

YNPS LICENSING CORRESPONDENCE COVER SHEET

DESCRIPTION: Letter, K. Dow (YAEC) to L. Oi (DEP)

SUBJECT: Initial Site Assessment (ISA) Report - SE Construction Fill Area, YNPS

SUMMARY: Transmittal of the ISA Report for the Southeast Construction Landfill Area along with Transmittal Form for Permit Application and Payment, and the BWP SW 12 Initial Site Assessment Form with required certification.

DOCUMENT NO: BYR 2000-025 **DOCUMENT DATE:** 03/14/2000

RESPONSIBILITY/BASIS:

DUE DATE:

FSAR APPLICABLE: No

Distribution:

J. M. Oddo
C. R. Clark
R. A. Marcello
J. H. Snooks
Licensing File

M. J. Atkins
R. W. Capstick
W. J. Meyers
K. W. Dow
E. Heath
D. A. Reid
M. Terrell
F. N. Williams
DCC YNPS

H. Chang (Ropes & Gray)
D. Yates

YANKEE ATOMIC ELECTRIC COMPANY

Telephone (413) 424-5261



49 Yankee Road, Rowe, Massachusetts 01367

March 14, 2000
BYR 2000-25

Ms. Loretta Oi, Section Chief
Division of Solid Waste Management
Massachusetts Department of Environmental Protection
436 Dwight Street
Springfield, MA 01103

Subject: Initial Site Assessment (ISA) Report
Southeast Construction Fill Area, Yankee Nuclear Power Station

Dear Ms. Oi:

References:

1. Letter, Mr. K.W. Dow, Duke Engineering and Services (DE&S) to Massachusetts DEP, "Transmittal Form for Permit Application and Payment", dated March 14, 2000, BYR-2000-24
2. Letter, Ms. L. Oi, Massachusetts Department of Environmental Protection (DEP) to Yankee Atomic Electric Company (YAEC), c/o Mr. M. Atkins, (DE&S), "Rowe-DSWM-Landfill SE Construction Fill Area, Yankee Nuclear Power Station, 49 Yankee Road, 99-253-008," dated November 4, 1999
3. Letter, Mr. M. Atkins, DE&S, to Ms. L. Oi, DEP, "Letter of Clarification Concerning Initial Site Assessment (ISA) Activities Southeast Construction Fill Area," dated December 1, 1999.
4. Letter, Ms. L. Oi, DEP, YAEC, c/o Mr. M. Atkins, DE&S, "Rowe-DSWM-Landfill SE Construction Fill Area, Yankee Nuclear Power Station, 49 Yankee Road, 99-253-008," dated January 26, 2000.

This correspondence transmits the Initial Site Assessment (ISA) Report for the Southeast Construction Landfill Area located at the Yankee Nuclear Power Station (YNPS) in Rowe, Massachusetts. In addition, enclosed are the Massachusetts DEP Transmittal Form for Permit Application and Payment, and the BWP SW 12 Initial Site Assessment Form with required certification. A copy of the Transmittal Form for Permit Application and Payment, in addition to the required application fee of \$700.00, was transmitted to DEP offices in Boston, Massachusetts under separate cover (Reference 1).

Background

The Southeast Construction Fill Area (SCFA) has been classified as a construction and demolition (C&D) fill area by the Department of Environmental Protection (DEP). The SCFA consists of 1.2 acres of native fill and C&D fill material (i.e., concrete, asphalt, wood and metal debris) averaging 15 feet in thickness. During initial plant construction activities, native soil and boulders were deposited in this area. Additional native material and some C&D debris were generated and added to the SCFA during plant construction projects conducted from the 1960s through the mid-1980s. The SCFA has been inactive since the mid-1980s. YNPS, which is owned by Yankee Atomic Electric Company (YAEC), was shut down permanently in 1992 and is currently being decommissioned. The SCFA is isolated within the YNPS secured facility and is not accessible to the public. The SCFA is not site assigned.

