UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION I
475 ALLENDALE ROAD
KING OF PRUSSIA, PENNSYLVANIA 19406-1415

February 20, 2007

Docket No. 05000003 License No. DPR-5

Mr. Fred Dacimo
Site Vice President
Entergy Nuclear Operations, Inc.
Indian Point Energy Center
295 Broadway, Suite 1
P.O. Box 249
Buchanan, NY 10511-0249

SUBJECT: INSPECTION 05000003/2007008, INDIAN POINT NUCLEAR GENERATING STATION, UNIT 1, BUCHANAN, NEW YORK

Dear Mr. Braun:

On January 30-31, 2007, James Kottan of this office conducted a safety inspection at the above address of activities authorized by the above listed NRC license. The inspection was an examination of your licensed activities as they relate to maintenance and surveillance activities and storage of spent nuclear fuel at Unit 1. The inspection consisted of observations by the inspector, interviews with personnel, and a selected examination of representative records. The findings of the inspection were discussed with Mr. W. Ball and members of your staff at the conclusion of the inspection on January 31, 2007. The enclosed report presents the results of this inspection.

Within the scope of this inspection, the NRC did not identify any violations. The programs related to the Unit 1 Technical Specifications were appropriately implemented.

Current NRC regulations and the General Policy and Procedure for NRC Enforcement Actions are available at the NRC web site http://www.nrc.gov/materials/ql-material.html or by contacting the Government Printing Office (GPO) toll-free at 1-888-293-6498. The GPO is open from 7:00 a.m. to 9:00 p.m. EST, Monday through Friday (except Federal holidays). No reply to this letter is required.

Your cooperation with us is appreciated.

Sincerely,

/RA/
Mark Roberts, Acting Chief
Decommissioning Branch
Division of Nuclear Materials Safety

Enclosure:
NRC Inspection Report No. 05000003/2007008

cc w/encl:
G. J. Taylor, Chief Executive Officer, Entergy Operations
M. R. Kansler, President, Entergy Nuclear Operations Inc. (ENO)
J. T. Herron, Senior Vice President and Chief Operations Officer (ENO)
C. Schwarz, Vice President, Operations Support (ENO)
K. Polson, General Manager Operations (ENO)
O. Limpias, Vice President, Engineering (ENO)
J. McCann, Director, Licensing (ENO)
C. D. Faison, Manager, Licensing (ENO)
R. Patch, Director of Oversight (ENO)
J. Comiotes, Director, Nuclear Safety Assurance (ENO)
P. Conroy, Manager, Licensing (ENO)
T. C. McCullough, Assistant General Counsel, Entergy Nuclear Operations, Inc.
P. R. Smith, President, New York State Energy, Research and Development Authority
P. Eddy, Electric Division, New York State Department of Public Service
C. Donaldson, Esquire, Assistant Attorney General, New York Department of Law
D. O'Neill, Mayor, Village of Buchanan
J. G. Testa, Mayor, City of Peekskill
R. Albanese, Four County Coordinator
S. Lousteau, Treasury Department, Entergy Services, Inc.
Chairman, Standing Committee on Energy, NYS Assembly
Chairman, Standing Committee on Environmental Conservation, NYS Assembly
Chairman, Committee on Corporations, Authorities, and Commissions
M. Slobodien, Director, Emergency Planning
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Assemblywoman Sandra Galef, NYS Assembly
County Clerk, Westchester County Legislature
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R. Bondi, Putnam County Executive
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E. A. Diana, Orange County Executive
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D. Lochbaum, Nuclear Safety Engineer, Union of Concerned Scientists
Public Citizen's Critical Mass Energy Project
M. Mariotte, Nuclear Information & Resources Service
F. Zalcman, Pace Law School, Energy Project
L. Puglisi, Supervisor, Town of Cortlandt
Congressman John Hall
Congresswoman Nita Lowey
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Senator Charles Schumer
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J. Riccio, Greenpeace
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U.S. NUCLEAR REGULATORY COMMISSION
REGION I

INSPECTION REPORT

Inspection No.	05000003/2007008
Docket No.	05000003
License No.	DPR-5
Licensee:	Indian Point Nuclear Generating Station, Unit 1
Location:	Buchanan, New York 10511
Inspection Dates:	January 30-31, 2007
Inspector:	James Kottan, Sr. Health Physicist Decommissioning Branch
Approved By:	Mark Roberts, Acting Chief Decommissioning Branch Division of Nuclear Materials Safety

Enclosure

REPORT DETAILS

Indian Point Nuclear Generating Station, Unit 1 is a pressurized water reactor which has been shut down since October 31, 1974. Since that time, the reactor has remained in a shutdown, defueled condition, and Unit 1 has continued to serve as a support facility for the operation of Unit 2. Units 1 and 2 share a number of systems and facilities and also a common operating organization. Unit 1 contains radioactive waste processing facilities that provide radioactive waste processing for both Unit 1 and Unit 2.

