

FEDERAL ENERGY REGULATORY COMMISSION

WASHINGTON D C 20426

Project No. 2643-001-Oregon  
Bend Hydroelectric Project  
PacifiCorp Electric Operations

APR 11 1994

Mr. Randy Fisher, Director  
Oregon Department of Fish and Wildlife  
2501 SW First Street  
P.O. Box 59  
Portland, OR 97207

Dear Mr. Fisher:

In a letter dated January 14, 1994, you commented on our Draft Environmental Assessment (DEA) for the Bend Hydroelectric Project, No. 2643-001, dated August 31, 1993.

We're in the process of addressing all comments received on the DEA and will be issuing a final EA in the near future. To adequately reevaluate the issues you've commented on, we need more information concerning your analysis and recommendations.

Our questions (in schedule A) concern (1) your efforts to require upstream fish passage at the North Canal Dam (2) your assessment of the Bend Project's effect on trout, and (3) the status of the habitat improvement projects on the upper Deschutes River.

Please file your response with the Secretary of the Commission within 30 days of the date of this letter. If you have any questions concerning this request, please call Joe Davis at (202) 219-2865.

Sincerely,



John H. Clements  
Acting Director, Division  
of Project Review

Enclosure:  
Schedule A

9405-020137

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Schedule A

1. You say the Oregon Department of Fish and Wildlife has the statutory authority to require upstream and downstream passage facilities at dams, and you have instructed your staff to pursue and achieve installation of upstream passage facilities at the North Canal Dam and Bend Hydro Dam.

Please tell us the schedule for installing upstream passage facilities at the North Canal Dam.

2. You estimate that either 14,674 or 18,026 wild rainbow and brown trout (page 2 and 16 respectively, of your Jan. 14, 1994 letter) moved downstream past the Bend Project from January through October, 1990, and a total of 170,961 fish migrated past the (Central Oregon Irrigation District) COID project between April 1 to October 31, 1990. Following installation of screens at the COID project, you estimate that 17,515 trout will pass the Bend project.

Your analysis is based on sampling data of fish movement and size distribution in the Deschutes River at the COID diversion. We need the assumptions and computations on which these estimates are based to complete our analysis.

Therefore, please provide one copy of the sampling data used and the assumptions on which these estimates are based. Please describe all backup and intermediate computations and explicit and implicit assumptions at each stage. If a computer spreadsheet was used, please provide a copy of the spreadsheet (both hard copy and DOS floppy disk), with the formulas and any linked or associated files or sheets on which the computations are based.

3. You compute spill at the Bend Project using two different methods (Tables 1 and 2 in your January 14, 1994 letter).

Please provide copies of the flow data and computations used in developing these tables. If a computer spreadsheet was used, please provide a copy of the spreadsheet (both hard copy and DOS floppy disk), with the formulas and any linked or associated files or sheets on which the computations are based.

4. You determined that the sweep velocity across the face of the vertical plate screen would be between 3 and 4 fps. We need the assumptions and computations on which these estimates are based to do our analysis.

Therefore, please provide the spreadsheets computations and assumptions on which these estimates are based.

5. You indicate that many habitat improvement projects have been completed in the upper Deschutes River and plans exist for future projects. Please provide more information on the following:
- (a) The Bureau of Reclamation's Upper Deschutes Water Conservation Project, which includes canal lining, proposed off-site storage and reregulation reservoirs, etc. Have funds been appropriated for any of this work? When will enough water be conserved to begin increased flow releases below the North Canal Dam?
  - (b) You say that letters have been sent to all operators of water diversions in Oregon that divert more than 30 cfs, notifying them of the need to provide intake screens and respond with their plans for complying with the screening requirements. Please provide the expected completion date of screen installation for each facility located on the upper Deschutes River.
  - (c) Please tell us when the following projects are scheduled to be completed:
    - Installing natural materials, such as logs, at Dillon Falls
    - Rebuilding the existing ladder at Cline Falls
    - Installing a vertical slot fishway at the Colorado Street Bridge Dam