

Commonwealth Edison Company  
Braidwood Generating Station  
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Tel 815-458-2801

March 13, 1995  
BW/95-0036



U.S. Nuclear Regulatory Commission  
Document Control Desk  
Washington, D.C. 20555

Subject: Braidwood Station Unit 1 Cycle 5 Mid-Cycle Outage  
Steam Generator Inservice Inspection Report  
Docket No. STD SD-456

References: (1) NUREG-1276, Technical Specifications, Braidwood Station,  
Unit Nos. 1 and 2

Gentlemen:

Specification 4.4.5.5.a of reference (1) requires that within 15 days following the completion of each inservice inspection of steam generator tubes, the number of tubes plugged or repaired in each steam generator shall be reported to the Commission in a Special Report pursuant to Specification 6.9.2.

During the Braidwood Unit 1 Cycle 5 Mid-cycle Outage which began on February 18, 1995, an eddy current inspection of the steam generator tubing was conducted. One hundred percent of the steam generator tubing in each steam generator received a full-length bobbin coil probe inspection. One hundred percent of the steam generator tubing was inspected at the top of the tubesheet, roll transition region, using a rotating pancake coil probe. A rotating pancake coil probe was also used to confirm and characterize all distorted indications at the tube support plates greater than 1 volt. The inspection was completed on March 3, 1995. The attachments summarize the results of this inspection, and include a tube plugging history for Braidwood Unit 1.

Please direct any questions regarding this submittal to Doug Huston, Braidwood Licensing Supervisor, (815) 458-2801, extension 2511.

Yours truly,

K. L. Kofron  
Station Manager  
Braidwood Nuclear Station

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Attachments

cc: S. G. DuPont, Sr. Resident Inspector, Braidwood  
R. R. Assa, Braidwood Project Manager, NRR  
J. B. Martin, Regional Administrator, RIII

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## Attachment A

**A1M05 Plugging Results**

	SG 1A	SG 1B	SG 1C	SG 1D	TOTALS
Total Tubes	4578	4578	4573	4578	18312
Previously Plugged Tubes	243	58	366	171	838
Total Tubes Inspected This Outage	4335	4520	4212	4407	17474
A1M05 Tube Support Plate Pluggable	235	41	315	180	771
Anti Vibration Bar Wear	2	0	1	0	3
Confirmed Wedge Location Indication	17	2	12	13	44
* Top of Tubesheet Circumferential Cracks	4	0	11	0	15
Misc. Top of Tubesheet Indications	4	1	1	1	7
A1M05 Total Tubes Plugged	262	44	340	194	840
Restart Total Tubes Available	4073	4476	3872	4213	16634
Total Tubes Plugged (%)	11.0	2.2	15.4	8.0	9.2

\* All Circumferential Cracks in the 1A and 1C SGs plus the one Mixed Mode Indication in the 1A SG were "stabilized" with an Inconel alloy 690 sleeve.

## Braidwood Unit 1 SG Plugging History

	Total	% Plugged	PWSCC	AVB WEAR	FREESPAN	ODSCC	WEDGE	TTS CIRC	OTHER
(PSI) SG-A	4	0.09							1-Factory, 3-Baseline
(PSI) SG-B	1	0.02							1-Factory
(PSI) SG-C	8	0.17							8-Baseline
(PSI) SG-D	1	0.02							1-Baseline
(A1R01) SG-A	5	0.20		2					3-Foreign Object
(A1R01) SG-B	1	0.04			1				
(A1R01) SG-C	0	0.17							
(A1R01) SG-D	0	0.02							
(A1R02) SG-A	11	0.44		2		8			1-Foreign Object
(A1R02) SG-B	2	0.09		1					1-NRC Bulletin 88-02
(A1R02) SG-C	19	0.59		1		18			
(A1R02) SG-D	4	0.11				4			
(A1R03) SG-A	37	1.25		4		33			
(A1R03) SG-B	11	0.33				11			
(A1R03) SG-C	82	2.38		2		80			
(A1R03) SG-D	44	1.07				44			
Oct '94 SG-C	117	4.94			1	116			
(A1R04) SG-A	186	5.31		1	2	170	13		
(A1R04) SG-B	43	1.27			4	19	0		20-Expansion Preps
(A1R04) SG-C	140	7.99			5	127	8		
(A1R04) SG-D	122	3.74		1		110	11		
NOTE: In R04, a 1.0 Volt IPC was approved for ODSCC.									
(A1M05) SG-A	262	11.03		2		235	17	4	1-MMI at TTS, 2-VOL at TTS, 1-SAI (OD) at TTS
(A1M05) SG-B	44	2.23				41	2		1-VOL at TTS
(A1M05) SG-C	340	15.42		1		315	12	11	1-VOL at TTS
(A1M05) SG-D	194	7.97				180	13		1-SAI (OD) at TTS
NOTE: The 15 Circumferential Cracks + the 1 MMI were "stabilized" with a sleeve.									

Total Plugged 1678  
% Plugged 9.16