Central Mail

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JOHN E. DOLAN
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April 15, 1977

Donald C. Cook Nuclear Plant Unit No. 1
Docket No. 50-315
DPR No. 58

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

Dear Mr. Keppler:

In our December 29, 1976 letter we responded to your letter of November 26, 1976 addressing IE Circular No. 76-06 entitled, "Stress Corrosion Cracks in Stagnant, Low Pressure Stainless Piping Containing Boric Acid Solution at PWR's." In that response we stated that we have been working on a program which: (a) defines those portions of safety-related piping systems which come under the criteria of not being frequently flushed, or containing non-flowing liquids; (b) considers hydrostatic testing for safety related piping; (c) attempts to define the appropriate non-destructive examination techniques; and (d) develops a schedule for the inspections which can be made at the Donald C. Cook Nuclear Plant Unit 1. This letter is intended to provide the information requested by your November 26, 1976 letter and to supplement our December 29, 1976 letter.

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The portions of safety-related piping systems in the Cook Nuclear Plant containing Boric Acid solution which come under the criteria of not being frequently flushed, or containing non-flowing liquids are:

1) Accumulator to Reactor Coolant System Cold Leg.

2) Boron Injection Tank to Reactor Coolant System.

3) Refueling Water Storage Tank to CVCS.

4) RHR Valves-ICM 305 & 306 to Pumps.

5) RHR Pump Suction to Containment Spray Pump Suction.

6) Spray Additive Tank to Containment Sprays.

7) Crosstie Safety Injection to CVCS.

8) Crosstie RHR to CVCS.

9) RHR to Containment Sprays Valves IMO 330 & 331.

10) Safety Injection to Reactor Coolant System Cold Leg.

11) Safety Injection to Reactor Coolant System Hot Leg.

12) RHR to Reactor Coolant System Cold Leg.

13) RHR to Reactor Coolant System Hot Leg.

14) Blender Makeup to Refueling Water Storage Tank (RWST).

15) Refueling Water Storage Tank to Purification Pump.

16) Purification Filter to RWST.

17) ECCS Check Valve Leakage Testing Lines.

18) RHR return to RWST.

19) Crosstie RHR to SI.

In response to item #1 of IE Circular No. 76-06 an operational pressure leakage test will be performed in accordance with ASME Code Section XI rules 1974 edition through summer 1975 addenda, except that the test pressure will be at system operating pressure. This test will be done on as many of the above 19 portions of safety-related piping systems as is possible during the next scheduled shutdown in late summer 1977. If there are any remaining portions to be tested they will be done during the next scheduled shutdown for refueling.

A review of the above 19 portions of safety-related piping systems has shown that these portions of piping systems will be part of our revised program for performing ASME Section XI Inservice Inspection of ASME Section III Class 2&3 components and systems and will be examined during those inspections. In the interim we will continue the surveillance requirements of the Donald C. Cook Nuclear Plant Technical Specifications regarding leak detection and operability of safety-related equipment together with our response to FSAR Question 6.6 regarding in-service inspection of other fluid systems.

This program of operational pressure leak testing and inspections together with the Cook Nuclear Plant Technical Specification surveillance requirements and the ASME Section XI Inservice Inspection program provide substantial assurance of the integrity of the portions of safety-related piping systems containing Boric Acid solution which are not frequently flushed.

Very truly yours,

John E. Dolan

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Senior Executive Vice President
Engineering and Construction

JED:mam

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