

August 6, 2002

Mr. John L. Skolds, President
Exelon Nuclear
Exelon Generation Company, LLC
Quad Cities Nuclear Power Station
4300 Winfield Road
Warrenville, IL 60555

SUBJECT: QUAD CITIES NUCLEAR POWER STATION
NRC INSPECTION REPORT 50-254/02-06(DRS); 50-265/02-06(DRS)

Dear Mr. Skolds:

On July 12, 2002, the NRC completed an inspection at your Quad Cities Nuclear Power Station. The enclosed report documents the inspection findings, which were discussed on July 12, 2002, with Mr. C. Swenson and other members of your staff.

The inspection examined activities conducted under your license as they relate to safety and compliance with the Commission's rules and regulations and with the conditions of your license. The inspectors reviewed selected procedures and records, observed activities, and interviewed personnel. Specifically, this inspection focused on emergency preparedness, including your staff's determinations of performance indicators for the Emergency Preparedness Cornerstone.

On the basis of the results of this inspection, no findings of significance were identified.

In accordance with 10 CFR Part 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).

Sincerely,

/RA/

Kenneth R. Riemer, Chief
Plant Support Branch
Division of Reactor Safety

Docket Nos. 50-254; 50-265
License Nos. DPR-29; DPR-30

Enclosure: Inspection Report 50-254/02-06(DRS); 50-265/02-06(DRS)

See Attached Distribution

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Quad Cities Nuclear Power Station Plant Manager
Regulatory Assurance Manager - Quad Cities
Chief Operating Officer
Senior Vice President - Nuclear Services
Senior Vice President - Mid-West Regional
Operating Group
Vice President - Mid-West Operations Support
Vice President - Licensing and Regulatory Affairs
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State Liaison Officer, State of Illinois
State Liaison Officer, State of Iowa
Chairman, Illinois Commerce Commission
W. Leach, Manager of Nuclear
MidAmerican Energy Company
W. Curtis, FEMA, Region V

cc w/encl: Site Vice President - Quad Cities Nuclear Power Station
Quad Cities Nuclear Power Station Plant Manager
Regulatory Assurance Manager - Quad Cities
Chief Operating Officer
Senior Vice President - Nuclear Services
Senior Vice President - Mid-West Regional
Operating Group
Vice President - Mid-West Operations Support
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U.S. NUCLEAR REGULATORY COMMISSION

REGION III

Docket Nos: 50-254; 50-265
License Nos: DPR-29; DPR-30

Report No: 50-254/02-06(DRS); 50-265/02-06(DRS)

Licensee: Exelon Generation Company, LLC

Facility: Quad Cities Nuclear Power Station

Location: 22710 206th Avenue North
Cordova, IL 61242

Dates: July 8 through July 12, 2002

Inspectors: T. Ploski, Senior Emergency Preparedness Inspector
R. Jickling, Emergency Preparedness Inspector
M. Kurth, Resident Inspector

Observer: R. Schmitt, Radiation Protection Inspector

Approved by: Kenneth R. Riemer, Chief
Plant Support Branch
Division of Reactor Safety

SUMMARY OF FINDINGS

IR 05000254-02-06(DRS); 05000265-02-06(DRS), on 07/08-07/12/2002, Exelon Nuclear, Quad Cities Nuclear Power Station. Emergency Preparedness Specialist Report.

The report covers a one week baseline inspection by two regional emergency preparedness inspectors and a resident inspector. The inspection focused on the Emergency Preparedness Cornerstone in the Reactor Safety strategic performance area during the biennial emergency preparedness exercise. This inspection also included a review of records related to the three emergency preparedness performance indicators for the 12 month period ending March 31, 2002. No findings of significance were identified.

The NRC's program for overseeing the safe operation of commercial nuclear power reactors is described in NUREG-1649, "Reactor Oversight Process," Revision 3, dated July 2000.

Report Details

1. REACTOR SAFETY

Cornerstone: Emergency Preparedness

1EP1 Exercise Evaluation (71114.01)

a. Inspection Scope

The inspectors reviewed the July 10, 2002 exercise's objectives and scenario to ensure that the exercise would acceptably test major elements of the licensee's emergency plan and to verify that the exercise's simulated problems provided an acceptable framework to support demonstration of the licensee's capability to implement its plan. The inspectors also reviewed records of drills, which were conducted in November and December 2001 and June 2002, to determine whether the associated accident scenarios were sufficiently different from the scenario used in the July 10, 2002 exercise.

The inspectors evaluated the licensee's exercise performance, focusing on the risk-significant activities of emergency classification, notification, and protective action decision making, as well as implementation of accident mitigation strategies in the following emergency response facilities:

- Control Room Simulator
- Technical Support Center (TSC)
- Operations Support Center (OSC)
- Emergency Operations Facility (EOF)

The inspectors also assessed the licensee's recognition of abnormal plant conditions, transfer of responsibilities between facilities, internal communications, interfaces with offsite officials, readiness of emergency facilities and related equipment, and overall implementation of the licensee's emergency plan.

The inspectors attended post-exercise critiques in the TSC, OSC, and EOF to evaluate the licensee's initial self-assessment of its exercise performance. The inspectors later met with the licensee's lead exercise evaluators to obtain the licensee's refined assessments of its exercise participants' performances. These self-assessments were then compared with the inspectors' independent observations and assessments.

b. Findings

No findings of significance were identified.

