



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

March 3, 2010

Mr. Charles G. Pardee
Senior Vice President, Exelon Generation Company, LLC
President and Chief Nuclear Officer, Exelon Nuclear
4300 Winfield Rd.
Warrenville, IL 60555

SUBJECT: ANNUAL PERFORMANCE REVIEW AND INSPECTION PLAN –
OYSTER CREEK NUCLEAR GENERATING STATION
(05000219/2010001)

Dear Mr. Pardee:

On February 12, 2010, the NRC staff completed its performance review of Oyster Creek. Our technical staff reviewed performance indicators (PIs) for the most recent quarter and inspection results for the period from January 1 through December 31, 2009. The purpose of this letter is to inform you of our assessment of your safety performance during this period and our plans for future inspections at your facility.

This performance review and enclosed inspection plan do not include security information. A separate letter designated and marked as "Official Use Only - Security Information" will include the security cornerstone review and resultant inspection plan.

Overall, Oyster Creek operated in a manner that preserved public health and safety and fully met all cornerstone objectives. Plant performance for the most recent quarter was within the Regulatory Response column of the NRC's Action Matrix, based on the PI for "Unplanned Scrams per 7000 Critical Hours" being White (low to moderate safety significance). This plant performance was reviewed as part of the quarterly performance assessment of Oyster Creek and documented in an assessment follow-up letter (ML093020034)¹.

On January 4, 2010, we were notified by your staff of your readiness for the NRC to conduct a supplemental inspection to review the actions taken to address the PI for "Unplanned Scrams per 7000 Critical Hours." Therefore, in addition to the planned reactor oversight process (ROP) baseline inspections, we conducted a supplemental inspection using Inspection Procedure 95001, "Inspection for One or Two Inputs in a Strategic Performance Area," from February 16 through February 18, 2010. The supplemental inspection was conducted to provide assurance that the root and contributing causes for the finding are understood, the extent of condition and extent of cause are identified, and to provide assurance that the corrective actions are sufficient to prevent recurrence. The results of this inspection will be provided to you via separate correspondence.

¹ Designation in parenthesis refers to an ADAMS accession number. Documents referenced in this letter are publicly available using the accession number in ADAMS.

The enclosed inspection plan details the inspections, less those related to physical protection, scheduled through June 30, 2011. In addition to baseline inspections, we plan on conducting the Post-Approval Site Inspection for License Renewal (IP 71003) in November, 2010. The inspection plan is provided to allow for the resolution of any scheduling conflicts and personnel availability issues well in advance of inspector arrival onsite. Routine resident inspections are not listed due to their ongoing and continuous nature. The inspections in the last nine months of the inspection plan are tentative and may be revised at the mid-cycle review.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter and its enclosure will be made 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).

If circumstances arise which cause us to change this inspection plan, we will contact you to discuss the change as soon as possible. Please contact Dr. Ronald Bellamy at 610-337-5200 with any questions you may have regarding this letter.

Sincerely,

A handwritten signature in black ink, appearing to read "D. Lew", written over a horizontal line.

David C. Lew, Director
Division of Reactor Projects
Region I

Docket Nos.: 50-219
License Nos: DPR-16

cc w/encls: Distribution via ListServ
Oyster Creek Inspection/ Activity Plan

The enclosed inspection plan details the inspections, less those related to physical protection, scheduled through June 30, 2011. In addition to baseline inspections, we plan on conducting the Post-Approval Site Inspection for License Renewal (IP 71003) in November, 2010. The inspection plan is provided to allow for the resolution of any scheduling conflicts and personnel availability issues well in advance of inspector arrival onsite. Routine resident inspections are not listed due to their ongoing and continuous nature. The inspections in the last nine months of the inspection plan are tentative and may be revised at the mid-cycle review.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter and its enclosure will be made 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).

If circumstances arise which cause us to change this inspection plan, we will contact you to discuss the change as soon as possible. Please contact Dr. Ronald Bellamy at 610-337-5200 with any questions you may have regarding this letter.

Sincerely,
/RA/
David C. Lew, Director
Division of Reactor Projects
Region I

Distribution w/enc:

S. Collins, ORA
M. Dapas, ORA
D. Lew, DRP
J. Clifford, DRP
DRS Directors
DRS Branch Chiefs (6)
N. McNamara, SLO
D. Tiff, SLO
D. Screnci, PAO
N. Sheehan, PAO
John Thompson, NRR

R. Bellamy, DRP
G. Barber, DRP
C. Newport, DRP
J. Greives, DRP
L. Trocine, RI OEDO
J. Kulp, DRP, DRP, SRI
J. Ambrosini, DRP, RI
J. DeVries, DRP, Resident OA
RidsNrrPMOysterCreek Resource
RidsNrrDirspabResource@nrc.gov
ROPreportsResources@nrc.gov

SUNSI Review Complete: RRB (Reviewer's Initials)

ML100621256

DOCUMENT NAME: S:\ROP-10 EOC Review\Branch 6\OC\OC ROP10 EOC Letter.Doc

After declaring this document "An Official Agency Record" it **will** be released to the Public.

