit as needed.

## SULLIVAN CREEK (SULLIVAN LAKE STORAGE), P-2225

### Washington Department of Fish & Wildlife

#### NARRATIVE DESCRIPTION OF EXPECTED WORKLOAD:

Mill Pond Dam Removal-  
Meetings, Agency Policy Issues, Program Coordination, Caucus, Plan & Field Review.

#### COMPLIANCE & LICENSE IMPLEMENTATION:

- Mill Pond Dam Removal-  
Meetings, Agency Policy Issues, Program Coordination, Caucus, Plan & Field Review

#### REVIEW, COMMENT, APPROVALS:

- Sullivan Lake Operations Monitoring -  
Review Annual Monitoring Report

#### ACTIVITIES:

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### Washington Department of Ecology

#### NARRATIVE DESCRIPTION OF EXPECTED WORKLOAD:

- Implementation of FERC license.

#### COMPLIANCE & LICENSE IMPLEMENTATION:

#### REVIEW, COMMENT, APPROVALS:

- Review and comment on any Water Quality Protection Plans, JARPAs, sediment management plans, or habitat restoration plans.

#### ACTIVITIES:

- Field or site visits with Seattle City Light staff, tribes, and other resource agency staff.
- Meetings on changes proposed for monitoring, observe construction impacts, maintenance or mitigation projects sites.

## PACKWOOD LAKE, P-2244

### Washington Department of Fish & Wildlife

#### NARRATIVE DESCRIPTION OF EXPECTED WORKLOAD:

- Act as Packwood Lake designated licensing and implementation lead
- Attend Committee and Subcommittee meetings
- Report and plan review and comment
- Monitor compliance with License, Terms and Conditions, and plan(s)
- Coordination with Ecology and WDFW
- Provide technical support

#### COMPLIANCE & LICENSE IMPLEMENTATION:

- Attend and participate at Resource Coordination meeting(s)
- Attend and participate at Packwood Advisory Committee meetings
- Review License, Biological Opinion, Terms and Conditions, plans and FERC elibrary for implementation conditions
- Provide Ecology fish technical information

#### REVIEW, COMMENT, APPROVALS:

- Meeting notes/materials
- Annual Reports
- Draft plans
- Implementation material supplemental to plans

#### ACTIVITIES:

- Provide Energy Northwest technical support
- Annual Reports
  - Resource Coordination Final Annual Report
    - daily lake levels
    - daily instream flow
    - aquatic habitat forming flow
    - Amphibian monitoring results
    - adult rainbow trout population supplementation and monitoring efforts
  - Packwood Lake Intake Fish Entrainment Monitoring Annual monitoring reports
  - Threatened, Endangered (Federal listed) and USDA Forest Service Regional Forester Special Status Species Management and Rare Plant Management annual report
  - Packwood Lake Tributary Headcutting Monitoring annual reporting
- Participate in development and implementation draft plan(s) (plans and topics identified in License and Terms and Conditions)

- Resource Coordination Plan
- Rolling 3-Year Annual Report/Work Plan
- Water quality protection plan
- Integrated Weed Management Plan.
- Lower Lake Creek Stream Restoration, Enhancement and Monitoring Plan - stream restoration and enhancement plan
- Snyder Creek Restoration, Enhancement and Monitoring Plan - stream restoration and enhancement plan
- Fish passage on Snyder Creek
- Threatened, Endangered (Federal listed) and USDA Forest Service Regional Forester Special Status Species Management Plan
- Fall-run Chinook monitoring plan
- Tailrace Fish Barrier Facility Maintenance Plan
- Packwood Lake Tributary Headcutting Monitoring program
- Pipeline, Surge Tank and Penstock Monitoring Plan
- Read and implement Finalized plans
  - Avian Protection Plan
  - Packwood Lake intake fish entrainment monitoring plan
  - Rare Plant Management Plan
  - Tailrace Water Temperature Monitoring and Enhancement Plan
  - Recreation Management Plan
- Energy Northwest planned activities
  - Reach 5 Trout Surveys and wood, gravel habitat surveys – April 2019
  - Stream Gage installation & monitoring begins – March 2019
  - Tailrace Temperature Monitoring – Installation – June 2019
  - “Site B” Amphibian Monitoring – Oct. 2019
- Attend and participate at the Resource Coordination two day meeting and Packwood Advisory Committee meetings
- Coordinate with Ecology and WDFW on decision-making requests and activities related to plans, and License conditions.
- Provide WDFW information from License, Biological Opinion, Terms and Conditions, and plan(s)
- Coordination with USFS, USFWS, NMFS, Lower Columbia Fish Recovery Board, tribe(s), Bonneville Power Administration, Lewis County and Lewis County Public Utility District
- Attend Hydro-fee meeting and review project and participation with Energy Northwest representative
- Participate on site visits as needed

**ACTIVITIES NOT FUNDED BY HYDRO-FEES:**

Technical review, legal consultation, general correspondence with applicant, and engineering review.  
Approximately 32 hrs.



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## Washington Department of Ecology

### NARRATIVE DESCRIPTION OF EXPECTED WORKLOAD:

- Implementation of FERC license and 401 Certification.
- Ecology will be involved in discussions to accommodate changes within the Project and scheduled construction activities (none currently scheduled for 2020).
- Provide technical assistance related to water quality compliance; Water Quality Protection Plans and possible tie to Construction Stormwater General Permits.

### COMPLIANCE & LICENSE IMPLEMENTATION:

License Implementation work

### REVIEW, COMMENT, and APPROVALS:

- Water Quality Protection Plans for in- and near-water work, review and approve
- Annual Report/Work Plan
- Habitat Restoration Plans
- Water Quality Attainment Plan

### ACTIVITIES:

- Annual Resource Agency Coordination meeting (2-day meeting March 2020); bi-monthly conference calls
- Habitat Restoration Subcommittee meetings and conference calls
- Assist with application submittal, routing, approval
- Construction Stormwater General Permits (CSGP)
- Provide available technical data and expertise as needed to assist in achieving the Plan's resource management objectives
- Lower Lake Creek Restoration, Enhancement, and Monitoring plan
- Site visits: 3-5/yr

## SNOQUALMIE FALLS, P-2493

### Washington Department of Fish & Wildlife

#### NARRATIVE DESCRIPTION OF EXPECTED WORKLOAD:

Review plans and consult with licensee. Review and consult with licensee and Department of Ecology on implementation of the 401 certification. Consultation on environmental impacts from projects and operations, particularly fish screens, flows, and ramping rates.

#### COMPLIANCE & LICENSE IMPLEMENTATION:

401 water certification implementation

#### REVIEW, COMMENT, APPROVALS:

Fish flow and screen problems, changes in ramping rates, and instream flows.

#### ACTIVITIES:

Act as fish expertise for implementation of 401 certification.

#### ACTIVITIES NOT FUNDED BY HYDRO-FEES:

Technical Review, Legal consultation, and general correspondence with applicant. Approximately 4 hrs.

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### Washington Department of Ecology

#### NARRATIVE DESCRIPTION OF EXPECTED WORKLOAD:

Implementation of 401 Certification - As needed amendment to accommodate changes to the project and possible construction activities.

#### COMPLIANCE & LICENSE IMPLEMENTATION:

License Implementation

#### REVIEW, COMMENT, APPROVALS:

- Review and comment on annual water quality report
- Review and comment on TDG monitoring program
- Review and comment on ramp rate study
- Review and comments on modifications to WQ monitoring requests – as needed
- Review and comments on WQ deviation/violation – as needed
- Development and review of Administrative orders – as needed

#### ACTIVITIES:

- Ad hoc meetings and consultation to address project-related issues as they come up.
- Modifications to WQ monitoring plan – as needed
- Respond to non-compliance events, ERTS complaints - as needed
- Administrative orders – as needed
- Respond to public information request- as needed

## MEYERS FALLS, P-2544

### Washington Department of Fish & Wildlife

#### NARRATIVE DESCRIPTION OF EXPECTED WORKLOAD:

Preparation for meetings.

