

**Connecticut Yankee Atomic Power Company**

Date of Distribution: 7/16/07

Notice of Receipt of **License Termination Plan (LTP)**

Change No.: 07-02

To:

NRC Headquarters Office  
Washington DC

Copy No.:

Copy # UNCONTROLLED  
*Doc. Control Room*

Please revise your controlled copy per instructions below:

INSERT: Update the LTP manual with the attached pages using the markup pages as your guide for insertion

ATTACH:

REMOVE:

REPLACE

This acknowledges receipt of the revisions listed above. In addition, all superseded pages have been removed and destroyed.

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Please Return This Sheet to the Administrative Office, Connecticut Yankee Within Thirty (30) Days.

*NMSS01*



# CONNECTICUT YANKEE ATOMIC POWER COMPANY

HADDAM NECK PLANT  
362 INJUN HOLLOW ROAD • EAST HAMPTON, CT 06424-3099

July 12, 2007  
Docket No. 50-213  
CY-07-105

Re: 10 CFR 50.71(e)

U. S. Nuclear Regulatory Commission  
Attention: Document Control Desk  
Washington, DC 20555

Haddam Neck Plant  
Update of License Termination Plan

In a letter dated July 7, 2000, as revised in August 2002 (Revision 1) and in October 2002 (Revision 1A), Connecticut Yankee Atomic Power Company (CYAPCO) submitted the Haddam Neck Plant (HNP) License Termination Plan (LTP) to the NRC as a supplement to the HNP Updated Safety Analysis Report (USFSAR). The HNP LTP was approved by the NRC on November 25, 2002, via License Amendment No. 197. In a letter dated August 19, 2005, the NRC approved Revision 3 of the HNP LTP as part of License Amendment No 202. This revision added the Basement Fill Model. Revision 4 to the LTP, which contained updates due to decommissioning progress and other administrative changes, was submitted to the NRC in a letter dated November 16, 2006. Revision 5 to the LTP, which contained updates due to decommissioning progress and other administrative changes, was submitted to the NRC in a letter dated February 22, 2007.

The purpose of this letter is to submit Revision 6 to the HNP LTP as required by 10 CFR 50.71(e). The detailed description and reasons for each change is provided in Attachment 1. Revision 6 of the LTP reflects changes to survey units, current decommissioning status, and other administrative changes. This revision replaces the affected pages for Revision 6 which is provided in Attachment 2. A markup of the affected pages from Revision 5 is provided in Attachment 3.

Pursuant to 10 CFR 50.71(e)(2)(i), I certify that this revision accurately presents changes completed since our previous submittal that are necessary to reflect information and analyses associated with the changes discussed above.

As stipulated in 10 CFR 50.71(e)(2)(ii): "This submittal shall include an identification of changes made under the provisions of Section 50.59, but not previously submitted to the Commission". The changes to the HNP LTP included in this submittal were made using the provisions of 10 CFR 50.59. Specifically, the changes were screened to determine whether the changes require a 10 CFR 50.59 evaluation. There were no 50.59 evaluations required for the changes in this submittal.

If the NRC should have any questions, please contact me at (860) 267-3938.

Sincerely,



Gerard van Noordennen  
Director, Regulatory Affairs and Quality Assurance

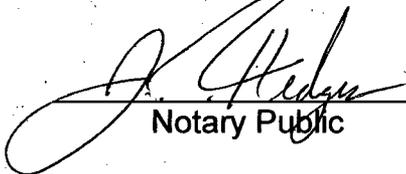
7-12-07

Date

Subscribed and sworn before me

This 12 day of July, 2007

State of Connecticut  
County of Hartford

  
Notary Public

J.T. HEDGES  
NOTARY PUBLIC

My Commission Expires: MY COMMISSION EXPIRES 10/31/2011

Attachments as noted

cc: S. J. Collins, NRC Region I Administrator  
T. B. Smith, NRC Project Manager, Haddam Neck Plant  
L. Kauffman, Decommissioning Branch, Region I  
Dr. E. L. Wilds, Jr., Director, CT DEP Monitoring and Radiation Division

CY-07-105

**Attachment 1**

**Haddam Neck Plant**

**Update of License Termination Plan  
Revision 6**

**Detailed Description and Reasons for Each Change**

**July 2007**

**Attachment 1  
Haddam Neck Plant  
License Termination Plan, Revision 6  
Summary of Changes**

| Item No. | LTP Page or Section                  | Description of Change   | Reason for Change   | Downgrade in Commitment                           |
|----------|--------------------------------------|---|---|---|
| 1        | Table of Contents, Pages i through x | Various changes to mirror changes made within the LTP   | Necessary to reflect changes in pagination, typos and figure designations   | No  |
| 2        | LEP-1, & LEP-2                       | Changed List of Effective Pages to reflect changes made in Revision 6   | Self-explanatory  | No  |
| 3        | 2-55, Table 2-10                     | <p>Changed the Total Area for Survey Unit 9302-0000 from 6,410 to 3,490.</p> <p>Changed the Total Area for Survey Unit 9306-0000 from 4,780 to 5,878.</p> <p>Change the Survey Area Code Description for 9312-0001 by adding "(Former Radiologically Controlled Area)", Delete "Footprint/DWST", change the Total Area from 1,980 to 1,975.</p> <p>Change the Survey Unit Code Description for 9312-0002 by Deleting "Area", Change the Total Area from 1,806 to 1, 975.</p> <p>Change 9312-0003 Survey Unit Code Description to read "South west 115KV Switchyard", Change Total Area from 1,481 to 1,486.</p> | <p>Provide consistency between the LTP and the associated Final Status Survey Plan.</p> <p>Provide consistency between the LTP and the associated Final Status Survey Plan.</p> <p>Provide consistency between the LTP and the associated Final Status Survey Plan.</p> <p>Provide consistency between the LTP and the associated Final Status Survey Plan.</p> <p>Provide consistency between the LTP and the associated Final Status Survey Plan.</p> | <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> |

**Attachment 1  
Haddam Neck Plant  
License Termination Plan, Revision 6  
Summary of Changes**

| <b>Item No.</b> | <b>LTP Page or Section</b> | <b>Description of Change</b>  | <b>Reason for Change</b>   | <b>Downgrade in Commitment</b> |
|-----------------|----------------------------|---|--|--------------------------------|
| 4               | 2-56, Table 2-10           | Change Survey Unit Code Description for 9312-0004 to read "North of the PAB and Tank Farm".                                       | Provide consistency between the LTP and the associated Final Status Survey Plan. | No                             |
|                 |                            | Change Survey Unit Code Description for 9312-0005 by Deleting "and Resin Facility" and change the Total Area from 1,454 to 1,460. | Provide consistency between the LTP and the associated Final Status Survey Plan. | No                             |
|                 |                            | Change the Total Area for 9312-0006 from 1,749 to 1,754.  | Provide consistency between the LTP and the associated Final Status Survey Plan. | No                             |
|                 |                            | Change the Total Area for 9312-0008 from 1,348 to 1,351.  | Provide consistency between the LTP and the associated Final Status Survey Plan. | No                             |
| 5               | 2-57, Table 2-10           | Changed the Total Area for Survey Unit 9313-0000 from 5,850 to 8,266.   | Provide consistency between the LTP and the associated Release Record.           | No                             |
| 6               | 2-58, Table 2-10           | Changed the Total Area for Survey Unit 9520-0001 from 9,870 to 8,062.   | This area was reduced to make survey unit 9520-0006 a Class 1 survey unit.       | No                             |
| 7               | 2-58, Table 2-10           | Add Survey Unit 9520-0006, Land Area, North Peninsula, Class 1, N/A, 1,808, N/A, 2-2  | Add this class 1 survey unit which was created from survey unit 9520-0001        | No                             |

