| 1. | General facility | v information. | Please | provide the | following | information | about the facility. | |
|----|-------------------------|----------------|--------|-------------|-----------|-------------|---------------------|---|
| | | , | | | | , | | - |

| a) Name of facility: Bear Swamp Substation | Mailing Address for the Facility: 40 Sylvan Road, E3687 | | | | |
|--|--|---|--|--|--|
| | Waltham, MA 02451 | | | | |
| b) Location Address of the Facility (if different from mailing address): Tunnel Road Rowe, MA 01367 | Facility Location longitude: <u>-72.9495</u> latitude: <u>42.6839</u> | Type of Business: Electrical substation Facility SIC codes: | | | |
| c) Name of facility owner: <u>New England Power Company</u> Ov (781) 907-3649 Owner's Fax #: | vner's email: <u>_andrea.agostino</u> | @nationalgrid.com | _ Owner's Tel #: _ Address of owner | | |
| (if different from facility address) 40 Sylvan Road, E3687 Waltham, MA 02451 Owner is (check one): 1. Federal2. State3. Private4. Other <u>X</u> (Describe) <u>Electric Utility Company</u> | | | | | |
| Legal name of Operator, if not owner: Same as owner | | | | | |
| Operator Contact Name: | | | | | |
| Operator Tel Number: Fax Nun | nber: | | | | |
| Operator's email: | | | | | |
| Operator Address (if different from owner) | | | | | |
| • d) Attach a topographic map indicating the location of the facility and the outfall(s) to the receiving water. Map attached? <u>X</u> | | | | | |
| e) Check Yes or No for the following: 1. Has a prior NPDES permit been granted for the discharge? 2. Is the discharge a "new discharger" as defined by 40 CFF 3. Is the facility covered by an individual NPDES permit? Yes 4. Is there a pending application on file with EPA for this disc | Yes No_X If Yes, Per Section 122.2? YesX No_XIf Yes, Permi harge? Yes NoX | rmit Number: No t Number _ If Yes, date of submittal: | | | |

| 2. Discharge information | . Please provide | e information about the | e discharge, (a | ttaching | additional sheets as needed) |
|--------------------------|------------------|-------------------------|-----------------|----------|------------------------------|
|--------------------------|------------------|-------------------------|-----------------|----------|------------------------------|

