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INDIANA & MICHIGAN ELECTRIC COMPANY

P. O. BOX 18
BOWLING GREEN STATION
NEW YORK, N. Y. 10004

November 30, 1979
AEP:NRC:00306

Donald C. Cook Nuclear Plant Units 1 and 2
Dockets No. 50-315 and 50-316
Licenses No. DPR-58 and DPR-74
IE Bulletin 79-17, Revision 1

Mr. J. G. Keppler, Regional Director
U.S. Nuclear Regulatory Commission
Office of Inspection and Enforcement
799 Roosevelt Road
Glen Ellyn, IL 60137

Dear Mr. Keppler:

This letter is in response to Revision 1 of IE Bulletin No. 79-17, which was transmitted to us by your letter dated October 30, 1979. This letter serves also as the report required by Item 6 of the subject Bulletin.

The non-destructive examinations (NDE) required by the original version of the Bulletin were completed on the Donald C. Cook Nuclear Plant Units 1 and 2 as of November 21, 1979. These examinations included ultrasonic and penetrant testing. Their scope was defined in our letter dated September 6, 1979 (AEP:NRC:00255), which responded to the original Bulletin. Preliminary results indicate that no stress corrosion cracking was found. Additional lines have been identified to conform with the NRC definition of stagnant borated water lines as stated in Revision 1 of the subject Bulletin and are listed in Attachment 1.

However, we feel that no further examinations are required in order to fulfill the intent of the subject Bulletin. We base our decision on the following reasons.

- a) The additional lines are extensions of the 29 lines identified in our September 6, 1979 response. These additional lines are flushed at least once monthly. The previously identified lines are considered to be more severe cases of stagnant borated water lines due to less frequent flushing.

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- b) The approach used to select the sample welds in the previously identified 29 lines meets the criteria of the revised Bulletin as well as the original Bulletin in that:
- 1) The sample welds do not include any low carbon content (less than .05 wt.%) types of stainless steel;
 - 2) The ten percent sampling applies to each pipe size/schedule category as well as the overall population of welds and is without bias as to piping configuration;
 - 3) The welds selected in the emergency core cooling system outnumber those in other safety-related systems.
- c) All sample welds were examined by both ultrasonic and penetrant methods. No exemptions from ultrasonic examinations were taken even in the case of piping having wall thickness less than .250 inch.
- d) The Section XI visual examination required by Item 2(a) of the subject Bulletin has been completed on all of those Unit 1 lines and most of those Unit 2 lines which were identified in our September 6, 1979 response. All results have been acceptable. The remaining Unit 2 examinations will be completed as soon as practical, but after the current refueling outage so that these systems can be pressurized. We expect the remaining visual examinations on Unit 2 to also have acceptable results.
- e) The preliminary results of the NDE performed by Southwest Research Institute (SwRI) indicate that no stress corrosion cracking has been found on any of the sample welds inspected in the Donald C. Cook Nuclear Plant Units 1 and 2. The NDE procedures used by SwRI have a demonstrated capability of detecting such cracking in stainless steel piping.

We shall inform you if the review of the final NDE report or if the remaining Unit 2 visual inspections provide indication of stress corrosion cracking.

Very truly yours,

JED:em

cc: (ATTACHED)

John E. Dolan
John E. Dolan
Vice President

Mr. J. G. Keppler, Regional Director

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AEP:NRC:00255
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ATTACHMENT 1 TO AEP:NRC:00306
RESPONSE TO IE BULLETIN 79-17, REVISION 1

The additional piping runs in the Cook Nuclear Plant which come under the NRC definition of stagnant borated water lines are:

30. Three charging pump discharge legs to the main discharge header.
31. Suction header to three charging pumps.
32. Two charging pump recirculation legs to main recirculation header.
33. From IMO 255 and 256 to Boron Injection Tank.
34. RHR system from RWST thru heat exchanger including recirculation lines.
35. CTS system from RWST thru pumps to IMO-210 & 211 and IMO-220 & 221.
36. From RWST to safety injection pumps.