**Attachment 1  
Haddam Neck Plant  
License Termination Plan, Revision 6  
Summary of Changes**

| <b>Item No.</b> | <b>LTP Page or Section</b> | <b>Description of Change</b>  | <b>Reason for Change</b>   | <b>Downgrade in Commitment</b> |
|-----------------|----------------------------|---|--|--------------------------------|
| 8               | 2-64, Table 2-10           | Change Survey Area Code Description for 9801-000 by Deleting "(excluding 9308)".  | Provide consistency between the LTP and the associated Release Record.   | No                             |
|                 |                            | Change Survey Area Code Description for 9802-0000 to read "Subsurface Area Associated with the West Industrial Site Grounds (Non-Protected Area)" | Provide consistency between the LTP and the associated Release Record.   | No                             |
|                 |                            | Change Survey Area Code Description for 9803-000 to read "Subsurface Area Associated with the North Grounds (Non-Protected Area)".                | Provide consistency between the LTP and the associated Release Record.   | No                             |
| 9               | Figure 2-2                 | Add Survey area 9520-0006 a class 1 survey unit.  | Made 9520-0006 Class 1 survey unit from 9520-0001 a class 2 survey unit. During a surveillance elevated activity was identified requiring remediation which requires a change in the survey unit classification. | No                             |
| 10              | Figure 2-7                 | Change Survey Unit 9528-0002 to 9539-0001.  | This provides consistency between the LTP and the associated Release Record.   | No                             |
|                 |                            | Change Survey Unit 9528-0003 to 9539-0002.  | This provides consistency between the LTP and the associated Release Record.   | No                             |
| 11              | 5-20, Table 5-3            | Add to Survey Unit 9539-0001 ", 0002" as this survey unit is also affected by existing groundwater contamination.                                 | Survey unit 9539-002 falls within the zone of influence for existing groundwater monitoring and, therefore, should be identified as impacted by existing groundwater dose.                                       | No                             |

CY-07-105

Attachment 2

Haddam Neck Plant

Update of License Termination Plan  
Revision 6

Revised Pages

July 2007

**Table 2-10  
MARSSIM Classifications**

| Survey Area Code | Survey Area Code Description | Survey Unit Code | Survey Unit Code Description      | MARSSIM Class. | Area (m <sup>2</sup> ) |            | Ratio (Total Area: Floor Area) | Figure No. |
|------------------|------------------------------|------------------|-----------------------------------|----------------|------------------------|------------|--------------------------------|------------|
|                  |                              |                  |                                   |                | Floor Area             | Total Area |                                |            |
| 9106             | Discharge Canal              | 0001             | Sediment to Ave. High Water Level | 1              | N/A                    | 1,917      | N/A                            | 2-2        |
|                  |                              | 0002             | Sediment to Ave. High Water Level | 2              | N/A                    | 5,520      | N/A                            | 2-2<br>2-3 |
|                  |                              | 0003             | Sediment to Ave. High Water Level | 2              | N/A                    | 8,292      | N/A                            | 2-3        |
|                  |                              | 0004             | Sediment to Ave. High Water Level | 2              | N/A                    | 9,900      | N/A                            | 2-3        |
|                  |                              | 0005             | Sediment to Ave. High Water Level | 2              | N/A                    | 9,632      | N/A                            | 2-4        |
|                  |                              | 0006             | Sediment to Ave. High Water Level | 2              | N/A                    | 9,716      | N/A                            | 2-4<br>2-5 |
|                  |                              | 0007             | Sediment to Ave. High Water Level | 2              | N/A                    | 8,692      | N/A                            | 2-5        |

**Table 2-10  
MARSSIM Classifications**

| Survey Area Code | Survey Area Code Description | Survey Unit Code | Survey Unit Code Description      | MARSSIM Class. | Area (m <sup>2</sup> ) |            | Ratio (Total Area: Floor Area) | Figure No. |
|------------------|------------------------------|------------------|-----------------------------------|----------------|------------------------|------------|--------------------------------|------------|
|                  |                              |                  |                                   |                | Floor Area             | Total Area |                                |            |
|                  |                              | 0008             | Sediment to Ave. High Water Level | 2              | N/A                    | 9,763      | N/A                            | 2-5        |
|                  |                              | 0009             | Sediment to Ave. High Water Level | 2              | N/A                    | 9,933      | N/A                            | 2-5        |
|                  |                              | 0010             | Sediment to Ave. High Water Level | 2              | N/A                    | 9,512      | N/A                            | 2-5        |
|                  |                              | 0011             | Sediment to Ave. High Water Level | 2              | N/A                    | 6,394      | N/A                            | 2-5        |
|                  |                              | 0012             | Peninsula Wetlands                | 2              | N/A                    | 7,272      | N/A                            | 2-4        |
|                  |                              | 0013             | Peninsula Wetlands                | 2              | N/A                    | 9,011      | N/A                            | 2-5        |
|                  |                              | 0014             | Canal Sediment                    | 1              | N/A                    | 1,870      | N/A                            | 2-2        |
|                  |                              | 0015             | Canal Sediment Within SU 9106-007 | 1              | N/A                    | 1,170      | N/A                            | 2-5        |

**Table 2-10  
MARSSIM Classifications**

| Survey Area Code | Survey Area Code Description   | Survey Unit Code | Survey Unit Code Description | MARSSIM Class. | Area (m <sup>2</sup> ) |            | Ratio (Total Area: Floor Area) | Figure No. |
|------------------|--|------------------|------------------------------|----------------|------------------------|------------|--------------------------------|------------|
|                  |  |                  |                              |                | Floor Area             | Total Area |                                |            |
| 9302             | Northwest Protected Area Grounds   | 0000             | Land Area                    | 3              | N/A                    | 3,490      | N/A                            | 2-2        |
| 9304             | Southwest Protected Area Grounds   | 0001             | Land Area                    | 3              | N/A                    | 4,800      | N/A                            | 2-2        |
|                  |  | 0002             | Land Area                    | 1              | N/A                    | 1,268      | N/A                            | 2-2        |
| 9306             | South Central Protected Area Grounds                                     | 0000             | Land Area                    | 2              | N/A                    | 5,878      | N/A                            | 2-2        |
| 9312             | Northeast Protected Area Grounds (Former Radiologically Controlled Area) | 0001             | Containment                  | 1              | N/A                    | 1,975      | N/A                            | 2-2        |
|                  |  | 0002             | Spent Fuel Bldg              | 1              | N/A                    | 1,975      | N/A                            | 2-2        |
|                  |  | 0003             | Southwest 115kV Switchyard   | 1              | N/A                    | 1,486      | N/A                            | 2-2        |

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MARSSIM Classifications**

| Survey Area Code | Survey Area Code Description | Survey Unit Code | Survey Unit Code Description          | MARSSIM Class. | Area (m <sup>2</sup> ) |            | Ratio (Total Area: Floor Area) | Figure No. |
|------------------|------------------------------|------------------|---------------------------------------|----------------|------------------------|------------|--------------------------------|------------|
|                  |                              |                  |                                       |                | Floor Area             | Total Area |                                |            |
| 9312             |                              | 0004             | North of the PAB and Tank Farm        | 1              | N/A                    | 1,586      | N/A                            | 2-2        |
|                  |                              | 0005             | Tank Farm                             | 1              | N/A                    | 1,460      | N/A                            | 2-2        |
|                  |                              | 0006             | PAB Footprint                         | 1              | N/A                    | 1,754      | N/A                            | 2-2        |
|                  |                              | 0007             | RRF Bldg/115kV East Footprint         | 1              | N/A                    | 1,566      | N/A                            | 2-2        |
|                  |                              | 0008             | 115kV West Side GW Treatment Facility | 1              | N/A                    | 1,351      | N/A                            | 2-2        |
|                  |                              | 0009             | East Trench North                     | 1              | N/A                    | 1,511      | N/A                            | 2-2        |
|                  |                              | 0010             | East Trench South/MWST A&B            | 1              | N/A                    | 1,365      | N/A                            | 2-2        |

**Table 2-10  
MARSSIM Classifications**

| Survey Area Code | Survey Area Code Description   | Survey Unit Code | Survey Unit Code Description | MARSSIM Class. | Area (m <sup>2</sup> ) |            | Ratio (Total Area: Floor Area) | Figure No. |
|------------------|--|------------------|------------------------------|----------------|------------------------|------------|--------------------------------|------------|
|                  |  |                  |                              |                | Floor Area             | Total Area |                                |            |
| 9313             | Central Site Grounds   | 0000             | Land Area                    | 2              | N/A                    | 8,266      | N/A                            | 2-2        |
| 9504             | Bypass Road and Secondary Parking lot (Add N. Portion of 9502) (Info Only)                                 | 0000             | Land Area                    | 2              | N/A                    | 5,692      | N/A                            | 2-1        |
| 9506             | North Site Grounds (Non-Protected Area) (Add EOF Parking Area from 9510) (Info Only)                       | 0000             | Land Area                    | 3              | N/A                    | 11,244     | N/A                            | 2-1        |
| 9508             | Pond   | 0000             | Land Area and Pond Sediment  | 3              | N/A                    | 10,831     | N/A                            | 2-1        |
| 9512             | Northwest Site Grounds (Non-Protected Area) (Remove Truck Monitor and Roadway) (Info Only)                 | 0000             | Land Area                    | 3              | N/A                    | 30,701     | N/A                            | 2-1        |
| 9514             | Primary Parking Lot West (Add the S. Portion of 9502) Add Truck Monitor and Roadway From 9512) (Info Only) | 0000             | Land Area                    | 3              | N/A                    | 18,757     | N/A                            | 2-1        |
|                  | Primary Parking Lot East   | 0001             | Land Area                    | 2              | N/A                    | 8,739      | N/A                            | 2-1        |

