



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

September 1, 2011

Mr. Michael J. Pacilio
Senior Vice President, Exelon Generation Company, LLC
President and Chief Nuclear Officer, Exelon Nuclear
4300 Winfield Rd.
Warrenville, IL 60555

SUBJECT: MID-CYCLE LETTER FOR LIMERICK GENERATING STATION
(05000352/2011006 and 05000353/2011006)

Dear Mr. Pacilio:

On August 9, 2011, the U.S. Nuclear Regulatory Commission (NRC) completed its mid-cycle performance review of the Limerick Generating Station Units 1 and 2. The NRC reviewed the most recent quarterly performance indicators (PIs) in addition to inspection results and enforcement actions from July 1, 2010, through June 30, 2011. This letter informs you of the NRC's assessment of your facility during this period and its plans for future inspections at your facility. This performance review and enclosed inspection plan do not include security information. A separate letter will include the NRC's assessment of your performance in the Security Cornerstone and its security-related inspection plan.

The NRC determined the performance at Limerick Units 1 and 2 during the most recent quarter was within the Licensee Response Column of the NRC's Reactor Oversight Process (ROP) Action Matrix because all inspection findings had very low (i.e., green) safety significance, and all PIs indicated that your performance was within the nominal, expected range (i.e., green). Therefore, the NRC plans to conduct ROP baseline inspections at your facility.

The enclosed inspection plan lists the inspections scheduled through December 31, 2012. Routine inspections performed by resident inspectors are not included in the inspection plan. The inspections listed during the last nine months of the inspection plan are tentative and may be revised at the end-of-cycle performance review. The NRC provides the inspection plan to allow for the resolution of any scheduling conflicts and personnel availability issues. In addition to the baseline inspection program, we plan to conduct Inspection Procedure (IP) 60855, "Operation of an ISFSI;" IP 71002, "Licensee Renewal Inspection;" and Temporary Instruction (TI) TI-177, "Managing Gas Accumulation in Emergency Core Cooling, Decay Heat Removal, and Containment Spray Systems (NRC Generic Letter 2008-01)." From July 1, 2010, to June 30, 2011, the NRC issued one severity level IV (SLIV) traditional enforcement non-cited violation associated with impeding the regulatory process (ML103570125).¹ Therefore, the NRC also plans to conduct IP 92702 to follow-up on this violation. The NRC will contact you as soon as possible to discuss changes to the inspection plan should circumstances warrant any changes.

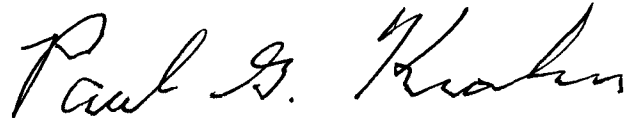
¹ Designation in parenthesis refers to an ADAMS accession number. Documents referenced in this letter are publicly available using the accession number in ADAMS.

In the days following the Fukushima Daiichi nuclear accident in Japan, the Commission directed the staff to establish a senior-level agency task force to conduct a methodical and systematic review of the NRC's processes and regulations to determine whether the agency should make additional improvements to its regulatory system. The NRC has since completed Temporary Instruction (TI) 183, "Follow-up to Fukushima Daiichi Nuclear Station Fuel Damage Event," and TI-184, "Availability and Readiness Inspection of Severe Accident Management Guidelines (SAMGs)," at your facility. Results of these inspections can be found here: <http://www.nrc.gov/japan/japan-activities.html>. Additionally, on May 11, 2011, the agency issued NRC Bulletin 2011-01, "Mitigating Strategies," to confirm compliance with Order EA-02-026, subsequently imposed license conditions, and 10 CFR 50.54(hh)(2), and to determine the status of licensee mitigating strategies programs. On July 12, 2011, the NRC's Task Force made its recommendations to the Commission in its report, "Recommendations for Enhancing Reactor Safety in the 21st Century: The Near-Term Task Force Review of Insights from the Fukushima Daiichi Accident." The NRC is currently reviewing the Task Force's recommendations to determine what additional actions may be warranted.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter 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).

Please contact me at (610) 337-5120 with any questions you have regarding this letter.