Inspection Scope

The purpose of the inspection was to verify the licensee's controls for the safe storage of Unit 1 spent fuel and other radioactive material, and the implementation of the Unit 1 Technical Specifications (TS). The inspection included a facility tour and a review of changes to the facility organization and management since the previous inspection; spent fuel storage pool safety; safety reviews, design changes and modifications; and a review of the site fire protection program as applied to Unit 1. Audits reviewed included audit numbers QA-02-2006-P-1, IPEC Chemistry Program; QA-14-2006-IP-1, IPEC Radiation Protection Program; QA-10-2006-IP-1, Maintenance; and QA-09-2006-IP-1, IPEC Fire Protection Program. The inspector also reviewed Surveillance Report QS-2006-IP-028, Special Nuclear Material Accountability at IPEC. Additionally, the inspector reviewed selected 2006 Condition Reports. The radiation protection and security programs were not inspected because these programs were part of the common site-wide programs in these areas, which have been inspected by NRC Region based specialist and resident inspectors.

Observations and Findings

No findings of significance were observed.

The tour of Unit 1 included the Nuclear Service Building (NSB), the Chemical Systems Building (CSB), and the annulus area of the containment structure. The containment, which was maintained in a condition to allow safe storage and subsequent decommissioning, contained the components utilized during operation, including the steam generators and reactor coolant pumps. The inspector observed that the radiation monitors and effluent sample collection systems were operable. Observed areas of Unit 1appeared to be adequately maintained and housekeeping was adequate.

The inspector reviewed selected water chemistry data for the Unit 1 spent fuel storage pool for 2006 and 2007 to date and noted that the licensee was meeting the TS sampling, analysis,and specification requirements with respect to the water chemistry parameters. Additionally, the licensee was meeting the TS requirements for spent fuel pool water level monitoring and radioactivity analysis. The inspector also reviewed the results of the spent fuel storage pool inventory for 2006 as described in Procedure EN-NF-200, Rev. 2, *Special Nuclear Material Control*. The spent fuel inventory was conducted on August 2, 2006. Each fuel assembly being identified with verification by a second individual.

Although Units 1 and 2 share a common operating organization, a separate Unit 1 project organization has been established by the licensee in order to direct the activities of major projects related to Unit 1. Two major projects underway during the previous Unit 1 inspection were plans for removal of the spent fuel from the spent fuel storage pool and cleanup and removal of ion exchange resin from tanks and vessels associated with past operations at Unit 1. The inspector reviewed the licensee's actions with respect to the above projects for 2006. The project for removal of ion exchange resin from tanks and vessels associated with past operations was competed in August of 2006. The tank and vessel project involved removal, packaging, classification, and shipment of ion exchange resin from the 16 vessels and tanks related to Unit 1 operation. The licensee stated that current plans still called for the removal of the spent fuel from the spent fuel storage pool to dry cask storage by the end of 2007. In April 2006, the licensee placed into service, on a part-time basis, a demineralizer system to remove radioactive impurities from the spent fuel storage pool water prior to transfer of the spent fuel. In August of 2006, the licensee placed the system into continuous operation. As discussed during the previous inspection, the licensee planned to modify the north curtain drain treatment system for more effective removal of radioactivity from this effluent pathway. This modification was also completed in 2006.

As part of the above Unit 1 projects, the licensee had completed several modifications and evaluations of Unit 1 systems. The inspector reviewed "West Storage Pool, 24-7 Demineralizer System Temporary Mod. No. Tm-RW-S-4.801," and the documentation for the North Curtain Drain Improvement project. The inspector noted that the above system modifications were completed following the site process and procedures for temporary modifications and for screening as to whether 50.59 reviews were required and did not involve a change to the Unit 1 TS.

The inspector noted that the selected audits and surveillances addressed Unit 1 activities, where appropriate, and the audits and surveillances were thorough and sufficiently detailed to identify programmatic weaknesses or areas of declining performance. The review of selected condition reports indicated that the licensee had a program in place for reporting safety issues, classifying the issues, and providing management review to resolve the issues.

Conclusions

The licensee maintained an effective surveillance and maintenance program relative to TS requirements for the safe storage, maintenance, and control of spent fuel. The licensee also maintained an effective, proactive program to identify, resolve and prevent issues that would degrade safety or the quality of maintaining Unit 1 in a safe storage condition to allow for subsequent decommissioning. The licensee maintained an adequate safety review program to verify that Unit 1 project activities do not involve unreviewed safety questions or changes to the TS.

Exit Meeting Summary

The inspector presented the inspection results to Mr. W. Ball and other members of licensee management and staff at the conclusion of the inspection on January 31, 2007. The licensee acknowledged the findings presented by the inspector. The licensee did not identify any documents or processes reviewed by the inspectors as proprietary.

PARTIAL LIST OF PERSONS CONTACTED

Licensee

W. Ball, Manager, Unit 1 Projects
P. Conway, Licensing Manager
C. English, Assistant Manager, Unit 1
M. Garofalo, Supervisor, QA
W. Henries, Project Manager, Engineering, Unit 1
T. Jones, Licensing Supervisor
S. Wilkie, Fire Protection Engineer

INSPECTION PROCEDURES USED

36801 Organization, Management, and Cost Controls at Permanently Shutdown Reactors
37801 Safety Reviews, Design Changes, and Modifications at Permanently Shutdown Reactors
40801 Self-Assessment, Auditing, and Corrective Action Program
60801 Spent Fuel Pool Safety at Permanently Shutdown Reactors
71801 Decommissioning Performance and Status Review at Permanently Shutdown Reactors

ITEMS OPEN, CLOSED, AND DISCUSSED

Opened	None
Closed	None
Discussed	None

LIST OF ACRONYMS USED

CSB	Chemical Systems Building
NSB	Nuclear Service Building
TS	Technical Specifications