

August 27, 2003

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 (REPORT 50-454/04-01; 50-455/04-01)

Dear Mr. Skolds:

On July 30, 2003, the NRC staff completed its mid-cycle plant performance assessment of the Byron Station, Units 1 and 2. The mid-cycle review for the Byron Station involved the participation of all technical divisions in evaluating performance indicators (PIs) for the most recent quarter and inspection results for the first half of the current assessment cycle, January 1 - 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.

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 PIs indicating performance at a level requiring no additional NRC oversight (Green). Therefore, we plan to conduct only baseline inspections at your facility through September 30, 2004.

The enclosed inspection plan details the inspections scheduled through September 30, 2004. 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. Two infrequently performed inspections will be conducted this year. These include (1) Problems identification and resolution inspection; and a (2) Biennial emergency preparedness exercise. Routine resident inspections are not listed due to their ongoing and continuous nature. In addition, the Byron Station has been chosen for a pilot inspection program which involves the consolidation of some of our existing inspection procedures. The inspections in the last 6 months of the inspection plan are tentative and may be revised at the end-of-cycle review meeting.

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

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
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M. Aguilar, Assistant Attorney General
Illinois Department of Nuclear Safety
State Liaison Officer
State Liaison Officer, State of Wisconsin
Chairman, Illinois Commerce Commission
T. Mulford, President, Leaf River
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

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Sincerely,

/RA/

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 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
 M. Aguilar, Assistant Attorney General
 Illinois Department of Nuclear Safety
 State Liaison Officer
 State Liaison Officer, State of Wisconsin
 Chairman, Illinois Commerce Commission
 T. Mulford, President, Leaf River
 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

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AJM

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Project Director, NRR

Project Mgr., NRR

RidsNrrDipmlipb

JLC1

GEG

HBC

RML2

SRI Byron

DRPIII

DRSIII

PLB1

JRK1

Byron
Inspection / Activity Plan
09/01/2003 - 09/30/2004

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates Start	Planned Dates End	Inspection Type
	ISI - ISI FOR UNIT 1		1			
1	IP 7111108P	Inservice Inspection Activities - PWR		09/22/2003	10/03/2003	Baseline Inspections
	ISI - TI-150 FOR UNIT 1		1			
1	IP 2515/150	Reactor Pressure Vessel Head and Vessel Head Penetration Nozzles (NRC Bulletin 2002-0		09/22/2003	10/03/2003	Safety Issues
	IP 71121 - RP OUTAGE ALARA & ACCESS CNTL INSPECTION		1			
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
	FY 2004 - BYRON INIT PREP 10/2003		1			
1	W90072	OL - INITIAL EXAM - BYRON - NOV/DEC 2003		11/03/2003	11/07/2003	Not Applicable
	PI&R - PROBLEM IDENTIFICATION AND RESOLUTION		3			
1, 2	IP 71152B	Identification and Resolution of Problems		11/03/2003	12/03/2003	Baseline Inspections
	INSP - BIENNIAL EP EXERCISE		2			
1, 2	IP 7111401	Exercise Evaluation		12/01/2003	12/05/2003	Baseline Inspections
1, 2	IP 71151	Performance Indicator Verification		12/01/2003	12/05/2003	Baseline Inspections
	FY 2004 - BYRON INIT EXAM 12/2003		3			
1	W90072	OL - INITIAL EXAM - BYRON - NOV/DEC 2003		12/01/2003	12/12/2003	Not Applicable
	HT SNK B - HEAT SINK BIENNIAL (DRS)		1			
1, 2	IP 71111.HS	Heat Sink Performance		12/08/2003	12/12/2003	Baseline Inspections
	MOD50.59 - MODIFICATIONS & 50.59		3			
1, 2	IP 7111102	Evaluation of Changes, Tests, or Experiments		01/26/2004	01/30/2004	Baseline Inspections
1, 2	IP 7111117B	Permanent Plant Modifications		01/26/2004	01/30/2004	Baseline Inspections
	7111108 - INSERVICE INSPECTION & TI-150 UNIT 2		1			
2	IP 2515/150	Reactor Pressure Vessel Head and Vessel Head Penetration Nozzles (NRC Bulletin 2002-0		03/29/2004	04/09/2004	Safety Issues
2	IP 7111108P	Inservice Inspection Activities - PWR		03/29/2004	04/09/2004	Baseline Inspections
	7112101 - 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		1			
1, 2	IP 7111112B	Maintenance Effectiveness		05/03/2004	05/07/2004	Baseline Inspections
	7112201 - RADIOACTIVE LIQUID & GAS EFFLUENTS		2			
1, 2	IP 7112101	Access Control to Radiologically Significant Areas		06/14/2004	06/18/2004	Baseline Inspections
1, 2	IP 7112201	Radioactive Gaseous and Liquid Effluent Treatment and Monitoring Systems		06/14/2004	06/18/2004	Baseline Inspections
1, 2	IP 71151	Performance Indicator Verification		06/14/2004	06/18/2004	Baseline Inspections
	FPI - TRIENNIAL FIRE PROTECTION		3			
1, 2	IP 7111105T	Fire Protection		08/30/2004	09/17/2004	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
09/01/2003 - 09/30/2004

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates Start End		Inspection Type
	71111.11	- LIC OPERATOR REQUAL PROGRAM EVALUATION	2			
1, 2	IP 7111111B	Licensed Operator Requalification		08/16/2004	08/20/2004	Baseline Inspections
	7112202	- RAM PROCESSING & TRANSPORTATION	2			
1, 2	IP 7112101	Access Control to Radiologically Significant Areas		09/13/2004	09/17/2004	Baseline Inspections
1, 2	IP 7112202	Radioactive Material Processing and Transportation		09/13/2004	09/17/2004	Baseline Inspections
1, 2	IP 71151	Performance Indicator Verification		09/13/2004	09/17/2004	Baseline Inspections