October 14, 2004

Regulatory Division
CFNAE-R-PEA
Permit Number: NAE-2004-1088

Yankee Atomic Electric Company
Attn: James A. Kay
49 Yankee Road
Rowe, Massachusetts 01367

Dear Mr. Kay:

We have reviewed your application to discharge dredged and/or fill material into approximately 27,560 square feet of waters of the United States, associated with the Sherman Reservoir and tributaries of the Deerfield River as part of the decommissioning of the Yankee Nuclear Power Station in Rowe, Massachusetts. This project site is located at 49 Yankee Road in Rowe, Massachusetts. The Decommissioning Project will involve removing PCB-impacted sediments and road sand from a section of Sherman Reservoir adjacent to the East Storm Drain as well as from the West Storm Drain channel, removing portions of the power station intake pipe and discharge structures that are located within Sherman Reservoir and abandoning underground portions of these structures by scaling them and restoring the reservoir bottom; and regrading upland portions of the site, which includes extending the crest of the Sherman Dam and altering on-site drainage patterns. The removal of PCB-impacted sediments at the East Storm Drain will be accomplished using a barge-mounted crane with an environmental bucket. Silt curtains will be installed around this area in order to prevent the off-site migration of contaminated sediments. Removal of PCB-impacted sediment and road sand from the West Storm Drain Channel will be accomplished using an excavator and/or manual methods. Water will be diverted around the East and West Storm Drain systems during the sediment removal phase of these projects. Approximately 2000 cubic yards of dredged material from the Sherman Reservoir and the West Storm Drain Channel will be dewatered and stabilized on-site and then this material will be deposited at an upland disposal site. The applicant will use similarly sized riprap when restoring the intake and discharge sites. This work is described on the enclosed plans entitled “Yankee Nuclear Power Station” on 23 sheets and dated “5/7/04” and revised “8/12/04”.

Based on the information you have provided, we have determined that the proposed activity, which includes a discharge of dredged or fill material into waters or wetlands, will have only minimal individual or cumulative environmental impacts. Therefore, this work is authorized as a Category 2 activity under the Federal permit, Massachusetts Programmatic General Permit (PGP), provided you comply with the following special conditions:

1. Adequate sedimentation and erosion control devices, such as geotextile silt fences or other devices capable of filtering the fines involved, shall be installed and properly maintained to minimize adverse impacts on waters and wetlands during construction. These devices must be
removed upon completion of work and stabilization of disturbed areas. The sediment collected by these devices must also be removed and placed upland, in a manner that will prevent its later erosion and transport to a waterway or wetland.

2. The scheduling of dredging and dewatering shall be such that the capacity of the dewatering/containment area shall not be exceeded under any circumstances.

3. The dredging and dewatering operations shall not result in more than incidental runback into waters of the United States.

4. No waters of the United States, including jurisdictional wetlands shall be impacted as part of the dewatering and/or disposal operations.

You must perform the activity authorized herein in compliance with the special conditions provided above, all the terms and conditions of the PGP and any conditions placed on the enclosed 401 Water Quality Certification including any required mitigation. Please review the enclosed PGP carefully, including the PGP conditions beginning on page 9, to familiarize yourself with its contents. You are responsible for complying with all of the PGP requirements; therefore, you should be certain that whoever does the work fully understands all of the conditions. You may wish to discuss the conditions of this authorization with your contractor to ensure the contractor can accomplish the work in a manner that conforms to all requirements.

The Corps of Engineers has consulted with the National Marine Fisheries Service (NMFS) regarding the effects of your project on Essential Fish Habitat (EFH) designated under the Magnuson-Stevens Fishery Conservation and Management Act. The NMFS determined that this project will have no adverse effect on EFH.

If you change the plans or construction methods for work within our jurisdiction, please contact us immediately to discuss modification of this authorization. This office must approve any changes before you undertake them.

This authorization is valid until January 11, 2007, which is two years from the Massachusetts PGP’s expiration date of January 11, 2005, unless the Massachusetts PGP is modified, suspended, or revoked, such that the activity would no longer comply with the terms and conditions of the Massachusetts PGP.

