April 16, 2003

Mr. John L. Skolds
President and Nuclear Officer
Exelon Nuclear
Exelon Generation Company, LLC
4300 Winfield Road
Warrenville, IL 60555

SUBJECT: NRC INSPECTION REPORT 05000010/2002-014(DNMS) - DRESDEN UNIT 1

Dear Mr. Skolds:

On March 19, 2003, the NRC completed an inspection at the Dresden Unit 1 Station. The purpose of the inspection was to determine whether decommissioning activities were conducted safely and in accordance with NRC requirements. At the conclusion of the inspection on March 19, the NRC inspectors discussed the findings with Mr. Michael Muth of your staff.

This inspection consisted of an examination of decommissioning activities at the Dresden Unit 1 Station as they relate to safety and compliance with the Commission's rules and regulations. Areas examined during the inspection are identified in the enclosed report. Within these areas, the inspection consisted of a selective examination of procedures and representative records, observations of activities in progress, and interviews with personnel.

Based on the results of this inspection, the NRC did not identify any violations.

In accordance with 10 CFR 2.790 of the NRC's "Rules of Practice," a copy of this letter and its enclosure will be available electronically for public inspection in the NRC Public Document Room or from the *Publicly Available Records (PARS) component of NRC's document system (ADAMS)*. *ADAMS is accessible from* the NRC Web site at http://www.nrc.gov/reading-rm/adams.html (the Public Electronic Reading Room).

We will gladly discuss any questions you may have regarding this inspection.

Sincerely,

/RA/

Christopher G. Miller, Chief
Decommissioning Branch

Docket No. 05000010
License No. DPR-2

Enclosure: Inspection Report 05000010/2002-014(DNMS)

See Attached Distribution

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Dresden Nuclear Power Station Plant Manager
Dresden Nuclear Power Station Decommissioning Plant Manager
Regulatory Assurance Manager - Dresden
Chief Operating Officer
Senior Vice President, Nuclear Services
Senior Vice President - Mid-West Regional Operating Group
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U.S. NUCLEAR REGULATORY COMMISSION

REGION III

Docket No.	05000010
License No.	DPR-2
Report No.	05000010/2002-014(DNMS)
Licensee:	Exelon Nuclear
Facility:	Dresden Station Unit 1
Location:	6500 N. Dresden Road Morris, IL 60450
Date:	March 19, 2003
Inspector:	Edward Kulzer, CIH, CSP Decommissioning Reactor Inspector
Approved by:	Christopher G. Miller, Chief Decommissioning Branch Division of Nuclear Materials Safety

EXECUTIVE SUMMARY[1]

Dresden Station Unit 1
NRC Inspection Report 05000010/2002-014(DNMS)

This routine decommissioning inspection covered aspects of facility organization and management, decommissioning support activities, and radiological safety. The licensee properly monitored and controlled decommissioning activities in all the areas inspected.

Facility Management and Control

- Unit 1 performance assessments were acceptable, and included useful recommendations that were accepted by management. (Section 1.2)

Radiological Safety

- Inspectors observed appropriate radiation worker practices and Radiation Work Permit plans and revisions being used during spent fuel pool cleanup activities. (Section 3.1)

- All hazardous waste shipping documentation was in compliance with NRC and Department of Transportation regulations. (Section 3.2)

[1]NOTE: A List of acronyms used in the report is included at the end of the Report Details.

Report Details

Summary of Plant Activities

The Dresden Unit 1 reactor remained in a completely defueled condition. Major activities during this inspection involved the clean up of the spent fuel pool tunnel and the required maintenance of the overhead crane.

1.0 Facility Management and Control

1.1 General

The inspector observed ongoing plant activities and held discussions with staff to assess overall facility management and controls. The inspector detailed specific activities and findings in the sections below.

1.2 Self-Assessment, Auditing, and Corrective Action at Permanently Shut Down Reactors (40801)

a. Inspection Scope

The inspector reviewed three assessments, "Dresden Unit 1 Performance Assessment," dated June 10, July 31, and December 15, 2002.

b. Observations and Findings

The previous Unit 1 Plant Manager conducted three independent assessments of Dresden Unit 1 activities. The assessor concluded that performance was acceptable; however, he identified some opportunities for improvement. The inspector reviewed the recommendations from the assessments. These included a recommendation for a lessons learned condition report for the spent fuel clean up project of Unit 1, and a recommendation to finalize decisions on month-to-month decommissioning costs of supporting Unit 1. The proposed recommendations were accepted by licensee management. The followup actions for the recommendations were not yet completed.

c. Conclusions

Unit 1 performance assessments were acceptable, and included useful recommendations that were accepted by management.

