



Photo – View of Gardners Falls Dam

*Reviewer's Report on Stage II
Application for Recertification to
the Low Impact Hydropower
Institute (LIHI) for the Gardners
Falls Dam Project.*

**Gary M. Franc
Franc Logic
8/28/2017**

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GARDNERS FALLS DAM PROJECT STAGE II APPLICATION REVIEW FOR LIHI RECERTIFICATION

Prepared by:
Gary M. Franc
August 28, 2017

1. INTRODUCTION

This report reviews the Stage II application received by the LIHI for recertification of the Gardners Falls Dam Hydroelectric Project (GFD or Project) dated April 26, 2017. A Stage II review follows the same process as an original certification application, culminating with a reviewer's report and the Executive Director decision via designative authority or alternatively by the decision of the LIHI Governing Board.

On December 14, 1994, the Massachusetts Department of Environmental Protection (MADEP) issued a water quality certificate (WQC) for the Project¹. The Federal Energy Regulatory Commission (FERC) licensed the Project under docket number P-2334, issuing the license on April 4, 1997 to the Western Massachusetts Electric Company (WMEC), a wholly owned subsidiary of Northeast Utilities Service Company (Northeast Utilities)². The 40-year license terminates on March 31, 2037.

On June 30, 1999, WMEC transferred the license to Consolidated Edison Energy of Massachusetts, Inc. (CEEMI)³. On March 3, 2008, the license was transferred to Consolidated Edison Energy of Massachusetts, LLC (CEEMLLC)⁴. CEEMLLC changed its name to North American Energy Alliance, LLC (NAEA) in June 2008.

William P. Short III was retained by NAEA to develop the application of LIHI certification for the Project⁵. The LIHI original certification began on February 18, 2011 and ended on February 18, 2016. On February 28, 2017, LIHI extended this certification until November 30, 2017. The Project is certified by LIHI as Project #80.

On February 20, 2012, NAEA changed its name to Essential Power Massachusetts, LLC ("Essential")⁶. William P. Short III was once again retained to develop the revised application for LIHI recertification. The original application for recertification was received by LIHI on March 4, 2017 using the newly implemented June 2016 application form. The Stage I recertification review was completed on March 12, 2017 by Gary M. Franc, with requests for additional information to be provided by the applicant.

As stated in the application, on April 13, 2017, Essential transferred the direct ownership of its hydroelectric power facilities, including GFD, to Nautilus Hydro, LLC (NHLLC). My review of the FERC docket indicates this transfer occurred on June 5, 2017. The revised Stage II application was received from the applicant on June 13, 2017. Within two weeks, on June 21, 2017, Hull Street Energy (HSE or Owner) acquired NHLLC. The Owner's contact is Matthew Willis⁷.

¹ WQC - <http://www.lowimpacthydro.org/assets/files/Gardner%20Falls%20text/MDEP%20Water%20Quality%20Certificate%20%281994-12-14%29.pdf>.

² FERC license - <https://elibrary.ferc.gov/idmws/common/OpenNat.asp?fileID=3076322>

³ <https://elibrary.ferc.gov/idmws/common/OpenNat.asp?fileID=3163810>

⁴ <https://elibrary.ferc.gov/idmws/common/OpenNat.asp?fileID=11600049>

⁵ William P. Short – 917.206.0001 - w.shortiii@verizon.net - P.O. Box 237173, New York, New York 10023.

⁶ <https://elibrary.ferc.gov/idmws/common/OpenNat.asp?fileID=12903335>

⁷ Matthew Willis - HSE - 240.800-3218 – mwillis@hullstreetenergy.com

Throughout the prior LIHI certification period starting in February of 2011, the Project has operated at reduced power output or ceased operations altogether due to seepage and other related issues either underneath, upstream or downstream of the powerhouse.

In April 2015, the owner engaged the engineering services of Kleinschmidt Associates (KA) and Haley & Aldrich (H&A) to perform geotechnical and modeling studies to propose the most cost effective repair solution. A secant wall and concrete pad were installed in the portion of the canal that is in the area between the Unit 5 intake and the intakes of Units 3 and 4. This work was completed December 2016. The current assessment is that the secant wall is performing as designed.

On April 16, 2017, a fire occurred at the Project's powerhouse caused by a malfunctioning turbine. Firefighters from Shelburne Falls, Shelburne Center, Colrain, Conway, Charlemont, Greenfield, Heath and Halifax responded and assisted in putting out the fire. No injuries were reported.⁸

The station has been returned to service absent Unit 2. The Unit 2 tailrace is scheduled for replacement in 2017. The Owner expects to recommence operations once its engineers have determined that the secant wall is operating effectively.

2. PROJECT LOCATION

The Project is located in the Towns of Buckland and Shelburne in Franklin County, Massachusetts, at approximate river mile (RM)15.8 on the Deerfield River for the powerhouse and RM 16.3 for the dam (latitude 35°21.56" N, longitude 43°35.66" W) (See Location Map).

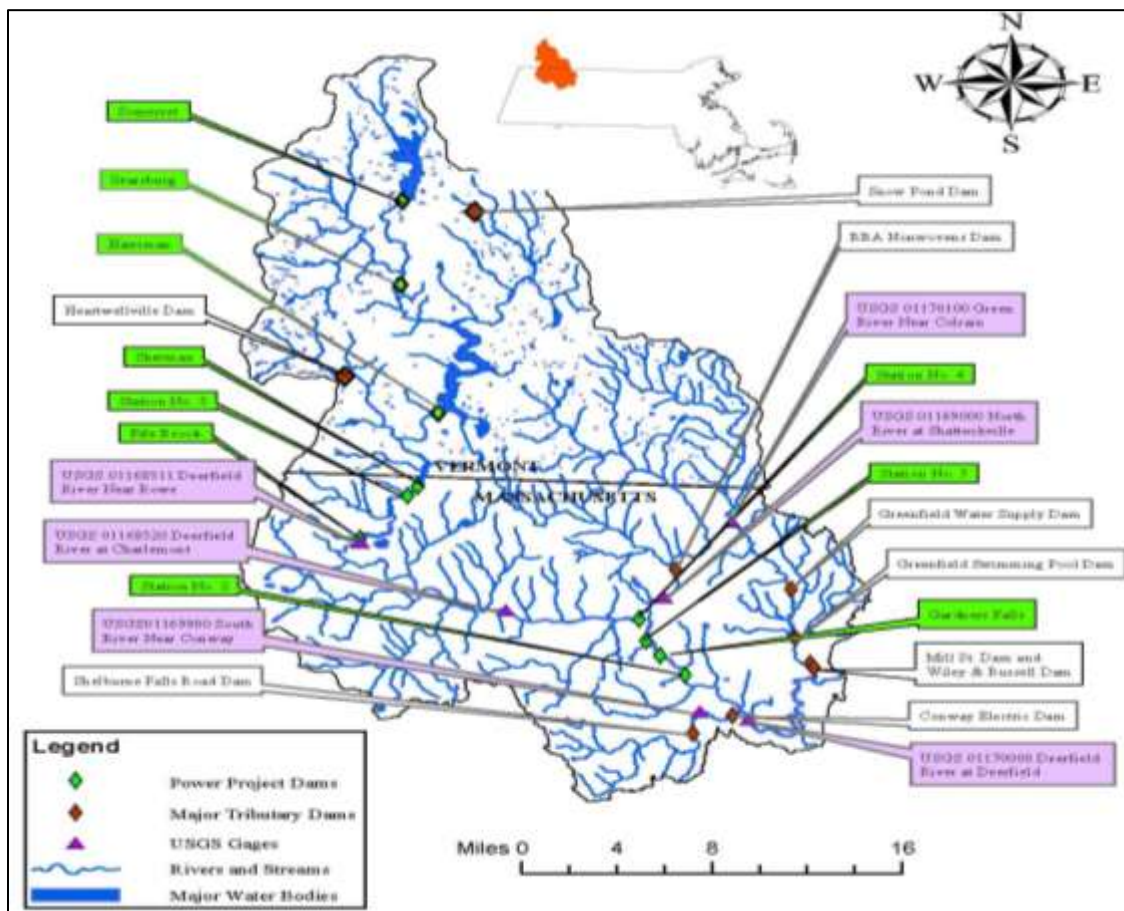


Figure 1 - Location Map

⁸ <http://www.hydroworld.com/articles/2017/04/fire-damages-4-mw-gardner-falls-small-hydro-plant-in-massachusetts.html>

The Project is situated among nine other hydroelectric facilities located on the Deerfield River. Eight of the other nine facilities are owned and operated by an affiliate of Great River Hydro, and are licensed as one project ("Deerfield River Project," FERC No. 2323).

The Deerfield River Project consists of one storage facility, Somerset (RM 66.0), and seven hydroelectric facilities; Searsburg (RM 60.3), Harriman (RM 48.5), Sherman (RM 42.0), Deerfield #5 (RM 41.2), Deerfield #4 (RM 20.0), Deerfield #3 (RM 17.0) and Deerfield #2 (RM 12.2).

The Bear Swamp Pumped-Storage Project (RM 39.0), owned by Bear Swamp Power Company, LLC and operated by Brookfield Renewable Power, is licensed by the FERC as Project No. 2669 and is located below the Deerfield No. 5 development. Note that the GFD is located between Deerfield #3 and Deerfield #2.

An overhead view of the Project is shown in Figure 2. The main components of the Project include the impoundment, dam, downstream fish passage facility, the power intake and power canal, the bypass reach, and the powerhouse and tailrace.



Figure 2 - View of Project

3. PROJECT HYDROLOGY

The GFD inflows are highly affected by the eight upstream developments on the Deerfield River owned and operated by other entities. The upstream contributing drainage area above the Project is 501 square miles.

Because the USGS gage known as Deerfield River at Charlemont, MA (01168500 – (GAGE1))⁹ is located above the Project and the USGS gage known as Deerfield River near West Deerfield, MA (01170000 – (GAGE2))¹⁰ is located below the Project, and both gages have extensive recorded daily flows, this reviewer reanalyzed the Project hydrology.

⁹ USGS gage 01168500 has recorded daily flows from June 19, 1913 through present day for a Deerfield River drainage area of 361 SQMI.

¹⁰ USGS gage 01170000 has recorded daily flows from March 29, 1904 through present day for a Deerfield River drainage area of 557 SQMI. However, recorded flows are sporadic until October of 1940.

The hydrology review employed a regression technique to find the best multiplier to apply to GAGE2 flows that predicted GAGE1 flows over the period of analysis (POA).¹¹ This analysis indicated a multiplier of $(361/557)^{0.8448}$ will estimate the flows at GAGE1 from flows at GAGE2 with the smallest standard error of about 5%.

Since the Project is located between GAGE1 and GAGE2, it is reasonable to assume that this relationship is preserved for flows on the Deerfield River between the Project and GAGE2. Therefore, the inflows for the development are best estimated by using GAGE2 flows multiplied by the drainage area ratio of $(501/557)^{0.8448}$ or 0.914.

Based on using POA daily flows the Project’s average daily flow is 1,237 CFS (See Table 1). The annual 90, 50 and 10 percent exceedance flows are 260 CFS, 932 CFS and 2,458 CFS, respectively.

The Project’s historic minimum average monthly flow is 86 CFS occurring in September of 1953; whereas the historic minimum average weekly flow is 42 CFS, occurring in the 31th week of the year (last week of July in 1962). The Project’s historic minimum average daily flow is 26 CFS occurring on July 29, 1962.

Month	Average Flow (CFS) (POR)	90 % Exceeded Flow (CFS) (POR)	50 % Exceeded Flow (CFS) (POR)	10 % Exceeded Flow (CFS) (POR)
January	1,368	678	1,230	1,991
February	1,351	724	1,223	1,903
March	1,910	755	1,514	3,326
April	2,613	827	2,166	4,790
May	1,520	415	1,117	3,115
June	951	256	610	1,919
July	583	164	412	1,109
August	585	171	408	1,096
September	574	171	387	1,026
October	846	197	534	1,652
November	1,145	284	917	2,103
December	1,390	548	1,187	2,269
Annual	1,237	260	932	2,458

A frequency analysis plot based on using annual instantaneous maximum inflows for calendar years 1941 through 2016 is shown in Figure 3.

