

July 11, 2006

LICENSEE: Entergy Nuclear Operations, Inc

FACILITY: Vermont Yankee Nuclear Power Station

SUBJECT: SUMMARY OF ENVIRONMENTAL SITE AUDIT RELATED TO THE REVIEW OF THE LICENSE RENEWAL APPLICATION FOR VERMONT YANKEE NUCLEAR POWER STATION (TAC NOS. MC9670)

From May 23, 2006 to May 26, 2006, a review team consisting of the U.S. Nuclear Regulatory Commission (NRC) staff and contractors from Argonne National Laboratory (ANL) participated in a site audit at the Vermont Yankee Nuclear Power Station (VYNPS), related to the environmental review of the VYNPS license renewal application (LRA). The team consisted of ten ANL contractors and ten NRC staff members. The primary goal of the site visit was to review documentation, gather information to ensure that environmental requirements of license renewal as codified in Title 10 of the *Code of Federal Regulations* Part 51 (10 CFR Part 51) are met, and to interface with officials in Federal, State and local government agencies to obtain related information.

Enclosure 1 is a list of NRC, ANL, State of Vermont, and Entergy Nuclear Operations, Inc. (Entergy) representatives who participated in the site audit. Enclosure 2 is a table of documents provided by Entergy to assist the NRC staff in its review of the VYNPS Environmental Report. These documents are publicly available, and can be found at the Agencywide Documents Access and Management System (ADAMS); the accession numbers are listed in Enclosure 2. ADAMS is accessible at <http://adamswebsearch.nrc.gov/dologin.htm> or through the NRC's Electronic Reading Room link at <http://www.nrc.gov>. Persons who do not have access to ADAMS, or who encounter problems in accessing the documents located in ADAMS, should contact the NRC's Public Document Room staff at 1-800-397-4209, or 301-415-4737, or by e-mail at [pdr@nrc.gov](mailto:pdr@nrc.gov).

On Tuesday, May 23, 2006, the environmental review team participated in a general site tour of the VYNPS site with Entergy staff. The general site tour focused on areas relevant to the environmental review, including the intake structure, discharge structure, cooling towers, meteorological towers, water sampling locations, site structures, the Vernon Hydroelectric Station, and the site environs. During the rest of the site audit, the team members examined the data used by Entergy in preparation of the Environmental Report and also met with Entergy representatives with corresponding environmental expertise in smaller groups.

These groups participated in various activities, including tours of the radioactive waste processing areas, the meteorological tower and instruments, the transmission line rights of way, and the intake structure. During a boat tour, team members examined the intake structure, the intake bays, the discharge structure, and the Vernon Hydroelectric Station.

Team members met onsite with officials from the Vermont Agency for Natural Resources, the Vermont Department of Health, and with a representative of the U.S. Fish and Wildlife Service. Additionally, team members met offsite with non-governmental organizations (e.g., Realtors, chambers of commerce), State officials in Montpelier, Vermont, and local government officials in Vermont, New Hampshire, and Massachusetts. Information gathered through these offsite meetings will assist the environmental review team in its evaluation. Entergy representatives provided a brief presentation on its process for identifying new and significant information. No new and significant information was identified by Entergy.

At the conclusion of the site visit, the NRC staff and ANL contractors summarized the status of the review with Entergy representatives. NRC indicated that additional information will be needed to evaluate if any of the transmission lines exiting the site would be considered to be in-scope for evaluating environmental impacts for license renewal at VYNPS. Entergy representatives indicated that the transmission lines would have been constructed at the site even if VYNPS was never constructed, because of the need to connect Vermont to the New Hampshire and Massachusetts grids. Entergy further stated that it would provide documentation to support that position. The environmental report submitted by Entergy as part of the LRA, did not consider any of the transmission lines exiting the site to be in-scope.

The NRC staff indicated that, the review team did not identify any significant issues during its site visit or during offsite visits with Federal, State, and local agencies. However, the NRC staff further indicated that the review was ongoing and that any additional information necessary to support the review would be formally requested as a request for additional information.

**/RA/**

Richard L. Emch, Jr., Senior Project Manager  
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Division of License Renewal  
Office of Nuclear Reactor Regulation

Docket Nos. 50-271

Enclosures:  
As stated

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Team members met onsite with officials from the Vermont Agency for Natural Resources, the Vermont Department of Health, and with a representative of the U.S. Fish and Wildlife Service. Additionally, team members met offsite with non-governmental organizations (e.g., Realtors, chambers of commerce), State officials in Montpelier, Vermont, and local government officials in Vermont, New Hampshire, and Massachusetts. Information gathered through these offsite meetings will assist the environmental review team in its evaluation. Entergy representatives provided a brief presentation on its process for identifying new and significant information. No new and significant information was identified by Entergy.