**Table 2-10  
MARSSIM Classifications**

| Survey Area Code | Survey Area Code Description | Survey Unit Code | Survey Unit Code Description | MARSSIM Class. | Area (m <sup>2</sup> ) |            | Ratio (Total Area: Floor Area) | Figure No. |
|------------------|------------------------------|------------------|------------------------------|----------------|------------------------|------------|--------------------------------|------------|
|                  |                              |                  |                              |                | Floor Area             | Total Area |                                |            |
| 9520             | Southwest Site Storage Area  | 0001             | Land Area, North Peninsula   | 2              | N/A                    | 8,062      | N/A                            | 2-2        |
|                  |                              | 0002             | Land Area, North Peninsula   | 2              | N/A                    | 9,845      | N/A                            | 2-2<br>2-3 |
|                  |                              | 0003             | Land Area, North Peninsula   | 2              | N/A                    | 8,106      | N/A                            | 2-3        |
|                  |                              | 0004             | Land Area, North Peninsula   | 1              | N/A                    | 1,983      | N/A                            | 2-3        |
|                  |                              | 0005             | Land Area, North Peninsula   | 1              | N/A                    | 1,887      | N/A                            | 2-3        |
|                  |                              | 0006             | Land Area, North Peninsula   | 1              | N/A                    | 1,808      | N/A                            | 2-2        |
| 9521             | Southeast Pond               | 0000             | Land Area and Pond Sediment  | 3              | N/A                    | 23,100     | N/A                            | 2-7        |

**Table 2-10  
MARSSIM Classifications**

| Survey Area Code | Survey Area Code Description | Survey Unit Code | Survey Unit Code Description                   | MARSSIM Class. | Area (m <sup>2</sup> ) |            | Ratio (Total Area: Floor Area) | Figure No. |
|------------------|------------------------------|------------------|--|----------------|------------------------|------------|--------------------------------|------------|
|                  |                              |                  |  |                | Floor Area             | Total Area |                                |            |
| 9522             | Southeast Site Grounds       | 0001             | Land Area                                      | 2              | N/A                    | 6,972      | N/A                            | 2-2        |
|                  |                              | 0002             | Land Area                                      | 1              | N/A                    | 1,913      | N/A                            | 2-2        |
|                  |                              | 0003             | Land Area 150m East of Load distribution Tower | 1              | N/A                    | 1,997      | N/A                            | 2-2        |
|                  |                              | 0004             | Land Area                                      | 1              | N/A                    | 1,386      | N/A                            | 2-2        |
|                  |                              | 0005             | East Side Land of Canal                        | 1              | N/A                    | 1,947      | N/A                            | 2-2        |
|                  |                              | 0006             | South RCA Land Area                            | 1              | N/A                    | 1,987      | N/A                            | 2-2        |
|                  |                              | 0007             | South RCA Land Area                            | 1              | N/A                    | 1,952      | N/A                            | 2-2        |

**Table 2-10  
MARSSIM Classifications**

| Survey Area Code | Survey Area Code Description            | Survey Unit Code | Survey Unit Code Description | MARSSIM Class. | Area (m <sup>2</sup> ) |            | Ratio (Total Area: Floor Area) | Figure No. |
|------------------|---|------------------|------------------------------|----------------|------------------------|------------|--------------------------------|------------|
|                  |   |                  |                              |                | Floor Area             | Total Area |                                |            |
| 9523             | Southeast Wetland Area                  | 0000             | Land Area                    | 3              | N/A                    | 106,000    | N/A                            | 2-7        |
| 9524             | South Side Grounds (Non-Protected Area) | 0000             | Land Area                    | 3              | N/A                    | 110,000    | N/A                            | 2-7        |
| 9525             | Southeast Site Road                     | 0000             | Land Area                    | 3              | N/A                    | 28,000     | N/A                            | 2-7        |
| 9526             | Northeast Mountain Side                 | 0000             | Land Area                    | 3              | N/A                    | 44,700     | N/A                            | 2-7        |
|                  |   | 0001             | Land Area                    | 2              | NA                     | 6,536      | N/A                            | 2-7        |
|                  |   | 0002             | Land Area                    | 2              | N/A                    | 6,069      | N/A                            | 2-7        |
| 9527             | East Mountain Side                      | 0001             | Land Area                    | 2              | N/A                    | 8,600      | N/A                            | 2-7        |
|                  |   | 002              | Land Area                    | 2              | N/A                    | 9,740      | N/A                            | 2-7        |

**Table 2-10  
MARSSIM Classifications**

| Survey Area Code | Survey Area Code Description | Survey Unit Code | Survey Unit Code Description | MARSSIM Class. | Area (m <sup>2</sup> ) |            | Ratio (Total Area: Floor Area) | Figure No. |
|------------------|------------------------------|------------------|------------------------------|----------------|------------------------|------------|--------------------------------|------------|
|                  |                              |                  |                              |                | Floor Area             | Total Area |                                |            |
|                  |                              | 0003             | Land Area                    | 2              | N/A                    | 8,200      | N/A                            | 2-7        |
|                  |                              | 0004             | Land Area                    | 2              | N/A                    | 5,400      | N/A                            | 2-7        |
|                  |                              | 0005             | Land Area                    | 2              | N/A                    | 5,777      | N/A                            | 2-2        |
|                  |                              | 0006             | Land Area                    | 1              | N/A                    | 790        | N/A                            | 2-2        |
| 9528             | Southeast Mountain Side      | 0000             | Land Area                    | 3              | N/A                    | 575,488    | N/A                            | 2-7        |
|                  |                              | 0002             | Land Area                    | 2              | N/A                    | 9,752      | N/A                            | 2-7        |
|                  |                              | 0003             | Land Area                    | 2              | N/A                    | 9,447      | N/A                            | 2-7        |

**Table 2-10  
MARSSIM Classifications**

| Survey Area Code | Survey Area Code Description           | Survey Unit Code | Survey Unit Code Description                                 | MARSSIM Class. | Area (m <sup>2</sup> ) |            | Ratio (Total Area: Floor Area) | Figure No. |
|------------------|--|------------------|--|----------------|------------------------|------------|--------------------------------|------------|
|                  |  |                  |  |                | Floor Area             | Total Area |                                |            |
|                  |  | 0004             | Land Area  | 2              | N/A                    | 3,058      | N/A                            | 2-7        |
| 9530             | Central Peninsula Area                 | 0001             | Land Area Bounded by and Immediately Adjacent to the Road    | 2              | N/A                    | 8,000      | N/A                            | 2-3<br>2-4 |
|                  |  | 0002             | Western Half of Diked Area and Immediately Surrounding Sides | 2              | N/A                    | 5,000      | N/A                            | 2-4        |
|                  |  | 0003             | Eastern Half of Diked Area and Immediately Surrounding Sides | 2              | N/A                    | 5,000      | N/A                            | 2-4        |
|                  |  | 0004             | Open Land Areas  | 3              | N/A                    | 97,000     | N/A                            | 2-4        |
| 9531             | South End of Peninsula                 | 0000             | Land Area  | 3              | N/A                    | 118,000    | N/A                            | 2-5        |
| 9532             | East Side Grounds (Non-Protected Area) | N/A              | N/A  | Non-impacted   | N/A                    | 375,600    | N/A                            | 2-7        |