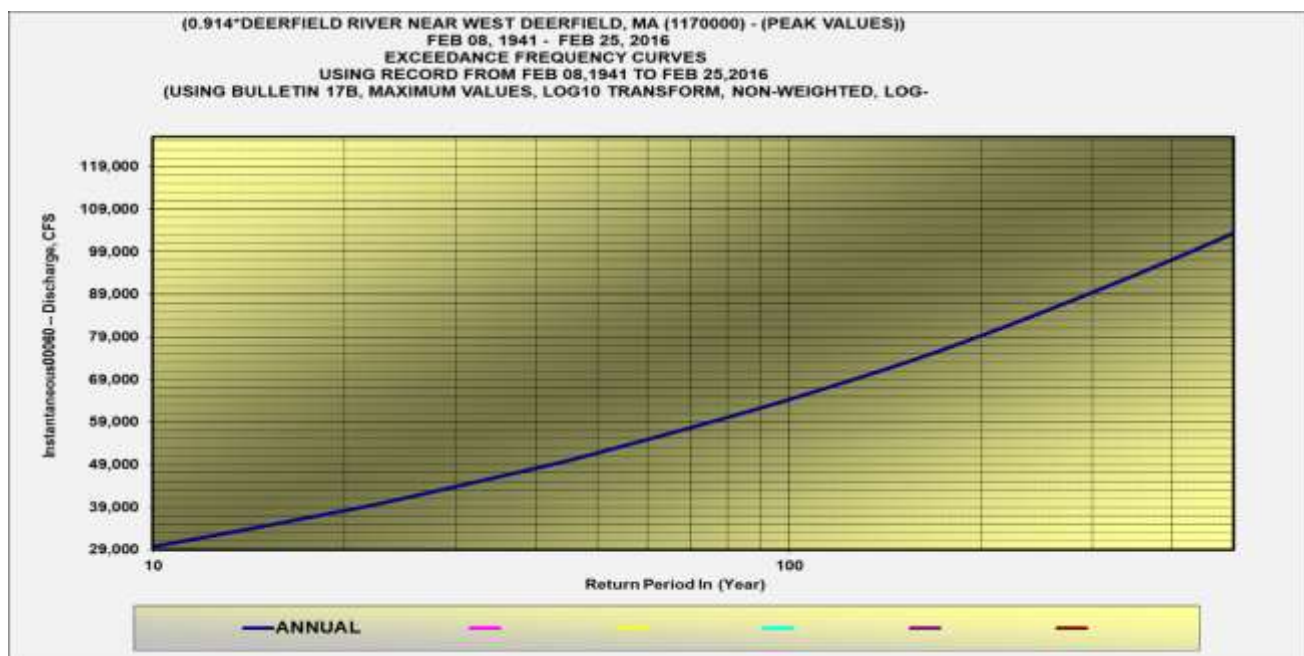


Figure 3 - Annual Frequency Curve

¹¹ The period of analysis used was from October 1, 1940 through June 22, 2017 (~77 years).

The frequency analysis is based on using a Log Pierson distribution assuming a regional skew coefficient of 0.50¹². The 10-year, 50-year and 100-year floods are 29,700 CFS, 51,700 CFS and 64,300 CFS, respectively.

Historically, over this seventy-five (75) year period, thirteen (13) annual peak inflow events have occurred during March, twenty-three (23) in April, six (6) in May, four (4) in August, four (4) in September, five (5) in October and seven (7) in December.

No year has occurred without an instantaneous maximum peak inflow of at least 5,678 CFS (April 16, 1965). The Project's instantaneous maximum peak inflow was 82,111 CFS (August 28, 2011) which resulted following Hurricane Irene's final track into the northeast portion of the United States. This corresponds to about a 250-year annual flood event.

4. PROJECT DESCRIPTION

Original construction occurred in 1904 with completion of the Project's dam and powerhouse containing two turbines. The powerhouse was expanded in 1914 with the installation of two more turbines, followed by a final expansion in 1924 with the addition of a fifth turbine. One of the original turbines, designated Unit 1, was retired in 1971 when its penstock was plugged and filled in. Currently, the Project contains four active units and is semi-automated.

4.1 Major Project Works

The major project works consist of a dam and impoundment, a power canal, an intake structure and a powerhouse (See Figure 2). Specifically, the development consists of:

- A concrete gravity dam with ogee spillway, 337 feet long with a maximum height of 30 feet at a permanent crest elevation of 332.79 feet mean sea level (MSL) and a flashboard elevation of 334.79 feet MSL,
- An impoundment 3,200 feet long, with a surface area of 21 acres, 190 acre-feet (ACFT) gross storage and 37.2 ACFT of usable storage,
- A brick and concrete powerhouse equipped with four turbine-generator units with total capacity of 3.58 MW. At the maximum hydraulic flow of the station's turbines (1,420 CFS), the tailwater elevation is 295.8 MSL ;
- A 1,300-foot long power canal 31 feet wide and 15 feet deep, and
- A double circuit 13.8 KV transmission line connecting the GFD to the Montague substation.

¹² Flood Flow Frequency Analysis – Bulletin 17B - <https://www.fema.gov/media-library/assets/documents/8403>

4.2 Zones of Effect

The applicant identified three Zones of Effect (ZOE) for the Project.

The applicant has designated a Zone of Effect #1 (ZOE 1) within the Project's impoundment (See Figure 4). The ZOE 1 extends upstream on the Deerfield River and encompasses the waters from RM 16.3 (Project dam) to the tailrace of Deerfield #3.



Figure 4 - Zone of Effect 1 - Impoundment

The applicant has designated the Project's bypassed reach as Zone of Effect #2 (ZOE 2 - from immediately below the Project dam (RM 16.3) to the tailrace of Gardners Falls (RM 15.8) (See Figure 5).



Figure 5 – Zone of Effect 2 – Bypassed Reach

Finally, the applicant has defined the confluence of the tailrace below Gardners Falls powerhouse with the Deerfield River to the start of the impoundment of the Deerfield No.2 project as Zone of Effect #3 (ZOE 3) (See Figure 6).



Figure 6 - Zone of Effect 3 – Tailrace to Downstream Impoundment

4.3 Mode of Operation

The GFD inflows are highly affected by the eight upstream developments on the Deerfield River owned and operated by other entities. Several of the upstream developments are operated primarily during the daily peak demand periods.

Article 401 of the FERC license requires the Project to provide a year round minimum flow of 150-CFS or inflow to the project reservoir, whichever is less, for the protection and enhancement of fish resources in the bypassed reach of the Deerfield River. The minimum flow is comprised of flows over the dam and flows through the downstream fish passage facility.

During high flow periods, minimum flow along with inflow in excess of the total hydraulic capacity of the powerhouse is passed over the spillway or flashboards. During low flow periods, the operation permits the impoundment to lower a maximum of 1.8 feet below top of flashboards or top of spillway crest when flashboards are not present. The Project utilizes a storage capacity of 37.2 acre-feet, afforded by the 1.8-foot elevation band to maintain a minimum flow of 150 CFS.

Assuming no inflow into the Project, it takes only three hours to lower the impoundment to its minimum allowable limit. Once all storage is used, the minimum flow requirement becomes the available inflow to the Project until such time that inflows once again exceed 150 CFS.

The minimum flow may be temporarily modified by emergencies beyond operational control, and for short periods upon mutual agreement between the owner and the Massachusetts Division of Fisheries and Wildlife (MADFW) and the U.S. Fish and Wildlife Service (USFWS).

The Project has a total authorized output capacity of 3.58 MW at a total maximum hydraulic capacity of 1,420 CFS. The powerhouse contains four Francis turbines, identified as Units 2 through Unit 5. Unit 2 is a horizontal Rodney Hunt double-runner Francis that produces a maximum power output of 500 kW at 33 feet of net head. Unit 2 can pass a maximum hydraulic capacity of 230 CFS and operate at a minimum hydraulic capacity of 92-CFS (40% of maximum). Units 3 and 4 are identical vertical S. Morgan Smith Francis turbines. Each turbine produces a maximum power output of 900 kW at 33 feet of net head. Each turbine can pass a maximum hydraulic capacity of 370 CFS and operate at a minimum hydraulic capacity of 148 CFS (40% of maximum). Unit 5 is a vertical S. Morgan Smith Francis turbine that produces a maximum power output of 1,300 kW at 33 feet of net head. Unit 5 can pass a maximum hydraulic capacity of 450 CFS and operate at a minimum hydraulic capacity of 180 CFS (40% of maximum).

Once minimum flow needs are satisfied, the powerhouse operates predominately in a limited pond-and-release mode to produce power. Excess inflow and the 1.8-foot elevation band can be used to run the turbines at various flow settings to produce power. The average annual generation (AAG) is estimated to be 8,383 MWh (average for 2002-2016) which corresponds to a plant factor of 26.7%.

No operational agreements with any upstream or downstream facilities exist. Additionally, no operational changes and no facility upgrades are contemplated.

5. REGULATORY STATUS

5.1 Summary of Project Licensing and Agency Consultation Process

On December 14, 1994, the MADEP issued a WQC for the Project¹³. The FERC licensed the Project under docket number P-2334, issuing a 40-year license on April 4, 1997 to the WMEC¹⁴. Since license issuance, the Project ownership has changed a number of times.

On June 30, 1999, WMEC transferred the license to CEEMI. On March 3, 2008, the license was transferred to CEEMLLC. CEEMLLC changed its name to NAEA in June 2008. On February 20, 2012, NAEA changed its name to Essential¹⁵. The application states on April 13, 2017, Essential transferred ownership to NHLLC. My review of the FERC docket indicates this transfer occurred on June 5, 2017¹⁶.

Since the WQC is over 10 years old, a response from the MADEP was requested by the applicant verifying that the original WQC is still in effect and appropriate. On April 25, 2017, the MADEP¹⁷ stated that:

- The ZOE's at the Project are not part of a water quality limited area;
- The Project does not contribute to a limitation of designated uses of the Deerfield River in these ZOE's;
- The WQC issued for the Project on December 14, 1994 is still in effect.

The following FERC orders transpired throughout the last LIHI certification period:

- On March 13, 2012, FERC authorized name change for owner of Project to be Essential¹⁸.
- On January 7, 2013¹⁹, FERC issued an order amending approved Cultural Resources Management Plan (CRMP) for Project.
- On July 11, 2014²⁰, FERC granted an extension of time to file the Form No. 80 for the Project.
- On March 1, 2016²¹, FERC authorized name change for owner of Project to Essential Power Massachusetts, LLC.
- On May 16, 2016²², FERC modified the license and suspended license articles 403 and 404. Article 403 required downstream fish passage facilities operate from April 1 through June 15 and from September 15 to November 15 each year. Article 404 required monitoring the effectiveness of the downstream fish passage facilities in passing Atlantic salmon smolts.
- On January 5, 2017²³, FERC approved the transfer of license to NHLLC.
- On March 9, 2017²⁴, FERC granting an extension of time to NHLLC to file documents as required by ordering paragraph (C) of the January 5, 2017 order approving transfer of License.

¹³ WQC - <http://www.lowimpacthydro.org/assets/files/Gardner%20Falls%20text/MDEP%20Water%20Quality%20Certificate%20%281994-12-14%29.pdf>.

¹⁴ FERC license - <https://elibrary.ferc.gov/idmws/common/OpenNat.asp?fileID=3076322>

¹⁵ <https://elibrary.ferc.gov/idmws/common/OpenNat.asp?fileID=12903335>

¹⁶ <https://elibrary.ferc.gov/idmws/common/OpenNat.asp?fileID=14607999>

¹⁷ See Appendix A - Attachment A3 for MADEP response letter pertaining to WQC.

¹⁸ <https://elibrary.ferc.gov/idmws/common/OpenNat.asp?fileID=12914024>

¹⁹ <https://elibrary.ferc.gov/idmws/common/OpenNat.asp?fileID=13148452>

²⁰ <https://elibrary.ferc.gov/idmws/common/OpenNat.asp?fileID=13590621>

²¹ <https://elibrary.ferc.gov/idmws/common/OpenNat.asp?fileID=14159119>

²² <https://elibrary.ferc.gov/idmws/common/OpenNat.asp?fileID=14249204>

²³ <https://elibrary.ferc.gov/idmws/common/OpenNat.asp?fileID=14459041>

²⁴ <https://elibrary.ferc.gov/idmws/common/OpenNat.asp?fileID=14514277>

5.2 Compliance Issues

A single incident report resulted in a non-compliance issue occurring during the prior LIHI certification period:

On November 19, 2013²⁵, FERC ruled that the violation of the minimum allowable impoundment elevation at the dam on August 12, 2013 would not be considered a violation of Article 401 of the license. FERC's decision was based on the owner reporting the incident on time (within 10 days), the violation being due to a malfunction in equipment, the owner taking immediate action to return the project to normal headwater elevations, no occurrence of known adverse effects to fisheries resources, and no negative reports received as a result of the incident.

There have been a few "extension of time" requests by the owners over the last 5 years. In all these cases, FERC has granted each request.

6. PUBLIC COMMENTS RECEIVED

On March 4, 2017, LIHI received the original application for recertification using the new Certification Handbook (June 2016 version). The Stage I recertification review was completed on March 12, 2017 by Gary M. Franc, concluding that a Stage II review was required with requests for additional information to be provided by the applicant. The revised Stage II application was received from the applicant on June 13, 2017. Public comment on this revised application terminated on August 13, 2017.

On August 10, 2017, the Connecticut River Conservancy (CRC)²⁶ filed comments on the application and it has been posted on the LIHI website. The CRC documented its concerns regarding the Project's operation, fish passage and recreation. The CRC states the facility is not able to balance power generation with impacts to natural resources, historical resources, and recreation on the Deerfield River when it is not even generating power and recommends that LIHI suspend certification and review of recertification until the project becomes operational. My summary of findings will consider CRC's concerns as discussed in Section 7.1 of this document.

The lists of resource agency contacts contained within the LIHI certification application that have been acknowledged knowledgeable on the operational issues with the Project are:

- John P. Sheppard, Massachusetts Department of Fish and Game, Director – 617.727.1843 - jack.sheppard@state.ma.us
- Melissa Grader, United States Fish and Wildlife Service, Fish and Wildlife Biologist – 413.548.9138 - Melissa_Grader@fws.gov
- Robert Kubit, Massachusetts Department of Environmental Protection – 508.767.2854 - robert.kubit@state.ma.us
- Caleb Slater, Massachusetts Division of Fisheries and Wildlife – 508.389.6331 - Caleb.Slater@MassMail.State.MA.US
- Thomas French, Massachusetts Division of Fisheries and Wildlife – 508.389.6360 - tom.french@state.ma.us
- Brona Simon, Massachusetts Historical Commission, State Historic Preservation Officer (SHPO) - 617.727.8470 - mhc@sec.state.ma.us

²⁵ <https://elibrary.ferc.gov/idmws/common/OpenNat.asp?fileID=13397491>

²⁶ CRC - Andrea F. Donlon, River Steward – 413-772-2020 Ext 205 - adonlon@ctriver.org. Until April of 2017, the CRC was known as the Connecticut River Watershed Council (CRWC).

