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Indiana Michigan Power
Cook Nuclear Plant
One Cook Place
Bridgman, MI 49106
AEP.com

October 31, 2006

AEP:NRC:6567

Docket No: 50-315

U. S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Mail Stop O-P1-17
Washington, DC 20555-0001

Donald C. Cook Nuclear Plant Unit 1
STEAM GENERATOR TUBE INSERVICE INSPECTION REPORT

Pursuant to the requirements of Donald C. Cook Nuclear Plant Unit 1 Technical Specification 5.6.7.a, Indiana Michigan Power Company is submitting this letter to notify the Nuclear Regulatory Commission of the number of tubes plugged during the Unit 1 Cycle 21 steam generator inspection. The inspection was completed on October 17, 2006. A summary report is provided in the attachment to this letter.

This letter contains no new commitments. Should you have any questions, please contact Ms. Susan D. Simpson, Regulatory Affairs Manager, at (269) 466-2428.

Sincerely,

Joseph N. Jensen
Site Support Services Vice President

Attachment

RBH/jen

c: J. L. Caldwell – NRC Region III
K. D. Curry – AEP Ft. Wayne
J. T. King – MPSC
MDEQ – WHMD/RPMWS
NRC Resident Inspector
P. S. Tam, NRC Washington, DC

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ATTACHMENT TO AEP:NRC:6567

EDDY CURRENT FINDINGS AND REPAIRS DURING THE
UNIT 1 CYCLE 21 REFUELING OUTAGE

Eddy current inspections were conducted on each of the four Unit 1 steam generators during the 2006 Donald C. Cook Nuclear Plant (CNP) Unit 1 Cycle 21 outage (U1C21). The following table presents the tubes plugged prior to and during U1C21:

Steam Generator Number	Tubes Previously Plugged (Pre-U1C21)	Tubes Plugged In This Inspection (U1C21)	Total Number of Tubes Plugged
11	2	0	2
12	0	0	0
13	1	11*	12
14	1**	1**	2
Total	4	12	16

* Seven of the eleven tubes plugged were stabilized to bound a non-removable foreign object.

** Tube R69/C45 was administratively plugged (no degradation present) in the 2002 U1C18 refueling outage. Inspections performed during U1C21 identified that the tube plug was properly installed in the cold leg location in 2002; however, it was incorrectly installed in the hot leg tube location. The hot leg location was mistakenly plugged in tube location R69/C63 instead of R69/C45. Corrective measures were performed in U1C21 to confirm neither of the affected tubes was degraded or defective and to correctly plug both the hot leg end of tube R69/C45 and the cold leg side of tube R69/C63, effectively removing both tubes from service. This event is being evaluated under the CNP Corrective Action Program.