#### COMPLIANCE & LICENSE IMPLEMENTATION:

Technical assistance Aquatic and Terrestrial management plan.

#### REVIEW, COMMENT, APPROVALS:

Review Annual Monitoring Report.

#### ACTIVITIES:

Site visit

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### Washington Department of Ecology

#### NARRATIVE DESCRIPTION OF EXPECTED WORKLOAD:

- Project starting re-licensing with FERC. License expires in December 2023.
- Develop Water Quality 401 Certification for re-licensing.

#### COMPLIANCE & LICENSE IMPLEMENTATION:

- Review implementation documents
- Field inspections and meetings with operators.

#### REVIEW, COMMENT, APPROVALS:

#### ACTIVITIES:

- Attend Pre-Application meetings and consultations to address project related issues as they occur.
- Go on site reviews or field studies for sampling & monitoring.
- Meet and correspond with other jurisdictional agencies as needed.
- Develop new 401 certification for re-licensing.

## SPOKANE RIVER, P-2545

### Washington Department of Fish & Wildlife

#### NARRATIVE DESCRIPTION OF EXPECTED WORKLOAD:

Participation in technical work group meetings.

#### COMPLIANCE & LICENSE IMPLEMENTATION:

- Spokane River Land Use Management Plan- Review periodic plan updates, modifications and supplements. Attend annual terrestrial weed meeting, review and discuss treatment measures.
- Spokane River and Post Falls Hydroelectric Developments Recreation Plan- Review periodic plan updates, modifications and supplements.
- Lake Spokane and Nine Mile Reservoir Aquatic weed Management Program- Attend annual meeting, coordinate with cooperating agencies, review and discuss monitoring reports.
- Nine Mile and Long Lake Reservoirs Sediment Management Plan- Consult with Avista as appropriate, to determine if there are opportunities to improve habitat related to sediment removal or relocation necessary for project operations at recreation access improvements.
- Lake Spokane Fishery Enhancement and Creel Survey Plan- Participate as necessary to ensure success of project.
- Upper Spokane River Rainbow Trout Spawning and Fry Emergence Protection Plan- Review periodic plan updates and annual reports.
- Upper falls and Nine Mile Reservoir Rainbow Trout Stocking Annual Report- Consult with Avista and DFW Fish Program Staff on future stocking.
- Spokane River Wild Rainbow Trout Public Education and Outreach Plan- Continue to work with Avista to develop and maintain signs, bulletin boards and brochures as they pertain to wild rainbow trout.
- Bald Eagle Management Plan- Participate in annual meeting with Avista, FWS and IDFG to discuss results of previous seasons monitoring results. Use and adaptive approach to make adjustments to monitoring efforts as necessary as agreed to by Avista, FWS and IDFG.
- Transmission Line Management Plan- Review and discuss annual report on inspections for raptors and other avian species, for vegetation, as well as remedial actions completed under the TLMP.
- Lake Spokane Dissolved Oxygen Water Quality Attainment Plan – Attend meetings and continue to work with Avista and DFW Fish Program Staff on Avista’s annual nutrient monitoring and carp removal activities in Lake Spokane.

#### REVIEW, COMMENT, APPROVALS:

Annual reports.

#### ACTIVITIES:

Site visit.

#### ACTIVITIES NOT FUNDED BY HYDRO-FEES:

Technical Review, Legal consultation, general correspondence with applicant, and engineering review.  
Approximately 50 hrs.

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**Washington Department of Ecology**

No information provided.

## NEWHALEM CREEK, P-2705

### **Washington Department of Fish & Wildlife**

#### NARRATIVE DESCRIPTION OF EXPECTED WORKLOAD:

Will review and consult on repairs, new projects, and staff questions.

#### COMPLIANCE & LICENSE IMPLEMENTATION:

#### REVIEW, COMMENT, APPROVALS:

#### ACTIVITIES:

Communicate with the project manager.

#### ACTIVITIES NOT FUNDED BY HYDRO-FEES:

Area Habitat Biologist will reviews minor construction projects or changes to fish screens or passage structure. District Fish Biologist will provide technical expertise about fish population and habitat. Approximately 30 hrs.

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### **Washington Department of Ecology**

No information provided.

## COWLITZ FALLS, P-2833

### Washington Department of Fish & Wildlife

#### NARRATIVE DESCRIPTION OF EXPECTED WORKLOAD:

- Act as Cowlitz Falls designated licensing and implementation lead
- Attend and participate on field visits and meetings
- Plan review and comment
- Monitor compliance with License, 1986 Fish and Wildlife Agreement and Mitigation Plan, and plan(s)
- Coordination with Ecology and WDFW
- Provide technical support

#### COMPLIANCE & LICENSE IMPLEMENTATION:

- Attend and participate on Wildlife Management Unit activities and field visits
- Monitor instream flow, aquatic management (Biological Opinion studies), debris management, and sediment management
- Attend and participate at the Whitewater access site meetings
- Review License, 1986 Fish and Wildlife Agreement and Mitigation Plan, plans and FERC e-library for implementation conditions
- Provide Ecology fish technical information

#### REVIEW, COMMENT, APPROVALS:

- Reports
- Whitewater access site plan
- FERC Directives

#### ACTIVITIES:

- Provide Lewis County Public Utility District technical support
- Reports
  - Maintenance Drawdown Sediment Monitoring and Fish Rescue
  - Monitoring during temporary modification of minimum flow
  - Reports associated with the BiOp Reasonable and Prudent Measures, and Terms and Conditions
  - Weed Management Report
  - Whitewater access site FERC Order reporting
- Attend and participate on the annual field tour (in lieu of reporting), make management recommendations for Wildlife Mitigation Lands to implement mitigation Plan

- Read Lewis County Public Utility District’s journal of activities in the wildlife lands to prepare for field tour
- Participate in development and implementation of Whitewater access site plan
- Provide WDFW information from License and associated amendments, 1986 Fish and Wildlife Agreement and Mitigation Plan, Biological Opinion and plan(s)
- Monitor trout stocking incorporating ESA and WDFW stocking policy
- Coordination with USFWS, NMFS, USFWS, Lower Columbia Fish Recovery Board, Cowlitz Tribe, Bonneville Power Administration, and Lewis County
- Coordinate with Tacoma Power’s Fish Technical Committee as needed (adjusting minimum instream flow)
- Attend Hydro-fee meeting and review project and participation with Lewis County Public Utility District representative
- Attend Annual Cowlitz Science Symposium

ACTIVITEIS NOT FUNDED BY HYDRO-FEES:

Technical review, legal consultation, and general correspondence with applicant. Approximately 12 hrs.

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## Washington Department of Ecology

### NARRATIVE DESCRIPTION OF EXPECTED WORKLOAD:

- Implementation of FERC license and 401 Certification.
- Ecology will be involved in discussions to accommodate changes within the Project and scheduled construction activities.
- Provide technical assistance related to water quality compliance; water quality protection plans related to in- and near-water work and possible tie to Construction Stormwater General Permits.

### COMPLIANCE & LICENSE IMPLEMENTATION:

- License implementation work
- 1984 WQC Condition 5.: Sediment management plan needed to understand how project can best manage sediment to prevent or minimize exceedances of WQ Standards
- 2015 reservoir drawdown moved +2 million cubic yards of sediment into three mile stretch of Cowlitz River while Riffe Lake (Cowlitz River Project P-2016) was drawn down
- Dam compliance schedule (Agreed Order) for monitoring TDG (new opening in dam) and sediment management and turbidity concerns with drawdowns of reservoir and activities.

