

Brookfield

Brookfield Renewable Power Inc.
Bear Swamp Power Company, LLC
P.O. Box 461
Rowe, MA 01367

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www.brookfieldpower.com

3/4/10
received
MA0360011

February 11, 2010

US Environmental Protection Agency
Hydroelectric GP Processing
Municipal Assistance Unit (OEP06-3)
5 Post Office Square - Suite 100
Boston, MA 02109-3912

NPDES Permit No.
MA0034886 – Bear Swamp Cockwell
MA0034878 – Bear Swamp Fife Brook

BSPC EMS File: 03/Permitting

Re: Federal Register Notice FRL-8984-5
General Permits for Discharges at Hydroelectric Generating Facilities
Massachusetts
Notice of Intent

As a follow-up to the letter received from the Environmental Protection Agency (EPA) dated January 14, 2010, enclosed for the EPA's review are Hydro General Permit (HGP) Notices of Intent (NOI) for Bear Swamp Power Company's (BSPC) Cockwell and Fife Brook hydroelectric generating stations on the Deerfield River in Massachusetts.

Per the HGP instructions, copies of the NOIs were also sent to Massachusetts Department of Environmental Protection (MDEP). If you need any additional information on these NOIs, please contact me at 508-251-7654, or clare.kirk@brookfieldpower.com.

Sincerely,

Clare S. Kirk

Clare S. Kirk
Licensing and Compliance Specialist

Enclosures

Cc: P. Moriarty, K. Thane, K. Bernier, B. Stetson, L. Sorensen, M. Jiganti; BSPC

Massachusetts Department of Environmental Protection
Division of Watershed Management
627 Main Street, 2nd Floor
Worcester, MA 01608

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND - REGION I
5 POST OFFICE SQUARE, SUITE 100
BOSTON, MASSACHUSETTS 02109-3912

Request for General Permit Authorization to Discharge Wastewater
(Notice of Intent (NOI) to be covered by the General Permit)

Hydroelectric Generating Facilities (HYDROGP)
NPDES General Permits No. MAG360000 and NHG360000

A. Facility Information

1. Indicate applicable General Permit for discharge: MAG360000 ☒
NHG360000 ☐
2. Facility Name, Location, and Data:
Name Fife Brook Generating Station
Street/PO Box 370 River Rd. City Florida
State MA Zip Code 01247
Latitude 42°41'5.60"N Longitude 72°58'38.43"W
Type of Business Hydroelectric generating station
SIC Code(s) 4911
3. Facility Mailing Address (if different from Location Address):
Name Bear Swamp Power Company LLC
Street/PO Box PO Box 461 City Rowe
State MA Zip Code 01367
4. Facility Owner:
Name Bear Swamp Power Company LLC e-mail (optional) & patrick.moriarty@brookfieldpower.com
Street/PO Box PO Box 461 City Rowe
State MA Zip Code 01367
Contact Person Patrick Moriarty Telephone Number 802-423-7015
Owner is (check one): 1. Federal ☐ 2. State ☐ 3. Tribal ☐ 4. Private ☒
Other (Describe) _____
5. Facility Operator (if different from above):
Legal Name _____ e-mail (optional) _____
Street/PO Box _____ City _____
State _____ Zip Code _____
Contact Person _____ Telephone Number _____
6. Current permit status (please check Yes or No):
 - a. Has a prior NPDES permit (individual or general permit coverage) been granted for the discharge that is listed on the NOI? Yes ☒ No ☐ If Yes, Permit Number: MA0034878
 - b. Is the facility covered by an individual NPDES permit? Yes ☒ No ☐
If Yes, Permit Number MA0034878
 - c. Is there a pending NPDES application on file with EPA for this discharge? Yes ☒ No ☐ If Yes, date of submittal: 9/22/02 and permit number if available: _____

NOI Information - NPDES Hydroelectric Facilities General Permit

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7. Attach a topographic map indicating the location of the facility and the outfall(s) to the receiving water. Map attached? Yes See Attachment A

