ENVIRONMENTAL INSPECTION REPORT (ELECTRONICALLY SUBMITTED) FEDERAL ENERGY REGULATORY COMMISSION

Portland Region

Date of Inspection:	September 27, 2004
Date of Last Inspection:	August 23, 2000
Name:	Klamath
Project No.:	2082
Development(s):	Eastside/Westside, Keno, JC Boyle, Copco 1, Copco 2, and Iron Gate
Licensee:	PacifiCorp
License Type:	Major
License Issued:	January 28, 1954
License Expires:	February 28, 2006
Location (waterway):	Klamath River
Location (geographic):	Klamath and Siskiyou Counties, OR
Inspector:	Erich G. Gaedeke
Licensee Representatives:	Connie Snyder and Dan Blevin
Other Participants:	John Hamilton- FWS

Summary of Findings: The licensee is currently undergoing relicensing. Due to the age of the current license, there are minimal requirements with regard to environmental resources. The operation of the project is heavily influenced by the operation of the Bureau of Reclamation's Link River Diversion Dam on Upper Klamath Lake and major irrigation diversions, which also begin at Upper Klamath Lake. As a result, minimum flows are heavily influenced by BOR releases and are often less than the license required minimum flows. During the inspection, poor flow conditions were observed in the Keno and JC Boyle fish ladders. Additionally, the Iron Gate Reservoir was being drawn down 10 feet over a 2-week period to replace the Camp Creek and Mirror Cove boat ramps. During the inspection, one unit was operating at the Eastside powerhouse with a flow of 1000 cfs, the Westside powerhouse was out of service for maintenance, one unit was operating at the JC Boyle powerhouse with a flow of 1200 cfs. Copco 1 and 2 powerhouses were not operating, and one unit was operating at Iron Gate with a flow of 900 cfs. A follow-up telephone call with the licensee regarding fish ladder operations occurred on October 25, 2004.

Other Notes: Please note that this inspection report only covers current license requirements and activities and does not include license requirements that have already been fulfilled.

Submitted Erich G. Gaede December 8, 2004

Erich G. Gaedeke _ Fishery Biologist

A. Inspection Findings

Requirements*	Requirement Date	Follow- up Needed	Photo No's.	
FISH AND WILDLIFE RESOURCES				
Art. 49: Construct, operate, and maintain fish facilities	LR	No	1, 2	
Art. 50: Construct fish trapping, collecting, holding, and spawning facilities	LR	No	5, 6, 7	
Art. 52: Minimum flows below Iron Gate	LR	No		
Art. 69: Minimum flows at Fall Creek Diversion Dam	LR	No		
RECREATION RESOURCES				
Part 8 CFR: Recreation signing and posting (Part 8 CFR)	Current Reg's	No	12	
PUBLIC SAFETY				
Facilities and measures to assure public safety (Part 12 CFR)	Current Reg's	No	13, 14	

* Art = Article Number O = Order LR = License Requirement SA = Settlement Agreement CFR = Code of Federal Regulations On = Operational OP = Ordering Paragraph Letter Ap = Approved F = Filing

B. Comments

FISH AND WILDLIFE

The licensee operates and maintains fish ladders at Keno (Photograph 1) and JC Boyle (Photograph 2) for resident fish passage. Of particular concern are the shortnose suckers, which are listed under the ESA. On the day of the inspection, the Keno ladder was flooded and the JC Boyle ladder had minimal flow over the weirs. According to the licensee, the FWS requested more attraction flow at the Keno ladder; however, the auxiliary water supply system was maxed-out. As a result, the licensee increased ladder flows resulting in poor ladder flow and fish passage conditions. The JC Boyle ladder had minimal flow over the weirs. As a result of unclear ladder operational procedures and criteria, I had a telephone conversation with the licensee's biologist on October 25, 2004. According to the licensee, there has been much confusion and direction from the resource agencies regarding the ladders' operation. He stated that they were in the process of preparing operation plans for the ladders and a draft of the plans was scheduled to be submitted to the resource agencies in November. I requested that a copy of the final plans be sent to me.

The licensee operates and maintains fish screens at JC Boyle to protect downstream migrants. Fish are diverted to a bypass pipe (Photograph 3), which enters the bypassed reach just downstream of the dam. The outfall pipe was recently extended and the plunge pool was excavated to help protect downstream migrants.

