

DOCKET No. AD04-4-000, NOTICE REQUESTING APPLICATION FOR PANEL  
MEMBER LIST FOR HYDROPOWER LICENSING STUDY DISPUTE  
RESOLUTION

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References:

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PacifiCorp  
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Portland, OR 97232  
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Ms. Pam Klatt  
Meridian Environmental, Inc.  
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Mr. Mark LaRiviere  
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PO Box 11007  
Tacoma, WA 98411-0007  
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## **KEVIN M. MALONE**

### **1. Aquatic Resource Experience**

Mr. Malone has over 20 years of experience working on fisheries issues in the Pacific Northwest and California. He has worked for both public (NMFS, Washington Department of Fish and Wildlife, Grant County PUD) and private (HTI, Harza Engineering, Mobrand Biometrics) organizations involved in fish restoration and protection.

Mr. Malone has a M.S. in Biology from Central Washington University. His coursework included classes in fisheries science, microbiology, aquaculture, genetic and statistics.

Mr. Malone has considerable experience in developing biological studies dealing with juvenile and adult survival, habitat quality and quantity, fish population structure and abundance, fish passage, instream flows and ESA issues. Based on this experience, he would like to be considered for the sub-areas of instream flows, fish passage, threatened and endangered species, and general.

Key non-hydro related fisheries experience includes:

- Evaluating cattle grazing impacts on bull trout and ESA listed spring Chinook in the Snake River
- Evaluating stream habitat quality and quantify for the Kalama, Wind, Lewis, Cowlitz, Elochoman, Grays, Washougal, Methow, Okanogan and Sandy Rivers in Washington and Oregon. This work was performed using the Ecosystem Diagnosis and Treatment (EDT) model (see [www.mobrand.com/edt](http://www.mobrand.com/edt))
- Senior biologist working with the Bonneville Power Administration and other state, federal and tribal fisheries agencies to restore anadromous salmonids to the upper Cowlitz River (Washington).
- Conducting creel and spawning surveys in multiple streams across the Pacific Northwest.
- Analyzing impacts to fisheries resources of the middle and upper forks of the Snake River from the implementation of new flow regimes.

### **2. Knowledge of effects of hydroelectric construction and operations**

Mr. Malone has worked on fisheries issues at over 20 hydroelectric projects located across the U.S. The majority of his work experience was gained through the FERC relicensing process. Mr. Malone was a lead or senior fisheries biologist on the Cowlitz River, Lewis (Swift, Merwin and Yale), North Umpqua,

Powerdale, Salida, Georgetown, Klamath and Cowlitz Falls hydroelectric projects. As the lead or senior fisheries biologist on these projects, Mr. Malone was responsible for:

- 1) Working with state, federal, tribal and public interest groups in designing and implementing the studies needed to address project impacts to both aquatic and terrestrial resources.
- 2) Developing PM&E measures for the project.
- 3) Providing scientific justification for proposed actions.
- 4) Developing adaptive management plans for selecting and implementing proposed PM&E's.
- 5) Conducting habitat, fish population, entrainment and turbine and reservoir survival studies.
- 6) Developing and evaluating fish passage facilities.

In addition to his FERC experience, Mr. Malone worked for the Northwest Power Planning council (as an independent 3<sup>rd</sup> party consultant) to evaluate the impacts to fisheries resources from the implementation of reservoir drawdowns at Lower Granite, Little Goose, Ice Harbor, Lower Monumental, and John Day dams (Columbia River).

Mr. Malone was also the senior fisheries biologist responsible for developing the biological rationale for making operational changes to the Snake River hydroelectric system. This work was part of the Lower Snake River feasibility study conducted by the USCOE to increase the abundance of ESA listed populations of Chinook and steelhead.

**3. Working knowledge of laws relevant to expertise, such as: the Fish and Wildlife Coordination Act, the Endangered Species Act, the Clean Water Act, the Coastal Zone Management Act, the Wild and Scenic Rivers Act, the Federal Power Act or other Applicable laws.**

Mr. Malone's experience on the Columbia River and FERC relicensing has provided him with a good understanding of the Endangered Species Act, Federal Power Act, Clean Water Act, and Wild and Scenic Rivers Act.