8. Provide the number of turbines and the combined turbine discharge (installed capacity) at maximum and minimum output, in cubic feet per second (cfs). Number of turbines 1 Combined turbine discharge (installed capacity): maximum output, cfs 1,500 and minimum output, cfs 650

9. Is the hydroelectric generating facility operated as a pump storage project? YES

B. Discharge Information (attach additional sheets as needed).

1. Name of receiving water into which discharge will occur: Deerfield River

Freshwater: X Marine Water: _____

2. Attach a line drawing or flow schematic showing water flow through the facility including sources of intake water, operations contributing flow, treatment units, outfalls, and receiving waters(s). Line drawing or flow schematic attached? Yes See Attachment B

3. List each outfall under the following categories and number sequentially: equipment-related cooling water; equipment and floor drain water; maintenance-related water; facility maintenance-related water during flood/high water events, and equipment-related backwash strainer water (see Parts I.A.1, 2, 3, and 4; or Parts I.B.1, 2, 3, and 4). Attach additional sheets to identify outfalls as needed.

Equipment-related cooling water

#002 - Bearing cooling water,
avg. 196,000 gpd

Equipment and floor drain water

#001 - Station sump,
avg. 80,000 gpd,
treated using an
oil floatation well

Maintenance-related water

Facility maintenance-related water during
flood/high water events

Equipment-related backwash strainer water

4. List each outfall discharging any combination of the following to identify the combined discharges: equipment-related cooling water, equipment and floor drain water, maintenance-related water, equipment-related backwash strainer water, and facility maintenance-related water during flood/high water events (see Parts I.A.5 and B.5) and continue the sequential numbering. Attach additional sheets to identify outfalls as needed.

NOI Information - NPDES Hydroelectric Facilities General Permit

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#4 (cont.)

#003 - Bearing cooling water and strainer backwash; avg. 20,000 gpd

5. Provide for each outfall the following:

- a. Latitude and longitude to the nearest second (see EPA's siting tool at: http://www.epa.gov/tri/report/siting_tool/) and the name(s) of the receiving water(s) into which the discharge will occur.
#001, 002, 003 - 42°41'4.61"N/ 72°58'38.13"W Deerfield River
- b. The operations contributing flow and the treatment received by the discharge. Indicate the average flow from each operation. Please see answers provided in #3 and #4 (above).
- c. Indicate if the discharge can be sampled at least once per year or can be sampled using the representative outfall sampling provisions (see Parts I.A.6 or B.6 and III.E). Yes, discharge can be sampled.
- d. Note if the outfall discharges intermittently or seasonally. Year-round discharge.

C. Chemical Additives

Are any non-toxic neutralization chemicals used in the discharge(s)? Yes _____ No ^x_____ If so, include the chemical name and manufacturer; maximum and average daily quantity used on a monthly basis 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 typically acceptable aquatic organism).

D. Endangered Species Act Eligibility Information

A facility, with a previous ESA Section 7 consultation with the National Marine Fisheries Service (NMFS), seeking coverage under the Massachusetts general permit and discharging to the Connecticut River or Merrimack River should provide one of the following, if available. N/A

1. A formal certification indicating consultation with the National Marine Fisheries Service (NMFS) resulted in either a no jeopardy opinion or a written concurrence on a finding that the discharges are not likely to adversely affect the shortnose sturgeon or critical habitat. Information should also be provided indicating the hydroelectric facility's previous ESA Section 7 consultation with NMFS covered the discharges to be authorized under this general permit and demonstrating no significant changes in the discharges have occurred since the previous consultation.

2. Another operator's certificate of the ESA eligibility for those discharges to be authorized under this general permit.

E. Supplemental Information

Please provide any supplemental information, including antidegradation review information applicable to new or increased discharges. Attach any certification(s) required by the general permit.

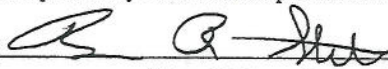
F. Signature Requirements

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 no chemical additives are used in the discharges to be authorized under this general permit except for those used for pH adjustment and (2) 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.