### REVIEW, COMMENT, and APPROVALS:

- Agreed Order required reports
- TDG Monitoring Plan
- Turbidity and sediment management monitoring and reporting plans



ACTIVITIES (may require plans that describe turbidity and sediment management monitoring and reporting; may also require Construction Stormwater General Permit(s)):

- Site visits: 3-6 visits (drawdown of reservoir, compliance with WQC)
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## MAIN CANAL HEADWORKS, P-2849

### **Washington Department of Fish & Wildlife**

NARRATIVE DESCRIPTION OF EXPECTED WORKLOAD:

Coordinate communications with WDFW and Settlement Agreement Implementation.

COMPLIANCE & LICENSE IMPLEMENTATION:

Settlement Agreement Implmentation

REVIEW, COMMENT, APPROVALS:

ACTIVITIES:

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### **Washington Department of Ecology**

NARRATIVE DESCRIPTION OF EXPECTED WORKLOAD:

- No Ecology activity in recent years, Ecology involvement as needed.

COMPLIANCE & LICENSE IMPLEMENTATION:

REVIEW, COMMENT, APPROVALS:

ACTIVITIES:

## TOLT RIVER – SOUTH FORK, P-2959

### Washington Department of Fish & Wildlife

#### NARRATIVE DESCRIPTION OF EXPECTED WORKLOAD:

- Act as South Fork Tolt River designated licensing and implementation lead
- Attend Committee and Subcommittee meetings
- Report and plan review and comment
- Monitor compliance with License, Settlement Agreement and plan(s)
- Coordination with Ecology and WDFW
- Provide technical support

#### COMPLIANCE & LICENSE IMPLEMENTATION:

- Attend and participate at Tolt Fisheries Advisory Committee (TFAC) meetings
- Attend and participate at subcommittee meetings (flow/temperature modeling)
- Review License, Settlement Agreement, plans and FERC e-library for implementation conditions
- Provide Ecology fish technical information

#### REVIEW, COMMENT, APPROVALS:

- Meeting notes/materials
- Study plans and reports
- Annual Reports

#### ACTIVITIES:

- Provide Seattle City Light and Seattle Public Utilities technical support
- Annual Reports
  - South Fork Tolt River Semi-Annual Compliance Report Seattle City Light and Seattle Public Utilities
  - Scour and other studies
- Attend and participate at Tolt Fisheries Advisory Committee (TFAC) and subcommittee meetings (flow/temperature modeling)
- Monitor instream flow, ramping rates, temperature, reservoir refill, and scour
- Participate in development and implementation of Large woody debris projects
- Coordinate with Ecology and WDFW on activities related to adaptive management, new plans, and License conditions.
- Provide WDFW information from License and associated amendments, Settlement Agreement, and plan(s)
- Coordination with NMFS, USFWS, and Tulalip Tribe
- Attend Hydro-fee meeting and review project and participation with Seattle City Light and Seattle Public Utilities representative

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**Washington Department of Ecology**

No information provided.

## TIETON DAM, P-3701

### **Washington Department of Fish & Wildlife**

**NARRATIVE DESCRIPTION OF EXPECTED WORKLOAD:**

Attend and actively participate in meetings and coordinate communications with WDFW.

**COMPLIANCE & LICENSE IMPLEMENTATION:**

Continued implementation of Dissolved Oxygen monitoring.

**REVIEW, COMMENT, APPROVALS:**

Dissolved Oxygen Annual Report and develop entrainment study.

**ACTIVITIES:**

Site visit, annual meeting, report reviews and technical assistance.

**ACTIVITIES NOT FUNDED BY HYDRO-FEES:**

Area Habitat Biologist will review under RCW and Fish Passage and Screening Biologist will reviews any minor changes to fish exclusion racks. Approximately 8 hrs.

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### **Washington Department of Ecology**

**NARRATIVE DESCRIPTION OF EXPECTED WORKLOAD:**

**COMPLIANCE & LICENSE IMPLEMENTATION:**

Continued implementation of Dissolved Oxygen monitoring.

**REVIEW, COMMENT, APPROVALS:**

Dissolved Oxygen Annual Report.

**ACTIVITIES:**

Annual meeting, report reviews and technical assistance.

## CUSHMAN, P-460

### Washington Department of Fish & Wildlife

#### NARRATIVE DESCRIPTION OF EXPECTED WORKLOAD:

- Act as Cushman designated licensing and implementation lead
- Attend Committee and Subcommittee meetings
- Report and plan review and comment
- Monitor compliance with License, Settlement Agreement and plan(s)
- Coordination with Ecology and WDFW
- Provide technical support

#### COMPLIANCE & LICENSE IMPLEMENTATION:

- Attend and participate at Fish and Habitat Committee meetings
- Review License, Settlement Agreement, plans and FERC elibrary for implementation conditions
- Provide Ecology fish technical information

#### REVIEW, COMMENT, APPROVALS:

- Meeting notes/materials
- Decision Documents
- Hatchery Genetics Management Plan
- Annual Reports

#### ACTIVITIES:

- Provide Tacoma technical support
- Annual Reports
  - License Article 406 Operations Monitoring and Compliance Annual Report
  - License Article 407 Flow Report [Annual water budget release schedule]
  - License Article 410 Water Quality Enhancement And Monitoring Plan Annual Water Year Report
  - Fish Habitat Enhancement and Restoration Annual Report
  - Fish Habitat and Monitoring Annual Report
  - License Article 414 Downstream Fish Passage Plan Annual Report
  - License Article 415 and 416 Upstream Fish Passage Annual Report
  - License Article 417 Fish Supplementation Program Annual Report
  - License Article 418 Tailrace Monitoring Study
  - License Article 421 Wildlife Habitat Enhancement Plan Annual Report
  - License Article 423 Threatened and Endangered Species Protection Plan Annual Report
- Attend and participate at Fish and Habitat Committee meetings
- Attend Cushman annual public meeting
- Attend WDFW and Tacoma hatchery coordination meetings
- Participate in development of Hatchery Genetic Management Plan(s)

- Provide recommendations and approve the annual water budget release schedule, adapt as necessary
- Provide recommendations on proposed habitat enhancement and restoration projects
- Coordinate with Ecology and WDFW on activities related to decision-making, adaptive management, new plans, and License conditions.
- Provide WDFW information from License and associated amendments, Settlement Agreement, and plan(s)
- Coordination with USFWS, NMFS, USFS, USNP, BIA, and Skokomish Tribe
- Attend Hydro-fee meeting and review project and participation with Tacoma representative
- Participate on site visits as needed

**ACTIVITIES NOT FUNDED BY HYDRO-FEES:**

Hatchery consultation and coordination, monitoring and evaluation, report review and comment, technical review, legal consultation, general correspondence with applicant, and meeting representation. Approximately 164 hrs.

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**Washington Department of Ecology**

**NARRATIVE DESCRIPTION OF EXPECTED WORKLOAD:**

- Implementation of FERC license and 401 Certification.
- Ecology will be involved in discussions to accommodate changes within the Project and scheduled construction activities.
- Provide technical assistance related to water quality compliance; Water Quality Protection Plans (WQPP) and possible tie to Construction Stormwater General Permits.

**COMPLIANCE & LICENSE IMPLEMENTATION:**

License Implementation work

**REVIEW, COMMENT, and APPROVALS:**

- FERC License Reports: Articles 406, 407, 410, 413, 415/416, 417; Water Rights
- Water Quality Protection Plans (WQPP)

**ACTIVITIES (may require review and approval of WQPP or SWPPP; may also require Construction Stormwater General Permit(s)):**

- Site visits: 3-5/yr

**SKAGIT RIVER HYDROELECTRIC PROJECT, P-553**

**Washington Department of Fish & Wildlife**

**NARRATIVE DESCRIPTION OF EXPECTED WORKLOAD:**

Staff will work on four licensing groups that will meet once a month. Will spend substantial amount of time in a collaborative study plan development. During the pre-licensing, will work on implementation of the current FERC license, which includes review and consultation on land acquisitions, restoration projects, research studies, and management of mitigation lands and flows in the river. Will attend monthly meetings for the implementation of the existing license.