| State water Quality Classification: Lisss B | a) Name of receiving water into which discharge will occur: <u>St</u> | eele Brook | | |
|--|---|---|----------------------------|---|
| b) Describe the discharge activities for which the owner/applicant is seeking coverage: Construction dewatering of groundwater intrusion and/or storm water accumulation. Short-term or ong-termidewatering of foundation sumps. Other. c) Number of outfalls | State water Quality Classification: <u>Class B</u> | Freshwater: | <u>Yes</u> | Marine water: |
| Number of outfalls _1 | b) Describe the discharge activities for which the owner/applica 1. Construction dewatering of groundwater intrusion and/o 2. Short-term or long-term dewatering of foundation sumps 3. Other. | ant is seeking cove r storm water accun | rage: Iulation | |
| For each outfall: d) Estimate the maximum daily and average monthly flow of the discharge (in gallons per day - GPD). Max Daily Flow8,700 GPD Average Monthly Flow1,000GPD e.) What is the maximum and minimum monthly pH of the discharge (in s.u.)? Max pH8.5 s.u Min pH6.5 s.u f.) Identify the source of the discharge (i.e. potable water, surface water, or groundwater). If groundwater, the facility shall submit effluent test results, as required in Section 4.4.5 of the General Permit Groundwater - Lab Data Attached g.) What treatment does the wastewater receive prior to discharge? An oil water separator will be installed at the last manhole before discharge. h.) Is the discharge continuous? Yes NoX If no, is the discharge periodic (P) (occurs regularly, i.e., monthly or seasonally, but is not continuous all year) or intermittent (I) (occurs sometimes but not regularly) or both (B) B | c) Number of outfalls_1 | | | |
| d) Estimate the maximum daily and average monthly flow of the discharge (in gallons per day - GPD). Max Daily Flow <u>8,700</u> GPD Average Monthly Flow <u>1,000</u> GPD e.) What is the maximum and minimum monthly pH of the discharge (in s.u.)? Max pH_<u>8.5 s.u.</u> Min pH_<u>6.5 s.u.</u> f.) Identify the source of the discharge (i.e. potable water, surface water, or groundwater). If groundwater, the facility shall submit effluent test results, as required in Section 4.4.5 of the General Permit Groundwater - Lab Data Attached g.) What treatment does the wastewater receive prior to discharge? An oil water separator will be installed at the last manhole before discharge. h.) Is the discharge continuous? Yes <u>No X</u> If no, is the discharge periodic (P) (occurs regularly, i.e., monthly or seasonally, but is not continuous all year) or intermittent (I) (occurs sometimes but not regularly) or both (B) <u>B</u> If (P), number of days or months per year of the discharge <u>and the specific months of discharge</u> Is the discharge temporary? Yes <u>No X</u> If yes, approximate start date of dewatering <u>3/30/17</u> approximate end date of dewatering <u>N/A</u> i.) Latitude and longitude of each discharge within 100 feet (See <u>http://www.epa.gov/tri/report/siting_tool</u>): Outfall 1: long. <u>-72.949523°</u> Iat. <u>42.684800°</u>; j.) If the source of the discharge is potable water, please provide the reported or calculated seven day-ten year lowflow(7Q10) of the receiving water and attach any calculation sheets used to support stream flowand dilution calculations <u>N/A - Not Potable Water</u> (See Appendix VII for equations and additional information) | For each outfall: | | | |
| f.) Identify the source of the discharge (i.e. potable water, surface water, or groundwater). If groundwater, the facility shall submit effluent test results, as required in Section 4.4.5 of the General Permit. – Groundwater – Lab Data Attached g.) What treatment does the wastewater receive prior to discharge? An oil water separator will be installed at the last manhole before discharge. h.) Is the discharge continuous? YesNoX If no, is the discharge periodic (P) (occurs regularly, i.e., monthly or seasonally, but is not continuous all year) or intermittent (I) (occurs sometimes but not regularly) or both (B)B | d) Estimate the maximum daily and average monthly flow of the GPD Average Monthly Flow <u>1,000</u> GPD e.) What is the maximum and minimum monthly pH of the dischard | discharge (in gallo arge (in s.u.)? Max | ns per d oH_ <u>8.5</u> | ay – GPD). Max Daily Flow8,700 s.u Min pH6.5 s.u |
| g.) What treatment does the wastewater receive prior to discharge? An oil water separator will be installed at the last manhole before discharge. h.) Is the discharge continuous? YesNoX If no, is the discharge periodic (P) (occurs regularly, i.e., monthly or seasonally, but is not continuous all year) or intermittent (I) (occurs sometimes but not regularly) or both (B)B | f.) Identify the source of the discharge (i.e. potable water, surfa effluent test results, as required in Section 4.4.5 of the Ge | ce water, or ground neral Permit. – Gro | water). undwate | If groundwater, the facility shall submit er – Lab Data Attached |
| h.) Is the discharge continuous? YesNoXIf no, is the discharge periodic (P) (occurs regularly, i.e., monthly or seasonally, but is not continuous all year) or intermittent (I) (occurs sometimes but not regularly) or both (B)B | g.) What treatment does the wastewater receive prior to disch discharge. | harge? An oil water | separato | or will be installed at the last manhole before |
| If (P), number of days or months per year of the discharge and the specific months of discharge; If (I), number of days/year there is a discharge Is the discharge temporary? Yes NoX If yes, approximate start date of dewatering 3/30/17 approximate end date of dewatering | h.) Is the discharge continuous? YesNoX Is seasonally, but is not continuous all year) or intermittent (I) | f no, is the discharg) (occurs sometime | e perioo s but no | dic (P) (occurs regularly, i.e ., monthly or t regularly) or both (B)B |
| Is the discharge temporary? Yes NoX If yes, approximate start date of dewatering <u>3/30/17</u> approximate end date of dewatering <u>N/A</u> i.) Latitude and longitude of each discharge within 100 feet (See <u>http://www.epa.gov/tri/report/siting_tool</u>): Outfall 1: long. <u>-72.949523°</u> lat. <u>42.684800°</u> ; j.) If the source of the discharge is potable water, please provide the reported or calculated seven day-ten year lowflow(7Q10) of the receiving water and attach any calculation sheets used to support stream flowand dilution calculations <u>N/A - Not Potable</u> <u>Water</u> (See Appendix VII for equations and additional information) | If (P), number of days or months per year of the discharge ; If (I), number of days/year there is a discharge | and the sp | ecific m | onths of discharge _ |
| If yes, approximate start date of dewatering <u>3/30/17</u> approximate end date of dewatering <u>N/A</u> i.) Latitude and longitude of each discharge within 100 feet (See <u>http://www.epa.gov/tri/report/siting_tool</u>): Outfall 1: long. <u>-72.949523°</u> lat. <u>42.684800°</u> ; j.) If the source of the discharge is potable water, please provide the reported or calculated seven day-ten year lowflow(7Q10) of the receiving water and attach any calculation sheets used to support stream flowand dilution calculations <u>N/A</u> - <u>Not Potable</u> <u>Water</u> (See Appendix VII for equations and additional information) | Is the discharge temporary? Yes NoX | | | |
| i.) Latitude and longitude of each discharge within 100 feet (See http://www.epa.gov/tri/report/siting_tool): Outfall 1: long. -72.949523° lat42.684800° ; j.) If the source of the discharge is potable water, please provide the reported or calculated seven day-ten year lowflow(7Q10) of the receiving water and attach any calculation sheets used to support stream flowand dilution calculations | If yes, approximate start date of dewatering <u>3/30/17</u> | approximate end o | late of o | dewatering <u>N/A</u> |
| j.) If the source of the discharge is potable water, please provide the reported or calculated seven day-ten year lowflow(7Q10) of the receiving water and attach any calculation sheets used to support stream flowand dilution calculations <u>N/A - Not Potable</u> Water (See Appendix VII for equations and additional information) | i.) Latitude and longitude of each discharge within 100 feet (See <u>-72.949523°</u> lat. <u>42.684800°</u> ; | http://www.epa.go | ov/tri/r | eport/siting tool): Outfall 1: long. |
| (See Appendix VII for equations and additional information) | j.) If the source of the discharge is potable water, please provide receiving water and attach any calculation sheets used to s <u>Water</u> | e the reported or cal upport stream flow | culated and dilu | l seven day-ten year lowflow(7Q10) of the ution calculations <u>N/A</u> - Not Potable |
| · ·· · · · · · | (See Appendix VII for equations and additional information | n) | | |

