

August 23, 2002

Mr. John L. Skolds, President  
Exelon Nuclear  
Exelon Generation Company, LLC  
4300 Winfield Road  
Warrenville, IL 60555

SUBJECT: MID-CYCLE PERFORMANCE REVIEW AND INSPECTION PLAN  
BYRON STATION, UNITS 1 and 2

Dear Mr. Skolds:

On July 31, 2002, the NRC staff completed its mid-cycle plant performance assessment of Byron Station, Units 1 and 2. In accordance with NRC Inspection Manual Chapter 0305 "Operating Reactor Assessment Program," the mid-cycle review involved the participation of all technical divisions in evaluating the performance of your Byron Station facility for the first half of the current assessment cycle, January 1 to December 31, 2002. The purpose of this letter is to inform you of our assessment of your safety performance during this period and our plans for further inspections at your facility so that you will have an opportunity to prepare for these inspections and to inform us of any planned inspections which may conflict with your plant activities.

Plant performance for the most recent quarter 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 Performance Indicators indicating performance at a level requiring no additional NRC oversight (Green). Therefore, at this time, we plan to conduct only baseline inspections at your facility through September 30, 2003.

The enclosed inspection plan details the inspections scheduled through September 30, 2003. 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 inspection plan for the last 6 months is tentative and may be revised at the end-of-cycle review.

In addition, the NRC is in the process of finalizing a Temporary Instruction that will be used to review implementation of the Interim Compensatory Measures required by the Agency's Security Order to all commercial nuclear power plants dated February 25, 2002. Schedules have not yet been finalized, but it is anticipated that these inspections will begin within the next calendar quarter. Once finalized, the details will be communicated by separate correspondence.

In accordance with 10 CFR 2.790 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 the 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

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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  
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State Liaison Officer, State of Wisconsin  
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J. A. Leather, President, Stillman Valley  
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M. Messer, Ogle County Sheriff  
R. McDermott, Emergency Management Director  
K. Cohn, County Board Chairman  
R. Meyers, Winnebago County Sheriff  
D. Lolli, Director, ESDA  
The Honorable Mike Arians  
The Honorable Kathryn Hamas  
The Honorable Steven Mongan  
The Honorable Robert Gingerich  
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JRK1

**Byron**  
**Inspection / Activity Plan**  
**09/01/2002 - 09/30/2003**

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates		Inspection Type
				Start	End	
	<b>7111120</b>	<b>- REFUELING AND OUTAGE ACTIVITIES</b>	<b>3</b>			
2	IP 7111120	Refueling and Outage Activities		07/01/2002	09/30/2002	Baseline Inspections
	<b>ISI</b>	<b>- INSERVICE INSPECTION UNIT 2</b>	<b>2</b>			
2	IP 7111108	Inservice Inspection Activities		09/23/2002	10/03/2002	Baseline Inspections
	<b>IP 71121</b>	<b>- OUTAGE RP ALARA &amp; ACCESS CTRL INSPECTION</b>	<b>1</b>			
1, 2	IP 7112101	Access Control to Radiologically Significant Areas		09/23/2002	09/27/2002	Baseline Inspections
1, 2	IP 7112102	ALARA Planning and Controls		09/23/2002	09/27/2002	Baseline Inspections
1, 2	IP 71151	Performance Indicator Verification		09/23/2002	09/27/2002	Baseline Inspections
	<b>71111.11</b>	<b>- LIC OPERATOR REQUAL PROGRAM EVALUATION</b>	<b>2</b>			
1, 2	IP 7111111B	Licensed Operator Requalification		10/14/2002	10/18/2002	Baseline Inspections
	<b>MR</b>	<b>- MAINTENANCE RULE</b>	<b>1</b>			
1, 2	IP 7111112B	Maintenance Effectiveness		10/21/2002	10/25/2002	Baseline Inspections
	<b>71130</b>	<b>- SAFEGUARDS INSPECTION-AA/AC/PI/PC</b>	<b>1</b>			
1, 2	IP 7113001	Access Authorization Program (Behavior Observation Only)		11/18/2002	11/22/2002	Baseline Inspections
1, 2	IP 7113002	Access Control (Search of Personnel, Packages, and Vehicles: Identification and Authorizator		11/18/2002	11/22/2002	Baseline Inspections
1, 2	IP 7113004	Security Plan Changes		11/18/2002	11/22/2002	Baseline Inspections
1, 2	IP 71151	Performance Indicator Verification		11/18/2002	11/22/2002	Baseline Inspections
	<b>IP 71121</b>	<b>- RAD INSTRUMENTATION INSPECTION</b>	<b>1</b>			
1, 2	IP 7112101	Access Control to Radiologically Significant Areas		01/13/2003	01/17/2003	Baseline Inspections
1, 2	IP 7112102	ALARA Planning and Controls		01/13/2003	01/17/2003	Baseline Inspections
1, 2	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment		01/13/2003	01/17/2003	Baseline Inspections
	<b>IP 71121</b>	<b>- RAD INSTRUMENTATION INSPECTION</b>	<b>1</b>			
1, 2	IP 7112101	Access Control to Radiologically Significant Areas		03/10/2003	03/14/2003	Baseline Inspections
1, 2	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment		03/10/2003	03/14/2003	Baseline Inspections
1, 2	IP 71151	Performance Indicator Verification		03/10/2003	03/14/2003	Baseline Inspections
	<b>HT SNK B</b>	<b>- HEAT SINK BIENNIAL (DRS)</b>	<b>1</b>			
1, 2	IP 7111107B	Heat Sink Performance		03/31/2003	04/04/2003	Baseline Inspections
	<b>SSDI</b>	<b>- SAFETY SYSTEM DESIGN</b>	<b>5</b>			
1, 2	IP 7111121	Safety System Design and Performance Capability		05/05/2003	05/23/2003	Baseline Inspections
	<b>IP 71122</b>	<b>- REMP &amp; UNCONDITIONAL RELEASE INSPECTION</b>	<b>1</b>			
1, 2	IP 7112203	Radiological Environmental Monitoring Program		05/19/2003	05/23/2003	Baseline Inspections
1, 2	IP 71151	Performance Indicator Verification		05/19/2003	05/23/2003	Baseline Inspections
	<b>ISI</b>	<b>- TI-145 FOR UNIT 1</b>	<b>1</b>			
1	IP 2515/145	Circumferential Cracking of Reactor Pressure Vessel Head Penetration Nozzles (NRC Bulletin :		09/15/2003	10/10/2003	Safety Issues

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

**Byron**  
**Inspection / Activity Plan**  
**09/01/2002 - 09/30/2003**

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates		Inspection Type
				Start	End	
	<b>ISI</b>	<b>- ISI FOR UNIT 1</b>	<b>1</b>			
1	IP 7111108	Inservice Inspection Activities		09/22/2003	10/03/2003	Baseline Inspections
	<b>IP 71121</b>	<b>- RP OUTAGE ALARA &amp; ACCESS CNTL INSPECTION</b>	<b>1</b>			
1, 2	IP 7112101	Access Control to Radiologically Significant Areas		09/29/2003	10/03/2003	Baseline Inspections
1, 2	IP 7112102	ALARA Planning and Controls		09/29/2003	10/03/2003	Baseline Inspections

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