



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

August 31, 2006

Mr. Christopher M. Crane
President and CNO
Exelon Nuclear
Exelon Generation Company, LLC
200 Exelon Way
Kennett Square, PA 19348

SUBJECT: MID-CYCLE PERFORMANCE REVIEW AND INSPECTION PLAN -
LIMERICK GENERATING STATION

Dear Mr. Crane:

On August 7, 2006, the NRC staff completed its performance review of Limerick Generating Station for the first half of the calendar year 2006 assessment cycle. Our technical staff reviewed performance indicators (PIs) for the most recent quarter and inspection results over the previous twelve months. 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 physical protection information. A separate letter designated and marked as "Exempt from Public Disclosure in accordance with 10 CFR 2.390" will include the physical protection review and resultant inspection plan.

Plant performance for the most recent quarter at Limerick Units 1 and 2 was within the Licensee Response column of the NRC's Action Matrix, based on all inspection findings being classified as having very low safety significance (Green) and all PIs indicating performance at a level requiring no additional NRC oversight (Green). Therefore, we plan to conduct reactor oversight process (ROP) baseline inspections at your facility. We also plan to conduct independent spent fuel storage installation (ISFSI) inspections.

The enclosed inspection plan details the inspections, less those related to physical protection, scheduled through March 31, 2008. 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 end-of-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 me at 610-337-5186 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

/RA/

James M. Trapp, Chief
Reactor Projects Branch 4
Division of Reactor Projects

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

Enclosure: Limerick Inspection/ Activity Plan

cc w/encl:

Chief Operating Officer, Exelon Generation Company, LLC
Site Vice President - Limerick Generating Station
Plant Manager, Limerick Generating Station
Regulatory Assurance Manager - Limerick
Senior Vice President - Nuclear Services
Vice President - Mid-Atlantic Operations
Vice President - Operations Support
Vice President - Licensing and Regulatory Affairs
Director - Licensing and Regulatory Affairs, Exelon Generation Company, LLC
Manager, Licensing - Limerick Generating Station
Vice President, General Counsel and Secretary
Associate General Counsel, Exelon Generation Company
Correspondence Control Desk
Director, Bureau of Radiation Protection, PA Department of Environmental Protection
J. Johnsrud, National Energy Committee, Sierra Club
Chairman, Board of Supervisors of Limerick Township
J. Bradley Fewell, Assistant General Counsel, Exelon Nuclear

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 me at 610-337-5186 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

James M. Trapp, Chief
Reactor Projects Branch 4
Division of Reactor Projects

Docket Nos. 50-352, 50-353
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Enclosure: Limerick Inspection/ Activity Plan

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| OFFICE | RI/DRP | RI/DRP | RI/DRP | E |
|--------|---------------------|----------|----------|---|
| NAME | SHansell/CBK FOR | CKhan | JTrapp | |
| DATE | 08/31/06 | 08/31/06 | 08/31/06 | |

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Limerick
Inspection / Activity Plan
07/01/2006 - 03/31/2008

| Unit Number | Inspection Activity | Title | No. of Staff on Site | Planned Dates | | Inspection Type |
|-------------|--|---|----------------------|---------------|------------|----------------------|
| | | | | Start | End | |
| | 71151 - EP PI VERIFICATION | | 1 | | | |
| 1,2 | IP 71151 | Performance Indicator Verification | | 08/07/2006 | 08/11/2006 | Baseline Inspections |
| | 7111107B - HEAT SINK | | 2 | | | |
| 1,2 | IP 7111107B | Heat Sink Performance | | 08/14/2006 | 08/18/2006 | Baseline Inspections |
| | 7111112B - MAINTENANCE RULE | | 1 | | | |
| 1,2 | IP 7111112B | Maintenance Effectiveness | | 09/18/2006 | 09/22/2006 | Baseline Inspections |
| | 10/23EXM - OPERATOR LICENSE INITIAL EXAMS | | 4 | | | |
| 1 | U01664 | FY07-LIMERICK INITIAL OPERATOR EXAM | | 09/25/2006 | 09/29/2006 | Not Applicable |
| 1 | U01664 | FY07-LIMERICK INITIAL OPERATOR EXAM | | 10/23/2006 | 11/03/2006 | Not Applicable |
| | MODS - MODS AND 50.59 | | 3 | | | |
| 1,2 | IP 7111102 | Evaluation of Changes, Tests, or Experiments | | 10/23/2006 | 10/27/2006 | Baseline Inspections |
| 1,2 | IP 7111117B | Permanent Plant Modifications | | 10/23/2006 | 10/27/2006 | Baseline Inspections |
| | TI-169 - TI: MSPI VERIFICATION | | 1 | | | |
| 1,2 | IP 2515/169 | Mitigating Systems Performance Index Verification | | 11/06/2006 | 11/10/2006 | Safety Issues |
| | 7112103 - OCC RAD SAFETY - INSTRUMENTS | | 1 | | | |
| 1,2 | IP 7112103 | Radiation Monitoring Instrumentation and Protective Equipment | | 11/27/2006 | 12/01/2006 | Baseline Inspections |
| | 7112101 - OCC RAD SAFETY | | 1 | | | |
| 1,2 | IP 7112101 | Access Control to Radiologically Significant Areas | | 01/08/2007 | 01/12/2007 | Baseline Inspections |
| | 7111108G - U2 IN-SERVICE INSPECTION | | 1 | | | |
| 2 | IP 7111108G | Inservice Inspection Activities - BWR | | 03/12/2007 | 03/16/2007 | Baseline Inspections |
| | 7112102 - OCC RAD SAFETY | | 1 | | | |
| 1,2 | IP 7112102 | ALARA Planning and Controls | | 03/19/2007 | 03/23/2007 | Baseline Inspections |
| | 6/2 EXAM - INITIAL LSRO OPERATOR EXAM | | 2 | | | |
| 1 | U01659 | FY07 - LIMERICK (UNIT 1&2) INITIAL LSRO EXAM | | 05/05/2007 | 05/09/2007 | Not Applicable |
| 1 | U01659 | FY07 - LIMERICK (UNIT 1&2) INITIAL LSRO EXAM | | 06/02/2007 | 06/06/2007 | Not Applicable |
| | ISFSI - ISFSI CONSTRUCTION INSPECTION | | 1 | | | |
| 1,2 | IP 60855.1 | Operation of an Independent Spent Fuel Storage Installation at Operating Plants | | 04/01/2007 | 09/30/2007 | Other Routine |
| | 71114 - EP PRGM INSP | | 1 | | | |
| 1,2 | IP 7111402 | Alert and Notification System Testing | | 06/10/2007 | 06/14/2007 | Baseline Inspections |
| 1,2 | IP 7111403 | Emergency Response Organization Augmentation Testing | | 06/10/2007 | 06/14/2007 | Baseline Inspections |
| 1,2 | IP 7111404 | Emergency Action Level and Emergency Plan Changes | | 06/10/2007 | 06/14/2007 | Baseline Inspections |
| 1,2 | IP 7111405 | Correction of Emergency Preparedness Weaknesses and Deficiencies | | 06/10/2007 | 06/14/2007 | Baseline Inspections |
| 1,2 | IP 71151-EP01 | Drill/Exercise Performance | | 06/10/2007 | 06/14/2007 | Baseline Inspections |
| 1,2 | IP 71151-EP02 | ERO Drill Participation | | 06/10/2007 | 06/14/2007 | Baseline Inspections |
| 1,2 | IP 71151-EP03 | Alert & Notification System | | 06/10/2007 | 06/14/2007 | Baseline Inspections |

