

RS-08-010

January 31, 2008

U. S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, DC 20555-0001

Braidwood Station, Units 1 and 2
Facility Operating License Nos. NPF-72 and NPF-77
NRC Docket Nos. STN 50-456 and STN 50-457

Byron Station, Units 1 and 2
Facility Operating License Nos. NPF-37 and NPF-66
NRC Docket Nos. STN 50-454 and STN 50-455

Subject: Additional Information Supporting Request for Amendment to Technical Specification 5.5.16, "Containment Leakage Rate Testing Program"

- References:
1. Letter from D. M. Benyak (Exelon Generation Company, LLC) to U. S. NRC, "Request for Amendment to Technical Specification 5.5.16, 'Containment Leakage Rate Testing Program,'" dated April 4, 2007
 2. Letter from P. R. Simpson (Exelon Generation Company, LLC) to U. S. NRC, "Response to Request for Additional Information Regarding Request for Amendment to Technical Specification 5.5.16, 'Containment Leakage Rate Testing Program,'" dated October 10, 2007

In Reference 1, Exelon Generation Company, LLC (EGC) requested an amendment to Appendix A, Technical Specifications (TS), of Facility Operating License Nos. NPF-72, NPF-77, NPF-37, and NPF-66 for Braidwood Station, Units 1 and 2, and Byron Station, Units 1 and 2, respectively. The proposed change revises TS 5.5.16, "Containment Leakage Rate Testing Program," to reflect a one-time five-year deferral of the containment Type A integrated leak rate test from once in 10 years to once in 15 years.


Additional information supporting this request was submitted to the NRC in Reference 2. In the Reference 2 submittal, EGC provided references to inservice inspection summary reports, which were previously submitted to the NRC, that provide information related to containment inservice inspections (CISIs) and historic highlights. In recent discussions with the NRC, the NRC requested that EGC provide a summary table that documents significant indications noted during the CISIs and actions taken to disposition the indications. In response to this request,

EGC is providing the attached information for Byron Station. CISI summary information will be submitted to the NRC for Braidwood Station under a separate letter.

There are no regulatory commitments contained in this letter. If you have any questions concerning this letter, please contact Mr. Kenneth M. Nicely at (630) 657-2803.

I declare under penalty of perjury that the foregoing is true and correct. Executed on the 31st day of January 2008.

Respectfully,

A handwritten signature in black ink, appearing to read "Patrick R. Simpson", with a long horizontal flourish extending to the right.

Patrick R. Simpson
Manager – Licensing

Attachment: Summary of Byron Station Containment Inspections

ATTACHMENT
Summary of Byron Station Containment Inspections

Unit	Date	Interval	Period	Examination Scope	Significant Indications	Actions for Dispositioning	Date of Summary Report	Method of Examination
2	Spring 2007	2 (IWE)	1	100% penetrations from outside of the containment (accessible surfaces)	None		07/31/07	General visual, VT-3, and VT-1 by certified VT examiners
				Transfer fuel canal	None			
				Two penetrations disassembled in support of steam generator work	Two bolts with damaged threads	Replaced		
				Moisture barrier (accessible surfaces)	None			
				100% liner including penetrations (accessible surfaces)	None			
				Disassembled equipment hatch	None			
1	Fall 2006	2 (IWE)	1	100% penetrations from outside of the containment (accessible surfaces)	None		01/16/07	General visual, VT-3, and VT-1 by certified VT examiners
				Transfer fuel canal	None			
				One penetration disassembled	None			
				Moisture barrier (accessible surfaces)	None			
				100% liner including penetrations (accessible surfaces)	None			
				Disassembled equipment hatch	None			
1 and 2	Summer 2006	Second 5-year concrete (IWL)	--	Exterior containment walls (accessible concrete surfaces including tendon tunnels, buttresses) enclosed within other structures	Two hoop tendon grease cans (one per unit) exhibited signs of corrosion	Engineering evaluation was performed; dispositioned as acceptable. Continues to be monitored on a 20-month frequency. Planned for replacement in 2011.	07/31/07	General visual, VT-3, and VT-1 by certified VT and VT-C examiners
				Exterior containment walls (accessible concrete surfaces including dome) exposed to outside	None			

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Unit	Date	Interval	Period	Examination Scope	Significant Indications	Actions for Dispositioning	Date of Summary Report	Method of Examination
2	Fall 2005	1 (IWE)	--	Transfer fuel canal	Eight bolts with damaged threads	Replaced	01/10/06	General visuals and detailed visuals equivalent to VT-3 and VT-1, respectively, by certified VT examiners
				Two penetrations disassembled in support of Steam Generator work	None			
				Supplemental liner plate at elevation 377'	None			
				Disassembled equipment hatch	None			
1	Spring 2005	1 (IWE)	--	Transfer fuel canal	None		01/31/06	General visuals and detailed visuals equivalent to VT-3 and VT-1, respectively, by certified VT examiners
				Dome liner plate	None		06/20/05	
				Two penetrations disassembled in support of Steam Generator work	None			
				Disassembled equipment hatch	None			
2	Spring 2004	1 (IWE)	2	100% penetrations from outside of the containment (accessible surfaces)	None		07/02/04	General visuals and detailed visuals equivalent to VT-3 and VT-1, respectively, by certified VT examiners
				Transfer fuel canal	None			
				Two penetrations disassembled in support of Steam Generator work	None			
				Supplemental liner plate at elevation 377'	None			
				100% liner including penetrations (accessible surfaces)	None			
				Supplemental dome liner plate	None			
				100% moisture barrier	None			

