

March 4, 2004

Mr. Christopher M. Crane
President and Chief Nuclear Officer
Exelon Nuclear
Exelon Generation Company, LLC
4300 Winfield Road
Warrenville, IL 60555

SUBJECT: ANNUAL ASSESSMENT LETTER - BYRON STATION, UNITS 1 AND 2
(REPORT 50-454/04-01; 50-455/04-01)

Dear Mr. Crane:

On February 11, 2004, the NRC staff completed its end-of-cycle plant performance assessment of the Byron Station, Units 1 and 2. The end-of-cycle review for the Byron Station, Units 1 and 2, involved the participation of all technical divisions in evaluating performance indicators (PIs) for the most recent quarter and inspection results for the period from January 1 through December 31, 2003. 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 so that you will have an opportunity to prepare for these inspections and to inform us of any planned inspections that may conflict with your plant activities.

Overall, Byron Station, Units 1 and 2, 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 only reactor oversight process (ROP) baseline inspections at your facility through September 30, 2005.

The enclosed inspection plan details the inspections scheduled through September 30, 2005. The following infrequently performed inspections are planned: Triennial Fire Protection inspection and Biennial Safety System Design inspection. The inspection plan is provided to minimize the resource impact on your staff and to allow for scheduling conflicts and personnel availability to be resolved in advance of inspector arrival onsite. Routine resident inspections are not listed due to their ongoing and continuous nature. The inspections in the last 12 months of the inspection plan are tentative and may be revised at the mid-cycle review meeting.

As you are aware, the NRC has issued several Orders and threat advisories to enhance security capabilities and improve guard force readiness since the terrorist attacks on September 11, 2001. We have conducted inspections to review your implementation of these requirements and have monitored your actions in response to changing threat conditions. For calendar year 2004, we plan to continue inspections of Order implementation combined with newly developed portions of the security baseline inspection program.

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 (630) 829-9729 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

/RA/

Ann Marie Stone, Chief
Branch 3
Division of Reactor Projects

Docket Nos. 50-454; 50-455
License Nos. NPF-37; NPF-66

Enclosure: Byron Station, Units 1 and 2 Inspection/Activity Plan

See Attached Distribution

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).

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Ann Marie Stone, Chief
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Division of Reactor Projects

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NAME	TTongue:co		AStone						
DATE	03/ /04		03/ /04						

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cc w/encl: Site Vice President - Byron
Byron Station Plant Manager
Regulatory Assurance Manager - Byron
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
Director Licensing - Mid-West Regional Operating Group
Manager Licensing - Braidwood and Byron
Senior Counsel, Nuclear, Mid-West Regional
Operating Group
Document Control Desk - Licensing
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Illinois Department of Nuclear Safety
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State Liaison Officer, State of Wisconsin
Chairman, Illinois Commerce Commission
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S. Hawley, Village Clerk
J. Leather, President, Stillman Valley
B. Gocken, County Board Chairman
M. Messer, Ogle County Sheriff
R. McDermott, Emergency Management Director
K. Cohn, County Board Chairman
R. Meyers, Winnebago County Sheriff
The Honorable Tom Stone, Sr.
The Honorable Kathryn Hamas
The Honorable Steven Mongan
The Honorable Chet Olson
INPO

ADAMS Distribution:

