

May 31, 2001

Mr. Oliver D. Kingsley, President
Exelon Nuclear
Exelon Generation Company, LLC
1400 Opus Place, Suite 500
Downers Grove, IL 60515

SUBJECT: ANNUAL ASSESSMENT LETTER - BYRON NUCLEAR POWER STATION
(REPORT 50-454/01-01; 50-455/01-01)

Dear Mr. Kingsley:

On May 1 and 2, 2001, the NRC staff completed its End-of-Cycle plant performance assessment of Byron Nuclear Power Station. The End-of-Cycle review for the Byron plant involved the participation of all technical divisions in evaluating performance indicators (PIs) for the most recent quarter and inspection results for the period April 2, 2000 through March 31, 2001. 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 which may conflict with your plant activities.

Overall, Byron 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 baseline inspections at your facility through May 31, 2002.

The enclosure details the scheduled inspections that will occur through May 31, 2002. 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 on site. Routine resident inspections are not listed due to their ongoing and continuous nature.

For your information, the NRC is in the process of aligning the inspection and assessment cycle with the calendar year. In order to transition to a calendar year cycle (January 1 - December 31), the next inspection and assessment cycle will consist of only three quarters (i.e., the second, third, and fourth calendar quarters of CY 2001). As a result, a quarterly review will be conducted for the third calendar quarter (July 1 - September 30) in lieu of a mid-cycle review. The impact on the inspection plan, which is included as an enclosure, is minimal. Activities planned for the transition cycle represent only 60-80 percent of those activities that would be accomplished during a typical 12-month inspection and assessment cycle.

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/NRC/ADAMS/index.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 Inspection/Activity Plan

See Attached Distribution

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Byron
Inspection / Activity Plan
06/01/2001 - 05/31/2002

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates		Inspection Type
				Start	End	
	71111.01 - ADVERSE WEATHER PREPARATION- HOT		1			
1, 2	IP 7111101	Adverse Weather Protection		05/15/2001	06/30/2001	Baseline Inspections
	7111106 - FLOOD PROTECTION MEASURES		1			
1, 2	IP 7111106	Flood Protection Measures		05/15/2001	06/30/2001	Baseline Inspections
	HT SNK B - HEAT SINK BIENNIAL		1			
1, 2	IP 7111107B	Heat Sink Performance		06/04/2001	06/08/2001	Baseline Inspections
	IP 71121 - RP INSTRUMENTATION INSP		2			
1, 2	IP 7112101	Access Control to Radiologically Significant Areas		08/27/2001	08/31/2001	Baseline Inspections
1, 2	IP 7112103	Radiation Monitoring Instrumentation		08/27/2001	08/31/2001	Baseline Inspections
1, 2	IP 71151	Performance Indicator Verification		08/27/2001	08/31/2001	Baseline Inspections
	71130 - SAFEGUARDS INSPECTION-AA/AC/PI/PC		1			
1, 2	IP 7113001	Access Authorization Program (Behavior Observation Only)		09/10/2001	09/14/2001	Baseline Inspections
1, 2	IP 7113002	Access Control (Search of Personnel, Packages, and Vehicles: Identification and Authorizatio		09/10/2001	09/14/2001	Baseline Inspections
1, 2	IP 7113004	Security Plan Changes		09/10/2001	09/14/2001	Baseline Inspections
1, 2	IP 71151	Performance Indicator Verification		09/10/2001	09/14/2001	Baseline Inspections
	71111.01 - ADVERSE WEATHER PREPARATION		1			
1, 2	IP 7111101	Adverse Weather Protection		10/01/2001	11/12/2001	Baseline Inspections
	FY 2002 - BYRON INIT PREP 10/2001		3			
1	W90024	OL - INITIAL EXAM - BYRON - 2001		10/08/2001	10/12/2001	Not Applicable
	IP 71122 - RP REMP & RAM CONTROL INSP		1			
1, 2	IP 7112203	Radiological Environmental Monitoring Program		10/15/2001	10/19/2001	Baseline Inspections
1, 2	IP 71151	Performance Indicator Verification		10/15/2001	10/19/2001	Baseline Inspections
	PI&R - PROBLEM IDENTIFICATION & RESOLUTION		3			
1, 2	IP 71152	Identification and Resolution of Problems		10/29/2001	11/09/2001	Baseline Inspections
	FY 2002 - BYRON INIT EXAM 10&11/2001		3			
1	W90024	OL - INITIAL EXAM - BYRON - 2001		11/05/2001	11/16/2001	Not Applicable
	FPI - FIRE PROTECTION INSPECTION		3			
1, 2	IP 7111105T	Fire Protection		11/19/2001	12/07/2001	Baseline Inspections
	IP 71114 - BIENNIAL EP EXERCISE INSPECTION		3			
1, 2	IP 7111401	Exercise Evaluation		11/26/2001	11/30/2001	Baseline Inspections
1, 2	IP 71151	Performance Indicator Verification		11/26/2001	11/30/2001	Baseline Inspections
	MR - BIENNIAL MAINTENANCE RULE		1			
1, 2	IP 7111112B	Maintenance Rule Implementation		12/17/2001	12/21/2001	Baseline Inspections
	IP 71122 - RP LIQUID/GASEOUS EFFLUENT INSP		1			
1, 2	IP 7112201	Radioactive Gaseous and Liquid Effluent Treatment and Monitoring Systems		01/14/2002	01/18/2002	Baseline Inspections
1, 2	IP 71151	Performance Indicator Verification		01/14/2002	01/18/2002	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
06/01/2001 - 05/31/2002

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates		Inspection Type
				Start	End	
	MOD50.59	- BIENNIAL PLANT MODS AND 50.59	4			
1, 2	IP 7111102	Evaluation of Changes, Tests, or Experiments		01/14/2002	01/18/2002	Baseline Inspections
1, 2	IP 7111117B	Permanent Plant Modifications		01/14/2002	01/18/2002	Baseline Inspections
	7111120	- REFUELING AND OUTAGE ACTIVITIES	2			
1	IP 7111120	Refueling and Outage Activities		02/12/2002	03/27/2002	Baseline Inspections
	ISI	- INSERVICE INSPECTION UNIT 1	1			
1, 2	IP 7111108	Inservice Inspection Activities		03/11/2002	03/15/2002	Baseline Inspections
	IP 71121	- OUTAGE RP ALARA INSP	1			
1, 2	IP 7112101	Access Control to Radiologically Significant Areas		03/11/2002	03/29/2002	Baseline Inspections
1, 2	IP 7112102	ALARA Planning and Controls		03/11/2002	03/29/2002	Baseline Inspections
	IP 71121	- RP INSTRUMENTATION INSP	1			
1, 2	IP 7112103	Radiation Monitoring Instrumentation		05/06/2002	05/10/2002	Baseline Inspections
1, 2	IP 71151	Performance Indicator Verification		05/06/2002	05/10/2002	Baseline Inspections