Sincerely,



Paul G. Krohn, Chief
Division of Reactor Projects
Projects Branch 4

Docket Nos. 50-352, 50-353
License Nos. NPF-39, NPF-85

Enclosure:
Inspection Plan

cc w/encl: Distribution via ListServ

In the days following the Fukushima Daiichi nuclear accident in Japan, the Commission directed the staff to establish a senior-level agency task force to conduct a methodical and systematic review of the NRC's processes and regulations to determine whether the agency should make additional improvements to its regulatory system. The NRC has since completed Temporary Instruction (TI) 183, "Follow-up to Fukushima Daiichi Nuclear Station Fuel Damage Event," and TI-184, "Availability and Readiness Inspection of Severe Accident Management Guidelines (SAMGs)," at your facility. Results of these inspections can be found here: <http://www.nrc.gov/japan/japan-activities.html>. Additionally, on May 11, 2011, the agency issued NRC Bulletin 2011-01, "Mitigating Strategies," to confirm compliance with Order EA-02-026, subsequently imposed license conditions, and 10 CFR 50.54(hh)(2), and to determine the status of licensee mitigating strategies programs. On July 12, 2011, the NRC's Task Force made its recommendations to the Commission in its report, "Recommendations for Enhancing Reactor Safety in the 21st Century: The Near-Term Task Force Review of Insights from the Fukushima Daiichi Accident." The NRC is currently reviewing the Task Force's recommendations to determine what additional actions may be warranted.

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Sincerely,
/RA/

Paul G. Krohn, Chief
Division of Reactor Projects
Projects Branch 4

Docket Nos. 50-352, 50-353
License Nos. NPF-39, NPF-85

Enclosure:
Inspection Plan

cc w/encl: Distribution via ListServ

Distribution: See attached page

SUNSI REVIEW COMPLETE: AAR (Reviewer's Initials) ML112411354

DOCUMENT NAME: S:\ROP-12 MID-CYCLE REVIEW\BRANCH 4\LIM\LIMERICK MID-CYCLE ASSESSMENT LETTER.DOCX

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| NAME | EDiPaolo/ AAR for* | AARosebrook/ AAR* | PGKrohn/ PGK | |
| DATE | 8/15/11 | 08/15/11 | 08/18/11 | |

*See Previous Concurrence OFFICIAL RECORD COPY

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Limerick
Inspection / Activity Plan
 07/01/2011 - 12/31/2012

| Unit Number | Planned Dates Start | Planned Dates End | Inspection Activity | Title | No. of Staff on Site |
|-------------|---------------------|-------------------|--|--|----------------------|
| | | | 60855.1 - ISFSI OPERATION INSPECTION | | 1 |
| 1,2 | 07/18/2011 | 07/23/2011 | IP 60855.1 | Operation of an Independent Spent Fuel Storage Installation at Operating Plants | |
| | | | TI-177 - MANAGING GAS ACCUMULATION IN ECCS | | 3 |
| 1,2 | 08/08/2011 | 08/12/2011 | IP 2515/177 | Managing Gas Accumulation In Emergency Core Cooling, Decay Heat Removal & Containment Spray System | |
| | | | 92702 - FOLLOW-UP FOR UFSAR SLIV NCV | | 1 |
| 1,2 | 09/12/2011 | 09/14/2011 | IP 92702 | Followup On Corrective Actions For Violations And Deviations | |
| | | | 7111107T - TRIENNIAL HEAT SINK | | 1 |
| 1,2 | 09/19/2011 | 09/23/2011 | IP 7111107T | Heat Sink Performance | |
| | | | 71124 - REMP | | 1 |
| 1,2 | 09/26/2011 | 09/30/2011 | IP 71124.07 | Radiological Environmental Monitoring Program | |
| | | | 7111117 - PERMANENT PLANT MODIFICATIONS | | 3 |
| 1,2 | 10/17/2011 | 10/21/2011 | IP 7111117T | Evaluations of Changes, Tests, or Experiments and Permanent Plant Modifications | |
| 1,2 | 10/31/2011 | 11/04/2011 | IP 7111117T | Evaluations of Changes, Tests, or Experiments and Permanent Plant Modifications | |
| | | | 71124 - EFFLUENTS | | 1 |
| 1,2 | 10/31/2011 | 11/04/2011 | IP 71124.06 | Radioactive Gaseous and Liquid Effluent Treatment | |
| | | | EP EX - EP EXERCISE EVALUATION | | 5 |
| 1,2 | 11/14/2011 | 11/18/2011 | IP 7111401 | Exercise Evaluation | |
| 1,2 | 11/14/2011 | 11/18/2011 | IP 7111404 | Emergency Action Level and Emergency Plan Changes | |
| 1,2 | 11/14/2011 | 11/18/2011 | IP 71151-EP01 | Drill/Exercise Performance | |
| 1,2 | 11/14/2011 | 11/18/2011 | IP 71151-EP02 | ERO Drill Participation | |
| 1,2 | 11/14/2011 | 11/18/2011 | IP 71151-EP03 | Alert & Notification System | |
| | | | 71124 - OCC RAD SAFETY - INSTRUMENTS | | 1 |
| 1,2 | 11/14/2011 | 11/18/2011 | IP 71124.05 | Radiation Monitoring Instrumentation | |
| | | | 71124 - OCC RAD SAFETY | | 1 |
| 1,2 | 01/09/2012 | 01/13/2012 | IP 71124.01 | Radiological Hazard Assessment and Exposure Controls | |
| 1,2 | 01/09/2012 | 01/13/2012 | IP 71124.02 | Occupational ALARA Planning and Controls | |
| 1,2 | 01/09/2012 | 01/13/2012 | IP 71124.04 | Occupational Dose Assessment | |
| | | | 7111108G - INSERVICE INSPECTION | | 1 |
| 1 | 02/27/2012 | 03/02/2012 | IP 7111108G | Inservice Inspection Activities - BWR | |
| | | | 71124 - ACCESS/ALARA/AIRBORNE RADIOACTIVITY | | 1 |
| 1,2 | 03/05/2012 | 03/09/2012 | IP 71124.01 | Radiological Hazard Assessment and Exposure Controls | |
| 1,2 | 03/05/2012 | 03/09/2012 | IP 71124.02 | Occupational ALARA Planning and Controls | |
| 1,2 | 03/05/2012 | 03/09/2012 | IP 71124.03 | In-Plant Airborne Radioactivity Control and Mitigation | |