On June 19, 2017, this reviewer emailed these individuals the following:

"Attached is the LIHI application provide by the owner of the Gardners Falls Project. I am the LIHI reviewer tasked with determining whether the Project should be LIHI certified. I am emailing you today because you have been identified in the application as resource agency and non-governmental organization contacts familiar with the Project. I would appreciate your perspective regarding the Project's proposed operation with regard to satisfying its licensed environmental obligations (FERC articles) and your views pertaining to the Project being "low impact". Without your input, my review can only be based on the documents found in the FERC docket. Thank you for your time in this matter.

Please refer to the LIHI website for more details on the application and LIHI low impact criteria. [http://lowimpachydro.org/.](http://lowimpachydro.org/)"

On June 26, 2017, I received a voice mail from Caleb Slater (MADFW) stating that the MADFW would not be commenting on the LIHI recertification for the Project.

7. CONSISTENCY WITH LIHI CRITERIA AND ISSUES IDENTIFIED

Since the issuance of the last LIHI certification in 2011, material changes have occurred at the Project with regard to elimination of required downstream fish passage and the change in the CRMP due to effects from historical flood damage done by Hurricane Irene. In addition, the LIHI criteria and certification process have changed substantially since the previous certification of the Project.

7.1 Summary of the Reviewer's Findings

This section summarizes the record for Stage II recertification. My review of the application in terms of meeting LIHI's criteria is discussed below. This review concentrates on the operation of the Project during the previous LIHI certification period, since February of 2011. A FERC e-library search was conducted to verify some claims in the application.

Criterion A – Ecological Flow Regimes

The application states that the Project satisfies the LIHI criterion A in ZOE 2 by meeting alternative standard A-2²⁷. ZOE 1 and ZOE 3 are viewed to be meeting alternative A-1²⁸.

Article 401 of the FERC license requires the development for a Minimum Flow Monitoring Plan (MFMP). On May 4, 1998²⁹, FERC approved the MFMP for the Project. The MFMP requires the Project to provide a year round minimum flow of 150-CFS or inflow to the project reservoir, whichever is less, for the protection and enhancement of fish resources in the bypassed reach (ZOE 2) of the Deerfield River. This minimum flow is comprised of the total flows over the dam and flows through the downstream fish passage facility. As part of the MFMP, the owner is required to file an annual report verifying that minimum flows have been met during the prior calendar year. The latest annual compliance report was filed for calendar years 2016 on January 12, 2017³⁰.

²⁷ Agency Recommendation - The flow regime at the Facility was developed in accord with a site-specific, science-based agency recommendation.

²⁸ Not Applicable/De Minimis Effect

²⁹ <https://elibrary.ferc.gov/idmws/common/OpenNat.asp?fileID=3120458>

³⁰ <https://elibrary.ferc.gov/idmws/common/OpenNat.asp?fileID=14464932>

The minimum flow may be temporarily modified if required by operating emergencies and for short periods upon agreement between the owner and the MADFW. The FERC is required to be notified no later than ten days after each incident.

Throughout the previous LIHI certification period, the Project experienced a single incident on August 12, 2013, where the minimum allowable drawdown limit was exceeded due to equipment failure. In a November 19, 2013 letter, FERC ruled the deviation a non-violation of Article 401 of the license, since the owner took immediate action to return the project to normal headwater elevations, no occurrence of known adverse effects to fisheries resources, and no negative reports received as a result of the incident.

The CRC states the Project has operated at reduced output or ceased operations altogether due to seepage issues over the last six years and that this condition disqualifies the Projects as being low impact. Although the Project has had difficulties in operating over the last LIHI certification period, its operation or non-operation has not resulted in any additional violations of the MFMP.

My review found that there has been no change in the mode of operation of the Project (limited pond-and-release) since it was LIHI certified in 2011 and that FERC's Environmental Inspection Report, conducted on August 4, 2016³¹ concluded there were no follow-up items requiring corrective action or non-compliance matters identified during the inspection. Additionally, since no additional minimum flow excursions have been repeated since August 2013, this LIHI criterion is satisfied.

Criterion B – Water Quality

There has been no change in the water quality within any ZOE of the Project facilities since it was certified by LIHI in 2011. The latest MADFW report of the status of the Project's Water Quality, Sections 303(d), 305(b) and 314 waters is attached in Appendix A and applies to each of the ZOEs³². The waters are classified as meeting the standards of Section 303 (b) for each ZOE. The Project is not located on a water quality limited river reach and no agency recommendations related to water quality have been issued.

On December 14, 1994, the MADEP issued a WQC for the Project. Since the WQC is over 10 years old, a response from the MADEP was requested by the applicant verifying that the original WQC is still in effect and appropriate.

On April 25, 2017³³, the MADEP's response stated that:

- The ZOEs at the Project are not part of a water quality limited area;
- The Project does not contribute to a limitation of designated uses of the Deerfield River in these ZOEs;
- The WQC issued for the Project on December 14, 1994 is still in effect.

The Project satisfies the LIHI criterion B in all ZOEs by meeting alternative standard B-2³⁴ given that it is not part of a water quality limited area and the Project does not contribute to a limitation of designated uses. Based on my review, this LIHI criterion is satisfied.

³¹ <https://elibrary.ferc.gov/idmws/common/OpenNat.asp?fileID=14335118>

³² See Appendix A – Attachment A-4

³³ See Appendix A – Attachment A-3

³⁴ Agency Recommendation - The facility is in compliance with all water quality conditions contained in a science-based agency recommendation providing reasonable assurance that water quality standards will be met for all waterbodies that are directly affected by the facility

Criterion C – Upstream Fish Passage

The Deerfield River Watershed Assessment Report, 2004-2008³⁵, listed five migratory fish (Atlantic salmon, American eel, American shad, sea lamprey and blueback herring) that have occurred historically within any of the Projects ZOEs. None of these fish appears to be present in the Deerfield River today.

Regarding upstream fish passage, the August 10, 2017 letter from the CRC states:

- The Atlantic salmon restoration program has ceased on the Connecticut River within Massachusetts. All hydro projects on the Deerfield River have no other requirements for upstream fish passage;
- Although the MADDW conducted a fish survey in 2016, CRC has not seen the data for this section of river;
- Current FERC licensing policy would likely require upstream fish passage for American eel and possibly sea lamprey;
- No upstream fish passage facilities, combined with peaking flows on the Deerfield, continue to frame our position that any dam on the Deerfield River system does not merit being considered a low impact hydropower facility.

The cessation of Atlantic salmon restoration is based on the actions of the MADFW due to current overall river conditions. Although upstream passage is currently not mandated, the USFWS has designated its authority to mandate upstream passage in the future if a need should develop. CRC belief that FERC would require upstream fish passage if licensing projects on the Deerfield River today is conjecture. My belief is that FERC would most likely follow the recommendations of the Federal and State environmental agencies.

There has been no change in the upstream fish passage requirement of the Project since it was certified by LIHI in 2011. No upstream fish passage is deemed necessary since no upstream fish passage facility is installed at the downstream Deerfield #2 Project.

The Project satisfies the LIHI criterion C in all ZOEs by meeting alternative standard C-1³⁶. Based on my review, this LIHI criterion is satisfied.

Criterion D – Downstream Fish Passage

As background, license article 403 requires downstream fish passage facilities operate from April 1 through June 15 and from September 15 to November 15 each year. Article 404 required monitoring the effectiveness of the downstream fish passage facilities in passing Atlantic salmon smolts. On June 14, 2001³⁷, in response to articles 403 and 404 of the license, FERC approved the final downstream fish passage effectiveness report with recommended modifications. The approved downstream fish passage facility consists of a minimum flow/fish passage gate and a floating louver to guide downstream migrating fish to the gate. Fish were expected to pass through the gate into a plunge pool constructed at the south end of the dam.

On May 16, 2016³⁸, based on the termination of MADFW's restocking program upstream of the Project, FERC modified the license and suspended license articles 403 and 404. Therefore, the downstream fish passage requirement is suspended but may be re-imposed if MADFW restarts its restocking efforts of Atlantic salmon upstream of the Project.

³⁵ See Appendix A – Attachment A-8

³⁶ Not Applicable/De Minimis Effect - There are no migratory fish in the vicinity of the facility and the facility is not the cause of extirpation of such species if they had been present historically.

³⁷ <https://elibrary.ferc.gov/idmws/common/OpenNat.asp?fileID=6009154>

³⁸ <https://elibrary.ferc.gov/idmws/common/OpenNat.asp?fileID=14249204>

The Project satisfies the LIHI criterion D in ZOE 1 by meeting alternative standard D-2³⁹ and in ZOE 2 and ZOE 3 by meeting alternative standard D-1⁴⁰. A review of the FERC docket, the LIHI application and correspondence with Resource agencies confirms that the Project has been in general compliance with downstream fish passage and protection issues related to the Project.

Given that the owner supplements releases over the spillway to compensate for reduced downstream fish passage flow to maintained a 150 CFS minimum flow within the bypassed reach, I conclude that this LIHI criterion has been satisfied.

Criterion E – Watershed and Shoreline Protection

The application states that the Project satisfies the LIHI criterion E in all ZOE's by meeting alternative standard E-1⁴¹. The FERC license does not contain any articles requiring a shoreline management plan for the Project or any shoreline or watershed protection items. My review of the FERC docket indicates there has been no activities or agency concerns pertaining to watershed or shoreline protection throughout the previous LIHI certification period within any of the Project's ZOE's.

However, based on a June 11, 1997 FERC approval⁴² for a May 19, 1997 request for exemption from filing an Emergency Action Plan (EAP), FERC did require the owner to review circumstances upstream and downstream of the project and to inform FERC of any changed conditions no later than December 31 of each year. My interpretation of this requirement is that FERC be inform only in years where upstream or downstream land use changes have occurred. The Project has taken the position of sending an annual notification to FERC. The latest notification was sent on January 13, 2017⁴³.

Based on my review, this LIHI criterion is satisfied.

Criterion F – Threatened and Endangered Species Protection

The Deerfield River Watershed Assessment Report, 2004-2008⁴⁴, lists the fish species in the Massachusetts portion of the Deerfield River Watershed (See Table 2). The Project ZOE's are located on the Main stem of the Deerfield River.

Species	Distribution	Occurrence	Status
Sea lamprey	Main stem, Green River	Native	
American eel	Branch North River, Green River	Native	
Gizzard shad	Main stem	Native	
Common carp	Main stem, Green River	Introduced	
Eastern silvery Minnow	Main stem	Native	Special Concern
Golden shiner	Cold River, Pelham Brook, Mill Brook,	Native	

³⁹ Standard D-2. Agency Recommendation - The Facility complies with a science-based resource agency downstream fish passage or fish protection recommendations, which may include provisions for ongoing monitoring and effectiveness determinations that have been issued for the Facility.

⁴⁰ Standard D-1. Not Applicable/De Minimis Effect - The facility does not create a barrier to downstream passage, or there are no migratory fish in the vicinity of the facility; if migratory fish had been present historically, the Facility is not responsible for extirpation of such species; the Facility does not contribute adversely to the sustainability of riverine fish populations or to their access to habitat necessary for the completion of their life cycles.

⁴¹ Standard E-1. Not Applicable/De Minimis Effect - There are no lands associated with the facility under ownership and control of the applicant that have significant ecological value for protecting water quality, aesthetics, or low-impact recreation, and there has been no Shoreline Management Plan (SMP) or similar protection required at the facility; or the facility has no direct or indirect project-related land ownership, excluding lands used for power generation and transmission, flowage rights and required developed recreational amenities.

⁴² <https://elibrary.ferc.gov/idmws/common/OpenNat.asp?fileID=8186238:1>

⁴³ <https://elibrary.ferc.gov/idmws/common/OpenNat.asp?fileID=14465672>

⁴⁴ See Appendix A – Attachment A-8

Table 2 - Fish Species Present in the Massachusetts portion of the Deerfield River Watershed (Source: Hartel et al 2002)			
Species	Distribution	Occurrence	Status
	South River, North River, Green River		
Common shiner	Brook, Clesson Brook, South River, North River, Green River	Native	
Bridle shiner	Green River	Native	Special Concern
Mimic shiner	Main stem	Introduced	
Spottail shiner	Main stem,	Green River	Native
Northern redbelly dace	Green River	Native	Endangered
Blacknose dace	All	Native	
Longnose dace	All	Native	
Creek chub	All	Native	
Fallfish	Main stem, Clesson Brook, North River, South River, Green River	Native	
Longnose sucker	Main stem, Cold River, Pelham Brook, Mill Brook, Clesson Brook, North River, South River	Native	Special Concern
White sucker	All	Native	
Brown bullhead	All		
Channel catfish	Main stem, South River	Introduced	
Chain pickerel	Cold River, Chickley River, Pelham Brook, North River, South River, Green River	Native	
Northern pike	Main stem	Introduced	
Rainbow trout	Mill Brook, Clesson Brook	Introduced	
Rainbow trout	Main stem, North River		
Atlantic salmon	Main stem, Cold River, South River, Green River	Stocked	
Brown trout	All	Introduced (some Reproducing and some Stocked only)	
Brook trout	All	Native (some Reproducing and some Stocked only)	
Banded killifish	Main stem	Native	
Slimy sculpin	All	Native	
Rock bass	Main stem	Introduced	
Redbreast sunfish	Main stem	Native	
Pumpkinseed	Main stem, Cold River, Pelham Brook, Chickley River, South River, Green River	Native	

Species	Distribution	Occurrence	Status
Bluegill	Main stem, Green River, South River	Introduced	
Smallmouth bass	Main stem, Cold River, Pelham Brook, Chickley River, North River, South River, Green River	Introduced	
Largemouth bass	Main stem, Chickley River, South River	Introduced	
Black crappie	Main stem, Pelham Brook, South River	Introduced	
Tessellated darter	Main stem, North River, South River, Green River	Native	
Yellow perch	Main stem, Cold River, Chickley River, North River, South River, Green River	Native	

The application states that the Project satisfies the LIHI criterion F in all ZOE's by meeting alternative standard F-2⁴⁵. The USFWS reports that there are no threatened and endangered species located in the Project's ZOE's⁴⁶.