This authorization requires you to notify us before beginning work and allow us to inspect the project. Therefore, you must complete and return the enclosed Work Start Notification Form to this office no later than two weeks before the anticipated starting date.

Please note that this determination does not constitute an authorization to proceed until all other applicable Federal, state and local permits are obtained. Performing work not specifically authorized by this permit, starting work without obtaining other Federal, state and local approvals, or failing to comply with the permit conditions may subject you to the enforcement provisions of our regulations.
If you have any questions, please contact Mr. Paul Sneeringer of my staff at 978-318-8491 or call toll-free within Massachusetts at 800-362-4367.

Sincerely,

[Signature]

Thomas L. Koning
Colonel, Corps of Engineers
District Engineer

Enclosures

Copies Furnished:

John McCulloch, U.S. EPA, Region I, 1 Congress Street, Suite 1100-Mail Code CWQ, Boston, Massachusetts 02114-2023
Kimberly Tisa, U.S. EPA, Region I, 1 Congress Street, Suite 1100 – Mail Code CPT, Boston, Massachusetts 02114-2023
Christopher Boelke, National Marine Fisheries Service, One Blackburn Drive, Gloucester, Massachusetts 01930-2298
Maria Tur, U.S. Fish and Wildlife Service, 70 Commercial Street, Suite 300, Concord, New Hampshire 03301-5087
David Foulis, DEP Western Regional Office, Wetlands and Waterways, 436 Dwight Street, Springfield, Massachusetts 01103
David Howland, DEP Western Regional Office, 436 Dwight Street, Springfield, Massachusetts 01103
Edward Bell, Massachusetts Historical Commission, 220 Morrissey Boulevard, Boston, Massachusetts 02125
Ellen Babcock, Town of Rowe Conservation Commission, P.O. Box 279, Rowe, Massachusetts 01367
Gregg A. Demers, Environmental Resources Management, 399 Boylston Street, 6th Floor, Boston, Massachusetts 02116
Michael Thompson, Woodlot Alternatives, Inc., 30 Park Drive, Topsham, Maine 04086
PGP WORK START NOTIFICATION FORM
(Minimum Advance Notice: Two Weeks)

MAIL TO: U.S. Army Corps of Engineers, New England District
Regulatory Division
Policy Analysis/Technical Support Branch
696 Virginia Road
Concord, Massachusetts 01742-2751

A Corps of Engineers Permit (NAE-2004-1088) was issued to Yankee Atomic Electric Company (YAEC). The permit authorized YAEC to discharge dredged and/or fill material into approximately 27,560 square feet of waters of the United States, associated with the Sherman Reservoir and tributaries of the Deerfield River as part of the decommissioning of the Yankee Nuclear Power Station in Rowe, Massachusetts. This project site is located at 49 Yankee Road in Rowe, Massachusetts. The Decommissioning Project will involve removing PCB-impacted sediments and road sand from a section of Sherman Reservoir adjacent to the East Storm Drain as well as from the West Storm Drain channel; removing portions of the power station intake pipe and discharge structures that are located within Sherman Reservoir and abandoning underground portions of these structures by scaling them and restoring the reservoir bottom; and regrading upland portions of the site, which includes extending the crest of the Sherman Dam and altering on-site drainage patterns. The removal of PCB-impacted sediments at the East Storm Drain will be accomplished using a barge-mounted crane with an environmental bucket. Silt curtains will be installed around this area in order to prevent the off-site migration of contaminated sediments. Removal of PCB-impacted sediment and road sand from the West Storm Drain Channel will be accomplished using an excavator and/or manual methods. Water will be diverted around the East and West Storm Drain systems during the sediment removal phase of these projects. Approximately 2000 cubic yards of dredged material from the Sherman Reservoir and the West Storm Drain Channel will be dewatered and stabilized on-site and then this material will be deposited at an upland disposal site. The applicant will use similarly sized riprap when restoring the intake and discharge sites. This work is described on the enclosed plans entitled “Yankee Nuclear Power Station,” on 23 sheets and dated “5/7/04” and revised “8/12/04”.

The people (e.g., contractor) listed below will do the work, and they understand the permit's conditions and limitations.