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Docket Nos. 50-271

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ADAMS Accession No.: Site Audit Summary (w /Encls. 1 & 2): **ML061730397**

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OFFICIAL AGENCY RECORD

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ENVIRONMENTAL SITE AUDIT  
MAY 23 - 26, 2006**

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| John Hoffman              | Entergy                                  |

**References Collected at the Vermont Yankee Nuclear Power Station  
Site Audit  
May 23 - 26, 2006**

|     | <b>Reference Document</b>  | <b>ADAMS<br/>Accession<br/>Number</b> |
|-----|--|---------------------------------------|
| 1.  | Vermont Municipal and Regional Planning and Development Act, as amended through 2004, Title 24 VSA Chapter 117 | ML061740113                           |
| 2.  | Vermont Dept of Health Report on Cancer in Vermont   | ML061740117                           |
| 3.  | List of Rare Species by County, Massachusetts  | ML061740126                           |
| 4.  | Windham Regional Plan, Dec 2001  | ML061740137                           |
| 5.  | VYNPS Reg Guide 1.16 Man-REM final end of year report for 2002   | ML061770153                           |
| 6.  | VYNPS Procedure, Refrigerant Management Program, June 29, 2005   | ML061770585                           |
| 7.  | Vermont Yankee Nuclear Power Station NPDES Final Amended Permit #3-1199  | ML061730280                           |
| 8.  | Vermont Yankee Nuclear Power Station, Off-Site Dose Calculation Manual Rev 30                                  | ML031620372                           |
| 9.  | Vermont Yankee - 2000 Annual Radioactive Effluent Release Report   | ML011380006                           |
| 10. | Vermont Yankee - 2001 Annual Radioactive Effluent Release Report   | ML021360147                           |
| 11. | Vermont Yankee - 2002 Annual Radioactive Effluent Release Report   | ML031620372                           |
| 12. | Vermont Yankee - 2003 Annual Radioactive Effluent Release Report   | ML041340397                           |
| 13. | Vermont Yankee - 2004 Annual Radioactive Effluent Release Report   | ML051370328                           |
| 14. | Vermont Yankee - 2005 Annual Radioactive Effluent Release Report   | ML061380081                           |
| 15. | Vermont Yankee - 2000 Annual Radiological Environmental Operating Report.                                      | ML011380046                           |
| 16. | Vermont Yankee - 2001 Annual Radiological Environmental Operating Report.                                      | ML021360202                           |
| 17. | Vermont Yankee - 2002 Annual Radiological Environmental Operating Report.                                      | ML031340690                           |

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| 18. | Vermont Yankee - 2003 Annual Radiological Environmental Operating Report.   | ML041350058                           |
| 19. | VYNPS 2004 Annual Radiological Environmental Operating Report.  | ML051380157                           |
| 20. | Vermont Yankee - Supplement to the Annual Radiological Environmental Operating Report for year 2004   | ML060040149                           |
| 21. | Vermont Yankee - 2005 Annual Radiological Environmental Operating Report.   | ML061380470                           |
| 22. | Federal Facilities and lands within 50 miles of VYNPS   | ML061740435                           |
| 23. | VYNPS aerial photos during Construction 1968-1971   | ML061740553                           |
| 24. | VYNPS Application for NPDES Permit Renewal 2006-2010, No. VT0000264, September 29, 2005   | ML061770135                           |
| 25. | State of Vermont Public Service Board, 2003, Prefiled Testimony of Sonja A. Schuyler on Behalf of Entergy Nuclear Vermont Yankee, LLC and Entergy Nuclear Operations, Inc. Feb. 21, 2003. | ML061770136                           |
| 26. | Vermont Yankee Nuclear Power Station Procedure RP2616, Sampling, Testing and Treatment of Plant Potable Water System  | ML061770148                           |
| 27. | 2005 Annual Report of the Town of Hinsdale and the Hinsdale School District   | ML061770149                           |
| 28. | Vernon Town and School District Annual Report for Year Ending June 30, 2004   | ML061770150                           |
| 29. | VYNPS 2005 Waste Inventory  | ML061770155                           |
| 30. | Ltr from C. Fowler (Vermont Agency of Natural Resources) to L. Dewald (VYNPS) 09/30/2005 re timely submittal of application to renew NDPEs Permit 3-1199                                  | ML061770157                           |
| 31. | VYNPS Emergency Diesel DG-1-1B Preventative Maintenance Logs  | ML061770159                           |
| 32. | VYNPS Emergency Diesel Driven Fire Pump P-40-1A Preventative Maintenance Logs   | ML061770162                           |
| 33. | VYNPS John Deere Diesel DG-3-1A Preventative Maintenance Logs   | ML061770165                           |
| 34. | VYNPS Emergency Diesel DG-1-1A Preventative Maintenance Logs  | ML061770169                           |