The June 7, 2017⁴⁷ revised results of a Massachusetts Endangered Species Act (MESA) Information Request Form for the Project from the MADFW lists species within each ZOE. In summary, the report indicates that there are five species, two plant, one reptile and two insect species found near the ZOE's. The report lists no fish species. According to the MADFW, there are no threatened and endangered fish species in the Massachusetts portion of the Deerfield River Watershed.

On July 6, 2017, I called Mr. Caleb Slater with the MADWF to discuss the June 7, 2017 letter and to request an email documenting that the Project had no effects on listed species. Mr. Slater had no concerns with my request and stated that he had discussed the Project with Ms. Marold⁴⁸ and that both agreed the Project's operation has no detrimental effect on the listed species. He also gave me Ms. Marold's email address and said that she would provide email documentation if I requested.

I emailed Ms. Marold on July 6, 2017 requesting email documentation. On July 13, 2017 and July 20, 2017, I left voice mail messages with Ms. Marold about a response. To date, I have not received any response. Therefore, based on my phone conversation with Mr. Slater, I conclude that no issues pertaining to threatened, endangered species protection exists, and the project passes this criterion.

⁴⁵ Standard F-2. Finding of No Negative Effect - There are listed species in the area, but the facility has been found by an appropriate resource management agency to have no negative effect on them, either recently or in the past.

⁴⁶ [https://www.fws.gov/newengland/EndangeredSpec-Consultation Project Review.htm](https://www.fws.gov/newengland/EndangeredSpec-Consultation%20Project%20Review.htm)

⁴⁷ See Appendix A – 6/7/2017 MADFW letter.

⁴⁸ Misty-Anne Marold, Endangered Species Review Biologist, MADFW, (508) 389-6356, misty-anne.marold@state.ma.us

Criterion G – Cultural and Historic Resources Protection

The Project satisfies the LIHI criterion G for ZOE 2 and ZOE 3 by meeting alternative standard G-1⁴⁹. The LIHI criterion G for ZOE 1 is satisfied by meeting alternative standard G-2⁵⁰. The Project's historic structures are located in ZOE 1 on the east bank of the Deerfield River. There has been a minor change in the Project's Cultural Resources Management Plan (CRMP) since LIHI certification in 2011 caused by damage done by Hurricane Irene on August 28, 2011 to historic structures located in this ZOE⁵¹.

On February 10, 2012, the owner conducted an annual visual site inspection of two potentially eligible archaeological sites located on the Project's impoundment. The Project's old stone foundation was found intact. However, the riverbank in the impoundment has changed dramatically. The prior Gardners Falls cave could not be located. On January 7, 2013, FERC issued a revised CRMP⁵² eliminating the monitoring and reporting on the status of the prehistoric rock shelter, since it no longer exists. Additional information on this change is contained in the Cultural Resources section of FERC's Environmental Inspection Report, dated August 18, 2016⁵³. FERC found that no follow-up on any aspect of Cultural Resources matters was necessary.

On June 20, 2017, the owner filed the Project's required annual reports of cultural resources activities for years 2014, 2015 and 2016 with FERC⁵⁴. Upon review of its files, the owner determined that these reports were mistakenly not provided. On June 16, 2017, the owner conducted a visual inspection of the foundation site and took photographs. The foundation site was in a condition similar to prior periods with no evidence of new erosion, looting or vandalism.

On June 21, 2017⁵⁵, the owner sent a letter informing SHPO that repairs are needed. The owner intends to repair the concrete floor in the Project's powerhouse and replace a tailrace pipe because the tailrace pipe collapsed creating a sinkhole that also damaged the powerhouse floor. The owner asked the SHPO to review the proposed repairs pursuant to section 106 of the National Historic Preservation Act.

Assuming the owner follows SHPO recommendations during the repairing of the powerhouse, the Project complies with all requirements regarding cultural resource protection, mitigation or enhancement. Therefore, the project passes this criterion.

Criterion H – Recreational Resources

The application states that the Project satisfies the LIHI criterion H in all ZOEs by meeting alternative standard H-2⁵⁶. In ZOE 1 on the west bank are toilet facilities, a picnic area and a scenic path. In ZOE 2 on the west bank are a scenic path and toilet facilities. On the River in ZOE 3, below the tailrace on the opposite bank is Wilcox Hollow. Many kayakers put-in here to kayak downstream to Deerfield #2. Hiking trails can also be traversed from here downstream.

⁴⁹ Standard G-1 - There are no cultural or historic resources present on facility lands that can be potentially threatened by construction or operations of the facility, or facility operations have not negatively affected those that are present, either recently or in the past.

⁵⁰ Standard G-2. Approved Plan: The facility complies with approved state, provincial, federal, and recognized tribal plans for protection, enhancement, or mitigation of impacts to cultural or historic resources affected by the facility.

⁵¹ <https://elibrary.ferc.gov/idmws/common/OpenNat.asp?fileID=12905161>

⁵² <https://elibrary.ferc.gov/idmws/common/OpenNat.asp?fileID=13148452>

⁵³ <https://elibrary.ferc.gov/idmws/common/OpenNat.asp?fileID=14335124>

⁵⁴ <https://elibrary.ferc.gov/idmws/common/OpenNat.asp?fileID=14619244>

⁵⁵ <https://elibrary.ferc.gov/idmws/common/OpenNat.asp?fileID=14619351>

⁵⁶ Standard H-2. Agency Recommendations - If there are comprehensive resource agency recommendations for recreational access or accommodation (including recreational flow releases) on record, or there is an enforceable recreation plan in place, the Facility demonstrates that it complies with those.

On January 30, 2014⁵⁷, FERC reminded the Owner of its obligation to gather recreational use data at the Project, for a 12-month period beginning no later than March 15, 2014. On July 1, 2014⁵⁸, the owner requested a time extension until April 1, 2016 to complete this task. On March 24, 2016⁵⁹, the owner filed the Form 80 recreational data to FERC.

There has been no change in the Recreational Resource requirement of the Project since it was certified by LIHI in 2011. The latest demonstration of compliance of the Project's Recreational Resource requirement is FERC's Environmental Inspection Report, dated August 18, 2016. The FERC officials found that no follow-up on any aspect of the Project was necessary.

In CRC's letter they state that at Wilcox Hollow, recreational facilities were acceptable and functional. However, access by the state-maintained road was very difficult. On the Buckland side of the river, access was barred by a gate and signage. There was no explanation in the signs about construction or when access might again be granted. All accessible picnic tables were in a bad state of disrepair, and there was no information on the sign.

On August 28, 2017, I discussed this issue with the Owner. They stated they are reviewing CRC's recreational concerns and will be addressing any issues found.

Given HSE follows through on this review of concerns, it is my view that the project is currently in compliance with all FERC requirements related to recreational use. Therefore, the project passes this criterion.

7.2 Recommendations of the Reviewer

Based on my review of information submitted by the applicant, the additional documentation noted herein, public comments submitted in writing and communications with resource agencies and other entities, I recommend that the Gardners Falls Dam Project (P-2334), LIHI Certification No. 80, be recertified, with a term of five years, conditioned on the following:

1. The station is currently being returned to service absent Unit 2. The Unit 2 tailrace is scheduled for replacement in 2017. The Owner expects to recommence operations once its engineers have determined that the Secant Wall is operating effectively. The SHPO was requested on June 21, 2017, to review the proposed repair to the powerhouse pursuant to section 106 of the National Historic Preservation Act. The Owner must notify LIHI of any recommendations/negotiations agreed to once SHPO's review is completed.
2. License articles 403 and 404 have been suspended since May 16, 2016, necessitating that the Owner supplements releases over the spillway to compensate for the eliminated downstream fish passage flow to maintained a 150 CFS minimum flow within the bypassed reach. The Owner needs to continue this operation going forward and notify LIHI if any minimum flow excursion occurs in the future.
3. Within 45 days after LIHI recertification, the Owner needs to respond to CRC's August 10, 2017 letter. In particular, an adequate discussion of CRC's recreation concerns is needed.

⁵⁷ <https://elibrary.ferc.gov/idmws/common/OpenNat.asp?fileID=13452217>

⁵⁸ <https://elibrary.ferc.gov/idmws/common/OpenNat.asp?fileID=13583865>

⁵⁹ <https://elibrary.ferc.gov/idmws/common/OpenNat.asp?fileID=14179841>

APPENDIX A
CORRESPONDENCE

155 FERC ¶ 62,117
UNITED STATES OF AMERICA
FEDERAL ENERGY REGULATORY COMMISSION

Essential Power Massachusetts, LLC

Project No. 2334-055

ORDER MODIFYING AND SUSPENDING LICENSE ARTICLES 403 AND 404

(Issued May 16, 2016)

1. On March 30, 2016, Essential Power Massachusetts, LLC, licensee for the Gardners Falls Project No. 2334, filed a request to discontinue operation of the downstream fish passage facilities required by Article 403 and 404 of the project license.¹ The project is located on the Deerfield River in Franklin County, Massachusetts. The project does not occupy federal lands.

REQUIREMENTS AND BACKGROUND

2. License Article 403 requires the licensee to file, for Federal Energy Regulatory Commission (Commission) approval, detailed design drawings of the proposed downstream fish passage facilities together with a plan and schedule to construct and install the facilities. The licensee is required to prepare the design drawings and schedule after consultation with the U.S. Fish and Wildlife Service (FWS) and the Massachusetts Division of Fisheries and Wildlife (Massachusetts DFW). In addition, the Article requires that the facilities operate April 1 through June 15 and from September 15 to November 15 each year.

3. License Article 404 requires the licensee to file, for Commission approval, a plan to monitor the effectiveness of the permanent downstream fish passage facilities required by Article 403 and associated operational flows to safely and efficiently pass Atlantic salmon smolts down the Deerfield River past the Gardners Falls Project. The licensee's plan was approved by order dated June 1, 2001² and the as-built drawings under Article 403 were approved by the Commission on November 1, 2002.

¹ Order Issuing New License (79 FERC ¶ 61,007), issued April 4, 1997.

² Order Approving Final Downstream Fish Passage Effectiveness Report and Recommended Modifications (95 FERC ¶ 62,225).

LICENSEE'S REQUEST

4. In its filing, the licensee requested to discontinue operation of the downstream fish passage facilities approved in Article 403, suspend monitoring of the facilities required in Article 404, and delete Exhibit F drawings F-8 through F-18 from its project license. On May 6, 2016, Commission staff requested that the licensee clarify if downstream facilities would actually physically be removed from the project, necessitating deletion of certain Exhibit F drawings. In response, the licensee stated that facilities would not physically be removed and would therefore rescind its request to delete the aforementioned Exhibits.³

CONSULTATION

5. The licensee's filing indicates that it was notified by the Massachusetts DFW on February 24, 2016, that it was no longer necessary for hydroelectric project owners on the Deerfield River to operate downstream fish passage facilities at their projects for Atlantic salmon smolts beginning in 2016. In its letter, it stated that the Massachusetts Atlantic salmon restoration effort ended in 2013 and that it expected any Atlantic salmon fry to smolt and out-migrate after two years in freshwater (2015). The FWS concurred with the Massachusetts DFW's comments and the licensee's request on March 24, 2016.

CONCLUSION

6. Articles 403 and 404 were intended to support Atlantic salmon restoration efforts in the Deerfield River. The resource agencies agree that the efforts are not likely to provide any measureable benefit without continued stocking efforts and that the two years should have provided sufficient time for any fish stocked in 2013 to smolt and out-migrate. In the event that the Massachusetts DFW reinitiates Atlantic salmon restoration efforts in the future, the Commission reserves the right to reinstate Articles 403 and 404. For these reasons, the licensee's request to discontinue operation of downstream fish passage facilities and suspend the requisite effectiveness monitoring is reasonable and therefore, should be approved.

³ Email communication on May 9, 2016 with the licensee and Joseph Enrico, Commission staff.

The Director orders:

(A) Essential Power Massachusetts, LLC's (licensee) request, filed with the Federal Energy Regulatory Commission (Commission) on March 30, 2016, to suspend the requirements of Articles 403 and 404 of the license for the Gardner Falls Hydroelectric Project No. 2334, as modified in paragraph B, is approved.