**4. Ability to promote constructive communication about a disputed study**

As part of his work on the Cowlitz, Lewis and Klamath relicensing proceedings, Mr. Malone had to work collaboratively with a diverse group of stakeholders to design and implement the studies needed to determine project impacts to fisheries and aquatic resources. This involved not only a good understanding of fisheries biology, but also the ability to present a clear rationale for study need and

interpretation of study results. On the Cowlitz River Project, Mr. Malone worked with the stakeholders to develop a study submittal form that each party requesting a study had to fill in before the fisheries technical team would discuss the request. The form required the submitter to describe the study, proposed methods, hypothesis being tested, identify its relevance to relicensing, provide examples and outputs from similar studies, identify statistical requirements, and describe how the study results would be used in decision-making. Studies were then evaluated by the technical team for merit based on set criteria. This process reduced conflicts between group members and allowed the team the ability to select and implement studies that they felt would have a bearing on decision-making or address legal mandates.

## RESUME

### Kevin Malone, Senior Biologist

#### EDUCATION

M.S., Biology, Central Washington University, 1985

B.A., Biology, Central Washington University, 1980

#### EXPERIENCE

### **Mobrand Biometrics, Inc., Vashon WA, Senior Biologist, 1999–present**

#### ***Lewis River FERC Relicensing***

*Client: PacifiCorp, 1999–present*

Serves as Project Manager and senior fisheries biologist responsible for developing and conducting, fisheries studies to address relicensing issues for the Lewis River Hydroelectric development on the Lewis River. Major tasks include examination of fish passage facilities and the development of fish passage alternatives for analysis as part of the FERC relicensing process, EDT habitat analysis in the upper Lewis River, and completion of environmental assessments for the Project.

#### ***Regional Technical Support for Subbasin Planning***

*Client: Northwest Power and Conservation Council, 2002–present*

Provides technical advice to subbasin planners on EDT. Work with NWPCC and with federal, state and tribal planners to develop EDT based watershed assessments for Columbia River subbasins.

#### ***Salmon Recovery and Subbasin Planning for the Lower Columbia Fish Recovery Board***

*Client: The JD White Company, Inc., 2002–present*

Serves as Project Manager and provides technical assistance in the development of planning activities with respect to Ecosystem Diagnosis and Treatment (EDT) applications, including briefing on those aspects of the methodology that are pertinent to lower Columbia River analyses. Provides EDT reference materials, database tools, and data as well as consultation and training on specific questions regarding the use and interpretation of the EDT method.

#### ***Bull Run HCP/EIS Phase I***

*Client: CH2 M Hill and City of Portland Water Bureau, 2002–present*

Serves as Project Manager and senior fisheries biologist working with City of Portland staff to evaluate fisheries resources of the Sandy River basin. Work includes the completion of an EDT analysis for Chinook, coho and winter steelhead in the Sandy and Bull Run watersheds, as well as development of an Action Plan to mitigate the effect that water diversions (Bull Run Dam) have on fisheries resources in the basin.

***EDT Evaluation for Fish Passage at Klamath Hydroelectric Project***

*Client: PacifiCorp, 2003–present*

Serves as Project Manager and provides assistance to PacifiCorp in completing an EDT evaluation of Klamath River Basin stream habitat upstream of Iron Gate Dam to Link River Dam, including main tributaries, and for mainstem reaches below Iron Gate Dam for PacifiCorp's Klamath Relicensing project. We did EDT analysis, prepared FERC documents, examined fish passage facilities and developed fish passage alternatives for review as part of a collaborative process.

***Cowlitz River Project Relicensing and Implementation***

*Client: Meridian Management / City of Tacoma, 1999–present*

Serves as Project Manager and lead fisheries biologist providing fisheries expertise in the form of technical studies, expert opinion, plan development, and technical support to Tacoma Power in their continuing efforts to obtain a license to continue the operation of the Cowlitz River Project and to implement the conditions of that license.

**Harza Engineering Company, Bellevue WA, Senior Biologist, 1990–1999**

***Cowlitz River Relicensing Project***

*Client: City of Tacoma*

Served as lead fisheries biologist responsible for developing and conducting fisheries studies to address relicensing issues for the Cowlitz Project. Studies performed to date include: radio-tracking, stream habitat mapping and fish population inventories, spawning surveys, and fish passage evaluations. Other duties include the coordination of study activities with county, state, federal, tribal and public groups.

***Fanno Creek Fisheries Evaluation***

*Client: City of Portland*

Served as lead fisheries biologist responsible for conducting and analyzing stream habitat and fish population surveys on Fanno Creek. Work included the mapping of stream habitat, determining the abundance and species composition of stream fish resources and identifying locations for habitat improvement structures.