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|-----|---|---------------------------------------|
| 35. | VYNPS Air Emissions Record-Keeping Logs   | ML061770172                           |
| 36. | VYNPS Diesel Fuel Oil Analyses  | ML061770180                           |
| 37. | VYNPS Land Use map, vegetation and cover type, delineated site wetlands, and riparian zone  | ML061770067                           |
| 38. | VYNPS Email to L. DeWald re Dry Fuel Storage Pad, Apron, and Ramps EN EV 115 Environmental Review. March 20, 2006                       | ML061770069                           |
| 39. | VYNPS Environmental Review Procedure, Nuclear Management Manual Fleet Procedure EN-EV-115   | ML061770070                           |
| 40. | VYNPS Cooling Tower Noise Study, 2005   | ML061770075                           |
| 41. | 2003 Vernon, Town Plan, Vermont   | ML061770076                           |
| 42. | Vernon Vermont Annual Report, year ending December 31, 2003, Vernon School District fiscal year ending, June 30, 2003                   | ML061780540                           |
| 43. | State of Vermont, Environmental Radiation Surveillance Report, 2001 Summary   | ML061780093                           |
| 44. | State of Vermont, Environmental Radiation Surveillance Report, 2000 Summary   | ML061780101                           |
| 45. | State of Vermont, Environmental Radiation Surveillance Report, 2003 Summary   | ML061770606                           |
| 46. | State of Vermont, Environmental Radiation Surveillance Report, 2002 Summary   | ML061770612                           |
| 47. | VYNPS Air Emissions Record-Keeping Logs and Waste Oil Analyses  | ML061770490                           |
| 48. | VYNPS House Heating Boiler Nameplate Ratings, Fuel Consumption and Air Emissions Recordkeeping. 2001-2005                               | ML061770496                           |
| 49. | VYNPS Air Contaminant Source Registration Certificate. State of Vermont, Agency of Natural Resources                                    | ML061770391                           |
| 50. | State of Vermont, Environmental Radiation Surveillance Report, 2004 Summary. Vermont Department of Health Office of Radiological Health | ML061770589                           |
| 51. | State of Vermont, Environmental Radiation Surveillance Report, 2005 Summary. Vermont Department of Health Office of Radiological Health | ML061770593                           |
| 52. | VYNPS, Indirect Discharge Permit-Administrative Processing Fee for 5-Year Permit Renewal  | ML061730172                           |
| 53. | Governor Hunt House, Walking Tour Document  | ML061730174                           |

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| 54. | Vermont Yankee Nuclear Power Station License Renewal SEIS Information Needs   | ML061730180                           |
| 55. | VYNPS, Table 2. Summary of Site Boundary Direct Shine Doses and EPU Scaling Factors   | ML061730182                           |
| 56. | Entergy Nuclear Review of New and Significant Information, Vermont Yankee Nuclear Power Station                               | ML061730183                           |
| 57. | Letter with Attachment from Bradford Riley, VYNPS, to James P. O'Reilly, NRC re: Reportable Occurrence                        | ML061730185                           |
| 58. | VYNPS, DR-53 Location Exposure Rate Status-Pre Power Up, Pre and Post Shield  | ML061730186                           |
| 59. | VYNPS, MSLRM Actual Maximum DR-53 Dose Calculations Utilizing ODCM Methodology  | ML061730188                           |
| 60. | Permit Certificate for the Underground Storage Tank Facility issued by the VT Agency of Natural Resources to VYNPS            | ML061730199                           |
| 61. | Ltr from VT ARN to VYNPS approving the Limiting Allowable Emissions Opt-Out Application #OP-95-038                            | ML061730203                           |
| 62. | Email from W. Smith of Valley Environmental Services Re: Wetland Delineation, VYNPS Nov. 1, 2004                              | ML061730206                           |
| 63. | Email from W. Lattrell of Valley Environmental Services Re: Wetland Delineation, VYNPS Nov. 5, 2004                           | ML061730211                           |
| 64. | Email from W. Lattrell of Valley Environmental Services Re: Wetlands Delineation, VYNPS May 13, 2005                          | ML061730212                           |
| 65. | WSESU Annual Report 2005-2006.  | ML061730214                           |
| 66. | Annual Groundwater Monitoring Report, Vermont Yankee Power Plant, SMS Site #99-2617 Vernon, Vermont                           | ML061730219                           |
| 67. | VYNPS, Table 3. Vermont Yankee Effluent and Waste Disposal Annual Report  | ML061730236                           |
| 68. | Average Connecticut River Discharge (cfs) at Vernon Station for the Year 2005.  | ML061730237                           |
| 69. | Vernon, VT School District, Actual FY05 School Revenue  | ML061730240                           |
| 70. | Ltr. from J. Akielaszek (VT ANR) to J. Thayer (VYNPS) transmitting the Final Amended Indirect Discharge Permit, June 26, 2003 | ML061730244                           |
| 71. | Glebe Mountain Wind Energy, LLC Wind Energy Project   | ML061730169                           |