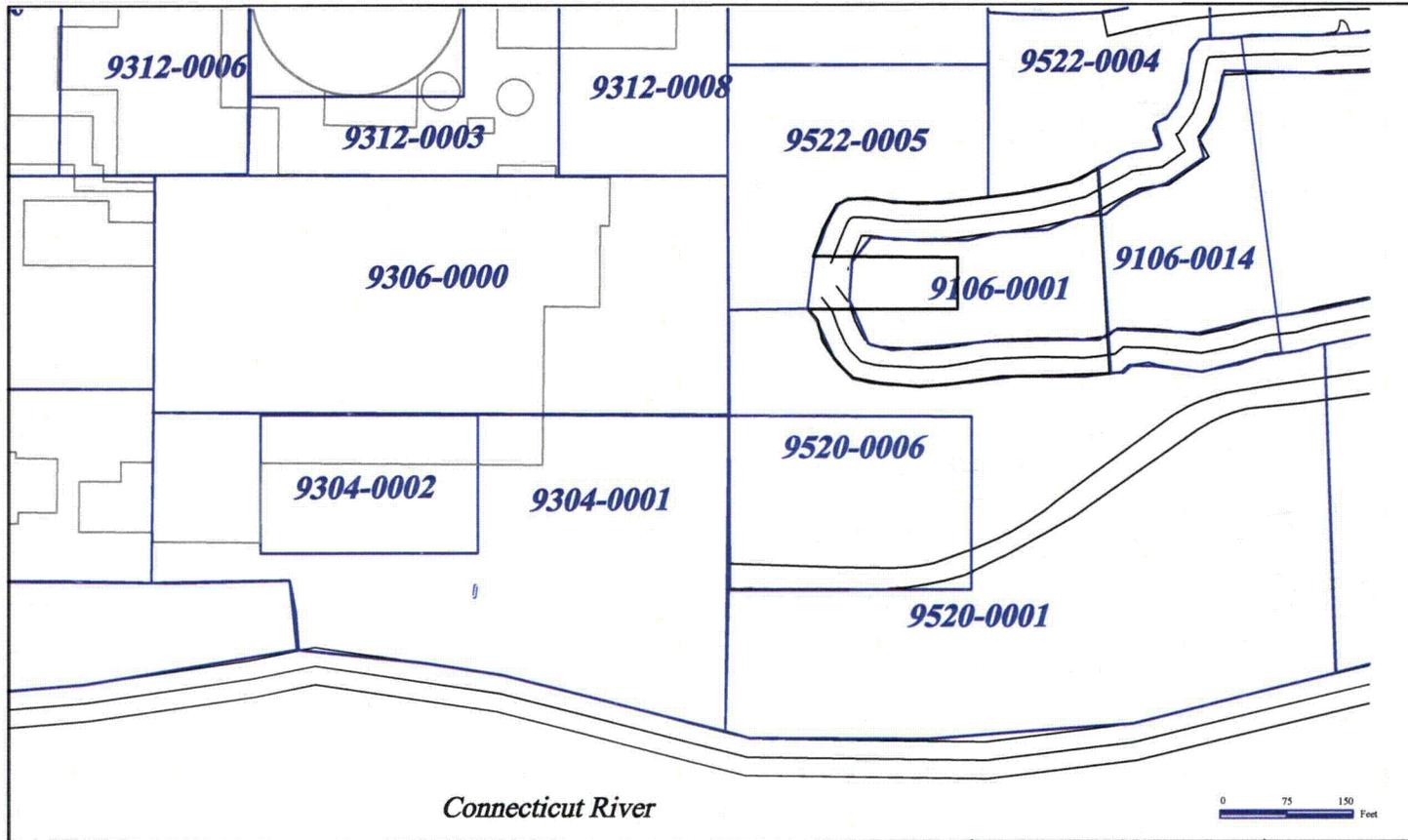
**Table 2-10  
MARSSIM Classifications**

| Survey Area Code | Survey Area Code Description        | Survey Unit Code | Survey Unit Code Description       | MARSSIM Class. | Area (m <sup>2</sup> ) |            | Ratio (Total Area: Floor Area) | Figure No. |
|------------------|-------------------------------------|------------------|------------------------------------|----------------|------------------------|------------|--------------------------------|------------|
|                  |                                     |                  |                                    |                | Floor Area             | Total Area |                                |            |
| 9535             | South East Landfill Area            | 0001             | Land Area                          | 1              | N/A                    | 1,900      | N/A                            | 2-7        |
|                  |                                     | 0002             | Land Area                          | 2              | N/A                    | 3,600      | N/A                            | 2-7        |
| 9536             | Construction Piles Near Rifle Range | 0000             | Land Area                          | 2              | N/A                    | 2,200      | N/A                            | 2-7        |
| 9537             | Permitted Landfill Area             | 0000             | Land Area                          | 2              | N/A                    | 2,200      | N/A                            | 2-7        |
| 9538             | Material Storage Area               | 0000             | Land Area                          | 2              | N/A                    | 4,200      | N/A                            | 2-7        |
| 9539             | ISFSI Haul Road                     | 0001             | ISFSI Haul Road (Northern Section) | 2              | N/A                    | 9,332      | N/A                            | 2-3<br>2-4 |
|                  |                                     | 0002             | ISFSI Haul Road (Southern Section) | 2              | N/A                    | 7,239      | N/A                            | 2-4        |

**Table 2-10  
MARSSIM Classifications**

| Survey Area Code | Survey Area Code Description   | Survey Unit Code | Survey Unit Code Description | MARSSIM Class. | Area (m <sup>2</sup> ) |            | Ratio (Total Area: Floor Area) | Figure No. |
|------------------|--|------------------|------------------------------|----------------|------------------------|------------|--------------------------------|------------|
|                  |  |                  |                              |                | Floor Area             | Total Area |                                |            |
| 9801             | Subsurface soils in Radiologically Controlled Area   | 0000             | Subsurface Soil              | A*             | N/A                    | 15,788     | N/A                            | 2-6        |
| 9802             | Subsurface area associated with the West Industrial Site Grounds (Non-Protected Area)            | 0000             | Subsurface Soil              | B*             | N/A                    | 18,292     | N/A                            | 2-6        |
| 9803             | Subsurface area associated with the North Grounds (Non-Protected Area)                           | 0000             | Subsurface Soil              | C*             | N/A                    | 35,485     | N/A                            | 2-6        |
| 9804             | Subsurface area associated with Southeast Grounds (Non-Protected Area)                           | 0000             | Subsurface Soil              | A*             | N/A                    | 11,568     | N/A                            | 2-6        |
| 9805             | Subsurface soils associated with peninsula (excluding area 9531)                                 | 0000             | Subsurface Soil              | C*             | N/A                    | 104,207    | N/A                            | 2-6        |
| 9806             | Subsurface soils associated with surface soil portions of survey area 9535 (South East Landfill) | 0000             | Subsurface Soil              | A*             | N/A                    | 4250       | N/A                            | 2-6        |
| 9807             | Subsurface Soils associated with 9520-0004   | 0000             | Subsurface Soil              | B*             | N/A                    | 1983       | N/A                            | 2-6        |

\*MARISSM does not cover media such as subsurface soil, which is considered beyond its scope. LTP Section 5.7.3.2.1 discusses the criteria applied during the classification of subsurface soils.



