

**CHELAN PUBLIC UTILITY DISTRICT
ROCKY REACH HYDROELECTRIC PROJECT NO. 2145
STUDY PLAN OUTLINE
October 15, 2000**

ROCKY REACH WATER TEMPERATURE MONITORING STUDY

Study Goal

To document compliance with the water quality standards in the Rocky Reach area in order to meet the Federal Clean Water Act requirements of 401 certification. The standard states that temperature shall not exceed 18°C due to human activities. When natural conditions exceed 18.0°C, no temperature increases will be allowed which will raise the receiving water temperature by greater than 0.3°C (WAC 173-201A-030).

Issues To Be Addressed

The primary issue to be addressed is whether there are significant ongoing Project-related impacts on water temperature.

Informational Needs

- Continuous temperature data for documenting water temperature variability during warm summer months.
- Information on how Rocky Reach project operations affect water temperature
- Data necessary to calibrate standard temperature models
- Collect information sufficient to obtain a Section 401 water quality certification

Level of Analysis

- Summarize any existing and historical data on water temperatures that have not been included in the 2000 water quality monitoring study
- Describe monitoring locations and the attributes make them representative of the project area
- Evaluate water temperature impacts attributable to Project operation through analysis of temperature data
- Model the influence of the Rocky Reach project on thermal uptake compared to the thermal loading of the Columbia River if there were no project, using standard, recognized temperature models.