PLEASE PRINT OR TYPE

Name of Person/Firm: ____________________________________________

Business Address: ______________________________________________

Telephone: ( ) ___________________ ( ) ___________________

Proposed Work Dates: Start:

Finish:

PERMITTEE'S SIGNATURE: ______________________________ DATE: __________________
FOR USE BY THE CORPS OF ENGINEERS

PM: Paul Sneeringer

Submittals Required:

Inspection Recommendation:

________________________________________

________________________________________
Table 2
Summary of Impacts to Federally-Regulated Resource Areas
Yankee Atomic Electric Company, Rowe, MA

<table>
<thead>
<tr>
<th>Resource</th>
<th>Water Body</th>
<th>Activity</th>
<th>Maximum Impact</th>
<th>Rip-Rap</th>
<th>Common Fill or Stone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fill below Ordinary High Water</td>
<td>Sherman Reservoir</td>
<td>Sediment remediation</td>
<td>50 cubic yards</td>
<td>50</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Discharge Structure Decommissioning</td>
<td>300 cubic yards</td>
<td>300</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Intake Structure Decommissioning</td>
<td>500 cubic yards</td>
<td>400</td>
<td>100</td>
</tr>
<tr>
<td>West Storm Drain</td>
<td></td>
<td>Sediment remediation</td>
<td>50 cubic yards</td>
<td>0</td>
<td>50</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Road sand removal</td>
<td>50 cubic yards</td>
<td>0</td>
<td>50</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td></td>
<td>950 cubic yards</td>
<td>750</td>
<td>200</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sherman Reservoir</th>
<th>Sediment remediation</th>
<th>20,000 square feet</th>
</tr>
</thead>
<tbody>
<tr>
<td>Discharge Structure Decommissioning</td>
<td>3,000 square feet</td>
<td></td>
</tr>
<tr>
<td>Intake Structure Decommissioning</td>
<td>3,000 square feet</td>
<td></td>
</tr>
<tr>
<td>West Storm Drain</td>
<td>Sediment remediation</td>
<td>450 square feet</td>
</tr>
<tr>
<td></td>
<td>Road sand removal</td>
<td>1,050 square feet</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td>27,500 square feet</td>
</tr>
</tbody>
</table>

Dredging below Ordinary High Water

<table>
<thead>
<tr>
<th>Sherman Reservoir</th>
<th>Sediment Remediation</th>
<th>1,700 cubic yards</th>
</tr>
</thead>
<tbody>
<tr>
<td>West Storm Drain</td>
<td>Sediment Remediation</td>
<td>100 cubic yards</td>
</tr>
<tr>
<td></td>
<td>Road Sand Removal</td>
<td>200 cubic yards</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td>2,000 cubic yards</td>
</tr>
</tbody>
</table>


NOTE:
Stakes to be imbedded to a depth of 1'.

Flow

Silt Fence

Stake
Existing Cross Section

Discharge Pipe and Structure

Proposed Activity: Discharge Pipe

Neg. - 3004-10-86

Environmental Resources

Notes: Violent waves in stream persisted and continued.

decommissioning activities following completion of
residual to existing grade

Disputed areas to be

End of pipe will be capped

Silt Curtain

1.103' feet NGVD

Mean Annual Low Water

3.141' feet NGVD

Ordinary High Water (OHW)

1.117' feet NGVD

100 Year Flood Elevation

Discharge Structure

Circulating Water

Buffer Zone

Riverfront Area

Land Under Water

Buffer Zone

1025

1030

1035

1040

1045

1050

1055

1060

1065

1070

1075

1120

1125

1130
Decommissioning activities, grade following completion of.

Disturbed areas to be restored to existing

End of pipe will be capped.

1.1037 feet NAWD
Mean annual low water

1.1077 feet NAWD
Ordinary high water

1.1175 feet NAWD
100 year flood elevation

Bank

Rip-rap

Fill

Erosion control
covered with
loam and seed

Revegetation area

Buffer Zone

Land under Water
2. Applicability Determination

The Landfill Restoration Project involves the restoration and disposal of contamination at the site of the United States, including the proposed landfill gas recovery. There will be no discharge of contamination.