CONNECTICUT YANKEE ATOMIC POWER COMPANY  
 CY UPDATE SURVEY UNIT BOUNDARIES  
 Surface Areas

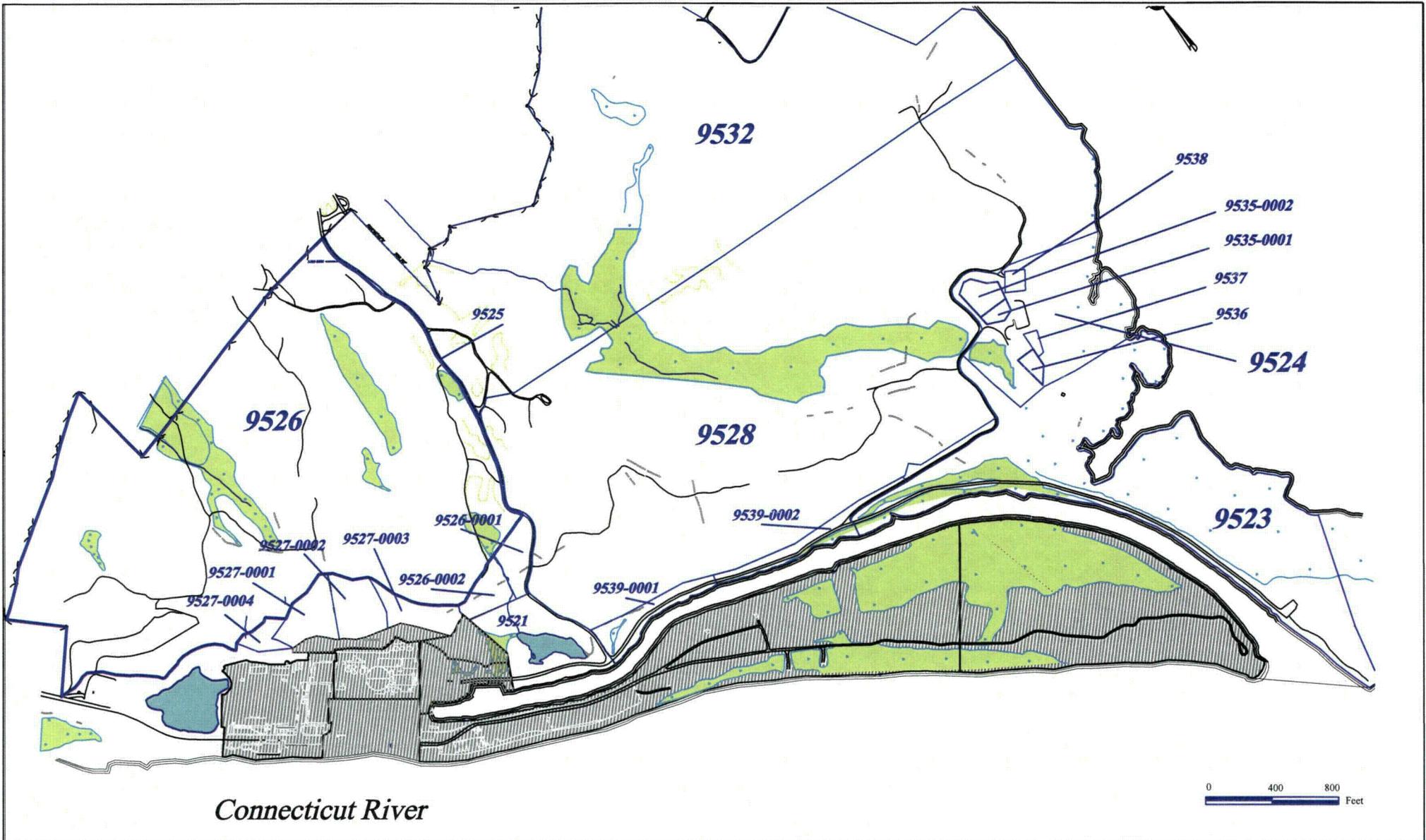


|                        |            |
|------------------------|------------|
| INITIAL CREATION DATE: | APRIL 2002 |
| REVISED BY:            | C Newson   |
| REVISION DATE:         | JULY 2007  |
| LTP REVISION #:        | 6          |
| MAP #:                 | FIGURE 2-2 |

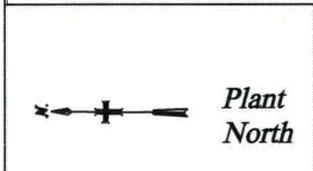
LEGEND



- Wet Land



Connecticut River



CONNECTICUT YANKEE ATOMIC POWER COMPANY  
GENERAL ARRANGEMENT DRAWING  
Surface Areas



|                        |            |
|------------------------|------------|
| INITIAL CREATION DATE: | APRIL 2002 |
| REVISED BY:            | C Newson   |
| REVISION DATE:         | JULY, 2007 |
| LTP REVISION #:        | 6          |
| MAP #:                 | FIGURE 2-7 |

| LEGEND |                                    |
|--------|------------------------------------|
|        | = Refer to Figures 2-1 through 2-6 |

It is noted, however, that characterization efforts for groundwater contamination are still ongoing and the survey areas to which the  $H_{\text{ExistingGW}}$  term are applied may change. Those changes will be communicated to the NRC. This change may be caused by changes in the location of the plume, detection of groundwater contamination at locations outside the plume or changes to the capture zone or detection of groundwater contamination at locations outside the zone. The Phase 2 Hydrogeologic Work Plan, as described in Section 2.3.1.6, will provide additional characterization of groundwater that will be used to better define the groundwater contamination plume.

Prior to the request to release of any portion of the site from the license, CYAPCO will prepare and make available for inspection a capture zone analysis provided to the NRC in January 2005, based on data collected as part of the Phase 2 Hydrogeological Work Plan, to better define the capture zone distance, Reference 5-13. The "capture zone" is the area surrounding a hypothetical well to be used by the resident farmer, from which existing groundwater contamination could be drawn into the resident farmer's well. The analysis used to determine this area used the hydrogeological conditions and parameters assumed in the Resident farmer Scenario as described in Chapter 6 of the LTP.

**Table 5-3**  
**Survey Units Affected by Groundwater Contamination**

| <b>Existing</b><br>Groundwater Zone of Influence | <b>Future Groundwater</b><br>Concrete |
|--|---------------------------------------|
| 9302   | 9302                                  |
| 9304-1&2   | 9304-1&2                              |
| 9306   | 9306                                  |
| 9312-1 Thru 10                                   | 9312-1 Thru 10                        |
| 9313   | 9313                                  |
| 9522-5, 6 & 7                                    | 9522-5, 6 & 7                         |
| 9801   | 9801                                  |
| 9802   | 9802                                  |
| 9106-1, 2, 3, 4 & 14                             | N/A                                   |
| 9512   | N/A                                   |
| 9514   | N/A                                   |
| 9520-1, 2, 3, 4 & 5                              | N/A                                   |
| 9521   | N/A                                   |
| 9522-1, 2, 3 & 4                                 | N/A                                   |
| 9527-1, 2, 3, 4, 5 & 6                           | N/A                                   |
| 9528-0, 2 & 3                                    | N/A                                   |
| 9530-1, 2, 3 & 4                                 | N/A                                   |
| 9539-0001, 0002                                  | N/A                                   |
| 9803   | N/A                                   |
| 9804   | N/A                                   |
| 9805   | N/A                                   |
| 9807   | N/A                                   |

CY-07-105

**Attachment 3**

**Haddam Neck Plant**

**License Termination Plan  
Revision 6**

**Markup of Affected Pages**

**July 2007**

Haddam Neck Plant License Termination Plan

**Table 2-10  
MARSSIM Classifications**

| Survey Area Code | Survey Area Code Description | Survey Unit Code | Survey Unit Code Description      | MARSSIM Class. | Area (m <sup>2</sup> ) |            | Ratio (Total Area: Floor Area) | Figure No. |
|------------------|------------------------------|------------------|-----------------------------------|----------------|------------------------|------------|--------------------------------|------------|
|                  |                              |                  |                                   |                | Floor Area             | Total Area |                                |            |
|                  |                              | 0008             | Sediment to Ave. High Water Level | 2              | N/A                    | 9,763      | N/A                            | 2-5        |
|                  |                              | 0009             | Sediment to Ave. High Water Level | 2              | N/A                    | 9,933      | N/A                            | 2-5        |
|                  |                              | 0010             | Sediment to Ave. High Water Level | 2              | N/A                    | 9,512      | N/A                            | 2-5        |
|                  |                              | 0011             | Sediment to Ave. High Water Level | 2              | N/A                    | 6,394      | N/A                            | 2-5        |
|                  |                              | 0012             | Peninsula Wetlands                | 2              | N/A                    | 7,272      | N/A                            | 2-4        |
|                  |                              | 0013             | Peninsula Wetlands                | 2              | N/A                    | 9,011      | N/A                            | 2-5        |
|                  |                              | 0014             | Canal Sediment                    | 1              | N/A                    | 1,870      | N/A                            | 2-2        |
|                  |                              | 0015             | Canal Sediment Within SU 9106-007 | 1              | N/A                    | 1,170      | N/A                            | 2-5        |

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Haddam Neck Plant License Termination Plan

Table 2-10  
MARSSIM Classifications

| Survey Area Code | Survey Area Code Description            | Survey Unit Code | Survey Unit Code Description | MARSSIM Class. | Area (m <sup>2</sup> ) |                | Ratio (Total Area: Floor Area) | Figure No. |
|------------------|---|------------------|------------------------------|----------------|------------------------|----------------|--------------------------------|------------|
|                  |   |                  |                              |                | Floor Area             | Total Area     |                                |            |
| 9302             | Northwest Protected Area Grounds        | 0000             | Land Area                    | 3              | N/A                    | 6,410          | 3,490<br>N/A                   | 2-2        |
| 9304             | Southwest Protected Area Grounds        | 0001             | Land Area                    | 3              | N/A                    | 4,800          | N/A                            | 2-2        |
|                  |   | 0002             | Land Area                    | 1              | N/A                    | 1,268          | N/A                            | 2-2        |
| 9306             | South Central Protected Area Grounds    | 0000             | Land Area                    | 2              | N/A                    | 4,780          | 5,878<br>N/A                   | 2-2        |
| 9312             | Northeast Protected Area Grounds        | 0001             | Containment Footprint/DWST   | 1              | N/A                    | 1,980          | 1,975<br>N/A                   | 2-2        |
|                  | (Former Radiologically Controlled Area) | 0002             | Spent Fuel Bldg Area         | 1              | N/A                    | 1,806          | 1,975<br>N/A                   | 2-2        |
|                  |   | 0003             | Terry Turbine/CST            | 1              | N/A                    | 1,481<br>1,486 | N/A                            | 2-2        |

South west 115kV Switchyard

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Haddam Neck Plant License Termination Plan