(B) The Commission reserves the right to reinstate Articles 403 and 404 based on fishery management information provided by the licensee, the U.S. Fish and Wildlife Service or the Massachusetts Division of Fisheries and Wildlife.

(C) This order constitutes final agency action. Any party may file a request for rehearing of this order within 30 days from the date of its issuance, as provided in section 313(a) of the Federal Power Act, 16 U.S.C. § 8251 (2012), and the Commission's regulations at 18 CFR § 385.713 (2015). The filing of a request for hearing does not operate as a stay of the effective date of this order, or of any other date specified in this order. The licensee's failure to file a request for rehearing shall constitute acceptance of this order.

Thomas J. LoVullo
Chief, Aquatic Resources Branch
Division of Hydropower Administration
and Compliance

Document Content(s)

p-2334-055.DOC.....1-3



Essential Power Massachusetts, LLC

15 Agawam Ave
West Springfield, MA 01089
413-730-4721

January 13, 2017

VIA E-File

John Spain, P.E.
Regional Engineer
Federal Energy Regulatory Commission
Division of Dam Safety and Inspections
New York Regional Office
19th West 34th Street – Suite 400
New York, NY 10001

Gardners Falls Project
P-2334-MA (NATDAM No. MA00853)
EAP Exemption Annual Reconnaissance

Dear Mr. Spain:

Essential Power Massachusetts, LLC owns and operates the Gardners Falls Project on the Deerfield River in Franklin County, MA. This letter is to notify the Commission that there have been no changes in land use upstream or downstream of the Gardners Falls Project during the 2016 calendar year that would affect the hazard potential classification. This notification is being filed in accordance with 18 CFR §12.21 and the Commission's Letter dated June 11, 1997, exempting the Project from EAP requirements.

If you have any questions, or require additional information, please do not hesitate to contact me (413) 730-4721 (email: kimmarsili@cogentrix.com)

Sincerely,

A handwritten signature in black ink that reads "Kim Marsili".

Kim Marsili
General Manager,
Gardner Falls Facility

cc: Tony Halcomb (Cogentrix)
John Collins (Cogentrix)



February 29, 2012

VIA E-FILING AND FEDERAL EXPRESS

Kimberly Bose, Secretary
Federal Energy Regulatory Commission
888 1st Street, NE, Room 1A
Washington, DC 20426

Gardners Falls Project FERC No. 2334
2012 Annual Report of Cultural Resources Activities

Dear Secretary Bose:

EP Energy Massachusetts LLC (formally NAEA Energy Massachusetts, LLC) owns and operates the Gardners Falls Hydroelectric Project (No. 2334) located on the Deerfield River, Massachusetts. The Cultural Resource Management Plan (CRMP) for the project requires an annual report of cultural resource activities for the project. On behalf of our client, EP Energy Massachusetts LLC herein files an original and eight copies of the annual report of cultural resource activities for the Gardners Falls Project. This report complies with the Cultural Resources Management Plan (CRMP), approved by the Federal Energy Regulatory Commission (FERC) on November 17, 1998, and Section II paragraph D of the Programmatic Agreement (PA).

On August 28, 2011 a historic flood caused by 10-inches of rain from Tropical Storm Irene devastated the area near the Gardners Falls Project located in Franklin County, MA in the Town of Buckland, across the river from the Town of Shelburn (Attachment 1). On February 10, 2012, an employee of EP Energy conducted the annual visual site inspection of two potentially eligible archaeological sites located on the Gardners Falls impoundment. The Gardners Falls old stone foundation was found intact and documented in the attached photo (Attachment 2). However, due to the historic flooding of the Deerfield River caused by Tropical Storm Irene, the riverbank in the Gardners Falls impoundment has changed dramatically. The EP Energy employee was unable to find any sign of the Gardners Falls cave. He documented the changes with a series of photographs along the riverbank highlighting scouring, washouts and the general change in the view in an effort to document this new situation (Attachment 3).

Per the CRMP and PA, we are also forwarding a copy of this letter to the Massachusetts Historical Commission. If you have any questions, please contact me at (860) 767-5069 ext 421 (email: Chris.Tomichek@kleinschmidtusa.com).

Sincerely,

KLEINSCHMIDT ASSOCIATES

A handwritten signature in blue ink that reads "Christine A. Tomichek".

Chris Tomichek
Project Manager
CAT:TMJ

Attachment: Photos from Site Inspection

cc: Brona Simon (MHC), Kim Marsili, John Bahrs, Cynthia Lane
J:\803\005\Efiling (22912)\001-CRMP rpt_2011.doc

ATTACHMENT 1

NEWS ARTICLES DOCUMENTING HISTORIC FLOODING

2012 Annual Report of Cultural Resources Activities

Flooding wreaks havoc in Franklin Cty

Section of I-91 closed, Rt 2 also closed

Updated: Sunday, 28 Aug 2011, 11:35 PM EDT

Published : Sunday, 28 Aug 2011, 4:50 PM EDT [Ryan Walsh](#) Barry Kriger

CHARLEMONT, Mass. (WWLP) - Much of Franklin County is feeling the wrath of Tropical Storm Irene. It could take days, even weeks for life to get back to normal.

The raging Deerfield River overflowed its banks completely covering Route 2 in Charlemont, turning streets into streams, and surrounding some houses near the bridge.

The river came right up to the decking of the bridge between Shelburne Falls and Buckland. While our cameras were rolling, 22News witnessed a lot of debris moving very fast in the rushing muddy waters. A propane tank was bobbing in the angry waters, and also floating logs.

Parts of Interstate 91 and Route 2 West bound are closed due to the swollen Deerfield and Connecticut Rivers. I-91 is closed in both directions for seven miles between Deerfield and Greenfield. If you're heading that way, get ready for a really round-about detour, because routes 5 and 10 are closed for the same stretch.

On I-91 northbound when you enter Easthampton, warning signs flash about highway closure and that Route 2 west in Buckland is closed. Flooding has caused many roads to close along many of the rivers across Franklin County.

Greenfield Community College is where the National Guard and other emergency management teams are set up. They have to wait until the water recedes before they can make any decisions about opening the roads. "We have sections of route 2 in Charlemont, multiple sections of route 2 in Charlemont that are under water. The bridges that cross route 2, we have bridges in Deerfield, Shelburne Falls, Buckland. We have dams that are under water, so we don't know the capacity of those dams at this point in time," said Dennis Annear, Northwest Massachusetts Incident Management Team.

Annear told 22News their primary concern is to gain access to these washed out roads. The bridges and railroads need to be evaluated before they are re-opened.

Some people in Greenfield said they were prepared, but didn't think it would cause this much damage. "I think most people were just taking a wait-and-see attitude and I think past experiences a predictor of future performance," said Gregory Bell, "the past tropical storms that have come up the coast, as soon as they hit land they usually die out so that's what I was kind of thinking."

One woman said the situation went downhill fast when she went to the store to buy diapers. "I was gone about 7 minutes. Our road was filling up with water, so I rushed into the house, told my husband to get the kids. We got out by driving over our neighbors front lawn to get up to safety," said Lisa Aubrey, who lives next to the river in Shelburne Falls. Aubrey plans to stay with relatives who live on higher ground.

Bell told 22News he did pack up his furniture and move it into his shed, but his basement did flood.

If you are in these affected areas and need help, Annear told 22News that you should contact your local emergency management directors in your town. They can figure out what resources they need for Monday morning.

State Police told 22News that I-91 will be closed Monday morning and it could take a couple of days to reopen, until the state evaluates the roads and bridges.

Many people are still without power, according to [WMECO's restoration website](#) , close to 60 percent of Buckland and Sunderland is in the dark, around 500 people in Deerfield and Greenfield are without power as well.

2012 Annual Report of Cultural Resources Activities

New England cleans up amid severe flooding from Irene

By Zach Howard and Lauren Keiper
SHELBURNE FALLS, MA | Mon Aug 29, 2011 4:44pm EDT

(Reuters) - New England residents struggled on Monday with power outages and widespread flooding as they tried to clean up the mess left by Tropical Storm Irene.

Vermont and western Massachusetts were especially hard hit by the heavy rains during Irene's barrage, and more than 500,000 customers in Massachusetts remained without power.

A town employee from Southbridge, Massachusetts was electrocuted by a downed power line, authorities said.

"It's a tragic reminder that folks beginning the clean-up process need to do so safely," said Scott MacLeod, spokesman for the state emergency management agency.

The roaring Deerfield River in Shelburne Falls, Massachusetts, deluged streets and forced several hundred people to evacuate. The river picked up one building and pushed it about 100 feet across a street, said Will Mackie, local firefighter.

"It's on the right side of the road normally, but water moved it across to the left side," he said.

National Guard troops and emergency officials spread out across the state to assess conditions, and early reports showed no major structural or coastal infrastructure damage, said MacLeod. Once the beaches are safe to be inspected, MacLeod said erosion was likely to be found.

Shelburne's two-lane bridge over the Deerfield River and an adjacent pedestrian footbridge "took some heavy hits" from debris and need to be inspected before they reopen, Mackie said.

Governor Deval Patrick was checking the damage and meeting with residents and local authorities.

WATER HEADS SOUTH

Water was pouring south into Massachusetts and Connecticut from Vermont and New Hampshire after some Connecticut River Basin areas got as much as 14 inches of rain, said the U.S. Army Corps of Engineers.

"We've had major flooding in the Merrimack, Connecticut, and Hudson rivers, and some points in Vermont that feed into Lake Champlain," said Steve Nogueira, hydro-meteorologist with the National Weather Service's Northeast River Forecast Center in Taunton, Massachusetts.

In New Hampshire towns West Lebanon and North Walpole, flooding from the Connecticut River was possibly the worst since the 1938 hurricane, said Nicole Belk, a hydrologist from the Northeast River Forecast Center.

President Barack Obama has declared a state of emergency for Vermont, experiencing its worst flooding in recent memory.

At least one person was killed after being swept into a swollen river in the mountainous, land-locked New England state, which rarely sees tropical storms.

Many highways and roads remained closed, including a stretch of Interstate 91 southbound in Deerfield, Massachusetts.

2012 Annual Report of Cultural Resources Activities

Tropical Storm Irene wrecks havoc in Western Massachusetts

Published: Thursday, December 29, 2011, 5:21 AM

By **The Republican Newsroom**

Tropical Storm Irene dumped as much as 10 inches of rain in the region in late August, flooding homes and roads, damaging bridges and causing extensive power outages

The storm – the remnants of Hurricane Irene – caused the Deerfield, Green, Chicopee and Westfield rivers to overflow.

The federal government has approved \$6.2 million so far for homeowners, renters and business owners in Berkshire and Franklin counties who suffered damage from the storm, according to the Federal Emergency Management Agency.

The devastating storm washed out a six-mile stretch of Route 2 between Charlemont and Florida, and it remained closed until Dec. 15.

On Nov. 8, the last of five Western Massachusetts disaster recovery centers, located in Williamstown, closed. The centers, operated by FEMA and the Massachusetts Emergency Management Agency, saw 1,852 visitors.

Counting auto, home and commercial claims overseen by the state, there were a total of 28,500 insurance claims filed as a result of Irene. The hill communities of western Franklin County, including Shelburne Falls, were especially hard hit when the Deerfield River flooded.

ATTACHMENT 2
GARDNERS FALLS FOUNDATION

2012 Annual Report of Cultural Resources Activities



Gardners Falls Foundation

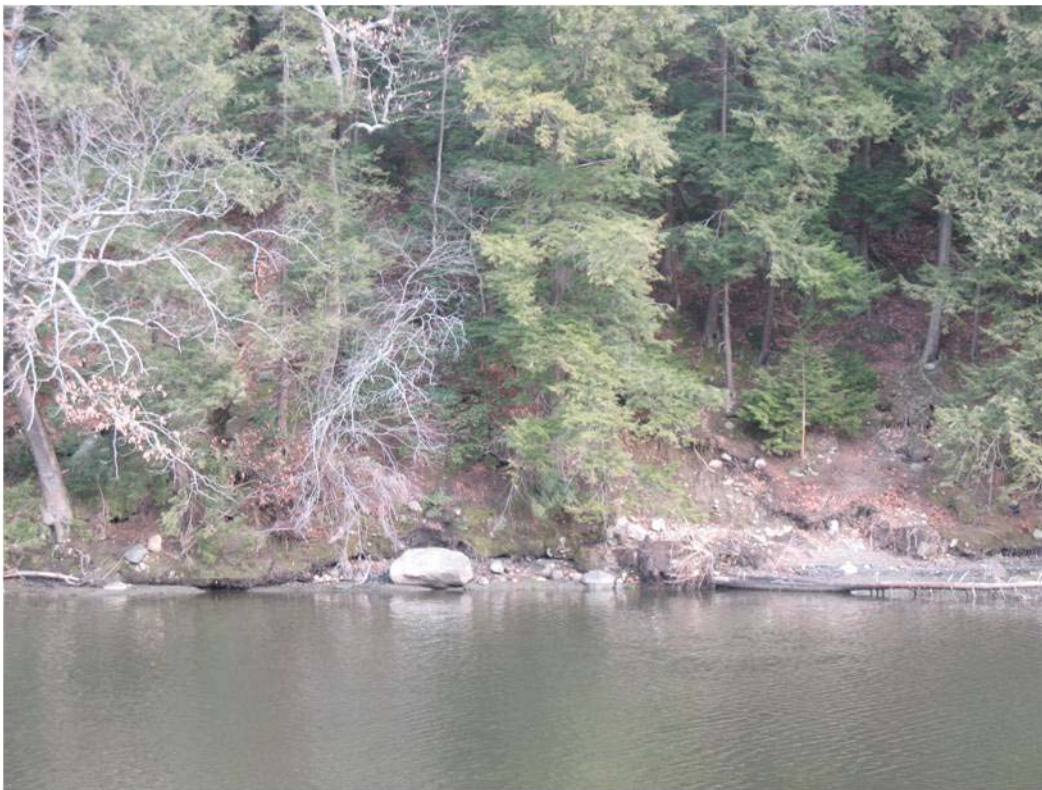
ATTACHMENT 3

**PHOTOGRAPHIC DOCUMENTATION OF GARDNERS FALLS
IMPOUNDMENT RIVERBANK WHERE THE
GARDNERS FALLS CAVE PREVIOUSLY EXISTED**

2012 Annual Report of Cultural Resources Activities



2012 Annual Report of Cultural Resources Activities



2012 Annual Report of Cultural Resources Activities



Document Content(s)

P-2334 CRMP rpt_2011.PDF.....1-11

APPENDIX B

FERC DOCKET⁶⁰

⁶⁰ Click on the hyperlink in the table to view the referenced FERC documents in FERC's library. You need to be connected to the web. The initial click will return the file's properties (author, recipient, etc.). Clicking on the [File List] tab will return a document list. Clicking on a document name will open the document for viewing.