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| 72. | Ltr. with Attachments from D. Marx (VYNPS) to B. Kooiker (VT ANR) re: Unplanned release to the Connecticut River, August 14, 1992                                     | ML061730173                           |
| 73. | Ltr. from VYNPS to VT ANR transmitting the Limiting Allowable Emissions Opt-Out Application, Nov. 09, 1995  | ML061730201                           |
| 74. | Vernon VT FY2006 Municipality Reconciliation, Final Data Based on Final Education Grand Lists   | ML061730216                           |
| 75. | VYNPS, Phase II Site Investigation Report Nov. 15, 1999   | ML061730235                           |
| 76. | VYNPS Source Water Protection Plans May 11, 2005  | ML061730285                           |
| 77. | 2005 Air Pollutant Emissions Inventory Report for Entergy Nuclear Vermont Yankee, LLC   | ML061730287                           |
| 78. | Permit to Operate Vermont Yankee NEOB Water System  | ML061730289                           |
| 79. | VYNPS NPDES Outfalls Map  | ML061730290                           |
| 80. | Town of Vernon, VT, Grand List, Tax Book Report by Name for All Parcels Main District   | ML061730292                           |
| 81. | Ltr. from VT ANR to VYNPS transmitting an Indirect Discharge Permit Amendment Permit No. ID-9-0036-2, April 22, 1998  | ML061730294                           |
| 82. | Ltr. from the Department of the Army to VYNPS transmitting Permit to perform dredging work, Oct. 17, 1997   | ML061730296                           |
| 83. | Ltr. from VT ANR to VYNPS transmitting the approved Final Indirect Discharge Permit. Permit No. ID-9-0036, Aug. 30, 2000  | ML061730298                           |
| 84. | VYNPS Map. Reference K: Oil/Hazmat Locations  | ML061730301                           |
| 85. | VYNPS Site Plan for Leachfields   | ML061730312                           |
| 86. | VYNPS Site Plan - Recognized Environmental Conditions   | ML061730313                           |
| 87. | VYNPS Operating Procedure. OP2180. Revision 39. Circulating Water Cooling Tower Operation   | ML061730314                           |
| 88. | VYNPS Wetlands Delineation Map  | ML061730316                           |
| 89. | Ltr. from VYNPS to VT ANR transmitting the Renewal Application for Indirect Discharge Permit July 6, 2005   | ML061730319                           |
| 90. | Ltr. from VYNPS to VT ANR transmitting additional information and corrected data re: Indirect Permit Renewal Application, Effluent and Groundwater Data Aug. 22, 2005 | ML061730321                           |
| 91. | VYNPS used oil management and Furnance operation summary, 2006  | ML061770405                           |