**COMPLIANCE & LICENSE IMPLEMENTATION:**

**REVIEW, COMMENT, APPROVALS:**

Study Plans for preliminary license application document. Approximately five contracts associated with current license, land acquisitions, management of mitigation lands, review flows for spawning and incubation, and research for various salmonids.

**ACTIVITIES:**

Attend four different licensing group meetings monthly to develop study plans. Continue the implementation of the current license.

**ACTIVITIES NOT FUNDED BY HYDRO-FEES:**

WDFW personnel will provide technical expertise and consultation for the creation of the collaborative study plans and the implementation of the current license. Biologist and WDFW management staff will attend licensing meetings and internal meetings. WDFW staff will provide technical consultation. Approximately 871 hrs.

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**Washington Department of Ecology**

No information provided.

## DIABLO, P-554

### Washington Department of Fish & Wildlife

**NARRATIVE DESCRIPTION OF EXPECTED WORKLOAD:**

Please see Skagit River Hydroelectric Projects P-553

**COMPLIANCE & LICENSE IMPLEMENTATION:**

**REVIEW, COMMENT, APPROVALS:**

**ACTIVITIES:**

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### Washington Department of Ecology

**NARRATIVE DESCRIPTION OF EXPECTED WORKLOAD:**

Seattle City Light is planning to file the Notice of Intent/PAD to FERC in 2019. Ecology waived its right to issue a 401 certification during last license cycle. Ecology does not intend to waive its right to issue 401 certification during upcoming license cycle.

During 2018, on multiple occasions, Ecology met with the stakeholders and the Seattle City Lights to discuss 401 certification development and FERC license issuance. SCL is proposing to form a steering committee with members from different agencies. The purpose of the steering committee is to develop guidelines for the study plans. Ecology plans on being part of steering committee.

**COMPLIANCE & LICENSE IMPLEMENTATION:**

Pre-license renewal stage

**REVIEW, COMMENT, APPROVALS:**

- Review of existing water quality monitoring data
- Review and compile Ecology's study plan requests

**ACTIVITIES:**

- Attend multiple steering committee meetings and meetings associated with the development of steering committee
- Define functions of steering committee and various other committees for various Ecology programs.
- As Ecology's primary contact, coordinate formation of various technical committees and define roles and responsibilities for various Ecology staffs
- Develop guidelines for the study plan for Ecology
- Multiple pre-license renewal consultation meetings with the tribes and other stakeholders
- Multiple pre-license renewal consultation meetings with the Federal and State agencies.
- Respond to non-compliance events, ERTS complaints - as needed
- Respond to public information request- as needed
- Ad hoc meetings and consultation to address project-related issues as they come up



## ROSS, P-555

### Washington Department of Fish & Wildlife

**NARRATIVE DESCRIPTION OF EXPECTED WORKLOAD:**

Please see Skagit River Hydroelectric Projects P-553

**COMPLIANCE & LICENSE IMPLEMENTATION:**

**REVIEW, COMMENT, APPROVALS:**

**ACTIVITIES:**

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### Washington Department of Ecology

**NARRATIVE DESCRIPTION OF EXPECTED WORKLOAD:**

Seattle City Light is planning to file the Notice of Intent/PAD to FERC in 2019. Ecology waived its right to issue a 401 certification during last license cycle. Ecology does not intend to waive its right to issue 401 certification during upcoming license cycle.

During 2018, on multiple occasions, Ecology met with the stakeholders and the Seattle City Lights to discuss 401 certification development and FERC license issuance. SCL is proposing to form a steering committee with members from different agencies. The purpose of the steering committee is to develop guidelines for the study plans. Ecology plans on being part of steering committee.

**COMPLIANCE & LICENSE IMPLEMENTATION:**

Pre-license renewal stage

**REVIEW, COMMENT, APPROVALS:**

- Review of existing water quality monitoring data
- Review and compile Ecology's study plan requests

**ACTIVITIES:**

- Attend multiple steering committee meetings and meetings associated with the development of steering committee
- Define functions of steering committee and various other committees for various Ecology programs.
- As Ecology's primary contact, coordinate formation of various technical committees and define roles and responsibilities for various Ecology staffs
- Develop guidelines for the study plan for Ecology
- Multiple pre-license renewal consultation meetings with the tribes and other stakeholders
- Multiple pre-license renewal consultation meetings with the Federal and State agencies.
- Respond to non-compliance events, ERTS complaints - as needed
- Respond to public information request- as needed
- Ad hoc meetings and consultation to address project-related issues as they come up

## LAKE CHELAN PROJECT, P-637

### **Washington Department of Fish & Wildlife**

#### NARRATIVE DESCRIPTION OF EXPECTED WORKLOAD:

Coordinate communications, review plans and consult with WDFW, Ecology and Chelan PUD. Work on Settlement Implementation. Tributary Kokanee Escapement, Kokanee Stocking Monitoring and Evaluation and Lake Chelan Tributary Estimates of Cutthroat and Rainbow, and Entrainment studies will be the largest discussion topics in the Lake Chelan Fishery Forum. Salmonid survival, Entrainment, M&E and Riparian Enhancement will be the largest discussions topics in the Chelan River Fishery Forum

#### COMPLIANCE & LICENSE IMPLEMENTATION:

Staff will continue to be WDFW lead on implementation of the FERC license for the Fish, Wildlife, and Recreation measures. FERC license Article implementation and corresponding forum meetings to provide WDFW technical expertise and consultation. Continued coordination on the Lake Chelan Wildlife Plan implementation.

#### REVIEW, COMMENT, APPROVALS:

Attend Lake Chelan and Chelan River Fish and Wildlife Forums. Provide technical review of annual reports and riparian feasibility in the upper reaches of the Chelan River. Continue to provide technical assistance to improve fish habitat in the upper reaches of the Chelan River Work on riparian enhancement and entrainment plan development. Chelan River Operations Monitoring, Lake Chelan tributary M&E, Chelan River Riparian Management Recommendations, entrainment discussions, ramping rate evaluation and Annual Meetings and Report Review

#### ACTIVITIES:

#### ACTIVITIES NOT FUNDED BY HYDRO-FEES:

Area Habitat Biologist will review projects under RCW, District Fish Biologist will provide technical expertise about fish population and habitat. District Wildlife Biologist will provide technical expertise related to wildlife habitat restoration. Approximately 68 hrs.

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### **Washington Department of Ecology**

#### NARRATIVE DESCRIPTION OF EXPECTED WORKLOAD:

Implementation of 401 Certification - As needed amendment and variance for monitoring and reporting requirements to accommodate changes to the project and upcoming construction activities.

COMPLIANCE & LICENSE IMPLEMENTATION:

License Implementation

REVIEW, COMMENT, APPROVALS:

- Operations Compliance Monitoring
- Annual Flow/Temperature Report
- Biological Objectives Status Report (BOSR)
- Water Quality Protection Plan (as needed)

ACTIVITIES:

- Attend CRFF and LCFF meetings/review materials regarding BOSR
- Participation, review, and discussion regarding next steps as identified in Section IV. Habitat Modifications and Biological Evaluation, H. H. Compliance with Biological Objectives and State Water Quality Standards.
- Other activities as needed.