Click To Go To FERC elibrary. (Must Be Connected To Web.)			Click To Clear Out Records		Click To ReFilter		VERSION	7/23/2014	Program Functionality Ends On [Tuesday Aug 01, 2017]
Date	FERC ID	Category	Subject	Class	Type	Availability	Info		
7/19/2017	P-2334-056	Submittal	Request to Update Information of Nautilus Hydro, LLC under P-2334.	Pleading/Motion	Procedural Motion	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14589113		
7/19/2017	P-2334-051	Issuance	Letter acknowledging receipt of Nautilus Hydro, LLC's 6/21/17 filing of the Annual Cultural Resources Management Plan Monitoring Report for the Gardner Falls Project under P-2334.	FERC Correspondence With Applicant	General Correspondence	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14588860		
7/6/2017	P-2334-056	Issuance	Letter to Nautilus Hydro, LLC providing guidelines to help maintain compliance with license requirements re the Signed Acceptance of License Transfer for the Gardners Falls Project under P-2334.	FERC Correspondence With Applicant	General Correspondence	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14585401		
7/3/2017	Multiple	Issuance	Letter requesting Nautilus Hydro to provide a response within 45 days re the Flashboard Design Review for the Gardners Falls Project et al under P-2334 et al.	FERC Correspondence With Applicant	Compliance Directives	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14588707		
7/3/2017	Multiple	Issuance	Letter requesting Nautilus Hydro to provide a response within 45 days re the flashboard design review for the Gardners Falls Project et al under P-2334 et al.	FERC Correspondence With Applicant	Compliance Directives	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14588708		
7/3/2017	Multiple	Issuance	Letter requesting Nautilus Hydro to provide a response within 45 days re the Flashboard Design review for the Gardners Falls Project et al under P-2334 et al.	FERC Correspondence With Applicant	Compliance Directives	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14588709		
6/22/2017	P-2334-000	Submittal	Project Safety-Related Submission to NYRO of Nautilus Hydro, LLC under P-2334. Nautilus GF UNIT 4 FIRE FERC Notification Letter	Report/Form	Project Safety Compliance Report	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14581955		
6/21/2017	P-2334-000	Issuance	Letter to Massachusetts Historical Commission regarding repairs at the Gardner Falls Hydroelectric Project under P-2334.	FERC Correspondence With Government Agencies	FERC Correspondence With Government Agencies	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14581679		
6/21/2017	P-2334-000	Submittal	Nautilus Hydro, LLC submits Annual Rpt CultRrsrs 2014-2016 for Gardner Falls under P-2334	Report/Form	Cultural Resources Inventory - Report/Archaeologica I Study	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14581645		
6/20/2017	P-2334-000	Submittal	Nautilus Hydro, LLC submits the Cultural Resource Management Plan for years 2014, 2015 and 2016 re the Gardener Falls Hydroelectric Project under P-2334.	Report/Form	Cultural Resources Inventory - Report/Archaeologica I Study	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14583331		
6/5/2017	P-2334-056	Submittal	Acceptance of License Transfer and Conveyance Documents of Nautilus Hydro, LLC under P-2334.	Applicant Correspondence	Supplemental/Additio nal Information	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14577359		
5/18/2017	P-2334-000	Issuance	Letter to Essential Power Massachusetts, LLC re the 1/13/17 filing of the annual reconnaissance to maintain the Emergency Action Plan exemption for the Gardners Falls Project under P-2334.	FERC Correspondence With Applicant	General Correspondence	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14578920		
5/18/2017	P-2334-000	Issuance	Letter to Essential Power Massachusetts, LLC re the 1/13/17 filing of the annual reconnaissance to maintain the exemption from filing an Emergency Action Plan for the Gardners Falls Project under P-2334.	FERC Correspondence With Applicant	General Correspondence	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14578946		
5/17/2017	P-2334-000	Issuance	Letter to EP Energy Massachusetts, LLC re the Final Construction Report for the Powerhouse Hydraulic Cutoff Project under P-2334.	FERC Correspondence With Applicant	General Correspondence	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14573324		
5/12/2017	P-2334-000	Submittal	Massachusetts Historical Commission submits comments re the Gardners Falls Hydro Project under P-2334.	Other Submittal	Government Agency Submittal	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14573540		
5/3/2017	P-2334-056	Submittal	Request for Additional Extension of Time to Comply with Ordering Paragraph (C) of Order Approving Transfer of License of Nautilus Hydro, LLC under P-2334	Applicant Correspondence	Request for Delay of Action/Extension of Time	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14568610		

Date	FERC ID	Category	Subject	Class	Type	Availability	Info
4/6/2017	Multiple	Issuance	Letter to EP Energy Massachusetts, LLC re additional information concerning the 2016 Dam Safety Surveillance and Monitoring Reports for the Gardners Falls Project et al under P-2334 et al.	FERC Correspondence With Applicant	General Correspondence	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14567760
3/27/2017	P-2334-000	Submittal	Project Safety-Related Submission to NYRO of Essential Power Massachusetts, LLC under P-2334. Gardner Falls Post Construction Filing	Report/Form	Project Safety Compliance Report	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14551798
3/27/2017	P-2334-000	Submittal	Project Safety-Related Submission to NYRO of Essential Power Massachusetts, LLC under P-2334. Gardner Falls Post Construction Filing	Report/Form	Project Safety Compliance Report	CEII	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14551799
3/24/2017	Multiple	Submittal	Project Safety-Related Submission to NYRO of Essential Power Massachusetts, LLC EP Flashboard Design CalcPk 2-25-17 - for FERC under P-2334, et. al..	Report/Form	Dam Safety Compliance Report	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14551359
3/24/2017	Multiple	Submittal	Project Safety-Related Submission to NYRO of Essential Power Massachusetts, LLC EP Flashboard Design CalcPk 2-25-17 - for FERC under P-2334, et. al..	Report/Form	Dam Safety Compliance Report	CEII	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14551360
3/9/2017	P-2334-056	Issuance	Order Granting Extension of Time re Essential Power Massachusetts, LLC under P-2334.	Order/Opinion	Delegated Order	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14546641
2/24/2017	P-2334-056	Submittal	Request for Extension of Time to Comply with Ordering Paragraph (C) of Order Approving Transfer of License of Nautilus Hydro, LLC under P-2334.	Applicant Correspondence	Request for Delay of Action/Extension of Time	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14542425
2/17/2017	P-2334-001	Issuance	Project Safety-Related Submission ny NYRO of NEW YORK REGIONAL OFFICE under P-2334-MA. Gardiners Falls, DSIR	FERC Report/Study	Dam Safety Inspection Report/Operation Report	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14540487
2/17/2017	P-2334-001	Issuance	Project Safety-Related Submission ny NYRO of NEW YORK REGIONAL OFFICE under P-2334-MA. Gardiners Falls, DSIR	FERC Report/Study	Dam Safety Inspection Report/Operation Report	CEII	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14540488
1/13/2017	P-2334-000	Submittal	Essential Power Massachusetts, LLC EAP Exemption Annual Reconnaissance for the Gardners Falls Project under P-2334.	Applicant Correspondence	Supplemental/Additional Information	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14529912
1/12/2017	Multiple	Submittal	Essential Power Massachusetts, LLC submits the 2016 Minimum Flow Releases re the Dwight Project, et. al. under P-10675, et. al.	Report/Form	Annual Water Quality/Minimum Flow	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14529567
1/11/2017	P-2334-000	Issuance	Letter requesting Essential Power, LLC to provide additional information re the flashboard design for the Gardners Fall Project under P-2334.	FERC Correspondence With Applicant	Compliance Directives	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14531240
1/5/2017	P-2334-056	Issuance	Order Approving Transfer of License re Essential Power Massachusetts, LLC et al under P-2334.	Order/Opinion	Delegated Order	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14527647
1/3/2017	Multiple	Submittal	Project Safety-Related Submission to NYRO of Essential Power Massachusetts, LLC under P-2334-000, et. al.. EP DSSMRs for Gardners Falls, Dwight, Red Bridge, Putts Bridge, Indian Orchard.	Report/Form	Dam Safety Compliance Report	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14527042
1/3/2017	Multiple	Submittal	Project Safety-Related Submission to NYRO of Essential Power Massachusetts, LLC under P-2334-000, et. al.. EP DSSMRs for Gardners Falls, Dwight, Red Bridge, Putts Bridge, Indian Orchard.	Report/Form	Dam Safety Compliance Report	CEII	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14527043
12/29/2016	P-2334-000	Issuance	Letter requesting Essential Power Massachusetts, LLC to provide the Reconnaissance Report within 60 days for the Gardner Falls Project under P-2334.	FERC Correspondence With Applicant	Compliance Directives	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14531230
12/6/2016	P-2334-000	Issuance	Letter to EP Energy Massachusetts LLC re the pre-construction filing for the Gardners Falls Draft Tube No. 2 Replacement Project under P-2334.	FERC Correspondence With Applicant	General Correspondence	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14520956

Date	FERC ID	Category	Subject	Class	Type	Availability	Info
11/8/2016	P-2334-056	Issuance	Notice of Application for Transfer of License and Soliciting Comments, Motions to Intervene, and Protests re Essential Power Massachusetts, LLC et al under P-2334.	Notice	Formal Notice	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14510524
10/28/2016	P-2334-056	Submittal	Application for Approval of Transfer of License and Request for Expedited Consideration under P-2334.	Application/Petition/Request	Transfer of Hydropower License or Exemption	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14507736
10/24/2016	P-2334-000	Submittal	Project Safety-Related Submission to NYRO of Essential Power Massachusetts, LLC submits the revised 100% Unit No. 2 Tailrace Repair Design Drawings for the Gardner Falls Hydroelectric Project under P-2334. .	Report/Form	Project Safety Compliance Report	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14506420
10/24/2016	P-2334-000	Submittal	Project Safety-Related Submission to NYRO of Essential Power Massachusetts, LLC submits the revised 100% Unit No. 2 Tailrace Repair Design Drawings for the Gardner Falls Hydroelectric Project under P-2334. .	Report/Form	Project Safety Compliance Report	CEII	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14506421
10/11/2016	Multiple	Issuance	Letter to Essential Power, LLC re the Dam Safety Inspections conducted on 9/16/16 of the Gardner Falls Project et al under P-2334 et al.	FERC Correspondence With Applicant	General Correspondence	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14505869
8/22/2016	P-2334-000	Issuance	Environmental Inspection Report for the Gardner Falls Project under P-2334.	FERC Report/Study	Construction Inspection Report	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14487899
8/22/2016	P-2334-001	Issuance	Letter to Essential Power Massachusetts providing follow up on the Environmental Inspection of the Gardners Falls Project under P-2334.	FERC Correspondence With Applicant	General Correspondence	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14487900
7/5/2016	P-2334-000	Issuance	Letter to EP Energy Massachusetts, LLC regarding the Gardners Falls Drilling Plan for the draft tube replacement under P-2334.	FERC Correspondence With Applicant	General Correspondence	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14477453
7/5/2016	P-2334-000	Issuance	Letter to EP Energy Massachusetts, LLC re the 7/1/16 filing of the Geotechnical Investigation Plan for the Unit 2 Tailrace Repair Project under P-2334.	FERC Correspondence With Applicant	General Correspondence	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14480998
6/20/2016	P-2334-001	Issuance	Letter to Essential Power Massachusetts, LLC confirming the telephone conversation regarding the environmental inspection for the Gardner Falls Project No. 2334.	FERC Correspondence With Applicant	General Correspondence	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14471130
5/16/2016	P-2334-055	Issuance	Order Modifying and Suspending License Articles 403 and 404 re Essential Power Massachusetts, LLC under P-2334.	Order/Opinion	Delegated Order	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14459833
3/30/2016	P-2334-055	Submittal	Request of Essential Power Massachusetts, LLC under P-2334.	Applicant Correspondence	Supplemental/Additional Information	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14443024
3/24/2016	P-2334-053	Submittal	Form 80 of Essential Power, LLC for the GARDNER FALLS Project under P-2334.	Report/Form	Form 80 - Licensed Hydropower Development Recreation Report	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14441601
3/24/2016	P-2334-053	Submittal	Report of Essential Power, LLC 2016 Form 80 FERC Submittal under P-2334.	Report/Form	Form 80 - Licensed Hydropower Development Recreation Report	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14441604
3/22/2016	P-2334-000	Issuance	Letter to EP Energy Massachusetts, LLC regarding the pre-construction filing submitted on 3/10/16 for the Gardners Falls Secant Pile Cutoff Wall Project under P-2334.	FERC Correspondence With Applicant	General Correspondence	CEII	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14452251
3/16/2016	P-2334-000	Issuance	Letter requesting EP Energy Massachusetts, LLC to provide a response to comments within 30 days re construction approval for the Garners Falls Draft Tube No. 2 Replacement Project under P-2334.	FERC Correspondence With Applicant	Compliance Directives	CEII	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14452249
3/10/2016	P-2334-000	Submittal	Project Safety-Related Submission to NYRO of Essential Power Massachusetts, LLC under P-2334. Gardner Falls Hydroelectric Project	Report/Form	Dam Safety Compliance Report	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14437651