**Table 2-10  
MARSSIM Classifications**

| Survey Area Code | Survey Area Code Description   | Survey Unit Code | Survey Unit Code Description          | MARSSIM Class. | Area (m <sup>2</sup> ) |            | Ratio (Total Area: Floor Area) | Figure No. |
|------------------|--------------------------------|------------------|---------------------------------------|----------------|------------------------|------------|--------------------------------|------------|
|                  |                                |                  |                                       |                | Floor Area             | Total Area |                                |            |
| 9312             | North of the PAB and Tank Farm | 0004             | North RCA from EDG Bldg Eastward      | 1              | N/A                    | 1,586      | N/A                            | 2-2        |
|                  |                                | 0005             | Tank Farm and Resin Facility          | 1              | N/A                    | 1,454      | <sup>1,460</sup><br>N/A        | 2-2        |
|                  |                                | 0006             | PAB Footprint                         | 1              | N/A                    | 1,749      | <sup>1,754</sup><br>N/A        | 2-2        |
|                  |                                | 0007             | RRF Bldg/115kV East Footprint         | 1              | N/A                    | 1,566      | N/A                            | 2-2        |
|                  |                                | 0008             | 115kV West Side GW Treatment Facility | 1              | N/A                    | 1,348      | <sup>1,351</sup><br>N/A        | 2-2        |
|                  |                                | 0009             | East Trench North                     | 1              | N/A                    | 1,511      | N/A                            | 2-2        |
|                  |                                | 0010             | East Trench South/MWST A&B            | 1              | N/A                    | 1,365      | N/A                            | 2-2        |

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Haddam Neck Plant License Termination Plan

**Table 2-10  
MARSSIM Classifications**

| Survey Area Code | Survey Area Code Description   | Survey Unit Code | Survey Unit Code Description | MARSSIM Class. | Area (m <sup>2</sup> ) |            | Ratio (Total Area: Floor Area) | Figure No. |
|------------------|--|------------------|------------------------------|----------------|------------------------|------------|--------------------------------|------------|
|                  |  |                  |                              |                | Floor Area             | Total Area |                                |            |
| 9313             | Central Site Grounds   | 0000             | Land Area                    | 2              | N/A                    | 5,850      | 8,266<br>N/A                   | 2-2        |
| 9504             | Bypass Road and Secondary Parking lot (Add N. Portion of 9502) (Info Only)                                 | 0000             | Land Area                    | 2              | N/A                    | 5,692      | N/A                            | 2-1        |
| 9506             | North Site Grounds (Non-Protected Area) (Add EOF Parking Area from 9510) (Info Only)                       | 0000             | Land Area                    | 3              | N/A                    | 11,244     | N/A                            | 2-1        |
| 9508             | Pond   | 0000             | Land Area and Pond Sediment  | 3              | N/A                    | 10,831     | N/A                            | 2-1        |
| 9512             | Northwest Site Grounds (Non-Protected Area) (Remove Truck Monitor and Roadway) (Info Only)                 | 0000             | Land Area                    | 3              | N/A                    | 30,701     | N/A                            | 2-1        |
| 9514             | Primary Parking Lot West (Add the S. Portion of 9502) Add Truck Monitor and Roadway From 9512) (Info Only) | 0000             | Land Area                    | 3              | N/A                    | 18,757     | N/A                            | 2-1        |
|                  | Primary Parking Lot East   | 0001             | Land Area                    | 2              | N/A                    | 8,739      | N/A                            | 2-1        |

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Haddam Neck Plant License Termination Plan

**Table 2-10  
MARSSIM Classifications**

| Survey Area Code | Survey Area Code Description | Survey Unit Code | Survey Unit Code Description | MARSSIM Class. | Area (m <sup>2</sup> ) |            | Ratio (Total Area: Floor Area) | Figure No. |
|------------------|------------------------------|------------------|------------------------------|----------------|------------------------|------------|--------------------------------|------------|
|                  |                              |                  |                              |                | Floor Area             | Total Area |                                |            |
| 9520             | Southwest Site Storage Area  | 0001             | Land Area, North Peninsula   | 2              | N/A                    | 9,870      | N/A                            | 2-2        |
|                  |                              | 0002             | Land Area, North Peninsula   | 2              | N/A                    | 9,845      | N/A                            | 2-2<br>2-3 |
|                  |                              | 0003             | Land Area, North Peninsula   | 2              | N/A                    | 8,106      | N/A                            | 2-3        |
|                  |                              | 0004             | Land Area, North Peninsula   | 1              | N/A                    | 1,983      | N/A                            | 2-3        |
|                  |                              | 0005             | Land Area, North Peninsula   | 1              | N/A                    | 1,887      | N/A                            | 2-3        |
| 9521             | Southeast Pond               | 0000             | Land Area and Pond Sediment  | 3              | N/A                    | 23,100     | N/A                            | 2-7        |

0006 LAND AREA, NORTH PENINSULA] 1 | N/A | 1,908 | N/A | 2-2

July

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Haddam Neck Plant License Termination Plan

**Table 2-10  
MARSSIM Classifications**

| Survey Area Code | Survey Area Code Description | Survey Unit Code | Survey Unit Code Description                   | MARSSIM Class. | Area (m <sup>2</sup> ) |            | Ratio (Total Area: Floor Area) | Figure No. |
|------------------|------------------------------|------------------|--|----------------|------------------------|------------|--------------------------------|------------|
|                  |                              |                  |  |                | Floor Area             | Total Area |                                |            |
| 9522             | Southeast Site Grounds       | 0001             | Land Area                                      | 2              | N/A                    | 6,972      | N/A                            | 2-2        |
|                  |                              | 0002             | Land Area                                      | 1              | N/A                    | 1,913      | N/A                            | 2-2        |
|                  |                              | 0003             | Land Area 150m East of Load distribution Tower | 1              | N/A                    | 1,997      | N/A                            | 2-2        |
|                  |                              | 0004             | Land Area                                      | 1              | N/A                    | 1,386      | N/A                            | 2-2        |
|                  |                              | 0005             | East Side Land of Canal                        | 1              | N/A                    | 1,947      | N/A                            | 2-2        |
|                  |                              | 0006             | South RCA Land Area                            | 1              | N/A                    | 1,987      | N/A                            | 2-2        |
|                  |                              | 0007             | South RCA Land Area                            | 1              | N/A                    | 1,952      | N/A                            | 2-2        |

July

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Haddam Neck Plant License Termination Plan

**Table 2-10  
MARSSIM Classifications**

| Survey Area Code | Survey Area Code Description            | Survey Unit Code | Survey Unit Code Description | MARSSIM Class. | Area (m <sup>2</sup> ) |            | Ratio (Total Area: Floor Area) | Figure No. |
|------------------|---|------------------|------------------------------|----------------|------------------------|------------|--------------------------------|------------|
|                  |   |                  |                              |                | Floor Area             | Total Area |                                |            |
| 9523             | Southeast Wetland Area                  | 0000             | Land Area                    | 3              | N/A                    | 106,000    | N/A                            | 2-7        |
| 9524             | South Side Grounds (Non-Protected Area) | 0000             | Land Area                    | 3              | N/A                    | 110,000    | N/A                            | 2-7        |
| 9525             | Southeast Site Road                     | 0000             | Land Area                    | 3              | N/A                    | 28,000     | N/A                            | 2-7        |
| 9526             | Northeast Mountain Side                 | 0000             | Land Area                    | 3              | N/A                    | 44,700     | N/A                            | 2-7        |
|                  |   | 0001             | Land Area                    | 2              | NA                     | 6,536      | N/A                            | 2-7        |
|                  |   | 0002             | Land Area                    | 2              | N/A                    | 6,069      | N/A                            | 2-7        |
| 9527             | East Mountain Side                      | 0001             | Land Area                    | 2              | N/A                    | 8,600      | N/A                            | 2-7        |
|                  |   | 002              | Land Area                    | 2              | N/A                    | 9,740      | N/A                            | 2-7        |

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Haddam Neck Plant License Termination Plan

**Table 2-10  
MARSSIM Classifications**

| Survey Area Code | Survey Area Code Description | Survey Unit Code | Survey Unit Code Description | MARSSIM Class. | Area (m <sup>2</sup> ) |            | Ratio (Total Area: Floor Area) | Figure No. |
|------------------|------------------------------|------------------|------------------------------|----------------|------------------------|------------|--------------------------------|------------|
|                  |                              |                  |                              |                | Floor Area             | Total Area |                                |            |
|                  |                              | 0003             | Land Area                    | 2              | N/A                    | 8,200      | N/A                            | 2-7        |
|                  |                              | 0004             | Land Area                    | 2              | N/A                    | 5,400      | N/A                            | 2-7        |
|                  |                              | 0005             | Land Area                    | 2              | N/A                    | 5,777      | N/A                            | 2-2        |
|                  |                              | 0006             | Land Area                    | 1              | N/A                    | 790        | N/A                            | 2-2        |
| 9528             | Southeast Mountain Side      | 0000             | Land Area                    | 3              | N/A                    | 575,488    | N/A                            | 2-7        |
|                  |                              | 0002             | Land Area                    | 2              | N/A                    | 9,752      | N/A                            | 2-7        |
|                  |                              | 0003             | Land Area                    | 2              | N/A                    | 9,447      | N/A                            | 2-7        |

