



State of Idaho
DEPARTMENT OF WATER RESOURCES

1301 North Orchard Street, Statehouse Mail, Boise, Idaho 83720-9000
Phone: (208) 327-7900 FAX: (208) 327-7866

November 10, 1994

CECIL D. ANDRUS
GOVERNOR

R. KEITH HIGGINSON
DIRECTOR

Ervin Gilbert, President
Portneuf-Marsh Valley Canal Co.
17535 South Old Highway 91
Downey, ID 83234

RE: Portneuf Dam

D29-2065

Dear Mr. Gilbert:

By letter dated December 18, 1992 to Thayne Thompson, the Department advised that an Operation Plan, including emergency procedures needed to be developed for Portneuf Dam and submitted to the Department for review and approval by May 1, 1993. The letter also indicated that specific maintenance needed to be completed at the project. To date, the Operation plan has not been received, and a recent inspection of the dam revealed that some, but not all, of the maintenance work has been completed.

If you plan to store water at the dam next season, it is imperative that the following actions be taken by December 1, 1994:

- The Operation Plan for Portneuf Dam shall be submitted for review and approval.
- The low area on the dam crest, on the east side of the spillway must be raised and leveled to at least elevation 5406.5 ft, according to the Department's survey, copy enclosed. The area on the west side of the spillway shall be left low, at or below elevation 5404.5 ft for at least 100 feet. This will allow the abutment area to be overtopped, during the inflow design flood, and breach, to prevent the main dam embankment from overtopping. The rock riprap piled on the crest near the spillway should be placed along the upstream slope on the east side of the spillway after the crest is raised.
- Large growth on the embankment, and particularly willows in the spillway channel entrance, shall be killed and removed (piled and burned).

If you are unable to complete the items outlined above by December 1st, you must request an extension of time in writing. The request for an extension of time shall include the reason(s) for the delay and must state when you expect the work will be completed.

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If the Operation Plan and maintenance items are not completed, or if a request for an extension of time, that contains a reasonable schedule for completing the items referenced above, is not received by November 15, 1994, storage at the dam may be restricted.

As mentioned during the inspection this summer, the data submitted by the SCS indicates the reservoir capacity record is not accurate and that the actual storage is less than the records show. We have contacted the SCS about performing additional surveying to more accurately define the reservoir volume; however, they indicated that no further work will be done, because of budget restraints. Hopefully, in the near future, the Company can develop an accurate area-capacity curve for the reservoir. The Department will continue to work with the Company towards this goal.

Should you have any questions, please contact me, phone 327-7957, in the Dam Safety Section, or contact Dave Walrath, phone 525-7161 in our Eastern Regional Office in Idaho Falls.

Very truly yours,

David H. Hollingshead
David H. Hollingshead, Mgr.
Safety of Dams Section

enclosure

cc: IDWR - Eastern Region