## WYNOOCHEE, P-6842

### Washington Department of Fish & Wildlife

#### NARRATIVE DESCRIPTION OF EXPECTED WORKLOAD:

- Act as Wynoochee Dam designated licensing and implementation lead
- Attend Committee meetings
- Report and plan review and comment
- Monitor compliance with License, and plan(s)
- Coordination with Ecology and WDFW
- Provide technical support

#### COMPLIANCE & LICENSE IMPLEMENTATION:

- Attend and participate at Technical Committee meetings as needed
- Attend and participate on instream flow coordination conference calls
- Attend Section 1135 fund meetings as needed
- Review License, Memorandum(s) of Agreement, plans and FERC elibrary for implementation conditions
- Provide Ecology fish technical information

#### REVIEW, COMMENT, APPROVALS:

- Meeting notes/materials
- Decision Documents
- Section 1135 fund materials
- Annual Reports

#### ACTIVITIES:

- Provide Tacoma technical support
- Annual Reports
  - Wynoochee River Project, FERC No. 6842 FERC License Article 419 (L) Section 1135 Fish Restoration Project Trust Fund
  - Article 419 Annual Natural Resources Report
- Attend and participate Technical Committee meetings and instream flow coordination conference calls as needed
- Assist Hatchery Division with Section 1135 funds as needed, monitor progress
- Coordinate with Ecology and WDFW on activities related to adaptive management, new plans, and License conditions.
- Provide WDFW information from License and associated amendments, Memorandum(s) of Agreement, and plan(s)
- Coordination with USFWS, NMFS, and Quinault Tribe

- Attend Hydro-fee meeting and review project and participation with Tacoma representative
- Participate on site visits as needed
- Monitor temperature, reservoir elevation and outflow. Provide recommendations during drought years to adjust minimum flows when conditions cannot be met
- Monitor smolt passage and operations, flow and ramping rates, fish trap operation, recreation and elk mitigation

**ACTIVITIES NOT FUNDED BY HYDRO-FEES:**

Hatchery consultation and coordination (section 1135 funding), technical review, legal consultation, general correspondence with applicant, and engineering review. Approximately 48 hrs.

**Washington Department of Ecology**

**NARRATIVE DESCRIPTION OF EXPECTED WORKLOAD:**

- Implementation of FERC license and 401 Certification.
- Ecology will be involved in discussions to accommodate changes within the Project and scheduled construction activities.
- Provide technical assistance related to water quality compliance; Water Quality Protection Plans (WQPP) and possible tie to Construction Stormwater General Permits.

**COMPLIANCE & LICENSE IMPLEMENTATION:**

- Continue working on development of a Water Quality Monitoring Plan for the Project
- License implementation work

**REVIEW, COMMENT, and APPROVALS:**

- Water Quality Monitoring Plan
- Water Quality Protection Plan (WQPP) for:
  - Coho campground boat launch repair and maintenance / bank stabilization

**ACTIVITIES (may require review and approval of WQPP or SWPPP; may also require Construction Stormwater General Permit(s)):**

- Summer warm water conditions = weekly conference calls RE: Temperature and Instream flows, as needed
- Coho Campground Boat Launch Repair and Maintenance / Bank Stabilization
- Maintenance of fish release location
- Notification of maintenance actions with current WQPPs (or \*not requiring them):
  - Fish release site maintenance
- Site visit: 2-3/year



## TRINITY, P-719

### **Washington Department of Fish & Wildlife**

**NARRATIVE DESCRIPTION OF EXPECTED WORKLOAD:**

Implementation of the Tailrace Relocation Plan Summer of 2019.

**COMPLIANCE & LICENSE IMPLEMENTATION:**

Tailrace Relocation Plan/401 Water Quality Plan

**REVIEW, COMMENT, APPROVALS:**

**ACTIVITIES:**

attend at least one site visit

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### **Washington Department of Ecology**

No information provided.

## SPRING CREEK, P-7214

### **Washington Department of Fish & Wildlife**

No information provided.

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### **Washington Department of Ecology**

No information provided.



## COWICHE, P-7337

### **Washington Department of Fish & Wildlife**

No information provided.

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### **Washington Department of Ecology**

No information provided.

## ORCHARD AVENUE, P-7338

### **Washington Department of Fish & Wildlife**

No information provided.

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### **Washington Department of Ecology**

No information provided.

## MERWIN, P-935

### Washington Department of Fish & Wildlife

#### NARRATIVE DESCRIPTION OF EXPECTED WORKLOAD:

- Act as Lewis River designated licensing and implementation lead
- Attend Committee and Subcommittee meetings
- Report and plan review and comment
- Monitor compliance with License, Settlement Agreement and plan(s)
- Coordination with Ecology and WDFW
- Provide technical support

#### COMPLIANCE & LICENSE IMPLEMENTATION:

- Attend and participate at monthly Aquatic Coordination Committee meetings
- Attend and participate at monthly Terrestrial Coordination Committee meetings
- Attend and participate at the annual Lewis Recreation Committee meeting
- Participate on the Low Flow Coordination Committee conference calls as needed
- Review licenses, Settlement Agreement, plans and FERC e-library for implementation conditions
- Provide Ecology fish technical information
- Assist with the ADA bank fishing site

#### REVIEW, COMMENT, APPROVALS:

- Meeting notes/materials
- Future Fish Passage In Lieu Decision process materials
- Aquatic Fund proposals
- Annual Reports

#### ACTIVITIES:

- Provide PacifiCorp technical support
- Annual Reports
  - Lewis River Hydroelectric Projects Annual Report - Annual Summary of License Implementation and Compliance: Aquatic and Terrestrial Resources
  - Wildlife Habitat Management Plan Annual Progress Report for Operation Phase
  - New Information Regarding Fish Transport into Lake Merwin and Yale Lake
  - Lewis River Bull Trout (*Salvelinus confluentus*) Annual Operations Plan North Fork Lewis River
  - Hatchery and Supplementation Program Annual Report
  - Lewis River Fish Passage Program Annual Report
  - Yale Reservoir Kokanee (*Oncorhynchus nerka*) Escapement Report

- Annual Report Lewis River Aquatic Fund Projects
- Annual Plans
  - Lewis River Bull Trout (*Salvelinus confluentus*) Annual Operations Plan North Fork Lewis River
  - Lewis River Wildlife Habitat Management Plan Annual Plan
  - Hatchery and Supplementation Program
  - Rolling 5-Year Recreation Action Plan Calendar Year
- Attend and participate at Aquatic Coordination Committee, Terrestrial Coordination Committee, Lewis Recreation Committee, and Low Flow Coordination Committee meetings
- Review materials associated with Future Fish Passage In Lieu Decision process and participate on the implementation of the selected outcome
- Review and evaluate Aquatic Fund proposals, provide funding recommendations
- Participate with the update of the Aquatic Fund evaluation protocols
- Provide recommendations for wildlife habitat mitigation land management activities
- Monitor and recommend implementation of the recreation measures
- Coordinate with Ecology and WDFW on activities related to adaptive management, new plans, and License conditions.
- Provide WDFW information from License and associated amendments, Settlement Agreement, and plan(s)
- Coordinate with USFWS, NMFS, USFS, Lower Columbia Fish Recovery Board, Cowlitz Tribe, Cowlitz County Public Utility District, and Rocky Mountain Elk Foundation
- Attend Hydro-fee meeting and review project and participation with PacifiCorp representative
- Participate on site visits

ACTIVITIES NOT FUNDED BY HYDRO-FEES:

Aquatic Coordination Committee representative and alternate, hatchery consultation and coordination, monitoring and evaluation, report review and comment, technical review, legal consultation, general correspondence with applicant, and representation in meetings. Approximately 294 hrs.

