

# A & D HYDRO, INC.

55 UNION STREET, 4<sup>TH</sup> FLOOR • BOSTON, MA, 02108-2400 USA •  
TEL: +617-367-0032 • FAX: +617-367-3796

April 4, 2008

Debra A. Howland, Executive Secretary  
New Hampshire Public Utilities Commission  
21 S. Fruit St, Suite 10  
Concord, N.H. 03301-2429



Re: Application of A & D Hydro, Inc. for Certification as a Class IV  
Facility pursuant to RSA 362-F:11, I

Dear Ms. Howland:

A & D Hydro, Inc. herewith submits its application to certify its West  
Springfield Hydroelectric Facility (the "Project") as a Class IV Facility,  
pursuant to RSA 362-F, F:11, I.

a. *The name and address of the applicant is:*

Thomas Tarpey, Vice President  
A & D Hydro, Inc.  
55 Union Street, 4<sup>TH</sup> Floor  
Boston, MA 02108  
(V) 617-367-0032  
(F) 617-367-3796  
[tarpey@massgravity.com](mailto:tarpey@massgravity.com)

b. *The location of the Project is:*

One Front Street  
West Springfield, MA 01089-3113

NHPUC APR07'08 AM 9:56

Latitude: 44°34'49.61"N  
Longitude: 69°33'17.50"W

- c. *The ISO-New England asset identification number is: MSS10770*
- d. *The NEPOOL generation information system facility code is: MSS10770*
- e. *A description of the Project is:*

The existing Project facilities include: an 18-foot-high, 447.5-foot-long, concrete-filled, timber crib dam with crest elevation of 92.80 feet above mean sea level (msl) that creates a 20-acre impoundment; a 2,610-foot-long, 50-foot-wide power canal with masonry and concrete headworks containing six gates; a concrete and brick powerhouse about 60 feet long, 54 feet wide, and 63 feet high containing two vertical Francis turbines connected to two 480 volt generators; and a tailrace approximately 157 feet in length and having a width varying from 30 to 48 feet. There are no primary transmission lines included in the Project.

Turbine-generator ("T-G") One is rated at 900 kilowatts (kW) and T-G Two is rated at 466 kW. However, due to flow restriction in the power canal, the combined capacity is 1,200 kW (T-G One at 800 kW and T-G Two at 400 kW). The Project's average annual generation is approximately six thousand megawatt-hours (6,000 MWh).

The Project operates as a run-of-river facility (inflow equals outflow instantaneously). The hydraulic capacity of the Project is 622 cubic feet per second (cfs) (400 cfs for T-G One and 222 cfs for T-G Two).

- f. *If a biomass source, NO<sub>x</sub>, and particulate matter emission rates and a description of pollution control equipment or proposed practices for compliance with such requirements. Not Applicable.*

g. *Demonstration that the applicant has all necessary regulatory approvals, including any reviews, approvals or permits required by the department:*

Attachment 1 to this application is a copy of the Federal Energy Regulatory Commission License issued for the West Springfield Project. The FERC order issuing this renewal license is dated October 24, 1994. The licensee named in that order, DSI, was a previous owner of the Project and the applicant for that re-license.

The license order contains the following statements regarding the required Water Quality Certification:

“On December 20, 1991, DSI applied to the Massachusetts Department of Environmental Protection (MDEP) for Section 401 Water Quality Certification (WQC), as required by the Clean Water Act. By letter dated December 2, 1992, DSI withdrew its initial request and refiled a new request for WQC. MDEP acknowledged receipt of the new WQC request on December 8, 1992, but has not acted on it.”

“Section 4.38(f)(7)(ii) of the Commission's regulations stipulate that agencies must act on a pending 401 WQC request within 1 year from the date of receipt of the application, or the certification is deemed waived. Since MDEP did not act on DSI's request within 1 year, I deem the certification to be waived.”

Attachment 2 is a copy of a letter from the Commonwealth of Massachusetts, Executive Office of Environmental Affairs, Department of Environmental Protection, dated August 12, 2005. In this letter, the Department of Environmental Protection recounts the circumstances of the Project's 1992 application for 401 Water Quality Certification. The letter's second paragraph states:

“It is the opinion of this agency and our sister agency, the Massachusetts Division of Fisheries and Wildlife, that all of the conditions that would have appeared in a Water Quality Certificate are part of the FERC license for this Project. We believe those conditions are protective of aquatic resources and meet water quality standards.”

The 1994 FERC license order contains a group of paragraphs entitled "Section 18 Fishway Prescription" (see Attachment 1, page 4). These paragraphs define the Project's required upstream and downstream fish passage facilities. Attachment 3 is a "Job Performance Report" dated February 28, 2008, by the Massachusetts Division of Fish and Game. This report describes the functioning of the fish passage facilities at the Project during the period March 1, 2007 through February 28, 2008. In numerous paragraphs and tables, the report describes the passage of both anadromous species (salmon, shad, herring, *et al.*) and catadromous species (american eels).

- h. *Proof that the applicant either has an approved interconnection study on file with the commission or is not required to undertake such a study:* The West Springfield Hydroelectric Project, located in western Massachusetts, is not required to undertake such a study.
- i. *If a biomass facility, proof that a copy of the completed application has been filed with the department.* Not Applicable
- j. *Such other information as the applicant may provide to assist in determining the classification of the generating facility:* No additional information provided at this time.

Sincerely,  
A & D Hydro, Inc.



Thomas A. Tarpey  
Vice President