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

Limerick
Inspection / Activity Plan
07/01/2006 - 03/31/2008

| Unit Number | Inspection Activity | Title | No. of Staff on Site | Planned Dates | | Inspection Type |
|----------------|---|--|-------------------------|---------------|------------|----------------------|
| | | | | Start | End | |
| | TRI FIRE - TRIENNIAL FIRE PROTECTION INSPECTION | | 3 | | | |
| 1,2 | IP 7111105T | Fire Protection [Triennial] | | 07/16/2007 | 07/20/2007 | Baseline Inspections |
| 1,2 | IP 7111105T | Fire Protection [Triennial] | | 07/30/2007 | 08/03/2007 | Baseline Inspections |
| | 7111111B - L.O.(PWR.) REQUAL. PROG. + P/F REVIEW | | 3 | | | |
| 1,2 | IP 7111111B | Licensed Operator Requalification Program | | 09/24/2007 | 09/28/2007 | Baseline Inspections |
| 1,2 | IP 7111111B | Licensed Operator Requalification Program | | 10/01/2007 | 10/05/2007 | Baseline Inspections |
| | 7111401 - EP EXERCISE & PI VERIFICATION | | 4 | | | |
| 1,2 | IP 7111401 | Exercise Evaluation | | 08/06/2007 | 08/10/2007 | Baseline Inspections |
| 1,2 | IP 71151-EP01 | Drill/Exercise Performance | | 08/06/2007 | 08/10/2007 | Baseline Inspections |
| 1,2 | IP 71151-EP02 | ERO Drill Participation | | 08/06/2007 | 08/10/2007 | Baseline Inspections |
| 1,2 | IP 71151-EP03 | Alert & Notification System | | 08/06/2007 | 08/10/2007 | Baseline Inspections |
| | 7111111B - LSRO REQUAL AN OPTEST @PB + P/F REVIEW | | 2 | | | |
| 1,2 | IP 7111111B | Licensed Operator Requalification Program | | 11/01/2007 | 11/01/2007 | Baseline Inspections |
| | 7111121 - CDBI (COMPONENT DESIGN BASES INSPECTION) | | 6 | | | |
| 1,2 | IP 7111121 | Component Design Bases Inspection | | 10/01/2007 | 10/05/2007 | Baseline Inspections |
| 1,2 | IP 7111121 | Component Design Bases Inspection | | 10/15/2007 | 10/19/2007 | Baseline Inspections |
| 1,2 | IP 7111121 | Component Design Bases Inspection | | 10/29/2007 | 11/02/2007 | Baseline Inspections |
| 1,2 | IP 7111121 | Component Design Bases Inspection | | 11/05/2007 | 11/09/2007 | Baseline Inspections |
| | 7112203 - PUB RAD SAFETY - REMP | | 1 | | | |
| 1,2 | IP 7112203 | Radiological Environmental Monitoring Program (REMP) And Radioactive Material Control Pr | | 11/12/2007 | 11/16/2007 | Baseline Inspections |
| | 7112201 - PUB RAD SAFETY - RETS | | 1 | | | |
| 1,2 | IP 7112201 | Radioactive Gaseous and Liquid Effluent Treatment and Monitoring Systems | | 11/26/2007 | 11/30/2007 | Baseline Inspections |
| | 7112101 - OCC RAD SAFETY - ACCESS | | 1 | | | |
| 1,2 | IP 7112101 | Access Control to Radiologically Significant Areas | | 01/07/2008 | 01/11/2008 | Baseline Inspections |
| | 7112102 - OCC RAD SAFETY - ALARA | | 1 | | | |
| 1,2 | IP 7112102 | ALARA Planning and Controls | | 03/10/2008 | 03/14/2008 | Baseline Inspections |