ISA Report

The enclosed report documents the Initial Site Assessment (ISA) of the Southeast Construction Fill Area (SCFA), located at the Yankee Nuclear Power Station (YNPS) in Rowe, Massachusetts. The ISA was conducted in accordance with the Department of Environmental Protection (DEP), Division of Solid Waste Management regulations, 310 CMR 19.150 and the Landfill Technical Guidance Manual. The ISA was conducted by our environmental consultant, Environmental Resources Management (ERM), under contract with Duke Engineering and Services, Inc. (DE&S). DES is the authorized representative of YAEC.


The ISA Scope of Work (SOW) included: site reconnaissance, review of site history and previous studies, review of local and state regulatory agency files, summary of the hydrogeologic and topographic conditions, and development of a CSA work plan. The purpose of the ISA was to gather information regarding the site history, site characteristics, and other data necessary to provide the basis for developing a Comprehensive Site Assessment (CSA) SOW.

The ISA was expanded to include a field program to characterize the potential for impact from the SCFA on local receptors and the surrounding environment. The expanded site characterization investigations were conducted to fulfill Comprehensive Site Assessment (CSA) requirements, pursuant to 310 CMR 19.150(5). This included: geophysical surveys and test pit excavations to characterize the nature and extent of the fill material; installation of groundwater monitoring wells to evaluate site hydrogeologic conditions; and the sampling of soil, groundwater and surface water to evaluate the potential for environmental impacts from the site to surrounding media.

The purpose of the Comprehensive Site Assessment (CSA) will be to evaluate the nature and extent of soil, groundwater, and surface water and landfill gas impacts at the site. In general, the CSA SOW includes an ISA summary, appropriate mapping, a field program, and preparation of the CSA report. The proposed field program includes gas probe installation; groundwater and surface water sampling; landfill gas monitoring; hydraulic conductivity testing; and, a site location and elevation survey. This SOW was prepared in accordance with the Solid Waste Management Regulations, 310 CMR 19.150, and the Landfill Technical Guidance Manual. The CSA will be completed for the site based upon MADEP recommendations.

Should there be any questions or additional information required, please do not hesitate to contact me at the Yankee Nuclear Power Station at (413) 424-2245.

Very truly yours,


Kenneth W. Dow
Environmental Engineering Supervisor
Duke Engineering & Services

Enclosures: Transmittal Form for Application and Payment
Landfill Assessment and Closure Form
ISA Report



Enter your Transmittal #

Your unique Transmittal Number can be accessed through DEP's web site or by calling the DEP InfoLine as listed on the last page of this document

Massachusetts Department of Environmental Protection

Transmittal Form for Permit Application and Payment

A. Application Information

Permit, approval or other category: (7 or 8 character code from first page of "How to Apply" instructions. e.g. BWPAQ01, BRPWP59b, etc.)

Name of Permit Category Initial Site Assessment

Brief Project Description Southeast Construction Fill Area

B. Applicant or Legally Responsible Official

Last Name Williams First Name Frederick Middle Initial N.

Address 49 Yankee Road

City/Town Rowe State MA Zip Code 01367 Telephone Number (413) 424-5261

Contact Kenneth W. Dow (413) 424-2245

C. Facility, Site or Individual Requiring Approval

Name of Facility, Site or Individual Southeast Construction Fill Area

Address Yankee Nuclear Power Station, 49 Yankee Road

City/Town Rowe State MA Zip Code 01367 Telephone Number (413) 424-5261

D. Application Prepared by (if different from Section B)

Environmental Resources Management

Last Name _____ First Name _____ Middle Initial _____

Address 399 Boylston Street, 6th Floor

City/Town Boston State MA Zip Code 02116 Telephone Number 617 267-8377

Contact Mr. John McTigue LSP Number (for 21E only) _____

For DEP Use Only
Permit No _____
Rec'd Date _____
Reviewer _____
 Approved Denied
Decision Date _____

E. Multiple Permit Project Coordination

DEP offers coordinated reviews of multiple permit projects. Check here if this application is part of a larger project for which two or more DEP permits are being or will be sought. Please indicate the project's EOE file number (assigned when an Environmental Notification Form [ENF] is submitted to the Massachusetts Environmental Policy Act [MEPA] unit.)