The licensee provides funding to the California Department of Fish and Game for the operation of the Iron Gate Fish Hatchery (Photograph 5). Salmon and steelhead enter the ladder (Photograph 6) at the base of Iron Gate Dam, which directs them to a series of holding ponds (Photograph 7) for collection and transport to the hatchery. The licensee also maintains nesting platforms for osprey at Copco 1 and Iron Gate reservoirs.

Article 52 specifies the following minimum flows below Iron Gate:

Flow
1300 cfs
1000 cfs
710 cfs
1000 cfs

RECREATION

Recreational facilities operated and maintained by the licensee at the project include: a) the Link River Bird Sanctuary and Small Animal Refuge, which includes trails and vault toilets; b) South Bank Recreation Site (Photograph 8), which includes camping, restroom facilities, boat launch and docks (Photograph 9), and a parking lot; c) Pioneer Park, which includes picnic facilities, vault toilets, and boat launch; d) Klamath River fishing access sites, which contain vault toilets at some of the sites; e) Copco Cove, which includes picnic facilities, a portable toilet, and boat launch; f) Mallard Cove (in cooperation with the BLM), which includes a parking lot and boat launch; g) Overlook Park, which includes picnic facilities and fishing access; h) Long Gulch, which includes a campsite and boat launch; i) Iron Gate dam parking lot and boat launch; j) Mirror Cove, which includes camping, vault toilets, and boat launch; k) Juniper Point Camp, which includes camping and a swimming area; and l) Camp Creek, which includes camping (Photograph 10), picnic facilities, and boat launch (Photograph 11). A Part 8 sign is located near the entrance to the Iron Gate Fish Hatchery (Photograph 12) and near the entrances to the other project campgrounds.

On the day of the inspection, the licensee was initiating a drawdown of the Iron Gate Reservoir to replace the Mirror Cove and Camp Creek boat ramps. The reservoir was being drawn down 10 feet over a 2-week period to replace the ramps. All facilities were in satisfactory condition on the day of the inspection.

PUBLIC SAFETY

The licensee maintains boat-restraining barriers at each of the project dams (Photograph 13); however boating is prohibited at Copco 2 and Fall Creek so boat barriers are not required. Appropriate fencing and warning signs are also maintained around the project (Photograph 14). All barriers, signage and fencing were in satisfactory condition on the day of the inspection.

C. PHOTOGRAPHS

Included as part of this report are 14 photographs that show the features and condition of the project at the time of the inspection.



Photograph 1: Keno vertical slot fish ladder.



Photograph 2: JC Boyle pool and weir fish ladder.

Klamath Project, FERC No. 2082 September 27, 2004



Photograph 3: JC Boyle bypass reach minimum flow and downstream migrant release pipe.



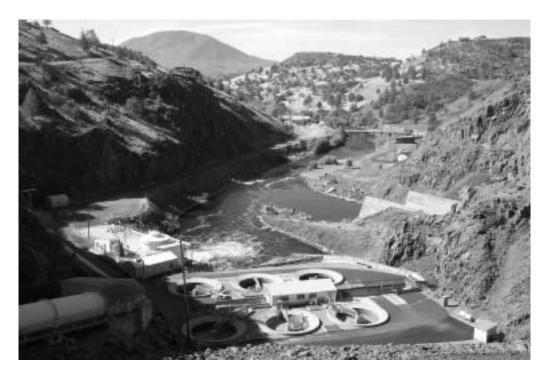
Photograph 4: New fish ladder construction at BOR's Link River Dam.



Photograph 5: Iron Gate fish hatchery.



Photograph 6: Iron Gate pool and orifice ladder to fish holding ponds.



Photograph 7: Fish holding ponds below Iron Gate.



Photograph 8: South Bank Recreation Site.



Photograph 9: South Bank Recreation Site boat launch.



Photograph 10: Camp Creek Campground.



Photograph 11: Camp Creek Campground boat launch.



Photograph 12: Part 8 sign at Iron Gate.



Photograph 13: Boat barrier upstream of Copco 1.



Photograph 14: Warning sign below Copco 2.