2.0 Decommissioning Support Activities

2.1 Maintenance and Surveillance at Permanently Shutdown Reactors (62801)

The inspector observed portions of the required Occupation Safety and Health Administration (OSHA) annual maintenance of the overhead crane. The annual maintenance consisted of visual checks of the wiring, brakes, bridge trolley, and hook assembly, in accordance with Dresden Procedure 5800-02, "Fuel Building Overhead Crane Annual Inspection." The inspector identified no concerns in this area.

3.0 Radiological Safety

3.1 Occupational Radiation Exposure (IP 83750)

a. Inspection Scope

The inspector evaluated the area of occupational radiation safety. Elements of the program examined included: external and internal dose controls; practices to maintain exposures as-low-as-reasonably-achievable (ALARA); radiation worker practices; contamination controls; dose equalization; survey posting; and activities associated with Radiation Work Permit (RWP) No. 10002048. Specific activities reviewed included spent fuel pool (SFP) tunnel cleanup.

b. Observations and Findings

The dose to workers involved in the SFP cleanup activities was 35-40 millirem per week for a three month period. Most of the time, there were three to four workers performing these activities. The licensee accomplished the tunnel work using a robot to clean out the 50 foot tunnel, which was under approximately 45 feet of water. The workers operating the robot used two cameras, one mounted on the back and one mounted on the front of the robot. Remaining SFP cleanup activities included a filter shipment and an irradiated material transfer to the Unit 3 spent fuel pool.

The inspector reviewed Dresden Station Unit 1 exposures for a three month period. The original exposure estimate for the removal and packaging of spent fuel racks, spent fuel baskets, spent fuel basket supports, gates, gun barrels, fuel prep machine, fuel assembly orifice fixture, and filtration units was 10.606 person-rem. The original person hour estimates for the jobs listed were 22,235 person-hours. Licensee personnel had accumulated 9.549 person-rem and expended 21,654 person-hours to date for the SFP cleanup activities. The job was originally scheduled to take three months to complete, from January 2003 through March 2003, but the duration was extended through May 2003.

Activities associated with filter shipments and an irradiated trash transfer to the Unit 3 SFP were not included in the original job scope, and were added. The accumulated dose was at 95 percent of the projected exposure, and the project was 75 percent complete. The ALARA plan was being revised to reflect the expanded job scope and duration.

c. Conclusions

Inspectors observed appropriate radiation worker practices and RWP plans and revisions being used during SFP cleanup activities.

3.2 Solid Radioactive Waste Management and Transportation (IP 86750)

The inspector reviewed a sample of the radioactive waste shipping documents, and interviewed the individual responsible for ensuring compliance with NRC and Department of Transportation (DOT) regulations. In 2002, the licensee sent two radioactive shipments to Barnwell and seventeen shipments to GTS Duratek in

Oak Ridge, Tennessee. All documentation was in compliance with NRC and DOT regulations. The licensee planned to ship two casks and a sea van containing radioactive waste later this year.

4.0 Exit Meeting Summary

The inspectors presented the inspection results during a meeting on March 19, 2003. The licensee did not identify any of the documents or processes reviewed by the inspectors as proprietary.

PARTIAL LIST OF PERSONS CONTACTED

Licensee

Mike Muth, Unit 1 Manager
* Joseph Reiss, Project Engineer

* Indicates presence at exit meeting.

INSPECTION PROCEDURES USED

IP 40801: Self-Assessment, Auditing, and Corrective Action at Permanently Shut Down Reactors

IP 62801: Maintenance and Surveillance at Permanently Shutdown Reactors

IP 83750: Occupational Radiation Exposure

IP 86750: Solid Radioactive Waste Management and Transportation of Radioactive Materials

LIST OF ACRONYMS USED

ALARA	As-Low-As-Reasonably-Achievable
CFR	Code of Federal Regulations
DATR	Dresden Administrative Technical Requirements
DOT	Department of Transportation
NRC	Nuclear Regulatory Commission
OSHA	Occupational Safety and Health Administration
RWP	Radiation Work Permit
SFP	Spent Fuel Pool

DOCUMENTS REVIEWED

Documents utilized during the inspection were specifically identified in the Report Details, above.