



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 -  
THREE MILE ISLAND NUCLEAR GENERATING STATION UNIT 1  
(05000289/2010001)

Dear Mr. Pardee,

On February 12, 2010, the NRC staff completed its performance review of the Three Mile Island Nuclear Generating Station (Three Mile Island) Unit 1. 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, Three Mile Island Unit 1 operated in a manner that preserved public health and safety and fully met all cornerstone objectives. Plant performance for the most recent quarter, as well as for the first three quarters of the assessment cycle, 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.

The enclosed inspection plan details the inspections, less those related to physical protection, scheduled through June 30, 2011. 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.

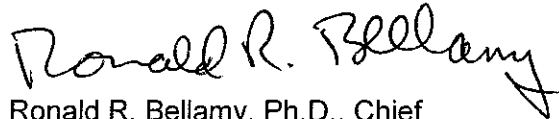
C. Pardee

2

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 610-337-5200 with any questions you may have regarding this letter or the inspection plan.

Sincerely,



Ronald R. Bellamy, Ph.D., Chief  
Projects Branch 6  
Division of Reactor Projects

Docket Nos.: 50-289  
License Nos: DPR-50

cc w/encs: Distribution via ListServ  
Three Mile Island Inspection/ Activity Plan

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 610-337-5200 with any questions you may have regarding this letter or the inspection plan.

Sincerely,  
**/RA/**  
 Ronald R. Bellamy, Ph.D., Chief  
 Projects Branch 6  
 Division of Reactor Projects

Distribution w/encl:

S. Collins, RA  
 M. Dapas, DRA  
 D. Lew, DRP  
 J. Clifford, DRP  
 DRS Directors  
 DRS Branch Chiefs (6)  
 R. Bellamy, DRP  
 G. Barber, DRP  
 C. Newport, DRP  
 J. Greives, DRP  
 L. Trocine, RI OEDO

N. McNamara, RI  
 D. Tift, RI  
 D. Screnci, RI  
 N. Sheehan, RI  
 John Thompson, NRR  
 D. Kern, DRP, SRI  
 J. Brand, DRP, RI  
 C. LaRegina, DRP, Resident OA  
 RidsNrrPMTthreeMileIsland Resource  
[RidsNrrDirslpab@nrc.gov](mailto:RidsNrrDirslpab@nrc.gov)  
[ROPReportsResource@nrc.gov](mailto:ROPReportsResource@nrc.gov)

**SUNSI REVIEW COMPLETE: ALB (Reviewer's Initials)**

**ML100621304**

DOCUMENT NAME: S:\ROP-10 EOC Review\Branch 6\TMI\TMI 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
NAME	DKern/ DK	SBarber/ SB	RBellamy/ RRB
DATE	02/24 /10	02/ 25 /10	02/25 /10

