

September 26, 2005

Mr. Gerry P. van Noordennen
Regulatory Affairs Manager
Connecticut Yankee Atomic Power Company
362 Injun Hollow Road
East Hampton, CT 06424-3099

SUBJECT: MEETING REPORT – STATUS UPDATE OF CONNECTICUT YANKEE'S
GROUND WATER REMEDIATION AND MONITORING PROGRAMS

Dear Mr. van Noordennen

A meeting was held on September 15, 2005 in Rockville, MD to review the status of ground water decommissioning activities ongoing at the Haddam Neck Plant. The meeting report is enclosed.

Please contact me at (301) 415-6721, if you have any questions.

Sincerely,

/RA/

Theodore Smith, Project Manager
Reactor Decommissioning Section
Division of Waste Management
and Environmental Protection
Office of Nuclear Material Safety
and Safeguards

NRC Docket No.: 50-213
NRC License No.: DPR-61

Enclosure: Meeting Report

cc: CY Service List

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OFFICE	DWMEP:PM	DWMEP:SC
NAME	TSmith	CCraig
DATE	9/22/05	9/22/05

OFFICIAL RECORD COPY

MEETING REPORT

DATE: September 15, 2005

TIME: 10:00 am - 12:30 pm

PLACE: One White Flint North
11565 Rockville Pike
Rockville, Maryland 20852

PURPOSE: Status of Ground Water Remediation and Monitoring Activities

ATTENDEES: Refer to Attachment A

BACKGROUND:

The licensee, the Connecticut Yankee Atomic Power Company (CY), requested a meeting to present the current status of ground water remediation and monitoring activities at the Haddam Neck Plant.

DISCUSSION:

CY presented results and status in the following areas: Review of License Termination Plan (LTP) compliance criteria, soil characterization, tank farm bedrock contamination, groundwater monitoring, groundwater modeling, future monitoring plan, groundwater recharge and recovery, and planned actions prior to the start of the 18 month groundwater monitoring period.

LTP Compliance Criteria: CY reviewed the LTP criteria relative to groundwater dose calculations, release criteria, and the use of a capture zone analysis and monitoring period to demonstrate successful final status survey.

Soil Characterization Results: CY described the extent of soil remediation and characterization for the site industrial area. CY will sample the soil in all suspect areas to bedrock or 24 feet below grade. Most of the soil sampling is complete, and the only remaining expected remediation below the normal water table is bedrock removal in the former tank farm area.

Tank Farm Bedrock Contamination Status: CY has observed radiological contamination in bedrock fractures in the former tank farm area, which were characterized with down-hole gamma spectroscopy and laboratory analysis. The deepest observed contamination was 11 ½ feet below the top of bedrock. Fractured bedrock exceeding CY's groundwater screening criteria will be removed by blasting.

Groundwater Monitoring: CY described strontium-90 and tritium plumes observed in the June 2005 sampling event, which show low levels of contamination in confined and unconfined aquifers on site. CY has replaced two of the monitoring wells, based on apparent seal leaks between the two aquifers.

Enclosure

Groundwater Modeling: CY described groundwater modeling results which appear to show that industrial area groundwater discharges to the Connecticut River.

Future Monitoring Plan: CY described the future monitoring well network, overlaid with the groundwater modeling data, to demonstrate the likely adequacy of the future well monitoring network.

Groundwater Recharge and Recovery: Well level data from August to September 15, 2005 were presented. CY concludes that the site groundwater table has returned to normal levels.

Start of 18 Month Groundwater Monitoring Period: CY indicated their intent to commence their 18-month groundwater monitoring period with the September 2005 quarterly sampling event.

ACTIONS:

The U.S. Nuclear Regulatory Commission staff indicated they would consider CY's intent to start groundwater monitoring and discuss the issue further by telephone conference in a few weeks.

ATTACHMENTS:

- A. List of Attendees
- B. Connecticut Yankee Presentation Slides: Groundwater Monitoring and Relevance to LTP Compliance

September 15 Meeting Attendees

NRC Offices/Regions Outside Organizations

Ted Smith, DCD	Ravi Joshi, CY
Jon Peckenpaugh, EPAD	Chuck Miller, CY
Duane Schmidt, DCD	Matt Martson, CY
	Richard McGrath, CY
	David Cousineau, CT DPUC
	*Gerry van Noordennen, CY
	*Clyde Newsom, CY
	*Stan Rydell, EPA Region 1
	*Juan Perez, EPA Region 1
	*Phil Newkirk, EPA Headquarters
	*Mike Firsick, CT DEP
	*Peter Hill, CT DEP

*Participated via telephone conference.

Attachment B
Connecticut Yankee Presentation Slides:
Groundwater Monitoring and Relevance to LTP Compliance

Connecticut Yankee Atomic Power Company Service List

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Mr. Michael Thomas
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