Signature



Date 2/9/2010

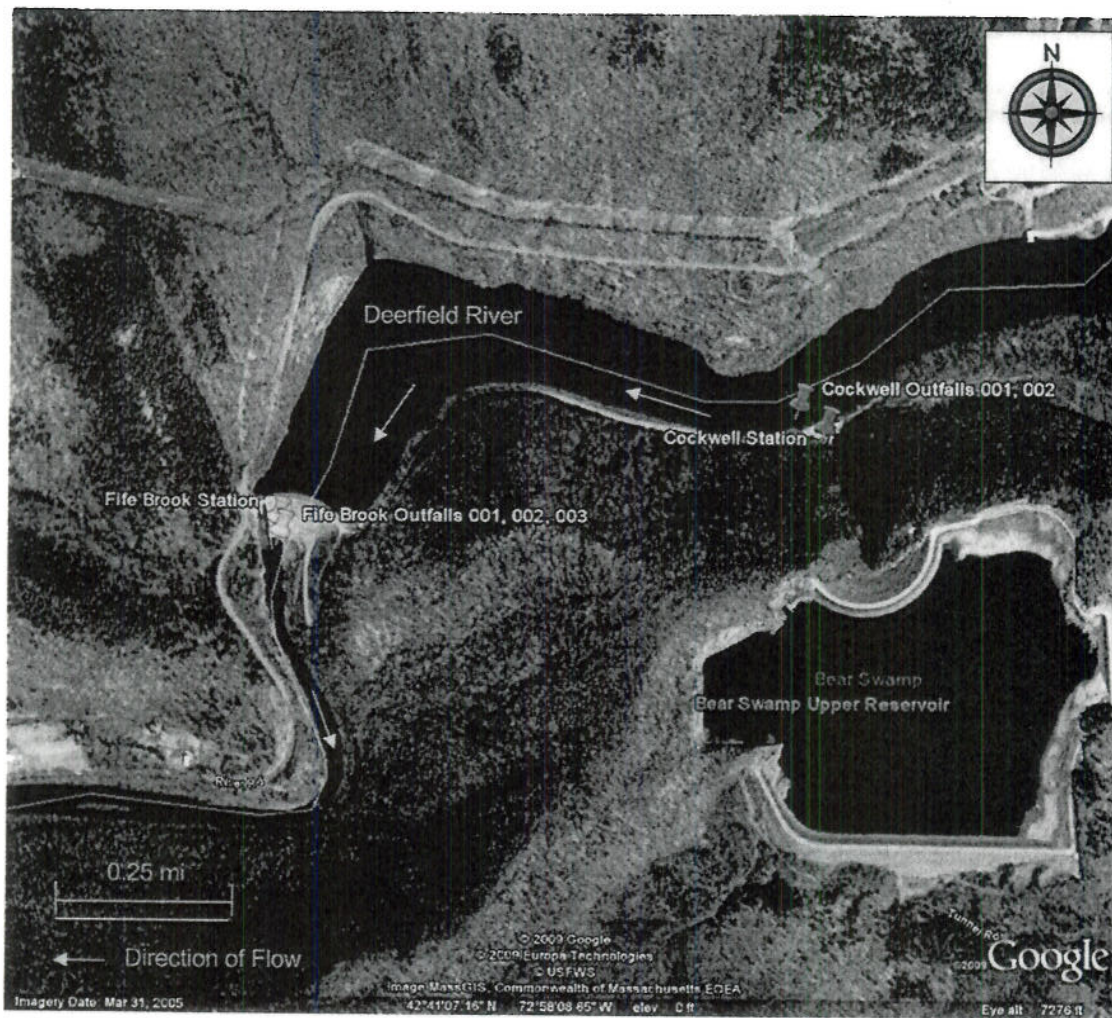
Printed Name and Title

Brian Stetson, General Manager

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.