To receive a copy of this document, indicate in the box: "C" = Copy without attachment/enclosure "E" = Copy with attachment/enclosure "N" = No copy

| OFFICE | RI/DRP | RI/DRP | RI/DRP | RI/DRP |
|--------|----------------|--------------|--------------|-----------|
| NAME | JKulp/ RRB for | SBarber/ GSB | RBellamy/RRB | DLew/ DCL |
| DATE | 02/24 /10 | 02/20/10/ | 02/24 /10 | 03/02 /10 |

OFFICIAL RECORD COPY

Oyster Creek
 Inspection / Activity Plan
 01/01/2010 - 06/30/2011

| Unit Number | Planned Dates Start | Planned Dates End | Inspection Activity | Title | No. of Staff on Site |
|-------------|---------------------|-------------------|---|---|----------------------|
| | | | 5/17EXAM - OPERATOR LICENSING INITIAL EXAMS | | 5 |
| 1 | 04/19/2010 | 04/23/2010 | U01771 | FY10 - OYSTER CREEK INITIAL OPERATOR LICENSING EXAM | |
| 1 | 05/17/2010 | 05/28/2010 | U01771 | FY10 - OYSTER CREEK INITIAL OPERATOR LICENSING EXAM | |
| | | | 95001 - SUPP INSP - UNPLANNED SCRAM PI | | 2 |
| 1 | 02/16/2010 | 02/19/2010 | IP 95001 | Supplemental Inspection For One Or Two White Inputs In A Strategic Performance Area | |
| | | | 71124 - HP-RAD WASTE | | 1 |
| 1 | 04/12/2010 | 04/16/2010 | IP 71124.08 | Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation | |
| | | | ISFSI - OPERATION OF AN ISFSI | | 2 |
| 1 | 05/10/2010 | 05/14/2010 | IP 60855 | Operation Of An ISFSI | |
| | | | 71152B - PI&R | | 4 |
| 1 | 06/14/2010 | 06/18/2010 | IP 71152B | Identification and Resolution of Problems | |
| 1 | 06/28/2010 | 07/02/2010 | IP 71152B | Identification and Resolution of Problems | |
| | | | HP-71124 - INSTRUMENTS / RTS / ISFSI | | 1 |
| 1 | 07/12/2010 | 07/16/2010 | IP 60855 | Operation Of An ISFSI | |
| 1 | 07/12/2010 | 07/16/2010 | IP 71124.05 | Radiation Monitoring Instrumentation | |
| 1 | 07/12/2010 | 07/16/2010 | IP 71124.06 | Radioactive Gaseous and Liquid Effluent Treatment | |
| | | | 7111121 - COMPONENT DESIGN BASES INSPECTION | | 7 |
| 1 | 08/02/2010 | 08/06/2010 | IP 7111121 | Component Design Bases Inspection | |
| 1 | 08/16/2010 | 08/27/2010 | IP 7111121 | Component Design Bases Inspection | |
| | | | EP PROGR - EP PROGRAM INSPECTION | | 1 |
| 1 | 08/30/2010 | 09/03/2010 | IP 7111402 | Radiological Environmental Monitoring Program | |
| 1 | 08/30/2010 | 09/03/2010 | IP 7111403 | Emergency Response Organization Augmentation Testing | |
| 1 | 08/30/2010 | 09/03/2010 | IP 7111404 | Emergency Action Level and Emergency Plan Changes | |
| 1 | 08/30/2010 | 09/03/2010 | IP 7111405 | Correction of Emergency Preparedness Weaknesses and Deficiencies | |
| 1 | 08/30/2010 | 09/03/2010 | IP 71151-EP01 | Drill/Exercise Performance | |
| 1 | 08/30/2010 | 09/03/2010 | IP 71151-EP02 | ERO Drill Participation | |
| 1 | 08/30/2010 | 09/03/2010 | IP 71151-EP03 | Alert & Notification System | |
| | | | HP-71124 - ACCESS/ALARA/AIR/DOSE/INSTRUMENTS | | 1 |
| 1 | 10/04/2010 | 10/08/2010 | IP 71124.01 | Radiological Hazard Assessment and Exposure Controls | |
| 1 | 10/04/2010 | 10/08/2010 | IP 71124.02 | Occupational ALARA Planning and Controls | |
| 1 | 10/04/2010 | 10/08/2010 | IP 71124.03 | In-Plant Airborne Radioactivity Control and Mitigation | |
| 1 | 10/04/2010 | 10/08/2010 | IP 71124.04 | Occupational Dose Assessment | |
| 1 | 10/04/2010 | 10/08/2010 | IP 71124.05 | Radiation Monitoring Instrumentation | |
| | | | 7111108G - INSERVICE INSPECTION | | 1 |
| 1 | 11/08/2010 | 11/12/2010 | IP 7111108G | Inservice Inspection Activities - BWR | |