MASSACHUSETTS FACILITIES: See Section 3.4 and Appendix 1 of the General Permit for more information on Areas of Critical Environmental Concern (ACEC):

k.) Does the discharge occur in an ACEC? Yes _____ No_X If yes, provide the name of the ACEC:

3. Contaminant Information

- a) Are any pH neutralization and/or dechlorination chemicals used in the discharge? If so, include the chemical name and manufacturer; maximum and average daily quantity used as well as the maximum and average daily expected concentrations (mg/l) in the discharge, and the vendor's reported aquatic toxicity (NOAEL and/or LC50 in percent for aquatic organism(s)). - No
- b) Please report any known remediation activities or water-quality issues in the vicinity of the discharge. None known

4. Determination of Endangered Species Act Eligibility: Provide documentation of ESA eligibility as required at Part 3.4 and Appendix IV. In addition, respond to the following questions.

- a) Which of the three eligibility criteria listed in Appendix IV, Criterion (A, B, or C) have you met? <u>A</u>
- b) Please attach documentation with your NOI supporting your response. Please see Appendix IV for acceptable documentation

5. Documentation of National Historic Preservation Act requirements: Please respond to the following questions:

- a) See Screening Process in Appendix III and respond to questions regarding your site and any historic properties listed or eligible for listing on the National Register of Historic Places. Question 1: Yes <u>X</u> No <u>Yes</u>; Question 2: No <u>X</u> Yes <u>Yes</u>
- b) Have any State or Tribal historic preservation officers been consulted in this determination? Yes _____ or No __X_ If yes, attach the results of the consultation(s).
- c) Which of the three National Historic Preservation Act eligibility criterion listed in Appendix III, Criterion (A, B, or C) have you met?
- d) Is the project located on property of religious or cultural significance to an Indian Tribe? Yes _____ or No __X_ If yes, provide that name of the Indian Tribe associated with the property. ______

6. Supplemental Information: Please provide any supplemental information. Attach any analytical data used to support the application. Attach any certification(s) required by the general permit. – See Appendices

7. Signature Requirements: The Notice of Intent must be signed by the operator in accordance with the signatory requirements of 40 CFR Section 122.22 (see below) including the following certification:

I certify under penalty of law that (1) no blocides or other chemical additives except for those used for pH adjustment and/or dechlorination are used in the dewatering system; (2) the discharge consists solely of dewatering and authorized pH adjustment and/or dechlorination chemicals; (3) the discharge does not come in contact with any raw materials, intermediate product, water product or finished product; (4) if the discharge of dewatering subsequently mixes with other permitted wastewater (i.e. stormwater) prior to discharging to the receiving water, any monitoring provided under this permit will be only for dewatering discharge; (5) where applicable, the facility has complied with the requirements of this permit specific to the Endangered Species Act and National Historic P reservation Act; and (6) this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted.

Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, I certify that the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I certify that I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

| Facility Name: Bear Swamp Substation |
|---|
| Operator signature: Chul Ciblad |
| Print Full Name and Title: Charles Willard, Authorized Representative |

Federal regulations require this application to be signed as follows:

- 1. For a corporation, by a principal executive officer of at least the level of vice president;
- 2. For partnership or sole proprietorship, by a general partner or the proprietor, respectively, or,
- 3. For a municipality, State, Federal or other public facility, by either a principal executive officer or ranking elected official.

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APPENDIX B



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V:\Projects\N\N0875\BearSwampSubstation RoweMA Resource.mxd

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