New Information Regarding Fish Transport into Lake Merwin and Yale Lake June 24, 2016  
Annual Plans

- Lewis River Bull Trout (*Salvelinus confluentus*) Annual Operations Plan North Fork Lewis River – (year)
  - Lewis River Wildlife Habitat Management Plan (year) Annual Plan
  - Wildlife Habitat Management Plan (year) (Year #) Annual Plan For The Swift No. 2 Wildlife Management Area
- Rolling 5-Year Recreation Action Plan Calendar Year (year)

ACTIVITIES:

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## **Washington Department of Ecology**

### **NARRATIVE DESCRIPTION OF EXPECTED WORKLOAD:**

- Implementation of FERC license and 401 Certification.
- Ecology will be involved in discussions to accommodate changes within the Project and scheduled construction activities.
- Provide technical assistance related to water quality compliance; In-Water Work Protection Plans and possible tie to Construction Stormwater General Permits.

### **COMPLIANCE & LICENSE IMPLEMENTATION:**

- Ensure TDG exceedances are monitored and are in alignment with the Attainment Plan
- Collect/review data: Temperature, DO, TDG (tailrace and turbine adjacent) , and turbidity (construction activities)
- License Implementation work

### **REVIEW, COMMENT, and APPROVALS:**

- Reports: Annual Habitat and Monitoring and Evaluation Reports
- Ensure TDG and temperature exceedances are monitored and are in alignment with the Attainment Plan (TDG and temperature)
- Notification on TDG exceedances during spill events
- Review and approve In-Water Work Protection Plans (IWWPPs)
- Potential: Summer/Fall – warm water conditions; weekly conference calls related to instream flow

ACTIVITIES (may require review and approval of IWWPP or SWPPP; may also require Construction Stormwater General Permit(s)):

- ACC meetings (2-3/year)
- Lewis Flow Coordination Committee meetings as needed
- Cedar Creek Boat Ramp Repair

- ADA fishing access
- Site visits: 1-3/year
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## HYDROBATTERY PEARL HILL PUMP STORAGE, P-14795

### **Washington Department of Fish & Wildlife**

#### NARRATIVE DESCRIPTION OF EXPECTED WORKLOAD:

Continued FERC licence development, Coordination with Ecology on the 401 Water Quality Certification, and Terrestrial/Aquatic Settlement Agreements

#### COMPLIANCE & LICENSE IMPLEMENTATION:

#### REVIEW, COMMENT, APPROVALS:

Final FERC license application and Ready for Environmental Assessment/NEPA documents

#### ACTIVITIES:

Several negotiations will likely be need to establish Settlement Agreements.

#### ACTIVITIES NOT FUNDED BY HYDRO-FEES:

Technical Review, legal consultation, general correspondence with applicant, and fish screen engineering review. Approximately 28 hrs.

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### **Washington Department of Ecology**

#### NARRATIVE DESCRIPTION OF EXPECTED WORKLOAD:

401 Water Quality Development

#### COMPLIANCE & LICENSE IMPLEMENTATION:

#### REVIEW, COMMENT, APPROVALS:

Environmental Assessment/NEPA documents

ACTIVITIES:

## PINTO DAM, P-14380

### **Washington Department of Fish & Wildlife**

**NARRATIVE DESCRIPTION OF EXPECTED WORKLOAD:**

Coordinate communications with WDFW and applicant.

**COMPLIANCE & LICENSE IMPLEMENTATION:**

**REVIEW, COMMENT, APPROVALS:**

**ACTIVITIES NOT FUNDED BY HYDRO-FEES:**

District Fish Biologist will provide technical expertise about fish population. Approximately 4 hrs.

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### **Washington Department of Ecology**

No information provided.



## BANKS LAKE PUMP STORAGE, P-14329

### Washington Department of Fish & Wildlife

#### NARRATIVE DESCRIPTION OF EXPECTED WORKLOAD:

Continued FERC licence development, coordination with Ecology on the 401 Water Quality Certification, and Terrestrial/Aquatic Settlement Agreements

#### COMPLIANCE & LICENSE IMPLEMENTATION:

#### REVIEW, COMMENT, APPROVALS:

Pre-license application documents

#### ACTIVITIES:

#### ACTIVITIES NOT FUNDED BY HYDRO-FEES:

Technical Review, legal consultation, general correspondence with applicant, and fish screen engineering review. Approximately 26 hrs.

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### Washington Department of Ecology

#### NARRATIVE DESCRIPTION OF EXPECTED WORKLOAD:

- License application process is ongoing;
- Project environmental assessment: Ecology comment development will require a significant amount of time to coordinate both internally and externally.
- Coordination and consultation with WDFW, USFWS, tribal entities, and federal agencies.
- Initial development/consultation with WDFW on the 401 certification.
- Consultation meetings with Columbia Basin Hydropower to improve project design to protect water quality, fish and wildlife resources on the Lake Roosevelt and Banks Lake portions of the project.

#### COMPLIANCE & LICENSE IMPLEMENTATION:

Pre-License

#### REVIEW, COMMENT, APPROVALS:

Review and comment on:

- Early 2019 Columbia Basin Hydropower (CBHP) to finish modeling efforts;
- January 2019 Columbia Basin Hydropower to develop draft study plans for studies;
- March 2019 Study Plan meeting for project;
- April and May 2019 - Final study plans completed and initiation of studies;
- Ecology will review and comment on: study plans, monitoring plans & environmental assessments related to water quality, baseline studies for Banks Lake, Lake Roosevelt and Crescent Bay, including temperature, toxic contaminant transport, turbidity, & dissolved oxygen.
- Also review sediment and limnology studies.

ACTIVITIES:

- Attend Pre-Application meetings and consultations to address project related issues as they occur.
- Go on site reviews or field studies for sampling & monitoring.
- Meet and correspond with other jurisdictional agencies as needed.

## UPRIVER – CITY OF SPOKANE, P-3074

### Washington Department of Fish & Wildlife

No information provided.

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### Washington Department of Ecology

#### NARRATIVE DESCRIPTION OF EXPECTED WORKLOAD:

- Implementation of FERC license - No 401 Certification.
- Address any ongoing water quality issues such as amending or considering variances to monitoring or reporting requirements.
- Ecology involvement in discussions to accommodate changes to the project operations and scheduled construction activities.
- Ecology involvement along with other regulatory agencies in habitat mitigation projects on reservoir.

#### COMPLIANCE & LICENSE IMPLEMENTATION:

- License Implementation.

#### REVIEW, COMMENT, APPROVALS:

- Review and comment on sediment management plans, mitigation plans, stormwater control plans, water quality monitoring reports, nutrient monitoring reports, stormwater management plans and reports, JARPAs, and flow variances requests.

#### ACTIVITIES:

- Field or site visits to observe construction impacts, inspect maintenance or mitigation project sites.

Meetings with City staff, tribes or other agencies to discuss changes proposed for operations or monitoring.

## AVISTA – UPPER FALLS, P-2545

### Washington Department of Fish & Wildlife

No information provided.

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### Washington Department of Ecology

#### NARRATIVE DESCRIPTION OF EXPECTED WORKLOAD:

- Implementation of FERC license and 401 Certification.
- Address any ongoing water quality issues such as amending or considering variances to monitoring or reporting requirements.
- Ecology involvement in discussions to accommodate changes to the project and scheduled construction/maintenance activities.
- Ecology involvement along with other regulatory agencies in habitat mitigation projects on reservoir and tributaries of the Spokane River, as appropriate.

#### COMPLIANCE & LICENSE IMPLEMENTATION:

- License Implementation

#### REVIEW, COMMENT, APPROVALS:

- Review and comment on mitigation plans, stormwater control plans, water quality protection plans, JARPAs, and flow/drawdown variance requests.

#### ACTIVITIES:

- Field or site visits to observe construction impacts, inspect maintenance or mitigation project sites.

Meetings with Avista personnel, tribes or other agencies to discuss changes proposed for operations or monitoring.

## AVISTA – LONG LAKE, P-2545

### Washington Department of Fish & Wildlife

No information provided.

