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April 23, 1996
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ComEd

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

Subject: Braidwood Station Unit 2
Fifth Refuel Outage
Steam Generator Inservice Inspection Report
NRC Docket No. STN 50-457

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

Specification 4.4.5.5.a of reference (1) requires that within 15 days following the completion of each inservice inspection of steam generator (SG) 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 2 Fifth Refuel Outage which began on March 16, 1996, an eddy current inspection of the steam generator tubing was conducted. The initial inspection scope was to inspect the 2A and 2D SGs only, but due to indications identified in the 2A and 2D SGs, the inspection scope was expanded to the 2B and 2C SGs. The following inspections were performed:

- 100% of the total inservice SG tubing was inspected full length using the bobbin coil probe
- 28% of the total SG tubing hot-leg roll transition regions was inspected using the Rotating Pancake Coil probe.
- 64% of the Dents greater than 5 volts at the hot-leg Tube Support Plates were inspected using the Rotating Pancake Coil probe.
- 100% of the inservice SG tubes in the Row 1 and Row 2 U-Bend region were inspected using the Rotating Pancake Coil probe.
- 20% of the SG tubing expanded at Preheater Baffles "B" and "D" in the 2A SG was inspected using the Rotating Pancake Coil probe.

All of the inspections met the minimum requirements of the NRC commitments. The inspection was completed on April 12, 1996. Attachment A summarizes the results of this inspection, and Attachment B includes a tube plugging history for Braidwood Unit 2.

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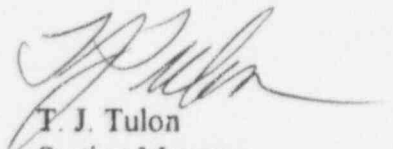
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Please direct any questions regarding this submittal to Doug Huston, Braidwood
Licensing Supervisor, (815) 458-2801, extension 2511.

Very truly yours,



T. J. Tulon
Station Manager
Braidwood Nuclear Station

Attachments

cc: Senior Resident Inspector - Braidwood
Braidwood Project Manager - NRR
Regional Administrator - RIII

Attachment A

Braidwood Unit 2 Fifth Refuel Outage (A2R05) SG Tube Plugging Results

	2A SG	2B SG	2C SG	2D SG	TOTALS
Total Tubes	4570	4570	4570	4570	18280
Previously Plugged Tubes	11	2	23	4	40
Total Tubes Inspected This Outage	4559	4568	4547	4566	18240
Anti-Vibration Bar Wear Pluggable	16	2	4	7	29
Tubes Plugged With VOL Indication at 1H TSP	1	0	0	1	2
Tubes Plugged With indications in U-Bend	0	0	0	1	1
Tubes Plugged due to Administrative Reasons	0	0	0	2 Loose Part*, 1 VOL Freespan	3
A2R05 Total Tubes Plugged	17	2	4	12	35
Restart Total Tubes Available	4542	4566	4543	4554	18205
Total Tubes Plugged	28	4	27	16	75
Percentage of Tubes Plugged	0.61	0.09	0.59	0.35	0.41

SG Tube Plugging Limits are a maximum of 30% in any one SG with a maximum of 24% total.

* Loose Part found in the 2D SG at the 8H TSP Row 43 Column 73 (62% throughwall). Unsuccessful attempt made to retrieve loose part. Safety Evaluation performed to allow loose part to be left inside SG. Two tubes plugged per Safety Evaluation.

Attachment B

Braidwood Unit 2 SG Plugging History

	Total	% Plugged	PWSCC	AVB WEAR	FRESPAN	ODSCC	WEDGE	TTS CIRC	OTHER
(PSI) SG-A	1	0.02							1-Factory
(PSI) SG-B	2	0.04							1-Factory, 1-Baseline **
(PSI) SG-C	0	0.00							
(PSI) SG-D	3	0.07							3-Factory
** Tube was recovered during A2R03									
(A2R01) SG-A	0	0.02							
(A2R01) SG-B	0	0.04							
(A2R01) SG-C	2	0.04		2					
(A2R01) SG-D	0	0.07							
1.162 EFFY									
(A2R02) SG-A	4	0.11		4					
(A2R02) SG-B	0	0.04							
(A2R02) SG-C	7	0.20		7					
(A2R02) SG-D	0	0.07							
1.126 EFFY									
(A2R03) SG-A	6	0.24		6					Also unplugged 1 tube
(A2R03) SG-B	0	0.04		1					
(A2R03) SG-C	8	0.37		8					
(A2R03) SG-D	1	0.09		1					
1.117 EFFY									
(A2R04) SG-A	0	0.24							
(A2R04) SG-B	0	0.04							
(A2R04) SG-C	6	0.50		6					
(A2R04) SG-D	0	0.09							
1.161 EFFY Note: Only the 2B and 2C SGs were inspected.									
(A2R05) SG-A	17	0.61		16					1 VOL at 1H TSP
(A2R05) SG-B	2	0.09		2					
(A2R05) SG-C	4	0.59		4					
(A2R05) SG-D	12	0.35		7	1				1 VOL at 1H TSP, 1 SAI at U-Bend, 2 Loose Part
1.272 EFFY									

*Total Plugged 75
 % Plugged 0.41
 Total EFFY 5.838