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Haddam Neck Plant License Termination Plan

**Table 2-10  
MARSSIM Classifications**

| Survey Area Code | Survey Area Code Description           | Survey Unit Code | Survey Unit Code Description                                 | MARSSIM Class. | Area (m <sup>2</sup> ) |            | Ratio (Total Area: Floor Area) | Figure No. |
|------------------|--|------------------|--|----------------|------------------------|------------|--------------------------------|------------|
|                  |  |                  |  |                | Floor Area             | Total Area |                                |            |
|                  |  | 0004             | Land Area  | 2              | N/A                    | 3,058      | N/A                            | 2-7        |
| 9530             | Central Peninsula Area                 | 0001             | Land Area Bounded by and Immediately Adjacent to the Road    | 2              | N/A                    | 8,000      | N/A                            | 2-3<br>2-4 |
|                  |  | 0002             | Western Half of Diked Area and Immediately Surrounding Sides | 2              | N/A                    | 5,000      | N/A                            | 2-4        |
|                  |  | 0003             | Eastern Half of Diked Area and Immediately Surrounding Sides | 2              | N/A                    | 5,000      | N/A                            | 2-4        |
|                  |  | 0004             | Open Land Areas  | 3              | N/A                    | 97,000     | N/A                            | 2-4        |
| 9531             | South End of Peninsula                 | 0000             | Land Area  | 3              | N/A                    | 118,000    | N/A                            | 2-5        |
| 9532             | East Side Grounds (Non-Protected Area) | N/A              | N/A  | Non-impacted   | N/A                    | 375,600    | N/A                            | 2-7        |

July

February 2007

Haddam Neck Plant License Termination Plan

**Table 2-10  
MARSSIM Classifications**

| Survey Area Code | Survey Area Code Description        | Survey Unit Code | Survey Unit Code Description       | MARSSIM Class. | Area (m <sup>2</sup> ) |            | Ratio (Total Area: Floor Area) | Figure No. |
|------------------|-------------------------------------|------------------|------------------------------------|----------------|------------------------|------------|--------------------------------|------------|
|                  |                                     |                  |                                    |                | Floor Area             | Total Area |                                |            |
| 9535             | South East Landfill Area            | 0001             | Land Area                          | 1              | N/A                    | 1,900      | N/A                            | 2-7        |
|                  |                                     | 0002             | Land Area                          | 2              | N/A                    | 3,600      | N/A                            | 2-7        |
| 9536             | Construction Piles Near Rifle Range | 0000             | Land Area                          | 2              | N/A                    | 2,200      | N/A                            | 2-7        |
| 9537             | Permitted Landfill Area             | 0000             | Land Area                          | 2              | N/A                    | 2,200      | N/A                            | 2-7        |
| 9538             | Material Storage Area               | 0000             | Land Area                          | 2              | N/A                    | 4,200      | N/A                            | 2-7        |
| 9539             | ISFSI Haul Road                     | 0001             | ISFSI Haul Road (Northern Section) | 2              | N/A                    | 9,332      | N/A                            | 2-3<br>2-4 |
|                  |                                     | 0002             | ISFSI Haul Road (Southern Section) | 2              | N/A                    | 7,239      | N/A                            | 2-4        |

JULY

Februray 2007

Haddam Neck Plant License Termination Plan

*Subsurface Area Associated with the West Industrial Site Grounds (Non-Protected Area)*

**Table 2-10  
MARSSIM Classifications**

| Survey Area Code | Survey Area Code Description   | Survey Unit Code | Survey Unit Code Description | MARSSIM Class. | Area (m <sup>2</sup> ) |            | Ratio (Total Area: Floor Area) | Figure No. |
|------------------|--|------------------|------------------------------|----------------|------------------------|------------|--------------------------------|------------|
|                  |  |                  |                              |                | Floor Area             | Total Area |                                |            |
| 9801             | Subsurface soils in Radiologically Controlled Area (excluding 9308)  | 0000             | Subsurface Soil              | A*             | N/A                    | 15,788     | N/A                            | 2-6        |
| 9802             | Subsurface soils associated with surface soil survey area 9308 and subsurface soil areas within the industrial area but outside the radiologically controlled area | 0000             | Subsurface Soil              | B*             | N/A                    | 18,292     | N/A                            | 2-6        |
| 9803             | Subsurface soils associated with parking lot, Warehouses 1 & 2, and Steam Generator Mockup Bldg  | 0000             | Subsurface Soil              | C*             | N/A                    | 35,485     | N/A                            | 2-6        |
| 9804             | Subsurface area associated with Southeast Grounds (Non-Protected Area)   | 0000             | Subsurface Soil              | A*             | N/A                    | 11,568     | N/A                            | 2-6        |
| 9805             | Subsurface soils associated with peninsula (excluding area 9531)   | 0000             | Subsurface Soil              | C*             | N/A                    | 104,207    | N/A                            | 2-6        |
| 9806             | Subsurface soils associated with surface soil portions of survey area 9535 (South East Landfill)   | 0000             | Subsurface Soil              | A*             | N/A                    | 4250       | N/A                            | 2-6        |
| 9807             | Subsurface Soils associated with 9520-0004   | 0000             | Subsurface Soil              | B*             | N/A                    | 1983       | N/A                            | 2-6        |

*Sub Surface Area Associated with the North Grounds (non-Protected Area)*

July

February 2007

## Haddam Neck Plant License Termination Plan

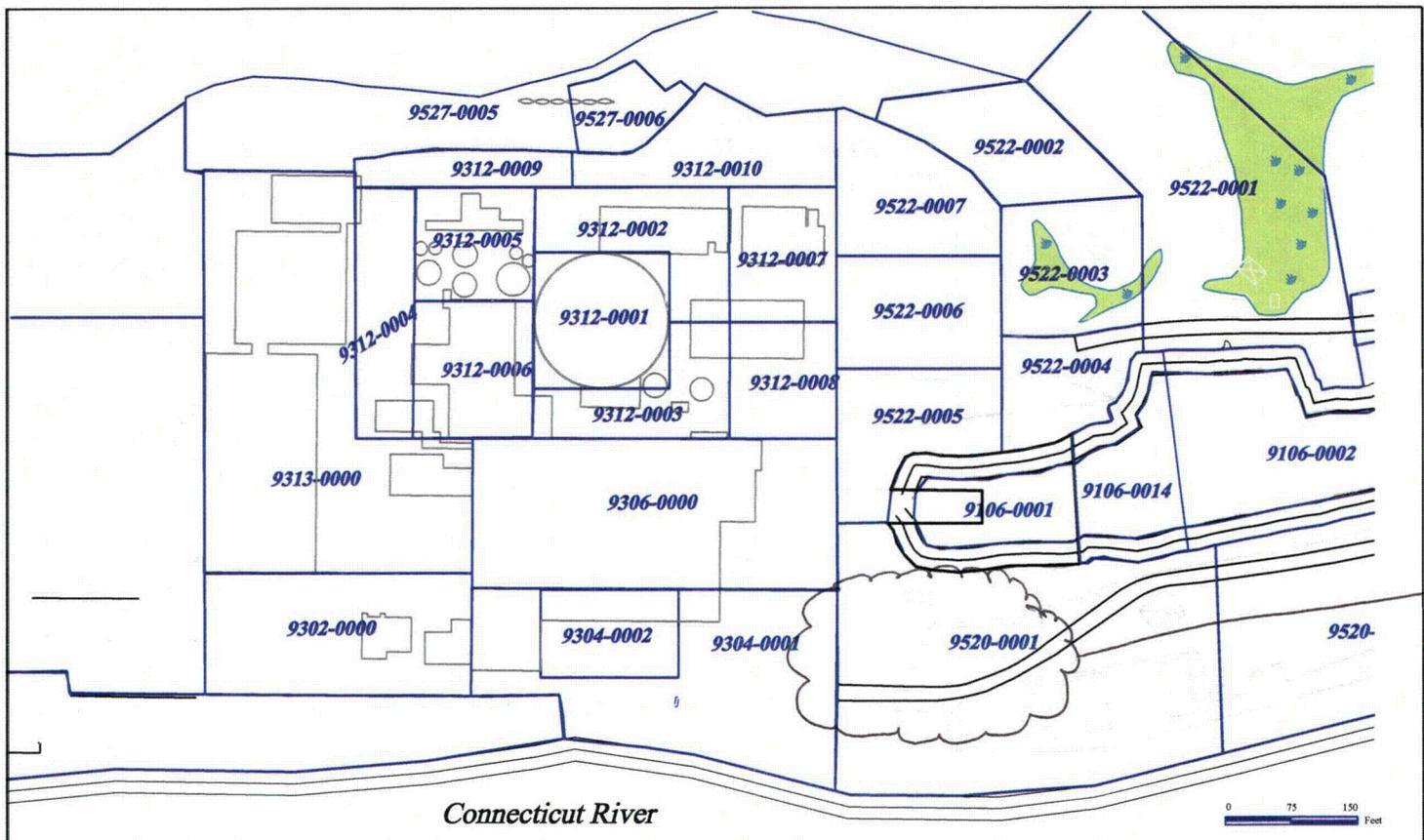
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↑ \*MARISSM does not cover media such as subsurface soil, which is considered beyond its scope. LTP Section 5.7.3.2.1 discusses the criteria applied during the classification of subsurface soils.

