

LAWRENCE HYDROELECTRIC PROJECT

LIHI APPLICATION

ATTACHMENT A

FLOWS



**Green Power**

Enel Green Power North America, Inc.

One Tech Drive, Suite 220  
Andover, Massachusetts USA 01810  
T 978 681 1900 F 978 681 7727

**LAWRENCE HYDROELECTRIC ASSOCIATES**  
A SUBSIDIARY OF ENEL GREEN POWER NORTH AMERICA, INC.

January 25, 2013

Gerald L. Cross, P.E.  
Regional Engineer  
Federal Energy Regulatory Commission  
19 West 34th Street, Suite 400  
New York, NY 10001

Re: Lawrence Hydroelectric Project (FERC No. 2800-MA);  
Certification of Minimum Flow Compliance

Dear Mr. Cross:

Based on a review of our operating records I hereby certify that, to the best of my knowledge, the Lawrence Hydroelectric Project (FERC No. 2800-MA) was operated in compliance with the project's minimum flow requirements during 2012.

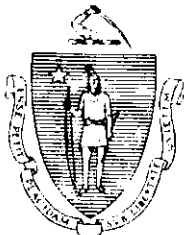
Please do not hesitate to contact me at (978) 681-1900, extension 809 if you have any questions concerning this certification.

Sincerely,  
**Lawrence Hydroelectric Associates**

A handwritten signature in black ink, appearing to read "Kevin M. Webb", with a long horizontal line extending to the right.

Kevin M. Webb  
Hydro Licensing Manager

cc: W. Pincence, LHA  
R. Bartlett, LHA



THE COMMONWEALTH OF MASSACHUSETTS  
WATER RESOURCES COMMISSION

DIVISION OF WATER POLLUTION CONTROL  
110 TREMONT STREET, BOSTON 02108

OFFICE OF THE DIRECTOR

July 5, 1978

Dr. Kenneth Plumb, Secretary  
Federal Energy Regulatory Commission  
825 North Capitol Street  
Washington, D.C. 20426

Re: Water Quality Certification  
Lawrence Hydroelectric Project  
FERC License Application P-2800  
Lawrence, Mass.

Dear Dr. Plumb:

This letter is written at the request of Lawrence Hydroelectric Associates, developers of a proposed 14.1 Megawatt generating station on the Merrimack River at Lawrence, Mass. The Associates have requested a letter from this Division as to the effect of the operation of the proposed facility on the water quality of the Merrimack River below the project.

The proposed development will be located at the existing Essex Dam in Lawrence, approximately two miles upstream of the outfall from the recently-completed Greater Lawrence Sanitary District Wastewater Treatment Plant. This plant was designed to produce an effluent of such quality and characteristics that, with a 7-day, 10-year low flow on the Merrimack River at the outfall, the assigned "B" classification of the river would be attained. The Division was concerned lest the regimen of the river would be so changed through the operation of the proposed facility that the Class B standard would be violated.

Staff of this Division have had numerous meetings and correspondence with staff of the developers. As a result, this Division has now received reasonable assurances from the applicant that the proposed project will be operated in a manner which will not cause a violation of applicable water quality standards adopted by this Division under authority of Section 27 (5) of Chapter 21 of the Massachusetts General Laws.

Therefore, based on these assurances and our own investigations, this Division hereby issues this Water Quality Certification relative to this project, in accordance with the provisions of Section 401 of the Federal Water Pollution Control Act as amended (Public Law 95-217), subject to the following conditions:

1. A minimum flow of 951 c.f.s. (equivalent to approximately 1,000 c.f.s. at the Greater Lawrence Sanitary District Wastewater Treatment Plant outfall) shall be continuously released from the impoundment behind the Essex Dam by whatever means or combination of means necessary to accomplish this release, unless or until the pool elevation behind the dam is so drawn down that it reaches the crest of the dam.

Dr. Kenneth Plumb, Secretary

July 5, 1978

Page 2

2. At such times, outflow released from the dam shall be equal to inflow as recorded at the U.S.G.S. Lowell, gage, during the period the flow is less than 951 c.f.s. When the flow exceeds 951 c.f.s., the excess flow over 951 c.f.s. may be utilized to refill the impoundment to the top of flashboards, whereupon Condition 1 above will again go into effect.

Should any violation of the water quality standards or the terms of this Certification occur as a result of the proposed activity, the Division will direct that the condition be corrected. Non-compliance on the part of the permittee will be cause for this Division to recommend the revocation of the permit(s) issued therefor or to take such other action as is authorized by the General Laws of the Commonwealth.

Vary truly yours,

Thomas G. McMahon  
Director

TCM/WAS/rew

cc: Gordon A. Marker, Lawrence Hydroelectric Associates, 8 Arlington Street,  
Boston 02116  
David Standley, Commissioner, Department of Environmental Quality  
Engineering, 100 Cambridge Street, Boston 02202  
Barbara Ingle, Deputy Commissioner, Department of Environmental Quality  
Engineering, 100 Cambridge Street, Boston 02202  
Morgan Rees, Chief, Permits Branch, Corps of Engineers, 424 Trapale Road,  
Waltham 02154  
John J. Hannon, Director, Division of Land & Water Use, Department of  
Environmental Quality Engineering, 100 Nashua Street, Boston 02114  
Matthew Connolly, Director, Division of Fisheries & Wildlife, 100 Cambridge  
Street, Boston 02202