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| 92.  | Ltr. from VYNPS to B. Kooiker (VT ANR) re: Additional information on the NPDES permit amendment request, March 7, 2005   | ML061770399                           |
| 93.  | Vermont Yankee 2005 Ecological Studies Report #35  | ML061770396                           |
| 94.  | Third Party review of VYNPS Hydrothermal Modeling report re: Increased discharge temperature limits, May 2003  | ML061770394                           |
| 95.  | VYNPS Phase I and II Environmental Site Assessment, June 4, 2001   | ML061770079                           |
| 96.  | VYNPS NPDES sampling station maps May 2005   | ML061870315                           |
| 97.  | VYNPS Sampling Maps 2004 Juvenile American Shad  | ML061870326                           |
| 98.  | VYNPS Intake Structure Dredging Bathymetric Survey   | ML061870334                           |
| 99.  | Aquatec (1993). Ecological Studies of the Connecticut River, Vernon, Vermont. Report 22, Summary and Data  | ML061870335                           |
| 100. | Binkered et al. (1978) Executive Summary 316 Demonstration. Vermont Yankee Nuclear Power Station, Engineering Hydrological and Biological Information, Environmental Impact Assessment.                | ML061870343                           |
| 101. | Downey and Binkered (1990). 316 Demonstrataion. Vermont Yankee Nuclear Power Station, Biological, Hydrological, and Engineering Information.   | ML061870353                           |
| 102. | Normandeau Associates, Inc. April 1999. Vermont Yankee/Connecticut River System Analytical Bulletin 72. Composition of Adult American Shad at the Vernon Hydroelectric Dam Fishway During Spring 1998. | ML061870371                           |
| 103. | Normandeau Associates, Inc. April 1999. Vermont Yankee/Connecticut River System Analytical Bulletin 73. Abundance of Juvenile American Shad in the Vernon Pool During Spring 1998.                     | ML061870380                           |
| 104. | Normandeau Associates, Inc. January 2000. Vermont Yankee/Connecticut River System Analytical Bulletin 74. Composition of Adult American Shad at the Vernon Hydroelectric Dam During Spring 1999.       | ML061870389                           |
| 105. | Normandeau Associates, Inc. January 2000. Vermont Yankee/Connecticut River System Analytical Bulletin 75. Abundance of Juvenile American Shad at the Vernon Pool During 1999.                          | ML061870399                           |

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| 106. | Normandeau Associates, Inc. January 2001. Vermont Yankee/Connecticut River System Analytical Bulletin 76. Abundance of Juvenile American Shad at the Vernon Pool During 2000.                  | ML061870408                           |
| 107. | Normandeau Associates, Inc. March 2002. Vermont Yankee/Connecticut River System Analytical Bulletin 77. Composition of Adult American Shad at the Vernon Hydroelectric Dam During Spring 2001. | ML061870413                           |
| 108. | Normandeau Associates, Inc. May 2002. Vermont Yankee/Connecticut River System Analytical Bulletin 78. Abundance of Juvenile American Shad at the Vernon Pool During 2001.                      | ML061870421                           |
| 109. | Normandeau Associates, Inc. April 2003. Vermont Yankee/Connecticut River System Analytical Bulletin 79. Abundance of Juvenile American Shad at the Vernon Pool During 2002.                    | ML061870431                           |
| 110. | Normandeau Associates, Inc. May 2004. Vermont Yankee/Connecticut River System Analytical Bulletin 81. Abundance of Juvenile American Shad at the Vernon Pool During 2003                       | ML061870434                           |
| 111. | Aquatec 1995. Ecological Studies of the Connecticut River, Vernon, Vermont. Report 24 with Appendices, Summary and Data, January 1994-December 1994  | ML061870483                           |
| 112. | Downey, Philip C. Abundance, Density, and Composition of Ichthyoplankton of the Connecticut River Near Vernon, Vermont. Nov. 1990  | ML061880107                           |
| 113. | Normandeau Associates, Inc. April 22, 1999. Summary Report on the 1986-1997 Studies of the Connecticut River, Vernon, Vermont. Prepared for Vermont Yankee Nuclear Power Corporation           | ML061880117                           |
| 114. | Normandeau Associates. Ecological Studies of the Connecticut River, Vernon, Vermont. Report 31, January-December 2001  | ML061880123                           |
| 115. | Entergy Nuclear Vermont Yankee, LLC and Normandeau Associates, Inc. Ecological Studies of the Connecticut River, Vernon, Vermont, Report 33, January-December 2003. May 2004                   | ML061880141                           |
| 116. | Vermont Yankee Nuclear Power Station Final Environmental Impact Statement July 1972  | ML061880207                           |
| 117. | VYNPS Archeological Sensitivity of Assessment, Proposed Gas Storage Area and Access Road January 17, 2001  | ML061880211                           |

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| 118. | Normandeau Associates, Inc. January 1998. Vermont Yankee/Connecticut River System Analytical Bulletin 70. Composition of Adult American Shad at the Vernon Hydroelectric Dam Fishway During Spring 1997 | ML061880215                           |
| 119. | Normandeau Associates, Inc. January 1998. Vermont Yankee/Connecticut River System Analytical Bulletin 71. Abundance of Juvenile American Shad in the Vernon Pool During 1997                            | ML061880218                           |
| 120. | Normandeau Associates, Inc. May 2005. Vermont Yankee/Connecticut River System Analytical Bulletin 82. Abundance of Juvenile American Shad at the Vernon Pool During 2004                                | ML061880221                           |
| 121. | Windham Regional Plan Draft. May 22, 2006   | ML061880385                           |
| 122. | VYNPS Public Service Board Testimony for Hydrogen Storage, Parking Area, and Security Barrier System  | ML061880449                           |

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