1EP4 Emergency Action Level and Emergency Plan Changes (71114.04)

a. Inspection Scope

The inspectors reviewed Revisions 11 and 12 of the Exelon Standardized Radiological Emergency Plan to determine whether changes identified in these revisions reduced the effectiveness of the licensee's emergency planning, pending onsite inspection of the implementation of these changes.

b. Findings

No findings of significance were identified.

4. **OTHER ACTIVITIES**

4OA1 Performance Indicator (PI) Verification (71151)

a. Inspection Scope

The inspectors reviewed the licensee's records related to each of the three emergency preparedness PIs to verify that the licensee's program was implemented consistent with the industry guidelines in Nuclear Energy Institute publication No. 99-02, Regulatory Assessment Performance Indicator Guideline, Revision 2, and related licensee procedures. Specifically, licensee records related to the performance of the Alert and Notification System (ANS), key Emergency Response Organization (ERO) members' drill participation, and Drill and Exercise Performance (DEP) were reviewed to verify the accuracy and completeness of the data submitted to NRC for the period from April 2001 through March 2002.

b. Findings

No findings of significance were identified.

4OA6 Meetings

Exit Meeting

The inspectors presented the inspection results to Mr. C. Swenson and other members of licensee management and staff at the conclusion of the inspection on July 12, 2002. The licensee acknowledged the information presented. No proprietary information was identified.

Other Meeting

On July 12, 2002, an inspector made a presentation on NRC's preliminary assessments of the exercise inspection at a public and media briefing in Davenport, Iowa, that was hosted by the staff of the Federal Emergency Management Agency's Region VII Office.

KEY POINTS OF CONTACT

Licensee

W. Beck, Regulatory Assurance Manager
P. Behrens, Nuclear Oversight Assessor
T. Bell, Deputy Engineering Director
S. McCain, Corporate Emergency Planning Manager
S. Merrell, Corporate Emergency Planner
M. Perito, Operations Manager
C. Swenson, Plant Manager
F. Tague, Emergency Planning Coordinator

LIST OF ITEMS OPENED, CLOSED, AND DISCUSSED

Opened

None

Closed

None

Discussed

None

LIST OF ACRONYMS USED

| | |
|-------|---------------------------------|
| ANS | Alert and Notification System |
| CFR | Code of Federal Regulations |
| CR | Condition Report |
| DEP | Drill and Exercise Performance |
| DRS | Division of Reactor Safety |
| EOF | Emergency Operations Facility |
| ERO | Emergency Response Organization |
| IR | Inspection Report |
| NRC | Nuclear Regulatory Commission |
| NUREG | Nuclear Regulatory Guide |
| OSC | Operations Support Center |
| PI | Performance Indicator |
| TSC | Technical Support Center |

LIST OF DOCUMENTS REVIEWED

1EP1 Exercise Evaluation

| | | |
|---------------|--|------------|
| | July 2002 Biennial Exercise Scenario Manual | |
| | June 2002 Drill Scenario Manual | |
| EP-AA-110 | Assessment of Emergencies | Revision 2 |
| EP-AA-111 | Emergency Classification and Protective Action Recommendations | Revision 3 |
| EP-AA-112 | ERO and Emergency Response Facility Activation and Operation | Revision 5 |
| EP-AA-112-100 | Control Room Activation and Operation | Revision 3 |
| EP-AA-112-200 | TSC Activation and Operation | Revision 2 |
| EP-AA-112-300 | OSC Activation and Operation | Revision 2 |
| EP-AA-112-400 | EOF Activation and Operation | Revision 2 |
| EP-AA-113 | Personnel Protective Actions | Revision 3 |
| EP-AA-114 | Notifications | Revision 2 |

1EP4 Emergency Action Level and Emergency Plan Changes

| | | |
|--|---|---------------------|
| | Exelon Standardized Radiological Emergency Plan | Revisions 11 and 12 |
| | Generating Stations Emergency Plan | |

4OA1 Performance Indicator Verification

| | | |
|---------------|---|---------------|
| BO-AA-11-1001 | Exelon Nuclear Performance Monitoring and Management Implementation Guide | Revision 0 |
| | August 2001 Unusual Event Report | January 2002 |
| | Mini-Drill Scenario Manual | November 2001 |
| | 2001 Off-year Drill Scenario Manual | December 2001 |
| | August 2001 Unusual Event Report | January 2002 |
| LS-AA-2120 | Monthly PI Data Elements for Drill and Exercise Performance | June 2001 |

Monthly Records of DEP Opportunities, April 2001 through March 2002

Monthly Records of Key ERO Members' Drill and Exercise Participation, April 2001 through March 2002

Monthly Records of ANS Test Results, April 2001 through March 2002

- Q2001-02439 Errors in Completing Two Notification Forms
- Q2001-02576 Nuclear Oversight Comments on Unusual Event Response
- Q2001-03078 Notification Form Error During a Drill
- CR00088737 Incorrect Protective Action Recommendation During December 2001 Drill
- CR00088870 Minor Error in ERO Participation Data for October 2001
- CR00089028 PI Assessment Concerns for Three Mini-Drills in November 2001
- CR00102133 Corrected Error in ANS Data Provided by Contractor
- CR00106480 Downward Trend in ERO Participation Data in Spring 2002