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### Washington Department of Ecology

#### NARRATIVE DESCRIPTION OF EXPECTED WORKLOAD:

- Implementation of FERC license and 401 Certification.
- Address any ongoing water quality issues such as amending or considering variances to monitoring or reporting requirements.
- Ecology involvement in discussions to accommodate changes to the project and scheduled construction activities.
- Ecology involvement along with other regulatory agencies in habitat mitigation projects on reservoir and tributaries of the Spokane River, as appropriate.

#### COMPLIANCE & LICENSE IMPLEMENTATION:

- License implementation work.

#### REVIEW, COMMENT, APPROVALS:

- Review and comment on sediment management plans, mitigation plans, stormwater control plans, water quality protection plans, dissolved oxygen (DO), total dissolved gas (TDG), and temperature water quality attainment plans/annual reports, aquatic weed management plans/annual reports, JARPAs, and flow/drawdown variance requests.
- Ecology also will review and comment on habitat assessments for rainbow trout and carp removal efforts in Lake Spokane.
- Begin discussions related to compliance with numeric and narrative components of water quality standards, specific to DO, TDG and temperature (ex. Site Specific Criteria).

#### ACTIVITIES:

- Field or site visits to observe construction impacts, inspect maintenance or mitigation project sites.
- Meetings with Avista personnel, tribes or other agencies to discuss changes proposed for monitoring, construction and maintenance projects, and mitigation measures, as appropriate.

## AVISTA – MONROE STREET, P-2545

### Washington Department of Fish & Wildlife

No information provided.

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### Washington Department of Ecology

#### NARRATIVE DESCRIPTION OF EXPECTED WORKLOAD:

- Implementation of FERC license and 401 Certification.
- Address any ongoing water quality issues such as amending or considering variances to monitoring or reporting requirements.
- Ecology involvement in discussions to accommodate changes to the project and scheduled construction/maintenance activities.
- Ecology involvement along with other regulatory agencies in habitat mitigation projects on reservoir and tributaries of the Spokane River, as appropriate.

#### COMPLIANCE & LICENSE IMPLEMENTATION:

- License implementation work.

#### REVIEW, COMMENT, APPROVALS:

- Review and comment on rock relocation and removal plans, stormwater control plans, water quality protection plans, and flow variance requests.

#### ACTIVITIES:

- Field or site visits to observe construction impacts, inspect maintenance or mitigation project sites.

Meetings with Avista personnel, tribes or other agencies to discuss changes proposed for operations or monitoring.

## AVISTA – NINE MILE DAM, P-2545

### Washington Department of Fish & Wildlife

No information provided.

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### Washington Department of Ecology

#### NARRATIVE DESCRIPTION OF EXPECTED WORKLOAD:

- Implementation of FERC license and 401 Certification.
- Address any ongoing water quality issues such as amending or considering variances to monitoring or reporting requirements.
- Ecology involvement in discussions to accommodate changes to the project and scheduled construction activities.
- Ecology involvement along with other regulatory agencies in habitat mitigation projects on reservoir and tributaries of the Spokane River, as appropriate.

#### COMPLIANCE & LICENSE IMPLEMENTATION:

- License implementation work.

#### REVIEW, COMMENT, APPROVALS:

- Review and comment on sediment management plans, mitigation plans, stormwater control plans, water quality protection plans, aquatic weed management plans/annual reports, JARPA's, and flow/drawdown variance requests.

#### ACTIVITIES:

- Field or site visits to observe construction impacts, inspect maintenance or mitigation project sites.

Meetings with Avista personnel, tribes or other agencies to discuss changes proposed for operations or monitoring.

## BAKER, P-2150

### Washington Department of Fish & Wildlife

#### NARRATIVE DESCRIPTION OF EXPECTED WORKLOAD:

Continue collaboration in terrestrial, aquatic, recreation, and aquatic habitat restoration and acquisition resources groups with associated quarterly meetings and frequent smaller technical meetings. Will attend Co-Managers meetings associated with Baker River Project and consult with Licensee constantly over management and land acquisitions.

#### COMPLIANCE & LICENSE IMPLEMENTATION:

#### REVIEW, COMMENT, APPROVALS:

Baker Hatchery Renovation Phase II, Many Annual Reports associated with each license article, WDFW approval of Elk Forage lands acquisitions, Approval of Aquatic Habitat Restoration and Acquisition Projects.

#### ACTIVITIES:

#### ACTIVITIES NOT FUNDED BY HYDRO-FEES:

District Fish and Wildlife Biologists will continue to consult, offer technical expertise, and act as a WDFW alternate at their respective resource groups. WDFW engineers will review restoration project and Baker construction. District Fish Biologist will coordinate with Baker Hatchery. Wildlife Program will continue to consult and attend meetings that concern elk management. Approximately 904 hrs.

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### Washington Department of Ecology

#### NARRATIVE DESCRIPTION OF EXPECTED WORKLOAD:

Lower Baker hydroelectric project is leaking through dam/foundation as well as through geologic features within bedrock. PSE is planning to repair the leaking structure with a grout curtain. Anticipated duration for this project is up to 30 months. It will generate 150-300 gpm of high turbidity, high pH process water during construction phase.

Seepage mitigation project – Amendment to the 401 certification and/or development of an individual NPDES permit to address construction

Implementation of 401 Certification - As needed amendment and/or short term modification for monitoring and reporting requirements to accommodate changes to the project and upcoming construction activities.

#### COMPLIANCE & LICENSE IMPLEMENTATION:

License Implementation



#### REVIEW, COMMENT, APPROVALS:

- Review and provide technical assistance for 401 amendment and/or NPDES permit application
- Review, comment and approval of the the Engineering Report for process water treatment system
- Review of monthly discharge monitoring reports (DMR) during construction phase
- Review and comment on Stormwater Pollution Prevention Plan (SWPPP)
- Review and comment on Water Quality Protection Plan (WQPP)
- Review and comment on Annual Water Quality Report
- Review and comment on total dissolved gases monitoring results
- Review and comments on modifications to WQ monitoring requests – as needed
- Review and comments on WQ deviation/violation – as needed
- Development and review of Administrative orders – as needed

#### ACTIVITIES:

- Multiple technical review and consultation meetings with PSE to address permitting issues associated with the seepage mitigation project
- Development of an individual NPDES permit or State Waste Discharge permit
- Site inspections to determine compliance with 401 WQ certification and NPDES permit during construction
- Coordination with HQ, regional WQ and WR staff and WDFW to address construction
- Multiple ARG and BRCC meetings.
- Ad hoc meetings and consultation to address project-related issues as they come up
- Respond to non-compliance events, ERTS complaints during construction - as needed
- Respond to public information request- as needed

## CALLIGAN CREEK, P-8864

### Washington Department of Fish & Wildlife

No information provided.

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### Washington Department of Ecology

#### NARRATIVE DESCRIPTION OF EXPECTED WORKLOAD:

Implementation of 401 Certification – Construction completed, commenced operations in February 2018.

#### COMPLIANCE & LICENSE IMPLEMENTATION:

License Implementation

#### REVIEW, COMMENT, APPROVALS:

- Review and comments on Water Quality Monitoring Plan (WQMP) Annual Report
- Review and comments on Trout Monitoring Plan Annual Report
- Review and comments on modifications to WQ monitoring requests – as needed
- Review and comments on WQ deviation/violation – as needed
- Development and review of Administrative orders – as needed

#### ACTIVITIES:

- Ad hoc meetings and consultation to address project-related issues as they come up
- Site visit – as needed
- Amendment and variance for monitoring and reporting requirements – as needed
- Respond to non-compliance events, ERTS complaints - as needed
- Respond to public information request- as needed

## GORGE, P-553

### Washington Department of Fish & Wildlife

No information provided.