OFFICIAL RECORD COPY

Three Mile Island  
Inspection / Activity Plan

01/01/2010 - 06/30/2011

Unit Number	Planned Dates Start End	Inspection Activity	Title	No. of Staff on Site
1	01/04/2010 02/12/2010	50001 IP 50001	- SG REPLACEMENT INSP CONTINUED Steam Generator Replacement Inspection	2
1	01/11/2010 01/13/2010	IP 50001	Steam Generator Replacement Inspection	
1	03/15/2010 03/19/2010	71124 IP 71124.01	- ACCESS/ALARA/DOSE/INSTRUMENTS Radiological Hazard Assessment and Exposure Controls	1
1	03/15/2010 03/19/2010	IP 71124.02	Occupational ALARA Planning and Controls	
1	03/15/2010 03/19/2010	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1	03/15/2010 03/19/2010	IP 71124.04	Occupational Dose Assessment	
1	03/15/2010 03/19/2010	IP 71124.05	Radiation Monitoring Instrumentation	
1	03/22/2010 03/26/2010	TI-177 IP 2515/177	- MANAGING GAS ACCUMULATION IN ECCS Managing Gas Accumulation In Emergency Core Cooling, Decay Heat Removal & Containment Spray System	3
1	03/29/2010 04/02/2010	EP PROGR IP 7111402	- EP PROGRAM INSPECTION Radiological Environmental Monitoring Program	1
1	03/29/2010 04/02/2010	IP 7111403	Emergency Response Organization Augmentation Testing	
1	03/29/2010 04/02/2010	IP 7111404	Emergency Action Level and Emergency Plan Changes	
1	03/29/2010 04/02/2010	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
1	03/29/2010 04/02/2010	IP 71151-EP01	Drill/Exercise Performance	
1	03/29/2010 04/02/2010	IP 71151-EP02	ERO Drill Participation	
1	03/29/2010 04/02/2010	IP 71151-EP03	Alert & Notification System	
1	04/12/2010 04/16/2010	MODS IP 7111117T	- PERMANENT PLANT MODIFICATIONS Evaluations of Changes, Tests, or Experiments and Permanent Plant Modifications	4
1	04/26/2010 04/30/2010	IP 7111117T	Evaluations of Changes, Tests, or Experiments and Permanent Plant Modifications	
1	05/10/2010 05/14/2010	71124 IP 71124.05	- INSTRUMENTS/EFFLUENTS Radiation Monitoring Instrumentation	1
1	05/10/2010 05/14/2010	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
1	05/10/2010 05/14/2010	TI-173 IP 2515/173	- GROUND WATER TI Review of the Implementation of the Industry Ground Water Protection Voluntary Initiative	1
1	07/12/2010 07/16/2010	71152B IP 71152B	- PI&R Identification and Resolution of Problems	4
1	07/26/2010 07/30/2010	IP 71152B	Identification and Resolution of Problems	
1	08/23/2010 08/27/2010	7111107T IP 7111107T	- TRIENNIAL HEAT SINK Heat Sink Performance	1
1	11/15/2010 11/19/2010	HP-71124 IP 71124.01	- ACCESS/ALARA/AIR/DOSE/INSTRUMENTS/PI Radiological Hazard Assessment and Exposure Controls	1
1	11/15/2010 11/19/2010	IP 71124.02	Occupational ALARA Planning and Controls	

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

Three Mile Island  
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
1	11/15/2010	11/19/2010	IP 71124.03	<b>HP-71124 - ACCESS/LARA/AIR/DOSE/INSTRUMENTS/PI</b> In-Plant Airborne Radioactivity Control and Mitigation	1
1	11/15/2010	11/19/2010	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1	11/15/2010	11/19/2010	IP 71124.04	Occupational Dose Assessment	
1	11/15/2010	11/19/2010	IP 71124.05	Radiation Monitoring Instrumentation	
1	11/15/2010	11/19/2010	IP 71151-OR01	Occupational Exposure Control Effectiveness	
1	11/15/2010	11/19/2010	IP 71151-PR01	RETS/ODCM Radiological Effluent	
1	03/14/2011	03/18/2011	IP 711111B	<b>711111B - TMI REQUAL INSP W/ P/F RESULTS</b> Licensed Operator Requalification Program	3
1	01/24/2011	01/28/2011	IP 7111105T	<b>TRI FIRE - TRIENNIAL FIRE PROTECTION INSPECTION</b> Fire Protection [Triennial]	3
1	02/07/2011	02/11/2011	IP 7111105T	Fire Protection [Triennial]	
1	04/11/2011	04/15/2011	IP 7111401	<b>EP EX - EP EXERCISE EVALUATION</b> Exercise Evaluation	4
1	04/11/2011	04/15/2011	IP 7111404	Emergency Action Level and Emergency Plan Changes	
1	04/11/2011	04/15/2011	IP 71151-EP01	Drill/Exercise Performance	
1	04/11/2011	04/15/2011	IP 71151-EP02	ERO Drill Participation	
1	04/11/2011	04/15/2011	IP 71151-EP03	Alert & Notification System	
1	05/09/2011	05/13/2011	IP 71124.08	<b>HP-71124 - RAD WASTE</b> Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	1
1	05/23/2011	05/27/2011	IP 71124.05	<b>HP-71124 - INSTRUMENTS/REMP</b> Radiation Monitoring Instrumentation	1
1	05/23/2011	05/27/2011	IP 71124.07	Public Radiation Safety	

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