Anadromous Salmonid Passage Facility Design Noaa Habitat

Anadromous Salmonid Passage Facility DesignFall Creek Adult Fish Facility Upgrade, Lane County, OregonEngineering Documentation Report
Newhall Ranch Resource Management and Development Plan and Spineflower Conservation Plan
Condit Hydroelectric Project, Skamania and Klickitat Counties, Washington : FERC No. 2342-005
Fish passage technologies : protection at hydropower facilities.
Salmon River Basin, 15 Hydroelectric Projects
Vegetation Treatments Using Herbicides on BLM Lands in Oregon
hearings before a subcommittee of the Committee on Appropriations, House of Representatives, Ninety-ninth Congress, second session

The focus of this report is technologies for fish passage around hydropower generation facilities and protection against entrainment and turbine mortality. Emphasis is given to Federal Energy Regulatory Commission (FERC)-licensed hydropower projects where fish protection is a subject of controversy and congressional interest due to the Federal Power Act (FPA) and the Electric Consumers Protection Act (ECPA). Thus institutional issues related to FERC-relicensing are also discussed. (Major points of controversy are high-lighted in box 1.1).

Annual Report 1994

Including Its Participation in the Hydro-thermal Power Program, a Program Environmental Statement and Planning Report : Draft Environmental Statement : Appendix

Savage Rapid Dam, Anadromous Fish Passage Improvement

Environmental Impact Statement

Biological Opinion : Reinitiation of Consultation on Operation of the Federal Columbia River Power System, Including the Juvenile Fish Transportation Program, and 19 Bureau of Reclamation Projects in the Columbia Basin

Protection at Hydropower Facilities

Modular Systems for Energy and Fuel Recovery and Conversion surveys the benefits of the modular approach in the front end of the energy industry. The book also outlines strategies for managing modular approaches for fossil, renewable, and nuclear energy resource recovery and conversion with the help of successful industrial examples. The book points out that while the modular approach is most applicable for distributed and small-scale energy systems, it is also often used for parts of large-scale centralized systems. With the help of successful industrial examples of modular approaches for energy and fuel recovery and conversion, the book points out the need for more balance between large-scale centralized systems and small-scale distributed systems to serve the energy needs of rural and isolated communities. Coal, oil, natural gas, hydrogen, biomass, waste, nuclear, geothermal solar, wind, and hydro energy are examined, showing that modular operations are very successfully used in all these components of the energy industry. Aimed at academic researchers and industry professionals, this book provides successful examples and analysis of the modular operation for energy and fuel recovery and conversion. It is also a reference for those who are engaged in the development of modular systems for energy and fuel recovery and conversion.

Lyle Falls Fish Passage Project
Evaluation of Juvenile Fish Bypass and Adult Fish Passage Facilities at Water Diversions on the Umatilla River
Fish Protection Technologies and Fish Ways for Downstream Migration
Environmental Mitigation at Hydroelectric Projects
Water Resources Research Catalog
National Marine Fisheries Service Federal Aid Program Activities

This is the first publication to collect, standardize, and recommend a scientifically rigorous set of field protocols for monitoring and assessing salmon and trout populations. Includes five additional techniques that can be used with any of the 13 principle methods to supplement information gathered.Over four dozen fisheries experts throughout the U.S. Pacific Northwest and beyond contributed their time to pick, write, and review the most reliable protocols for enumerating salmonids in the field. Presented in an easy to use format, each of the 18 peer-reviewed protocols covers objectives, sample design, data handling, personnel and operational requirements, and field and office techniques, including survey forms.Standardized monitoring protocols will improve data reliability, maximize opportunities for data sharing and data set comparability, and ultimately improve the ability to assess status and trends. The Handbook will also support consistency in data collection for salmonids at the international level.

The Role of the Bonneville Power Administration in the Pacific Northwest Power Supply System

Final Environmental Impact Statement for Hydropower License

Role of the BPA in the Pacific Northwest Power Supply System

Salmonid Field Protocols Handbook

a program environmental statement and planning report

Fish and Wildlife Implementation Plan

This book offers a comprehensive review of current systems for fish protection and downstream migration. It offers the first systematic description of the currently available technologies for fish protection at hydropower intakes, including accurate and timely data collected by the authors and other researchers. It describes how to design and test them in agreement with the guidelines established from the EU Water Framework Directive. The book includes important information about fish biology, with a special focus on swimming and migration mechanisms. It offers a robust bridge between concepts in applied ecology and civil hydraulic engineering, thus providing biologists and hydraulic engineers with an authoritative reference guide to both the theory and practice of fish protection. It is also of interest for planners, public authorities as well as environmental consultants

Energy and water development appropriations for 1987
Hells Canyon Hydroelectric Project
Klamath Hydroelectric Project, FERC Project No. 2080-027, Oregon and California
Bull Run Water Supply Habitat Conservation Plan
Cushman Hydroelectric Project, North Fork Skokomish River, Mason County
Klickitat Hatchery Complex Program

"The National Marine Fisheries SErvice (NMFS) 2008 Biological Opinion for the Willamette Valley Project requires that the Fall Creek facility be upgraded to meet the requirements of the 2008 NMFS Anadromous Salmonid Passage Facility Design document. ... In July 2012, the USACE Portland District retained URS to develop and evaluate alternatives for improving adult fish passage at Fall Creek Dam and summarize the results in an Engineering Documentation Report (EDR)." -- Executive summary, page E-2.

Alaska Railroad Corporation Construction and Operation of a Rail Line Between North Pole and Delta Junction

Engineering Documentation Report

Techniques for Assessing Status and Trends in Salmon and Trout Populations

Eight Hydroelectric Projects Proposed for the Skagit River Basin, Whatcom County, Skagit County

Benefits and costs of fish passage and protection

For the Proposed Issuance of a Multiple Species Incidental Take Permit for the Tacoma Water Habitat Conservation Plan, Green River Water Supply Operations and Watershed Protection, King County