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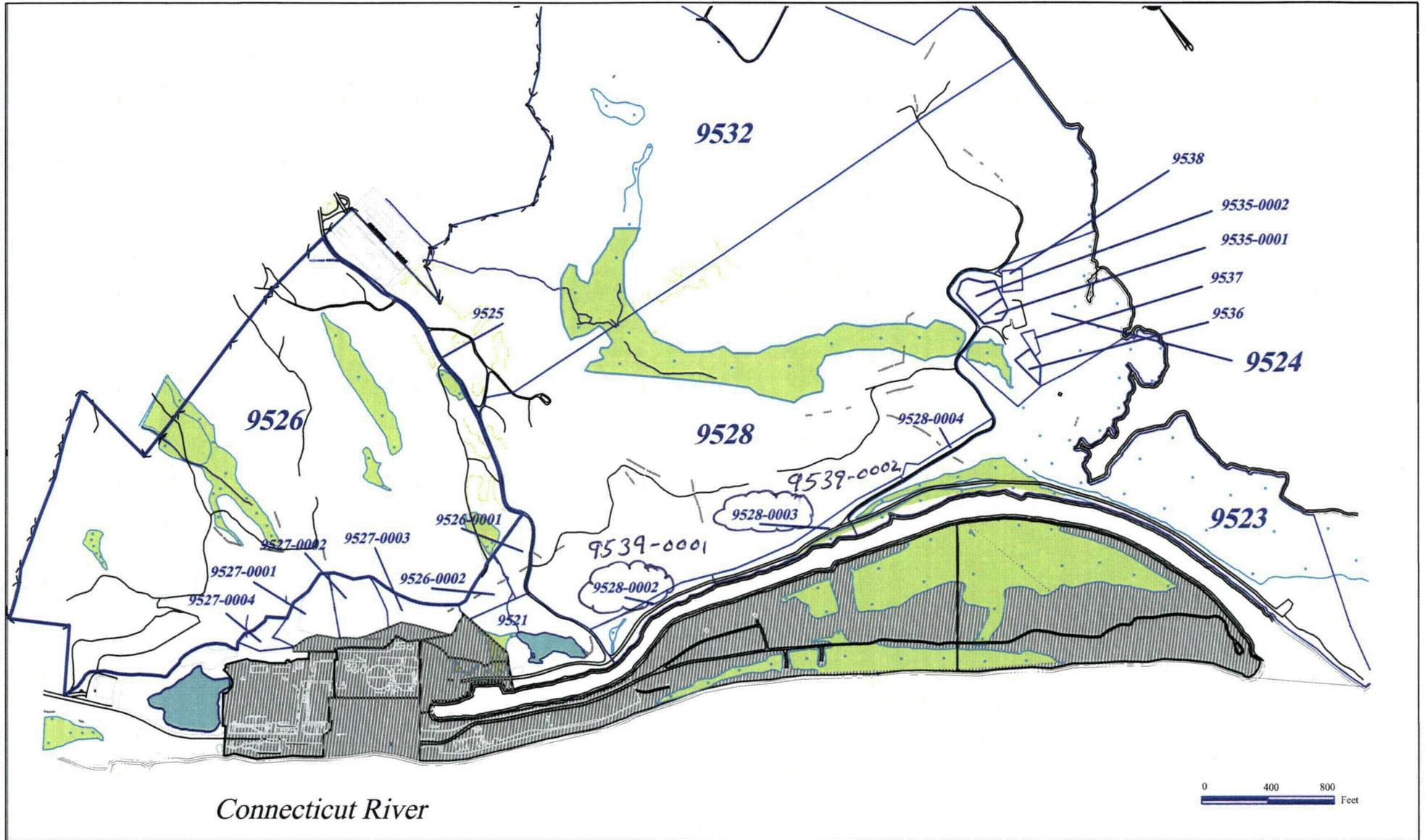
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JULY  
February 2007



ADD  
SURVEY Unit  
9520-0006

|   |   |   |                        |              |  |
|---|---|---|------------------------|--------------|--|
| <br>Plant<br>North | <br>CONNECTICUT YANKEE ATOMIC POWER COMPANY<br>CY UPDATE SURVEY UNIT BOUNDARIES<br>Surface Areas | <br>DEPARTMENT OF ENVIRONMENTAL PROTECTION | INITIAL CREATION DATE: | APRIL 2002   | <b>LEGEND</b><br> - We Land |
|   |   |   | REVISED BY:            | J McARTHUR   |  |
|   |   |   | REVISION DATE:         | JANUARY 2007 |  |
|   |   |   | LTP REVISION #:        | 5            |  |
|   |   |   | MAP #:                 | FIGURE 2-2   |  |



Connecticut River

0 400 800 Feet



Plant North



CONNECTICUT YANKEE ATOMIC POWER COMPANY  
 GENERAL ARRANGEMENT DRAWING  
 Surface Areas



|                        |               |
|------------------------|---------------|
| INITIAL CREATION DATE: | APRIL 2002    |
| REVISED BY:            | J McCARTHY    |
| REVISION DATE:         | FEBRUARY 2007 |
| LTP REVISION #:        | 5             |
| MAP #:                 | FIGURE 2-7    |

LEGEND  
 = Refer to Figures 2-1 through 2-6

## Haddam Neck Plant License Termination Plan

It is noted, however, that characterization efforts for groundwater contamination are still ongoing and the survey areas to which the  $H_{\text{ExistingGW}}$  term are applied may change. Those changes will be communicated to the NRC. This change may be caused by changes in the location of the plume, detection of groundwater contamination at locations outside the plume or changes to the capture zone or detection of groundwater contamination at locations outside the zone. The Phase 2 Hydrogeologic Work Plan, as described in Section 2.3.1.6, will provide additional characterization of groundwater that will be used to better define the groundwater contamination plume.

Prior to the request to release of any portion of the site from the license, CYAPCO will prepare and make available for inspection a capture zone analysis provided to the NRC in January 2005, based on data collected as part of the Phase 2 Hydrogeological Work Plan, to better define the capture zone distance, Reference 5-13. The "capture zone" is the area surrounding a hypothetical well to be used by the resident farmer, from which existing groundwater contamination could be drawn into the resident farmer's well. The analysis used to determine this area used the hydrogeological conditions and parameters assumed in the Resident farmer Scenario as described in Chapter 6 of the LTP.

**Table 5-3**  
**Survey Units Affected by Groundwater Contamination**

| Existing<br>Groundwater Zone of Influence | Future Groundwater<br>Concrete |
|---|--------------------------------|
| 9302                                      | 9302                           |
| 9304-1&2                                  | 9304-1&2                       |
| 9306                                      | 9306                           |
| 9312-1 Thru 10                            | 9312-1 Thru 10                 |
| 9313                                      | 9313                           |
| 9522-5, 6 & 7                             | 9522-5, 6 & 7                  |
| 9801                                      | 9801                           |
| 9802                                      | 9802                           |
| 9106-1, 2, 3, 4 & 14                      | N/A                            |
| 9512                                      | N/A                            |
| 9514                                      | N/A                            |
| 9520-1, 2, 3, 4 & 5                       | N/A                            |
| 9521                                      | N/A                            |
| 9522-1, 2, 3 & 4                          | N/A                            |
| 9527-1, 2, 3, 4, 5 & 6                    | N/A                            |
| 9528-0, 2 & 3                             | N/A                            |
| 9530-1, 2, 3 & 4                          | N/A                            |
| 9539-0001                                 | N/A                            |
| 9803                                      | N/A                            |
| 9804                                      | N/A                            |
| 9805                                      | N/A                            |
| 9807                                      | N/A                            |

ADDITION