



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

March 2, 2006

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: INDIAN POINT NUCLEAR GENERATING STATION, UNIT 1, BUCHANAN,  
NEW YORK - INSPECTION REPORT NO. 05000003/2006008

Dear Mr. Dacimo:

On January 10, 11, and 30, 2006, 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. P. Rubin and members of your staff at the conclusion of the inspection on January 11, 2006, and inspection follow-up activities were completed on January 30, 2006. 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/

Marie Miller, Chief  
Decommissioning Branch  
Division of Nuclear Materials Safety

Enclosure:

NRC Inspection Report No. 05000003/2006008

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)  
P. Rubin, General Manager Operations (ENO)  
O. Limpas, Vice President, Engineering (ENO)  
J. McCann, Director, Licensing (ENO)  
C. D. Faison, Manager, Licensing (ENO)  
M. J. Colomb, Director of Oversight (ENO)  
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P. Conroy, Manager, Licensing (ENO)  
T. C. McCullough, Assistant General Counsel, Entergy Nuclear Operations, Inc.  
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C. Donaldson, Esquire, Assistant Attorney General, New York Department of Law  
Mayor, Village of Buchanan  
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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  
B. Brandenburg, Assistant General Counsel  
Assemblywoman Sandra Galef, NYS Assembly  
County Clerk, Westchester County Legislature  
A. Spano, Westchester County Executive  
R. Bondi, Putnam County Executive  
C. Vanderhoef, Rockland County Executive  
E. A. Diana, Orange County Executive  
T. Judson, Central NY Citizens Awareness Network  
M. Elie, Citizens Awareness Network  
D. Lochbaum, Nuclear Safety Engineer, Union of Concerned Scientists  
Public Citizen's Critical Mass Energy Project  
M. Mariotte, Nuclear Information & Resources Service  
F. Zalzman, Pace Law School, Energy Project  
L. Puglisi, Supervisor, Town of Cortlandt  
Congresswoman Sue W. Kelly  
Congresswoman Nita Lowey  
Senator Hillary Rodham Clinton  
Senator Charles Schumer  
J. Riccio, Greenpeace  
A. Matthiessen, Executive Director, Riverkeeper, Inc.  
M. Kaplowitz, Chairman of County Environment & Health Committee  
A. Reynolds, Environmental Advocates

M. Jacobs, Director, Longview School  
D. Katz, Executive Director, Citizens Awareness Network  
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F. Dacimo

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OFFICE	DNMS/RI	N	DNMS/RI	DNMS/RI		
NAME	JKottan JJK		M Miller MTM1	Gpangburn GCP		
DATE	2/15/06		2/15/06	3/1/06		

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U.S. NUCLEAR REGULATORY COMMISSION  
REGION I

INSPECTION REPORT

Docket No.	05000003
License No.	DPR-5
Report No.	05000003/2006008
Licensee:	Indian Point Nuclear Generating Station Unit 1
Location:	Buchanan, New York 10511
Inspection Dates:	January 10, 11, and 30, 2006
Inspector:	James Kottan, Senior Health Physicist Decommissioning Branch
Approved By:	Marie Miller, Chief Decommissioning Branch Division of Nuclear Materials Safety

## **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 which 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 selective reviews of the facility organization and management; spent fuel storage pool safety; and safety reviews, design changes and modifications. Quality assurance audits, surveillance activities, and oversight observation check lists were reviewed by the inspector. Audits reviewed included audit numbers QA-02-2005-IP-1, IPEC Chemistry Program; QA-06-2005-IP-1, IPEC Effluent and Environmental Programs; QA-09 -2005-IP-1, IPEC Fire Protection Program Audit; QA-15-2005-IP-1, IPEC Radiological Waste Program. The inspector also reviewed Surveillance Report 02-S-10-OP, Unit 1 Technical Specification Compliance Review, and Oversight Observation Checklist 02C-IPEC-2005-187, Resin Sluice. Additionally, the inspector reviewed selected 2005 Condition Reports. The radiation protection and security programs were not inspected because these programs were part of the common site-wide programs, which have been inspected by NRC 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 containment structure, including the annulus area. The containment, which was maintained in a condition to allow safe storage and subsequent decommissioning, contained the components utilized during operation, such as the steam generators and reactor coolant pumps. The inspector observed that the radiation monitors and effluent sample collection systems were operable. Observed areas of the Unit 1 buildings and containment appeared to be adequately maintained and housekeeping was adequate.

The inspector reviewed selected water chemistry data for the Unit 1 spent fuel storage pool for 2005 and 2006 to date and determined 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 2005 as described in Procedure 0-NF-200, Rev. 0, *Special Nuclear Material Inventory*. A visual count of the spent fuel assemblies in the Unit 1 spent fuel storage pool was performed by the licensee, and no discrepancies between the number of spent fuel assemblies counted and listed in the records was identified.

Enclosure

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 were under the direction of the Unit 1 project organization: plans for removal of the spent fuel from the spent fuel storage pool and cleanup and removal of ion exchange resins from tanks and vessels associated with past operations at Unit 1. The inspector reviewed the licensee's actions with respect to the above projects. The licensee stated that current plans were to remove the spent fuel from the spent fuel storage pool to dry cask storage by the end of 2007. In the interim, however, the licensee planned to install an in-pool demineralizer to remove impurities from the spent fuel storage pool water by mid 2006 prior to transfer of the spent fuel. The tank and vessel project involved removing ion exchange resins related to Unit 1 operations. To date the licensee had removed approximately 368 cubic feet of ion exchange resin. The licensee expected to complete this project by the end of 2006. Additionally, the licensee planned to modify the north curtain drain treatment system for more effective removal of radioactivity from this effluent pathway.

As part of the above Unit 1 projects, the licensee had completed several modifications and evaluations of Unit 1 systems. The inspector reviewed Engineering Requests ER IP 2-05-13577 and ER IP 2-05-10659 for systems modifications and evaluations for the removal of the ion exchange resin from the Unit 1 vessels and tanks. The inspector also reviewed a 10 CFR 50.59 evaluation by the licensee for placement of on-site storage containers in the Unit 1 CSB. The inspector noted that the system modifications and safety reviews were thorough, were conducted in accordance with site procedures, 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 the selected condition reports indicated that the licensee had in place a program 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. An adequate safety review program to verify that Unit 1 project activities do not involve unreviewed safety questions or changes to the TS was maintained by the licensee. The licensee also maintained an effective 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.

**Exit Meeting Summary**

The inspector presented the inspection results to Mr. P. Rubin and other members of licensee management and staff at the conclusion of the inspection on January 11, 2006. The licensee acknowledged the findings presented by the inspector. During a subsequent site inspection on January 30, 2006, the inspector reviewed the 2005 fire protection check lists and confirmed that the licensee completed the check lists as required. The licensee did not identify any documents or processes reviewed by the inspectors as proprietary.

Enclosure



## **PARTIAL LIST OF PERSONS CONTACTED**

### Licensee

W. Ball, Unit 1 Projects  
P. Conway, Licensing Manager  
C. English, PM/Unit 1  
T. Jones, Licensing Supervisor  
D. Mayer, Special Projects Director  
B. Monehan, Safety Supervisor  
J. Perrotta, QA Manager  
P. Rubin, Plant Operations General Manager

## **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  
62801 Maintenance and Surveillance at Permanently Shutdown Reactors  
71801 Decommissioning Performance and Status Review at Permanently Shutdown Reactors  
84750 Radioactive Waste Treatment, and Effluent and Environmental Monitoring

## **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