

## WATER QUALITY CERTIFICATION AMENDMENT

(P.L. 92-500, Section 401)

In the matter of: S.R. Thanhauser  
White Oak Water Power  
P.O. Box 12  
South Newbury, VT 05066  
Application for Amendment to Halls Brook Hydroelectric  
Project Water Quality Certification

The Water Quality Division of the Vermont Department of Water Resources and Environmental Engineering has reviewed the applicant's request filed by letter dated January 11, 1983 to amend his Water Quality Certification for a hydroelectric project on Halls Brook in the Town of Newbury. The Department finds:

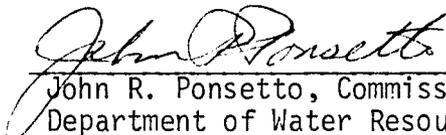
1. The size of proposed waterwheel will be changed to a diameter of 16 feet and a width of 3 feet. The intake flume width shall be decreased to 3 feet. In addition to the overshot waterwheel, a turbine shall be installed. The turbine will utilize a 34 inch diameter penstock. The two separate tail-races will be located in essentially the same position as the original proposal.
2. The proposed mode of operation has not been changed. The hydraulic capacity of the powerhouse will be increased. The original waterwheel had design capacity of 24 cfs. The new proposal will have a waterwheel with a capacity of approximately 16 cfs and a turbine with a capacity of approximately 28 cfs, providing a combined capacity of 44 cfs.
3. The applicant anticipates that some work in the stream proper shall be necessary in order to improve the channel capacity and reduce ice-flow problems, which became apparent this winter.

CONDITIONS

Based on its review and findings, the Department hereby amends the Halls Brook Hydroelectric Project Water Quality Certification issued on May 4, 1982. The original Certification conditions remain in affect, and the following conditions are added:

G. The intake to the turbine penstock shall be screened to the satisfaction of the District Fisheries Biologist in order to minimize or prevent turbine mortality to migrating fish.

H. No work on the stream channel shall be allowed until approved by the Department. The applicant shall provide the Department with a detailed narrative description of the work to be undertaken, including equipment to be used and amount of material to be moved. A plan-view sketch of the work area will be included.

  
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John R. Ponsetto, Commissioner  
Department of Water Resources  
and Environmental Engineering

Dated at Montpelier, Vermont this  
2nd day of ~~January~~, 1983.  
FEBRUARY

JRC/rh