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IDAHO DEPARTMENT OF FISH AND GAME

PANHANDLE REGION
2885 West Kathleen Avenue
Coeur d'Alene, Idaho 83815

C.L. "Butch" Otter/Governor
Cal Groen/Director

November 2, 2008

Mr. Keith Franklin
Idaho Department of Water Resources
Northern Region
7600 Mineral Drive, Suite 100
Coeur d'Alene, ID 83815

*Entered in
mail flow
11/5/08
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Dear Keith:

REFERENCE: 92-10033: MOREHOUSE

We have reviewed the application by Keith Morehouse to install a hydroelectric system that would divert 0.18 cfs from Carlin Creek between April 1 and November 30 annually. The diversion would be made via a four inch PVC pipe from the inlet scoop to a water turbine at the outlet.

We have no objection to installation of the system as we have outlined in our correspondence (July 2004, March 2005, April 2007, and September 2007) with Mr. Morehouse. We appreciate Mr. Morehouse's efforts to include our recommendations in the design of his system, and his interest in protecting the resources of Carlin Creek. Our recommendations, as discussed with the applicant previously, include the following:

1. Maximum withdrawal of 0.18 cfs from Carlin Creek, dependant on water flows.
2. The proposed storage tank should be buried next to the stream, not in the stream channel.
3. No diversions are to occur when stream flows are less than 0.50 cfs. When flows are between 0.50 cfs and 0.68 cfs, the applicant could divert between 0.01 cfs and 0.18 cfs. When flows are greater than 0.68 cfs, all natural flow in excess of diversion (0.18 cfs) must be bypassed.
4. Install a weir or other device capable of measuring a minimum of 0.50 cfs to measure the bypass flows. The weir should be located upstream of the proposed storage tank to ensure bypass flows are provided before diversion begins. Weirs should be monitored or checked daily to ensure bypass flows are being provided.

The water intake should be screened to prevent entrainment or impingement of fish. Because Carlin Creek is spawning and rearing tributary for westslope cutthroat trout, specifications of screening should follow NOAA guidelines (0.0938" [3/32"] screen with an approach velocity of less than 0.4 fps) for fry sized fish (< 60 mm).

Mr.Keith Franklin
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Thank you for the opportunity to comment.

Sincerely,

Mary Terra-Berns
Charles E. Corsi *for*
Regional Supervisor

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C: Sharon Kiefer, IDFG Boise

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