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 SMITH, W. G. Indiana Michigan Power Co.
 RECIP. NAME RECIPIENT AFFILIATION
 DAVIS, A. B. Region 3, Office of Director

SUBJECT: Informs of number of steam generator tubes plugged as result
 of eddy current exam activities performed during Sept 1987
 surveillance outage. Total number of tubes examined in each
 steam generator listed.

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October 6, 1987

Mr. A.B. Davis
United States Nuclear Regulatory Commission
Region III
799 Roosevelt Road
Glen Ellyn, IL 60137

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Dear Mr. Davis:

Pursuant to the requirements of D.C. Cook Plant Technical Specification 4.4.5.5(a), this letter is to inform you of the number of steam generator tubes plugged as a result of eddy current examination activities performed during the September 1987 Unit 2 surveillance outage.

Inspection of Unit 2 steam generators began on September 10, 1987, was completed on September 25, 1987 and included 100 percent of all tubes previously not plugged. Each tube was inspected on the hot leg only, from the tube end to just about the seventh tube support plate. The total number of tubes examined in each steam generator included 3,229 in S/G 21, 3,144 in S/G 22, 3,140 in S/G 23, and 3,166 in S/G 24.

Conservative steam generator tube plugging criteria, similar to that utilized during the previous inspection of Unit 2 steam generators, were implemented as follows: In the hot leg tubesheet crevice and tubesheet surface regions (up to approximately 6 inches) all clear indications or other signals representing possible tube wall degradation, regardless of voltage or phase angle, were plugged. At hot leg support plate intersections clear indications meeting a threshold voltage of 1.75 volts and having indicated through wall penetrations of ≥ 40 percent were considered pluggable. In addition, some indications not meeting the threshold voltage were also plugged as an additional precaution based on the recommendation of the data interpreter.

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Applying the conservative evaluation criteria resulted in plugging a total of 78 tubes. The number of tubes plugged per steam generator was 14 tubes in S/G 21, 17 tubes in S/G 22, 17 tubes in S/G 23, and 30 tubes in S/G 24.

Respectfully,


W.G. Smith, Jr.
Plant Manager

/cbm

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