



**STATE OF CONNECTICUT**  
**DEPARTMENT OF ENVIRONMENTAL PROTECTION**



OFFICE OF THE SECRETARY

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Mr. Richard DesRoches  
 City of Norwich, Department of Public Utilities  
 34 Court House Square  
 Norwich, CT 06360

FEDERAL ENERGY REGULATORY COMMISSION

RE: WATER QUALITY CERTIFICATION  
 GREENVILLE DAM PROJECT  
 FERC No. 2441 *009*

Dear Mr. DesRoches:

The Department of Environmental Protection (Department) has reviewed the City of Norwich Department of Public Utility's request, received on December 22, 1991, for Water Quality Certification for the proposed Greenville Dam Project on the Shetucket River, in accordance with the December 1991 application to the Federal Energy Regulatory Commission (FERC Project No. 2441).

Pursuant to Section 401 of the Federal Water Pollution Control Act, the Department hereby certifies that the proposed project will not violate Connecticut's Water Quality Standards provided that the following conditions are complied with:

- (1) The licensee shall, in a manner and on a schedule as approved by the Department, construct and maintain a denil fish ladder. This facility should conform with Figure E-2, the description in Appendix D of the Greenville Dam Project application and with any final design modifications recommended and approved by U.S. Fish & Wildlife Service (Service) and the Department.
- (2) The licensee shall, in a manner and on a schedule as approved by the Department, construct and maintain downstream fish passage facilities. These facilities should conform with Figure E-3, the description in Appendix D of the Greenville Dam Project application and with any final design modifications recommended and approved by the Service and the Department.
- (3) The licensee shall construct and have operational a fish lift/elevator by April 1st of the second year after experiencing the passage of 20,000 American shad or 200,000 river herring or an equivalent combination of the two species (one shad = ten herring). The fish lift/elevator should conform with Figure E-4 (Sheets 1 of 2 and 2 of 2), the description in Appendix D of the Greenville Dam Project application and with any final design modifications recommended and approved by the Service and the Department.
- (4) The licensee shall operate the project during the upstream fish passage season (April through November) in such a manner to prevent the congregation of fish at the project tailrace and, thus, insure the efficient movement of fish, as determined by the Department, to the above cited passage facilities at the Greenville Dam.

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- (5) The licensee shall maintain a minimum stream flow of 250 cfs or inflow, whichever is less, from the base of the Greenville Dam to the bypassed reach.
- (6) The licensee shall operate the project in conformance with a run-of river mode, so that the inflow to the project shall equal the outflow on an instantaneous basis .
- (7) If the licensee applies to the FERC to modify any of the foregoing conditions, the applicant shall simultaneously submit to the Department a copy of said application for modification.

This is not the permit or authorization which may be required under Section 22a-32; 22a-36 to 45, inclusive; 22a-384; or 22a-365 to 377, inclusive; of the Connecticut General Statutes as amended.

Sincerely,



TIMOTHY R. E. KEENEY  
COMMISSIONER

DATED: December 16, 1992