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       50-316 Donald C. Cook Nuclear Power Plant, Unit 2, Indiana & 05000316  
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 SMITH, W. G.                    Indiana & Michigan Electric Co.  
 RECIP. NAME                    RECIPIENT AFFILIATION  
 DAVIS, A. B.                    Region 3, Office of Director

SUBJECT: RD: on 870709-0721 269 steam generator tubes plugged during  
           insp. Tubes plugged due to possible tube wall degradation.  
           Conservative evaluation criteria applied.

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FILE ☒

August 3, 1987

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

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 1987 Unit 1 refueling outage.

Inspection of Unit 1 steam generators began on July 9, 1987, was completed on July 21, 1987 and included 100 percent of all previously nonplugged tubes. The total number of tubes examined in each steam generator included 3,368 in S/G 11, 3,366 in S/G 12, 3,363 in S/G 13, and 3,368 in S/G 14.

Conservative steam generator tube plugging criteria, similar to that utilized during inspection of Unit 2 steam generator, 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  $\geq 40$  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.

Applying the conservative evaluation criteria resulted in plugging a total of 269 tubes. The number of tubes plugged per steam generator was 69 tubes in S/G 11, 86 tubes in S/G 12,

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110

Mr. A.B. Davis  
August 3, 1987  
Page 2

24 tubes in S/G 13, and 90 tubes in S/G 14. Of the total number of tubes plugged 69 were plugged based on Technical Specification requirements ( $\geq 40$  percent tube wall degradation) and included 19 tubes in S/G 11, 31 tubes in S/G 12, 3 tubes in S/G 13, and 16 tubes in S/G 14.

Respectfully,

  
W.G. Smith, Jr.  
Plant Manager

/cbm

cc: A.A. Blind - INFO  
L.S. Gibson - INFO  
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