SELLING MITIGATION TO OPERATORS AND MANAGEMENT

Chelan River Biological Evaluation and Implementation Plan

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Project Location
Quick Facts

Dam – 40 feet high and 490 feet long

2.2 mile steel and concrete underground tunnel
   » 400 foot vertical drop

130 foot high surge tank to absorb hydraulic momentum

8 spillway bays

2 Francis type hydraulic turbines - 34,000 horsepower each

2 GE generators- 24,000 kilowatts each with peaking capability of 58,000 kilowatts

Tailrace - east side of the powerhouse flowing into the Columbia River.

Lake elevation operating range 1,100 - 1,079 ft

Power generation at the Project

Fish and wildlife conservation

Recreation

Municipal and domestic water supplies

Flood control

Downstream generation
Pre-Project

1892-1903
Multiple dams

1926
Washington Water Power receives 50 year federal license to construct existing dam and powerhouse

April 15, 1926
Construction begins

1928
Commercial operation of current dam and powerhouse for WWP
Lake Chelan Hydroelectric Project
post 1928
81 years prior to 2009 - River dry for most of the year

Aquatic life uses within the River were unknown

River temperature exceeded the water quality standards

Chelan River Biological Evaluation and Implementation Plan (CRBEIP)

End goal – flows, habitat and data to evaluate water quality standards
Challenges

- Construction of Habitat Channel and conveyance structure

- Providing minimum instream flows – How do we do this operationally?

- Completion of studies – What did it all mean?
Construction of Reach 4

Stakeholders
CRFF

Regulatory Agency

DEPARTMENT OF ECOLOGY
State of Washington
Major Changes in Operations

Natural Resources

Operations

Energy Planning & Trading
Communication of Information

Managers

Stakeholders

CRFF

Regulatory Agency
Questions?

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