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Unit	Date	Interval	Period	Examination Scope	Significant Indications	Actions for Dispositioning	Date of Summary Report	Method of Examination
1	Spring 2004	20-year post-tensioning (IWL)	--	Tendons	None		01/31/06 06/20/05	VT-1C, VT-3C, VT-1, and VT-3 by certified VT and VT-C examiners
				Wire/strand	None			
				Anchorage hardware and surrounding concrete	None			
				Corrosion protection medium	Replacement grease in excess of 10% in one tendon	Engineering evaluation was performed; dispositioned as acceptable.		
				Free water	Water discovered in several tendons	Engineering evaluation was performed; dispositioned as acceptable. Continue to monitor.		
2	Spring 2004	20-year post-tensioning (IWL)	--	Anchorage hardware and surrounding concrete	None		01/31/06 06/20/05	VT-1C, VT-3C, VT-1, and VT-3 by certified VT and VT-C examiners
				Corrosion protection medium	None			
				Free water	None			
1	Fall 2003	1 (IWE)	2	100% penetrations from outside of the containment (accessible surfaces)	None		01/12/04	General visuals and detailed visuals equivalent to VT-3 and VT-1, respectively, by certified VT examiners
				Transfer fuel canal	None			
				100% liner plate	None			
				100% moisture barrier	None			
2	Fall 2002	1 (IWE)	--	Supplemental liner plate at elevation 377'	None		01/03/02	General visuals and detailed visuals equivalent to VT-3 and VT-1, respectively, by certified VT examiners
				Dome liner plate	None			

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Unit	Date	Interval	Period	Examination Scope	Significant Indications	Actions for Dispositioning	Date of Summary Report	Method of Examination
1	Spring 2002	1 (IWE)	--	Transfer fuel canal	None		06/27/02	General visuals and detailed visuals equivalent to VT-3 and VT-1, respectively, by certified VT examiners
				Two penetrations disassembled in support of Steam Generator work	None			
1 and 2	Summer 2001	First 5-year concrete (IWL)	--	Exterior containment walls (all accessible concrete surfaces including tendon tunnels, buttresses) enclosed within other structures	None		06/27/02	VT-1C, VT-3C, VT-1, and VT-3 by certified VT and VT-C examiners
				Exterior containment walls (all accessible concrete surfaces including dome) exposed to outside	None			

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Unit	Date	Interval	Period	Examination Scope	Significant Indications	Actions for Dispositioning	Date of Summary Report	Method of Examination
2	Spring 2001	1 (IWE)	1	100% penetrations from outside of the containment (accessible surfaces)	None		07/19/01	General visuals and detailed visuals equivalent to VT-3 and VT-1, respectively, by certified VT examiners
				Transfer fuel canal	None			
				Three penetrations disassembled in support of Steam Generator work	None			
				100% penetrations from inside of the containment (accessible surfaces)	None			
				Moisture barrier	Moisture barrier degradation previously identified in Fall 1999	Moisture barrier was completely replaced		
				Disassembled equipment hatch	None			
1	Fall 2000	1 (IWE)	1	100% penetrations from outside of the containment (accessible surfaces)	None		01/04/01	General visuals and detailed visuals equivalent to VT-3 and VT-1, respectively, by certified VT examiners
				Transfer fuel canal	None			
				Two penetrations disassembled in support of Steam Generator work	None			
				100% penetrations from inside of the containment (accessible surfaces)	None			
				Moisture barrier	None			
				Disassembled equipment hatch	None			

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Unit	Date	Interval	Period	Examination Scope	Significant Indications	Actions for Dispositioning	Date of Summary Report	Method of Examination
2	Fall 1999	--	--	100% penetrations from inside of the containment (accessible surfaces)	None		02/11/00	Visual inspections per special process procedures (SPPs)
				Dome liner plate	None			
				100% liner plate	None			
				Moisture barrier	Moisture barrier degradation was identified*	Moisture barrier planned for future replacement in Spring 2001		
				Airlocks	None			
				Exterior containment walls	1. A concrete spall was noted on the D-E buttress adjacent to tendon H13ED* 2. Degraded caulking in one case was identified*	1. Repaired 2. Repaired		
1	Spring 1999	20-year post-tensioning (IWL)	--	Anchorage hardware and surrounding concrete	None		02/11/00	Visual inspections per SPPs
				Corrosion protection medium	None			
				Free water	None			

*Note: These indications were not specifically discussed in the ISI summary report. They are included for completeness.

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Unit	Date	Interval	Period	Examination Scope	Significant Indications	Actions for Dispositioning	Date of Summary Report	Method of Examination
2	Spring 1999	20-year post-tensioning (IWL)	--	Tendons	None		02/11/00	Visual inspections per SPPs
				Wire/strand	None			
				Anchorage hardware and surrounding concrete	None			
				Corrosion protection medium	None			
				Free water	None			
2	Spring 1998	--	--	Metallic containment surfaces and components	None		08/13/98	Visual inspections per SPPs
				Exterior concrete surfaces	None			
				Moisture barrier	None			