ATTACHMENT A



BEAR SWAMP POWER COMPANY
FIFE BROOK STATION
370 RIVER RD.
FLORIDA, MA

NPDES HYDRO GENERAL PERMIT NOI
JANUARY 2010

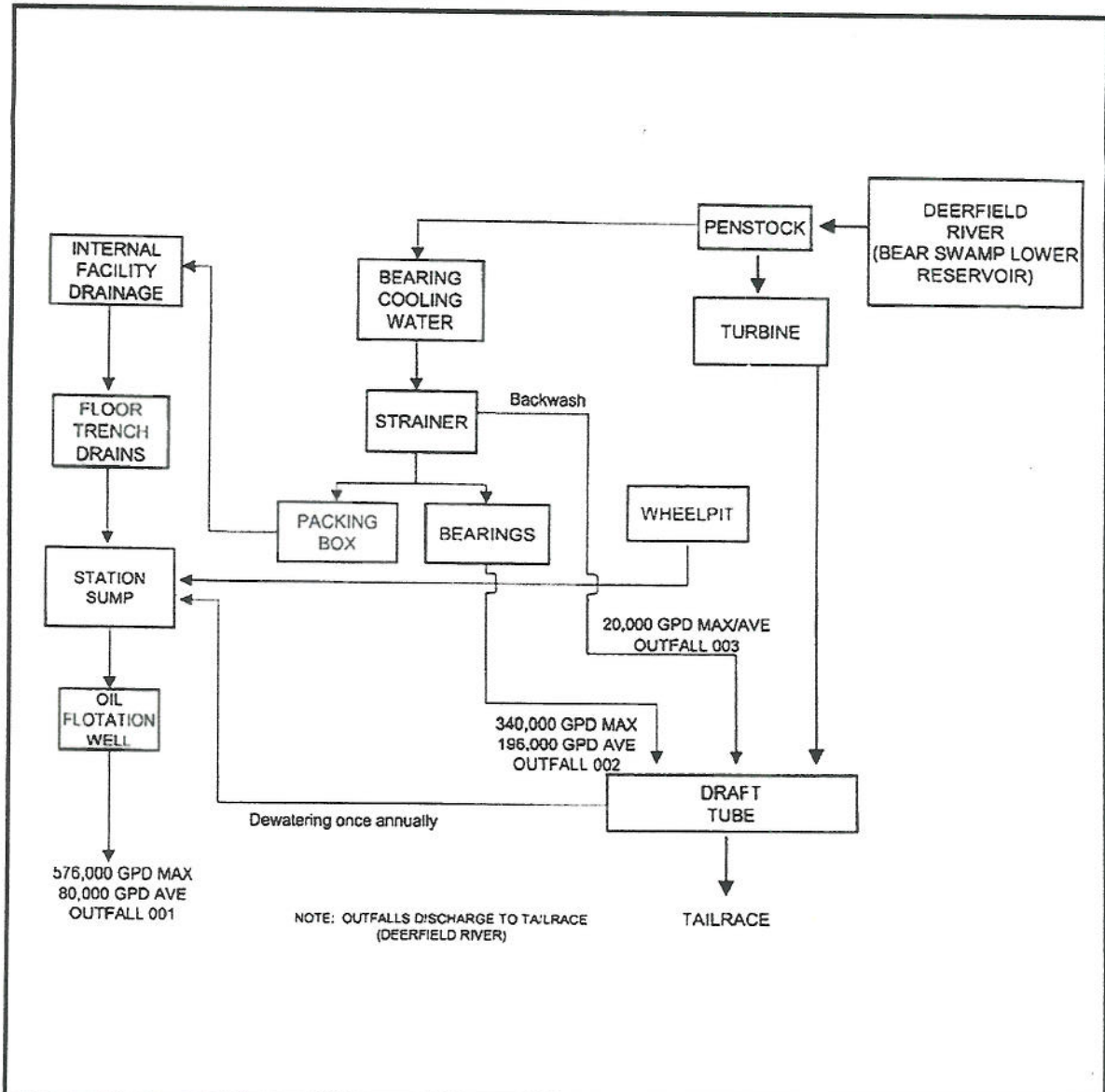
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ATTACHMENT B



BEAR SWAMP POWER COMPANY
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