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

Limerick
Inspection / Activity Plan
07/01/2011 - 12/31/2012

| Unit Number | Planned Dates Start | Planned Dates End | Inspection Activity | Title | No. of Staff on Site |
|--|---------------------|-------------------|---------------------|---|----------------------|
| 71002 - LR INSPECTION | | | | | 4 |
| 1,2 | 06/04/2012 | 06/08/2012 | IP 71002 | License Renewal Inspection | |
| 1,2 | 06/18/2012 | 06/22/2012 | IP 71002 | License Renewal Inspection | |
| 10/08EXM - LIMERICK INITIAL EXAM | | | | | 4 |
| 1 | 09/10/2012 | 09/14/2012 | U01858 | FY13-LIMERICK INITIAL OPERATOR LICENSING EXAM | |
| 1 | 10/08/2012 | 10/19/2012 | U01858 | FY13-LIMERICK INITIAL OPERATOR LICENSING EXAM | |
| 71124 - RW | | | | | 1 |
| 1,2 | 06/11/2012 | 06/15/2012 | IP 71124.08 | Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation | |
| 7111121 - CDBI | | | | | 6 |
| 1,2 | 08/27/2012 | 08/31/2012 | IP 7111121 | Component Design Bases Inspection | |
| 1,2 | 09/10/2012 | 09/14/2012 | IP 7111121 | Component Design Bases Inspection | |
| 1,2 | 09/24/2012 | 09/28/2012 | IP 7111121 | Component Design Bases Inspection | |
| 7111111B - LIMERICK ON-SITE RQL INSP W/ P/F RESULTS | | | | | 2 |
| 1,2 | 10/29/2012 | 11/02/2012 | IP 7111111B | Licensed Operator Requalification Program | |
| 71152B - PI&R | | | | | 4 |
| 1,2 | 10/22/2012 | 10/26/2012 | IP 71152B | Problem Identification and Resolution | |
| 1,2 | 11/05/2012 | 11/09/2012 | IP 71152B | Problem Identification and Resolution | |
| EP PROGR - EP PROGRAM INSPECTION | | | | | 1 |
| 1,2 | 12/03/2012 | 12/07/2012 | IP 7111402 | Alert and Notification System Testing | |
| 1,2 | 12/03/2012 | 12/07/2012 | IP 7111403 | Emergency Preparedness Organization Staffing and Augmentation System | |
| 1,2 | 12/03/2012 | 12/07/2012 | IP 7111404 | Emergency Action Level and Emergency Plan Changes | |
| 1,2 | 12/03/2012 | 12/07/2012 | IP 7111405 | Correction of Emergency Preparedness Weaknesses and Deficiencies | |
| 71124 - OCC RAD SAFETY | | | | | 1 |
| 1,2 | 12/10/2012 | 12/14/2012 | IP 71124.01 | Radiological Hazard Assessment and Exposure Controls | |

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