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### Washington Department of Ecology

#### NARRATIVE DESCRIPTION OF EXPECTED WORKLOAD:

Seattle City Light is planning to file the Notice of Intent/PAD to FERC in 2019. Ecology waived its right to issue a 401 certification during last license cycle. Ecology does not intend to waive its right to issue 401 certification during upcoming license cycle.

During 2018, on multiple occasions, Ecology met with the stakeholders and the Seattle City Lights to discuss 401 certification development and FERC license issuance. SCL is proposing to form a steering committee with members from different agencies. The purpose of the steering committee is to develop guidelines for the study plans. Ecology plans on being part of steering committee.

#### COMPLIANCE & LICENSE IMPLEMENTATION:

Pre-license renewal stage

#### REVIEW, COMMENT, APPROVALS:

- Review of existing water quality monitoring data
- Review, develop and coordinate Ecology's study plan requests
- Review historical WQ data on bypass reach

#### ACTIVITIES:

- Attend multiple steering committee meetings and meetings associated with the development of steering committee
- Define functions of steering committee and various other committees for various Ecology programs.
- As Ecology's primary contact, coordinate formation of various technical committees and define roles and responsibilities for various Ecology staffs
- Develop guidelines for the study plan for Ecology
- Research historical WQ data on bypass reach
- Multiple pre-license renewal consultation meetings with the tribes and other stakeholders
- Multiple pre-license renewal consultation meetings with the Federal and State agencies.
- Respond to non-compliance events, ERTS complaints - as needed
- Respond to public information request- as needed
- Ad hoc meetings and consultation to address project-related issues as they come up

## HANCOCK, P-13994

### Washington Department of Fish & Wildlife

No information provided.

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### Washington Department of Ecology

#### NARRATIVE DESCRIPTION OF EXPECTED WORKLOAD:

Implementation of 401 Certification – Construction completed, commenced operations in February 2018.

#### COMPLIANCE & LICENSE IMPLEMENTATION:

License Implementation

#### REVIEW, COMMENT, APPROVALS:

- Review and comments on Water Quality Monitoring Plan (WQMP) Annual Report
- Review and comments on Trout Monitoring Plan Annual Report
- Review and comments on modifications to WQ monitoring requests – as needed
- Review and comments on WQ deviation/violation – as needed
- Development and review of Administrative orders – as needed

#### ACTIVITIES:

- Ad hoc meetings and consultation to address project-related issues as they come up
- Site visit – as needed
- Amendment and variance for monitoring and reporting requirements – as needed
- Respond to non-compliance events, ERTS complaints - as needed
- Respond to public information request- as needed

## TWIN FALLS, P-4885

### **Washington Department of Fish & Wildlife**

No information provided.

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### **Washington Department of Ecology**

#### NARRATIVE DESCRIPTION OF EXPECTED WORKLOAD:

Implementation of 401 Certification

#### COMPLIANCE & LICENSE IMPLEMENTATION:

License Implementation

#### REVIEW, COMMENT, APPROVALS:

- Review and comments on modifications to WQ monitoring requests – as needed
- Review and respond to WQ compliance violations – as needed
- Development and review of Administrative orders – as needed

#### ACTIVITIES:

- Ad hoc meetings and consultation to address project-related issues as they come up
- Respond to non-compliance events, ERTS complaints - as needed
- Respond to public information request- as needed

## MORSE CREEK, P-6461

### **Washington Department of Fish & Wildlife**

#### NARRATIVE DESCRIPTION OF EXPECTED WORKLOAD:

The City of Port Angeles is in the process of surrendering their license

- Monitor for FERC notices and respond as needed

#### COMPLIANCE & LICENSE IMPLEMENTATION:

#### REVIEW, COMMENT, APPROVALS:

#### ACTIVITIES:

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### **Washington Department of Ecology**

COMPLIANCE & LICENSE IMPLEMENTATION: Not operating hydroelectric turbines at this time.

#### COMMENTS:

Potential relinquish FERC License and decommission turbine and pump house.

SITE VISIT: As needed.

## NISQUALLY RIVER, P-1862

### Washington Department of Fish & Wildlife

#### NARRATIVE DESCRIPTION OF EXPECTED WORKLOAD:

- Act as Nisqually River designated licensing and implementation lead
- Attend Committee and Subcommittee meetings
- Report and plan review and comment
- Monitor compliance with License, Settlement Agreement and plan(s)
- Participate on annual wildlife land field tour
- Coordination with Ecology and WDFW
- Provide technical support

#### COMPLIANCE & LICENSE IMPLEMENTATION:

- Attend Nisqually River Coordinating Committee meetings
- Participate on Nisqually River Coordinating Committee conference calls – flow management
- Attend Gravel Subcommittee meetings
- Review License, Settlement Agreement, plans and FERC e-library for implementation conditions
- Provide Ecology fish technical information

#### REVIEW, COMMENT, APPROVALS:

- Meeting notes/materials
- Decision Documents
- Gravel Plan
- Tailrace Plan
- License Amendment
- Annual Reports

#### ACTIVITIES:

- Provide Tacoma technical support
- Annual Reports
  - License Article 410 Annual Natural Resources Report
  - Alder Lake Kokanee Stocking and Fish Passage Assessment Report License Articles 413 and 415
  - License Article 416 Report Monitoring Fish Passage in the LaGrande Bypass Reach
  - License Article 417 LaGrande Powerhouse Tailrace Attraction Study
  - Combined License Article 418 & 419 Nisqually River Gravel Report
  - License Article 423 Annual Wildlife Management Report
- Coordinate with Ecology and WDFW on activities related to adaptive management, new plans, and License conditions.

- Provide WDFW information from License and associated amendments, Settlement Agreement, and plan(s)
- Coordination with Nisqually Tribe, City of Centralia, USFWS and NMFS
- Attend Hydro-fee meeting and review project and participation with Tacoma representative
- Participate on Annual wildlife land field tour, provide adaptive management input for wildlife land management operations (mowing schedule, etc.)
- Participate on site visits for gravel augmentation and any others as needed
- Review and comment on the License amendment for articles 416 (not encouraging fish use in the bypass reach and 419 (gravel augmentation in bypass reach)
- Evaluate remaining tailrace study needs

**ACTIVITEIS NOT FUNDED BY HYDRO-FEES:**

Technical Review, Legal consultation, general correspondence with applicant, engineering review and technical meeting representation. Approximately 248 hrs

**Washington Department of Ecology**

**NARRATIVE DESCRIPTION OF EXPECTED WORKLOAD:**

- Implementation of FERC license and 401 Certification.
- Ecology will address any ongoing water quality issues related to monitoring and/or reporting requirements.

**COMPLIANCE & LICENSE IMPLEMENTATION:**

License Implementation work

**REVIEW, COMMENT, and APPROVALS:**

- FERC License Reports: Articles 416, 418, and 419
- Gravel Augmentation Plan review

**ACTIVITIES (require review and approval of WQPP and/or SWPPP; may also require Construction Stormwater General Permit(s)):**

- Nisqually River Coordinating Committee meetings as needed (approximately six meetings per year)
- As needed: Summer-Fall weekly meetings related to: Low flow/warm temperature, minimum flow
- Participate in Gravel Augmentation Sub-Committee meetings
- SITE VISIT: As needed (1-3/yr)



## WOODS CREEK, P-3602

### **Washington Department of Fish & Wildlife**

No information provided.

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### **Washington Department of Ecology**

#### NARRATIVE DESCRIPTION OF EXPECTED WORKLOAD:

Implementation of 401 Certification – Project has licensing exemption from 1982. As needed amendment and variance/short term exception for weir or dredging.

#### COMPLIANCE & LICENSE IMPLEMENTATION:

#### REVIEW, COMMENT, APPROVALS:

- Review and comments on WQ deviation/violation – as needed
- Development and review of Administrative orders – as needed

#### ACTIVITIES:

As needed