Date	FERC ID	Category	Subject	Class	Type	Availability	Info
3/10/2016	P-2334-000	Submittal	Project Safety-Related Submission to NYRO of Essential Power Massachusetts, LLC under P-2334. Gardner Falls Hydroelectric Project	Report/Form	Dam Safety Compliance Report	CEII	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14437652
3/1/2016	Multiple	Issuance	Order Amending Exemptions and License re EP Energy Massachusetts, LLC et al under P-10675 et al.	Order/Opinion	Delegated Order	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14434205
2/10/2016	P-2334-000	Submittal	Project Safety-Related Submission to NYRO of Essential Power Massachusetts, LLC Gardner Falls Powerhouse Unit No. 2 Tailrace Repair for the Gardner Falls Hydroelectric Project under P-2334. P-2334	Report/Form	Project Operations Compliance Report	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14428065
2/10/2016	P-2334-000	Submittal	Project Safety-Related Submission to NYRO of Essential Power Massachusetts, LLC Gardner Falls Powerhouse Unit No. 2 Tailrace Repair for the Gardner Falls Hydroelectric Project under P-2334. P-2334	Report/Form	Project Operations Compliance Report	CEII	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14428066
1/27/2016	Multiple	Issuance	Letter to EP Energy Massachusetts, LLC re the 2015 Dam Safety Surveillance and Monitoring Report for the Gardners Falls Project et al under P-2334 et al.	FERC Correspondence With Applicant	General Correspondence	CEII	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14427700
12/4/2015	Multiple	Submittal	Project Safety-Related Submission to NYRO of Essential Power Massachusetts, LLC EP DSSMRs for Dwight, Gardners Falls, Indian Orchard, Putts Bridge, Red Bridge under P-10675, et. al.	Report/Form	Dam Safety Compliance Report	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14405310
12/4/2015	Multiple	Submittal	Project Safety-Related Submission to NYRO of Essential Power Massachusetts, LLC EP DSSMRs for Dwight, Gardners Falls, Indian Orchard, Putts Bridge, Red Bridge under P-10675, et. al.	Report/Form	Dam Safety Compliance Report	CEII	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14405311
12/2/2015	Multiple	Submittal	Supplemental Information / Notice of Change of Entity Name for Hydropower Licensees and Exemption Holders by Essential Power Massachusetts, LLC under P-10675, et. al.	Applicant Correspondence	Supplemental/Additional Information	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14404774
11/12/2015	P-2334-000	Issuance	Letter requesting EP Energy Massachusetts, LLC to submit construction plans and specifications, within 60 days re the Seepage Cutoff Conceptual Design review for the Gardners Falls Project under P-2334.	FERC Correspondence With Applicant	Compliance Directives	CEII	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14399436
10/19/2015	P-2334-000	Submittal	Project Safety-Related Submission to NYRO of Essential Power Massachusetts, LLC under P-2334. Gardners Falls Seepage Asses.RemPLItr	Report/Form	Project Safety Compliance Report	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14389131
10/16/2015	P-2334-000	Submittal	Kleinschmidt submits the Geotechnical Data Report , 22 June 2015 et al for the Gardners Falls Hydroelectric Project under P-2334.	Report/Form	Project Operations Compliance Report	CEII	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14392694
10/7/2015	Multiple	Submittal	Report of Essential Power Massachusetts, LLC Annual Gross Power Generation Report under P-10675, et. al.	Report/Form	Annual Generation Report	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14384724
7/8/2015	P-2334-000	Submittal	Essential Power Massachusetts, LLC submits Initial Restoration Plan regarding Gardner's Falls Project under P-2334.	Applicant Correspondence	General Correspondence	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14355217
5/18/2015	P-2334-000	Submittal	Essential Power Massachusetts LLC submits an incident report regarding a small sinkhole outside in the transformer yard at the Gardner Falls Project under P-2334.	Report/Form	Project Operations Compliance Report	CEII	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14350969
4/28/2015	P-2334-000	Submittal	Project Safety-Related Submission to NYRO of Essential Power Massachusetts, LLC under P-2334.	Report/Form	Project Safety Compliance Report	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14330371
4/27/2015	Multiple	Issuance	Letter requesting EP Energy Massachusetts LLC to provide within 30 days a plan and schedule for addressing the comments noted re the Gardners Falls Project et al under P-2334 et al.	FERC Correspondence With Applicant	Compliance Directives	CEII	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14340041
4/9/2015	Multiple	Issuance	Memo dated 4/9/15 from New York Regional Office re the inoperative projects reports for the Gardners Falls Project et al under P-2334. et al.	FERC Memo	Internal Transmittal Memo	Privileged	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14359588

Date	FERC ID	Category	Subject	Class	Type	Availability	Info
4/7/2015	Multiple	Issuance	Memo dated 4/7/15 from Office of Energy Projects re the Semi-Annual Construction Report for the Piney Project et al under P-309 et al.	FERC Memo	Internal Transmittal Memo	Privileged	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14359571
3/31/2015	Multiple	Submittal	Massachusetts Division of Fisheries and Wildlife submits the name change in service list for the Turners Falls Project et al under P-1889 et al.	Report/Form	Project Operations Compliance Report	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14321406
2/3/2015	P-2334-000	Issuance	Letter responding to EP Energy Massachusetts, LLC's Final Construction Report for the Gardners Falls Powershouse Repair Project dated December 2014 under P-2334.	FERC Correspondence With Applicant	General Correspondence	CEII	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14303914
12/31/2014	P-2334-000	Submittal	Essential Power Massachusetts, LLC submits the Dam Safety Surveillance & Monitoring Report - 2014 for the Gardners Falls Project under P-2334.	Report/Form	Dam Safety Compliance Report	CEII	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14289016
12/18/2014	P-2334-000	Submittal	Project Safety-Related Submission to NYRO of Essential Power Massachusetts, LLC under P-2334-000 of attached CEII reports.	Report/Form	Project Safety Compliance Report	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14282888
12/18/2014	P-2334-000	Submittal	Project Safety-Related Submission to NYRO of Essential Power Massachusetts, LLC under P-2334-000 of attached CEII reports.	Report/Form	Project Safety Compliance Report	CEII	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14282889
10/2/2014	Multiple	Submittal	Annual Gross Power Generation Report for October 1, 2013 - September 30, 2014 under P-10675, et al.	Report/Form	Annual Generation Report	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14256927
8/19/2014	Multiple	Submittal	Project Safety-Related Submission to NYRO of Essential Power Massachusetts, LLC under P-2334, et. al..	Report/Form	Dam Safety Compliance Report	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14244062
8/15/2014	P-2334-000	Submittal	Essential Power Massachusetts, LLC GF contact-info under P-2334	Pleading/Motion	Procedural Motion	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14242961
8/4/2014	P-2334-000	Submittal	Project Safety-Related Submission to NYRO of Essential Power, LLC under P-2334.	Report/Form	Project Safety Compliance Report	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14240098
8/4/2014	P-2334-000	Submittal	Project Safety-Related Submission to NYRO of Essential Power, LLC under P-2334.	Report/Form	Project Safety Compliance Report	CEII	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14240099
7/22/2014	Multiple	Issuance	Letter requesting Essential Power LLC to provide a plan and schedule w/in 30 days to address items noted from the dam safety inspection for the Gardners Falls Dam et al under P-2334 et al.	FERC Correspondence With Applicant	Compliance Directives	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14243920
7/11/2014	P-2334-053	Issuance	Letter order granting Consolidated Edison Energy Mass, LLC's 7/1/14 request for an extension of time to file the FERC Form No. 80 for the Gardners Falls Hydroelectric Project under P-2334.	Order/Opinion	Delegated Order	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14233268
7/1/2014	P-2334-053	Submittal	Supplemental Information / Request of Essential Power Massachusetts, LLC under P-2334. P-2334 Gardners Falls Form 80 delay request	Applicant Correspondence	Supplemental/Additio nal Information	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14230618
6/27/2014	P-2334-000	Submittal	CEII Submission to NYRO of Essential Power, LLC under P-2334.	Report/Form	Project Safety Compliance Report	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14229767
6/27/2014	P-2334-000	Submittal	CEII Submission to NYRO of Essential Power, LLC under P-2334.	Report/Form	Project Safety Compliance Report	CEII	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14229768
5/29/2014	P-2334-000	Submittal	Project Safety-Related Submission of Temporary Construction EAP to NYRO of Essential Power Massachusetts, LLC under P-2334	Report/Form	Emergency Action Plan	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14220695

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5/29/2014	P-2334-000	Submittal	Project Safety-Related Submission of Temporary Construction EAP to NYRO of Essential Power Massachusetts, LLC under P-2334	Report/Form	Emergency Action Plan	CEII	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14220696
5/21/2014	Multiple	Issuance	Letter to Essential Power LLC regarding the 2013 Dam Safety Surveillance Monitoring Reports for the Garden Falls Project et al under P-2334 et al.	FERC Correspondence With Applicant	General Correspondence	CEII	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14229045
5/8/2014	Multiple	Issuance	Letter to EP Energy Massachusetts, LLC confirming the 5/2/14 arrangements concerning the inspection of the Gardners Falls Project et al under P-2334 et al.	FERC Correspondence With Applicant	General Correspondence	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14217255
5/7/2014	P-2334-000	Submittal	Project Safety-Related Submission to NYRO of Essential Power Massachusetts, LLC under P-2334.Gardner's Falls Project.	Report/Form	Project Safety Compliance Report	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14214055
4/28/2014	P-2334-051	Submittal	Report of Essential Power Massachusetts, LLC under P-2334, EP CRMP Report 2013	Report/Form	Project Operations Compliance Report	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14209868
3/28/2014	P-2334-000	Issuance	Letter to EP Energy Massachusetts LLC discussing the 3/25/14 filing of the Incident Report regarding the sinkholes that were found on 3/4/14 at the Gardner's Falls Project under P-2334.	FERC Correspondence With Applicant	General Correspondence	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14203712
3/26/2014	P-2334-000	Submittal	CEII Submission to NYRO of Essential Power Massachusetts, LLC under P-2334.	Report/Form	Part 12 Consultant Safety Inspection Reports	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14197838
3/26/2014	P-2334-000	Submittal	CEII Submission to NYRO of Essential Power Massachusetts, LLC under P-2334.	Report/Form	Part 12 Consultant Safety Inspection Reports	CEII	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14197839
3/14/2014	P-2334-000	Issuance	Letter requesting EP Energy Massachusetts LLC to provide the report w/in 15 days regarding a large sinkhole at the Gardners Falls Project under P-2334.	FERC Correspondence With Applicant	Compliance Directives	CEII	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14199024
1/30/2014	P-2334-000	Issuance	Letter reminding Consolidated Edison Energy Mass, LLC of their license obligation to gather recreation use data for a 12-month period beginning no later than March 15, 2014, re the revised Form 80 for the Gardners Falls Hydro Project under P-2334.	FERC Correspondence With Applicant	General Correspondence	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14182119
12/30/2013	P-2334-000	Submittal	Essential Power, LLC submits the Dam Safety Surveillance and Monitoring Reports-2013 for the Gardners Falls Project under P-2334.	Report/Form	Dam Safety Compliance Report	CEII	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14189988
12/27/2013	Multiple	Submittal	Essential Power, LLC submits the Dam Safety Surveillance and Monitoring Reports for the Dwight Project under P-10675 et al.	Report/Form	Dam Safety Compliance Report	CEII	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14189847
11/19/2013	P-2334-052	Issuance	Letter informing NAEA Energy Mass, L.L.C. that the resevoir elevation deviation that occurred on 8/12/13 will not be considered a violation of License Article 401 re the Gardners Falls Hydroelectric Project under P-2334.	FERC Correspondence With Applicant	General Correspondence	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14163108
10/9/2013	Multiple	Submittal	EP Energy Massachusetts, LLC Annual Gross PowerGenRpt 10112-93013 under P-10675, et. al..	Report/Form	Annual Generation Report	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14152834
8/23/2013	Multiple	Issuance	Letter to Essential Power LLC commenting on the 2012 Dam Safety Surveillance & Monitoring Reports for the Gardners Falls Project et al under P-2334 et al.	FERC Correspondence With Applicant	General Correspondence	CEII	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14151777
8/21/2013	P-2334-052	Submittal	Essential Power Massachusetts LLC submits notification of a pond level excursion at the Gardner's Falls Hydroelectric Project udner P-2334.	Report/Form	Project Operations Compliance Report	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14139455
8/19/2013	Multiple	Submittal	Essential Power Massachusetts, LLC's Owner's Dam Safety Program Revisions for the Red Bridge Project under P-10676, et. al.	Report/Form	Dam Safety Compliance Report	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14138776