***Lower Snake River Feasibility Study***

*Client: Corps of Engineers, Walla Walla District*

Served as senior fisheries biologist responsible for developing the biological rationale for making operational changes to the Snake River hydroelectric system. This work was part of the *Lower Snake River Feasibility Study* being conducted by the Walla Walla Corps of Engineers to increase Endangered populations of spring, summer and fall Chinook in the Snake River Basin. Tasks included the development of the population criteria needed for selecting a preferred hydrosystem operation, design of future studies to quantify criteria, interpretation of study results and the identification

of tools (surface collectors, etc.) that could be used to improve salmon survival through the lower Snake and Columbia Rivers.

***Snake River Reservoir Drawdown***

*Client: Northwest Power Planning Council*

Prepared an evaluation of impacts and benefits to Snake River fishery resources from the implementation of a drawdown of river reservoirs. Developed a biological test to determine the biological effectiveness of a one-pool reservoir drawdown test. Analyzed PIT Tag data to determine the effectiveness of the fish transportation program on the Snake River.

***Snake River Simulation Model, ID***

*Client: Idaho Power*

Analyzed impacts to fishery resources and water quality that would occur to the middle and upper forks of the Snake River as a result of altering river discharge to improve migratory conditions for endangered salmonids.

***Columbia River Surface Collector Program, OR***

*Client: Corps of Engineers, Portland District*

Served as lead fisheries biologist responsible for assisting Corps staff in the design and future prototype testing of surface collector technology. These structures are being developed as a means to safely collect and bypass juvenile salmonids at federal hydroelectric projects on the Columbia River. Specifically, Mr. Malone worked on the surface collector program for the Bonneville, John Day and The Dalles powerhouses and spillways.

***Cowlitz Falls Project, WA***

*Client: Bonneville Power Administration*

Collected and analyzed fish population and habitat data in the mainstem and tributaries of the Cowlitz River. Developed study protocols to evaluate and document interaction between anadromous salmonids and resident trout populations. Investigated different stocking strategies to increase the survival of juvenile spring Chinook in the upper Cowlitz and Cispus River systems.

***Hankin and Reeves Stream Habitat Mapping***

*Client: US Forest Service*

Conducted surveys as part of a NEPA analysis of grazing on the forest ecosystem. Wrote the Biological Evaluation of grazing impacts on threatened Snake River spring/summer Chinook and recommended mitigation measures.

***North Umpqua Project***

*Client: PacifiCorp*

Collected fisheries habitat data; conducted IFIM modeling and performed entrainment studies for FERC relicensing. Assisted in the preparation of FERC

Exhibit E documents and technical reports detailing the results of water quality and fisheries studies.

***Clear and Leavenworth Creeks Projects***

*Client: Public Service*

Assessed the impact of hydroelectric facilities on aquatic resources by performing IFIM, Habitat Quality Index (HQI), Wetlands Inventory Survey and Water Quality Sampling. Assisted in the preparation of FERC Exhibits H, E, F, and G. Prepared responses to FERC requests for additional information in regard to fishery issues at both projects.

***Beaver Falls Project***

*Client: Ketchikan PUD*

Conducted field studies on the aquatic resources of upper Silvis Lake and Beaver Falls Creek as part of the FERC relicensing process. Work included construction of a habitat map, water quality sampling and fish population estimates. Prepared technical report and Exhibit E for FERC license application.

***Connecticut River Fishery Evaluation***

*Client: Northern Utilities Service Company*

Conducted field studies utilizing incline plane traps, trawl nets, and hydroacoustics to determine the fish guidance efficiency of a floating louver system on juvenile clupeids of the Connecticut River. Designed louvers to divert clupeids away from a hydro project to a flume or a sluiceway and safely into the water below the powerhouse.

**Washington Department of Fisheries, Olympia WA, Fisheries Biologist**

***Priest Rapids Salmon Hatchery and Vernita Bar, WA***

Worked for the Washington Department of Fisheries as a Scientific Technician 3 at the Priest Rapids Salmon Hatchery. Duties included assisting hatchery personnel with the care and feeding of juvenile fall Chinook, spawning of adults, adult trap operations including transport and other hatchery practices. Was responsible for a crew of three technicians conducting spawning and carcass surveys in the Hanford Reach of the Columbia River.

**Grant County PUD, WA, Fisheries Biologist**

Performed fyke net testing to determine fish guidance efficiency, and descaling analysis and species composition of juvenile salmon being diverted by a prototype in-turbine stationary screen. Conducted redd surveys for fall Chinook at Vernita bar on the Columbia River and collected biological data on steelhead at the Priest Rapids coded-wire-tag trap. Assisted hatchery personnel with adult spawning of fall Chinook.

Submission Contents

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