



## Seattle City Light Boundary Project Relicensing Strategic Consultant/Aquatic Resource Studies

### *Pend Oreille River, Washington*

R2 is the lead Fish and Aquatic Resources, lead Geographical Information Systems, and Water Quality resources co-lead for Seattle City Light's Boundary Project Relicensing team. The Boundary Project (FERC No. 2144) is Seattle's largest generation resource consisting of a 340-foot-high, double curvature arch dam with a 1,051-MW generation capacity. In support of the Integrated Licensing Process (ILP), R2 worked with Seattle City Light and other contractors to develop a Strategic Relicensing Plan. R2 subsequently compiled technical materials and developed a Project Relicensing library.

R2 drafted technical resource sections of the Preliminary Application Document (PAD) and is responsible for scoping and preparing study plans for aquatic and water quality resources as part of Proposed and Revised Study Plans (RSP). In support of the PAD, PSP and RSP, R2 provided background reports on potential fish entrainment, fish passage opportunities, and conducted reconnaissance-level evaluations of instream flow, ramping rates, reservoir inundation, and total dissolved gas issues. R2 also presented and discussed technical study plans during a series of stakeholder meetings. R2 is currently working with Seattle to evaluate the effects of alternate operating scenarios on environmental and economic resources.

#### **Project Elements:**

- Integrated Licensing Process (ILP)
- Preliminary Application Document / Proposed and Revised Study Plans
- ESA Consultation
- Bull Trout Distribution and Abundance
- Fish Entrainment
- Reservoir Operations
- Geographical Information Systems
- Ramping Rates



R2 is providing GIS support services to the Relicensing team and assembled GIS, CADD, GPS, paper maps, and other materials into a central GIS database. R2 provided data conversion, integration, and analysis services for all technical resources and provided GIS and graphic services for the PAD and ISP.

Prior to the existing contract, R2 conducted baseline monitoring and fish and aquatic surveys to identify the distribution and abundance of key fisheries resources. R2 also developed and implemented a baseline water quality monitoring plan to develop a database for Relicensing.