This report does not include INPO and OUTAGE activities.
 This report shows only on-site and announced inspection procedures.

Oyster Creek
 Inspection / Activity Plan
 01/01/2010 - 06/30/2011

| Unit Number | Planned Dates Start | Planned Dates End | Inspection Activity | Title | No. of Staff on Site |
|-------------|---------------------|-------------------|--|--|----------------------|
| | | | HP-71124 - ACCESS/ALARA/AIR/DOSE/INSTRUMENTS | | 1 |
| 1 | 11/08/2010 | 11/12/2010 | IP 71124.01 | Radiological Hazard Assessment and Exposure Controls | |
| 1 | 11/08/2010 | 11/12/2010 | IP 71124.02 | Occupational ALARA Planning and Controls | |
| 1 | 11/08/2010 | 11/12/2010 | IP 71124.03 | In-Plant Airborne Radioactivity Control and Mitigation | |
| 1 | 11/08/2010 | 11/12/2010 | IP 71124.04 | Occupational Dose Assessment | |
| 1 | 11/08/2010 | 11/12/2010 | IP 71124.05 | Radiation Monitoring Instrumentation | |
| | | | LR 71003 - POE COMMITMENT FOLLOW UP | | 2 |
| 1 | 11/01/2010 | 11/26/2010 | IP 71003 | Post-Approval Site Inspection for License Renewal | |
| | | | HP-71124 - ACCESS/ALARA/AIR/DOSE/INSTRUMENTS/PI | | 1 |
| 1 | 12/06/2010 | 12/10/2010 | IP 71124.01 | Radiological Hazard Assessment and Exposure Controls | |
| 1 | 12/06/2010 | 12/10/2010 | IP 71124.02 | Occupational ALARA Planning and Controls | |
| 1 | 12/06/2010 | 12/10/2010 | IP 71124.03 | In-Plant Airborne Radioactivity Control and Mitigation | |
| 1 | 12/06/2010 | 12/10/2010 | IP 71124.04 | Occupational Dose Assessment | |
| 1 | 12/06/2010 | 12/10/2010 | IP 71124.05 | Radiation Monitoring Instrumentation | |
| 1 | 12/06/2010 | 12/10/2010 | IP 71151-OR01 | Occupational Exposure Control Effectiveness | |
| 1 | 12/06/2010 | 12/10/2010 | IP 71151-PR01 | RETS/ODCM Radiological Effluent | |
| | | | TRI FIRE - TRIENNIAL FIRE PROTECTION INSPECTION | | 3 |
| 1 | 03/14/2011 | 03/18/2011 | IP 7111105T | Fire Protection [Triennial] | |
| 1 | 03/28/2011 | 04/01/2011 | IP 7111105T | Fire Protection [Triennial] | |
| | | | HP-71124 - ACCESS/ALARA/AIR/DOSE/INSTRUMENTS | | 1 |
| 1 | 03/14/2011 | 03/18/2011 | IP 71124.01 | Radiological Hazard Assessment and Exposure Controls | |
| 1 | 03/14/2011 | 03/18/2011 | IP 71124.02 | Occupational ALARA Planning and Controls | |
| 1 | 03/14/2011 | 03/18/2011 | IP 71124.03 | In-Plant Airborne Radioactivity Control and Mitigation | |
| 1 | 03/14/2011 | 03/18/2011 | IP 71124.04 | Occupational Dose Assessment | |
| 1 | 03/14/2011 | 03/18/2011 | IP 71124.05 | Radiation Monitoring Instrumentation | |
| | | | 711111B - OC REQUAL INSP W/ P/F RESULTS | | 3 |
| 1 | 05/23/2011 | 05/27/2011 | IP 7111111B | Licensed Operator Requalification Program | |

This report does not include INPO and OUTAGE activities.
 This report shows only on-site and announced inspection procedures.