EOEA#

Project is not subject to MEPA

Is this the first DEP permit application submitted for the project? yes no. If no, indicate previously assigned DEP Project Code:

List the other DEP permits that apply to this project

Permit Category	Date of Submission (tentative or actual)	Transmittal Number (if application already submitted)
N/A		

F. Amount Due

- Special Provisions:
- Fee Exempt* (city, town or municipal housing authority) (state agency if fee is \$100 or less)
 - Hardship Request (payment extensions according to 310 CMR 4.04(3)(c))
 - Alternative Schedule Project (according to 310 CMR 4.05 and 4.10)

*There are no fee exemptions for 21E regardless of applicant status

Check # 000209397 Dollar Amount \$ 700 Date 3/10/2000

Make check payable to the Commonwealth of Massachusetts. Please mail check and one copy of this form to DEP, P.O. Box 4062, Boston, MA 02211



- BWP SW 12** Initial Site Assessment
- BWP SW 23** Comprehensive Site Assessment
- BWP SW 24** Corrective Action Alternative Analysis
- BWP SW 25** Corrective Action Design

Application for Landfill Assessment and Closure

BWP SW 12 Initial Site Assessment (310 CMR 19.150(4))

DIRECTIONS:
Specify the report/
plan and page
numbers in which
the following
information is
located.

	Plan/Report #	Page #	DEP USE ONLY
1. Initial Site Assessment (310 CMR 19.150(4))			
a. Background information	1.1	2	
b. Historical Research	1.2	2	
c. Literature/Data Search	1.3	3	
d. Hydrogeological Description	2.0	9	
e. Site Visit	3.1	11	
f. Mapping	3.2	11	
g. Field Screening	3.3	11	
2. Comprehensive Site Assessment Scope of Work	7.0	26	
3. Funding			
a. Corrective action and/or closure-post closure cost estimate	-	-	
b. Funding mechanism and schedule	-	-	

BWP SW 23 Comprehensive Site Assessment (310 CMR 19.150(5))

a. ISA Summary			
b. Mapping			
c. Drilling Program			
d. Determination of Hydraulic Conductivity			
e. Sampling and Analysis Plan			
f. Health and Safety Plan			
g. Project Schedule			
h. Baseline Risk Assessment			
i. Corrective Action Alternative Analysis Scope of Work Outline			



- BWP SW 12** Initial Site Assessment
- BWP SW 23** Comprehensive Site Assessment
- BWP SW 24** Corrective Action Alternative Analysis
- BWP SW 25** Corrective Action Design

Application for Landfill Assessment and Closure

BWP SW 24 Corrective Action Alternative Analysis (310 CMR 19.150(6))

	Plan/Report #	Page #	DEP USE ONLY
a. Corrective Action Objectives	_____	_____	_____
b. Alternatives Analysis	_____	_____	_____
c. Recommended Alternative	_____	_____	_____

BWP SW 25 Corrective Action Design 310 CMR 19.151(2)(a)

A. Corrective Action Design and/or closure plans	_____	_____	_____
B. Implementation schedule	_____	_____	_____

Post Closure Plans

1. Maintenance Plan (310 CMR 19.142(5))	_____	_____	_____
2. Monitoring Plan (310 CMR 19.142(5))	_____	_____	_____
3. Post-Closure Use Plans (310 CMR 19.143) if applicable	_____	_____	_____
4. Record Notice of Landfill Operation (310 CMR 19.141)	_____	_____	_____

Note: Part E is only applicable when a closure plan has been submitted and closure is being implemented.

Certification (310 CMR 19.011)

Any person, required by these regulations or any order issued by the Department, to submit papers shall identify themselves by name, profession, and relationship to the applicant and legal interest in the facility, and make the following certification: "I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties both civil and criminal for submitting false information including possible fines and imprisonment.

Frederick N. Williams

Print Name

Authorized Signature

Plant Superintendent

Position/Title

March 14, 2000

Date

Duke Engineering & Services, Inc.

**Initial Site Assessment (ISA)
Report**
*Southeast Construction Fill Area
Yankee Nuclear Power Station
Rowe, MA*

10 March 2000

468.06

Environmental Resources Management
399 Boylston Street, 6th Floor
Boston, Massachusetts 02116