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8/15/2013	P-2334-000	Submittal	Essential Power Massachusetts, LLC PondLevelExcursion for the Gardeners Falls under P-2334.	Report/Form	Project Operations Compliance Report	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14138074
8/14/2013	Multiple	Issuance	Letter to EP Energy Massachusetts, LLC confirming the arrangements made during the email exchanges on 8/12/13 concerning the inspection of the Gardners Falls Project et al under P-2334 et al.	FERC Correspondence With Applicant	General Correspondence	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14142314
6/26/2013	Multiple	Issuance	Letter requesting EP Energy Massachusetts LLC to provide a resubmittal of the Owner's Dam Safety Program w/in 90 days re the Red Bridge Project et al under P-10676 et al.	FERC Correspondence With Applicant	Compliance Directives	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14129782
5/23/2013	P-2334-000	Submittal	Essential Power Massachusetts, LLC submits notification regarding the replacement of Unit #2 penstock for the Gardner's Falls Project under P-2334.	Report/Form	Project Operations Compliance Report	CEII	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14124861
5/6/2013	P-2334-051	Submittal	Essential Power Massachusetts, LLC submits the 2012 Annual Report of Cultural Resources Activities for the Gardners Falls Project under P-2334.	Report/Form	Cultural Resources Inventory - Report/Archaeological Study	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14113345
3/7/2013	P-2334-000	Submittal	Project Safety-Related Submission to NYRO of EP Energy Massachusetts, LLC Gardners Falls EAP Update Filing under P-2334.	Report/Form	Emergency Action Plan	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14095718
3/7/2013	Multiple	Submittal	Project Safety-Related Submission to NYRO of EP Energy Massachusetts, LLC Min Flow 2012 Annual Report under P-10675, et. al.	Report/Form	Annual Water Quality/Minimum Flow	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14095733
1/7/2013	P-2334-051	Issuance	Order amending approved Cultural Resources Management Plan re Consolidated Edison Energy Massachusetts LLC under P-2334.	Order/Opinion	Delegated Order	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14080067
10/31/2012	Multiple	Submittal	Project Safety-Related Submission to NYRO of EP Energy Massachusetts, LLC under P-10675, et. al.. Dwight Project P-10675 Red Bridge Project P-10676 Putts Bridge Project P-10677 Indian Orchard Project P-10678 Gardners Falls Project P-2334	Report/Form	Project Safety Compliance Report	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14063057
10/4/2012	Multiple	Submittal	Supplemental Information of EP Energy Massachusetts, LLC under P-10675, et. al.. Essential Power Annual Generation Letter	Report/Form	Annual Generation Report	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14056843
6/18/2012	P-2334-000	Submittal	EP Energy Massachusetts LLC submits the Cultural Resources Management Plan re Gardners Falls Project under P-2334.	Report/Form	Cultural Resources Inventory - Report/Archaeological Study	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14031185
6/4/2012	P-2334-051	Submittal	Supplemental Information of Essential Power, LLC under P-2334, CRMP Letter.	Applicant Correspondence	Supplemental/Additional Information	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14027594
5/31/2012	P-2334-000	Issuance	Letter from FERC CRO to Mr. John Bahrs regarding the 2012 Annual Cultural Resources Management Plan Report - Article 408 under P-2334	FERC Correspondence With Applicant	General Correspondence	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14026940
5/22/2012	Multiple	Submittal	Essential Power Energy Massachusetts LLC submits letter re the Owner's Dam Safety Program for the Dwight Project et al under P-10675 et al.	Report/Form	Project Operations Compliance Report	CEII	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14029297
5/22/2012	Multiple	Submittal	Project Safety-Related Submission to NYRO of Essential Power, LLC ODSP for the Dwight Project, et al. under P-10675, et. al..	Report/Form	Project Safety Compliance Report	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14023993
5/17/2012	P-2334-012	Submittal	Comments of Commonwealth of Massachusetts re the Gardners Falls Hydroelectric Project under P-2334.	Other Submittal	Government Agency Submittal	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14025458
5/11/2012	Multiple	Issuance	Letter to NAEA Energy Massachusetts, LLC providing comments on the 12/22/11 submittal of the 2011 Dam Safety Surveillance and Monitoring Reports for the Gardners Falls Project under P-2334 et al.	FERC Correspondence With Applicant	General Correspondence	CEII	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14028475

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4/6/2012	P-2334-012	Submittal	Memo to the Secretary regarding the Gardners Falls Cave, which was destroyed in a natural disaster under P-2334.	Applicant Correspondence	Supplemental/Additional Information	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14010708
3/13/2012	Multiple	Issuance	Order amending license and exemptions re North American Energy Alliance Massachusetts, LLC, and EP Energy Massachusetts, LLC under P-10675 et al.	Order/Opinion	Delegated Order	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14003398
2/29/2012	P-2334-000	Submittal	EP Energy Massachusetts LLC submits 2012 Annual Report of Cultural Resources Activities for the Gardners Falls Project under P-2334.	Report/Form	Cultural Resources Inventory - Report/Archaeological Study	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14001731
2/29/2012	Multiple	Submittal	EP Energy Massachusetts LLC submits release of minimum flows for the Dwight Project et al under P-10675 et al.	Report/Form	Annual Water Quality/Minimum Flow	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14011416
2/29/2012	P-2334-000	Submittal	Kleinschmidt submits notification to the Commission that there have been no changes in land use upstream or downstream of the Gardners Falls Project during the 2011 calendar year etc under P-2334.	Report/Form	Project Operations Compliance Report	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=14011417
2/29/2012	P-2334-000	Submittal	EP Energy Massachusetts, LLC Annual Report of Cultural Resources Activities under P-2334.	Report/Form	Cultural Resources Inventory - Report/Archaeological Study	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=13999752
2/29/2012	P-2334-000	Submittal	Project Safety-Related Submission to NYRO of EP Energy Massachusetts, LLC Gardners Falls EAP Exemption Review under P-2334.	Report/Form	Emergency Action Plan	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=13999761
2/29/2012	Multiple	Submittal	Project Safety-Related Submission to NYRO of EP Energy Massachusetts, LLC Min Flow 2011 Annual Rpt under P-10675, et. al.	Report/Form	Annual Water Quality/Minimum Flow	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=13999767
2/20/2012	Multiple	Submittal	NAEA Energy Massachusetts, LLC submits name change for the Dwight Station Project et al under P-2334 et al.	Pleading/Motion	Procedural Motion	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=13998976
2/15/2012	Multiple	Issuance	Letter requesting North American Energy Alliance LLC to submit the additional information for the request to change the company names of the projects re Dwight Station Project et al under P-10675.	FERC Correspondence With Applicant	Compliance Directives	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=13996957
1/9/2012	Multiple	Issuance	Letter to the parties addressed discussing a wide variety of recreation issues in conjunction with licensing and operation hydropower projects under P-2652 et al.	FERC Correspondence With Applicant	General Correspondence	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=13991781
1/1/2012	Multiple	Submittal	North American Energy Alliance, LLC submits notification of family of companies name change under P-10675 et al.	Pleading/Motion	Procedural Motion	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=13985558
1/1/2012	Multiple	Submittal	North American Energy Alliance, LLC submits name change of companies for the Dwight Station et al under P-10675 et al.	Pleading/Motion	Procedural Motion	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=13984490
1/1/2012	Multiple	Submittal	North American Energy Alliance, LLC submits Change of Company Name under P-10675 et al.	Pleading/Motion	Procedural Motion	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=13990209
12/22/2011	P-2334-000	Submittal	NAEA Energy Massachusetts, LLC submits their 2011 Dam Safety Surveillance and Monitoring Reports for the Gardners Falls Project under P-2334.	Report/Form	Dam Safety Compliance Report	CEII	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=13991886
12/22/2011	Multiple	Submittal	Project Safety-Related Submission to NYRO of NAEA Energy Massachusetts, LLC under P-10675, et. al..	Report/Form	Dam Safety Compliance Report	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=13982283
12/22/2011	Multiple	Submittal	Project Safety-Related Submission to NYRO of NAEA Energy Massachusetts, LLC under P-10675, et. al..	Report/Form	Dam Safety Compliance Report	CEII	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=13982284

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12/9/2011	P-2334-000	Submittal	Project Safety-Related Submission to NYRO of NAEA Energy Massachusetts, LLC under P-2334, Gardners Falls Construction Monitoring	Report/Form	Project Safety Compliance Report	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=13978337
10/25/2011	Multiple	Issuance	Letter order accepting NAEA Massachusetts, LLC's 9/22/11 filing of a Dam Safety Inspection of the Gardners Falls Project et al under P-2334 et al.	Order/Opinion	Delegated Order	CEII	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=13968619
10/12/2011	Multiple	Submittal	Report of North American Energy Alliance, LLC under P-10675, et al Annual Gross Power Generation Report P-10675, P-10676, P-10677, P-10678, P-2334	Report/Form	Annual Generation Report	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=13962693
8/31/2011	Multiple	Issuance	Letter to NAEA Energy Massachusetts, LLC confirming arrangements made between email exchanges on 8/26/11 re the inspection of the Gardners Falls, Red Bridge and Indian Orchard Projects that is scheduled for 9/22/11 under P-2334 et al.	FERC Correspondence With Applicant	General Correspondence	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=13959571
6/20/2011	P-2334-000	Submittal	Email dated 6/20/11 from NAEA Energy Massachusetts discussing the Gardner Falls Leakage Remediation plan under P-2334.	Report/Form	Project Operations Compliance Report	CEII	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=13976178
5/12/2011	P-2334-000	Submittal	Kleinschmidt USA submits preliminary seepage report for Gardner Falls Dam under P-2334.	Report/Form	Dam Safety Compliance Report	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=13922038
5/2/2011	P-2334-012	Issuance	Letter order accepting Con Edison Development's 4/19/11 filing of the 2011 Annual Curltural Resources Management Plan Report for the Gardners Falls Hydroelectric Project required by Article 408 under P-2334.	Order/Opinion	Delegated Order	CEII	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=13918444
4/18/2011	P-2334-000	Submittal	NAEA Energy Massachusetts, LLC submits their 2010 Annual Report of Cultural Resources Activities for the Gardners Falls Project under P-2334.	Report/Form	Cultural Resources Inventory - Report/Archaeologica I Study	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=13911503
4/15/2011	P-2334-000	Issuance	Letter requesting NAEA Energy Massachusetts, LLC to submit the Incident Report within 15 days re the Gardners Falls Project under P-2334.	FERC Correspondence With Applicant	General Correspondence	CEII	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=13917551
4/13/2011	P-2334-000	Submittal	Correspondence from the Massachusetts Historical Commission to William P Short re certification application to the Low Impact Hydropower Institute under P-2334.	Other Submittal	Government Agency Submittal	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=13911054
4/13/2011	P-2334-000	Submittal	Correspondence from The Commonwealth of Massachusetts to William P Short III re the Certification Application to the Low Impact Hydropower Institute for the Gardners Falls Hydroelectric Project under P-2334.	Other Submittal	Congressional Submittal	CEII	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=13920290
4/1/2011	P-2334-000	Issuance	Dam Safety Inspection Report by NYRO for North American Energy Alliance,LLC(NAEA) for the Gardners Falls Project for the period July 18, 2007 to September 30, 2010 under P-2334.	FERC Report/Study	Dam Safety Inspection Report/Operation Report	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=13906054
4/1/2011	P-2334-000	Issuance	Dam Safety Inspection Report by NYRO for North American Energy Alliance,LLC(NAEA) for the Gardners Falls Project for the period July 18, 2007 to September 30, 2010 under P-2334.	FERC Report/Study	Dam Safety Inspection Report/Operation Report	CEII	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=13906055
3/24/2011	Multiple	Issuance	Letter to NAEA Energy Massachusetts, LLC re their review of the 2010 Dam Surveillance and Monitoring Reports for the Gardners Falls Project et al under P-2334 et al.	FERC Correspondence With Applicant	General Correspondence	CEII	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=13906829
3/21/2011	P-2334-000	Submittal	Correspondence from Massachusetts Historical Commission to William P. Short re the Gardners Falls Hydro Project under P-2334.	Other Submittal	Government Agency Submittal	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=13904240
3/21/2011	P-2334-000	Submittal	The Commonwealth of Massachusetts submits comments re the certification application to the Low Impact Hydropower Institute for the Gardners Falls Hydroelectric Project under P-2334	Other Submittal	Government Agency Submittal	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=13904297
3/1/2011	Multiple	Submittal	North American Energy Alliance, LLC requests changes to the official service list under P-10675 et al.	Pleading/Motion	Procedural Motion	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=13898872

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3/1/2011	Multiple	Submittal	NAEA Energy Massachusetts, LLC submits annual report on minimum flow releases at the Dwight Project et al under P-10675 et al.	Report/Form	Annual Water Quality/Minimum Flow	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=13898381
3/1/2011	P-2334-000	Submittal	NAEA Energy Massachusetts, LLC submits letter notifying the Commission that there have been no changes in land use upstream and downstream of the Gardners Falls Project under P-2334.	Report/Form	EAP Testing Report	Public	https://elibrary.ferc.gov/idmws/search/intermediate.asp?link_info=yes&doclist=13898382