AJM

DFT

DWW

Project Director, NRR

Project Mgr., NRR

RidsNrrDipmlipb

JLC1

GEG

HBC

RML2

SRI Byron

DRPIII

DRSIII

PLB1

JRK1

Byron
Inspection / Activity Plan
03/01/2004 - 09/30/2005

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates Start	End	Inspection Type
	7111108 - INSERVICE INSPECTION & TI-152 UNIT 2		3			
2	IP 7111108P	Inservice Inspection Activities - PWR		03/22/2004	03/26/2004	Baseline Inspections
2	IP 2515/152	Reactor Pressure Vessel Lower Head Penetration Nozzles (NRC Bulletin 2003-02)		03/29/2004	04/02/2004	Safety Issues
	IP 71121 - RP OUTAGE ALARA & ACCESS CNTRL INSP		1			
1, 2	IP 7112101	Access Control to Radiologically Significant Areas		03/29/2004	04/02/2004	Baseline Inspections
1, 2	IP 7112102	ALARA Planning and Controls		03/29/2004	04/02/2004	Baseline Inspections
	MR - MAINTENANCE RULE		2			
1, 2	IP 7111112B	Maintenance Effectiveness		04/26/2004	04/30/2004	Baseline Inspections
	FPI - TRIENNIAL FIRE PROTECTION		3			
1, 2	IP 7111105T	Fire Protection		06/21/2004	07/09/2004	Baseline Inspections
	SG BASE - SG BASELINE 2004		2			
1, 2	IP 7113001	Access Authorization		06/14/2004	06/18/2004	Baseline Inspections
1, 2	IP 7113002	Access Control		06/14/2004	06/18/2004	Baseline Inspections
1, 2	IP 7113008	Fitness For Duty Program		06/14/2004	06/18/2004	Baseline Inspections
1, 2	IP 71151	Performance Indicator Verification		06/14/2004	06/18/2004	Baseline Inspections
	7112201 - RADIOACTIVE LIQUID & GAS EFFLUENTS		1			
1, 2	IP 7112201	Radioactive Gaseous and Liquid Effluent Treatment and Monitoring Systems		06/21/2004	06/25/2004	Baseline Inspections
1, 2	IP 71151	Performance Indicator Verification		06/21/2004	06/25/2004	Baseline Inspections
	71111.11 - LIC OPERATOR REQUAL PROGRAM EVALUATION		2			
1, 2	IP 7111111B	Licensed Operator Requalification Program		08/16/2004	08/20/2004	Baseline Inspections
	IP 71122 - RAM PROCESSING & TRANSPORTATION		1			
1, 2	IP 7112202	Radioactive Material Processing and Transportation		09/13/2004	09/17/2004	Baseline Inspections
	INSP - EMER. PREP. INSPECTION		1			
1, 2	IP 7111402	Alert and Notification System Testing		11/01/2004	11/05/2004	Baseline Inspections
1, 2	IP 7111403	Emergency Response Organization Augmentation Testing		11/01/2004	11/05/2004	Baseline Inspections
1, 2	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies		11/01/2004	11/05/2004	Baseline Inspections
1, 2	IP 71151	Performance Indicator Verification		11/01/2004	11/05/2004	Baseline Inspections
	IP 71121 - RP ACCESS CTRL/ALARA INSPECTION		1			
1, 2	IP 7112101	Access Control to Radiologically Significant Areas		11/29/2004	12/03/2004	Baseline Inspections
1, 2	IP 7112102	ALARA Planning and Controls		11/29/2004	12/03/2004	Baseline Inspections
1, 2	IP 71151	Performance Indicator Verification		11/29/2004	12/03/2004	Baseline Inspections
	SSDI - SAFETY SYSTEM DESIGN INSPECTION		5			
1, 2	IP 7111121	Safety System Design and Performance Capability		01/24/2005	02/11/2005	Baseline Inspections

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

Byron
Inspection / Activity Plan
03/01/2004 - 09/30/2005

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates		Inspection Type
				Start	End	
	IP 71121 - RP INSTRUMENTATION/PROT EQUIP INSP		1			
1,2	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment		02/14/2005	02/18/2005	Baseline Inspections
	ISI - UNIT 1 ISI/TI-150 INSPECTION		2			
1	IP 7111108P	Inservice Inspection Activities - PWR		03/28/2005	04/08/2005	Baseline Inspections
	IP 71121 - RP OUTAGE ACCESS CTRL/ALARA INSP		1			
1,2	IP 7112101	Access Control to Radiologically Significant Areas		03/28/2005	04/01/2005	Baseline Inspections
1,2	IP 7112102	ALARA Planning and Controls		03/28/2005	04/01/2005	Baseline Inspections
	PI&R - PROBLEM IDENTIFICATION AND RESOLUTION		3			
1,2	IP 71152B	Identification and Resolution of Problems		06/13/2005	07/01/2005	Baseline Inspections
	IP 71122 - RP REMP/RAM CONTROL INSPECTION		1			
1,2	IP 7112203	Radiological Environmental Monitoring Program		06/06/2005	06/10/2005	Baseline Inspections
1,2	IP 71151	Performance Indicator Verification		06/06/2005	06/10/2005	Baseline Inspections
	71114 - EP EXERCISE & EP PI INSP		2			
1,2	IP 7111401	Exercise Evaluation		07/18/2005	07/22/2005	Baseline Inspections
1,2	IP 71151	Performance Indicator Verification		07/18/2005	07/22/2005	Baseline Inspections
	ISI - UNIT 2 ISI INSPECTION/TI-150		2			
2	IP 2515/150	Reactor Pressure Vessel Head and Vessel Head Penetration Nozzles (NRC Bulletin 2002-0		09/26/2005	10/07/2005	Safety Issues
2	IP 7111108P	Inservice Inspection Activities - PWR		09/26/2005	10/07/2005	Baseline Inspections
	IP 71121 - RP OUTAGE ACCESS CTRL/ALARA INSP		1			
1,2	IP 7112101	Access Control to Radiologically Significant Areas		09/26/2005	09/30/2005	Baseline Inspections
1,2	IP 7112102	ALARA Planning and Controls		09/26/2005	09/30/2005	Baseline Inspections
1,2	IP 71151	Performance Indicator Verification		09/26/2005	09/30/2005	Baseline Inspections