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 50-316 Donald C. Cook Nuclear Power Plant, Unit 2, Indiana & 05000316  
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 MALONEY, G.P. Indiana & Michigan Electric Co.  
 RECIP. NAME RECIPIENT AFFILIATION  
 DENTON, H.R. Office of Nuclear Reactor Regulation

SUBJECT: Forwards responses to NRC 800227 ltr re mods to facility  
 auxiliary feedwater sys & request for addl info concerning  
 util response to NRC 791030 ltr.

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March 28, 1980  
AEP:NRC:00307A

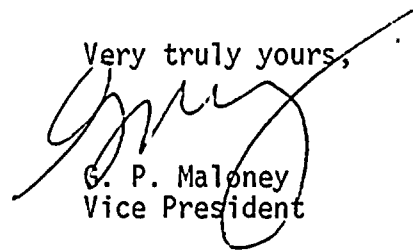
Donald C. Cook Nuclear Plant Unit Nos. 1 and 2  
Docket Nos. 50-315 and 50-316  
License Nos. DPR-58 and DPR-74

Mr. Harold R. Denton, Director  
Office of Nuclear Reactor Regulation  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

Dear Mr. Denton:

Attachment 1 to this letter responds to Mr. A. Schwencer's letter of February 27, 1980 concerning the modifications we are making to the auxiliary feedwater system in Units 1 and 2 of the Donald C. Cook Nuclear Plant. Attachment 2 to this letter responds to requests for information made by your Staff during recent telephone discussions concerning our responses to Mr. D. Eisenhower's October 30, 1979 letter.

Very truly yours,



G. P. Maloney  
Vice President

GPM:em

## Attachments

cc: R. C. Callen  
G. Charnoff  
R. S. Hunter  
R. W. Jurgensen  
D. V. Shaller - Bridgman

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ATTACHMENT 1 TO AEP:NRC:00307A

Question 1

Licensee Letter No. AEP:NRC:00307 dated December 7, 1979 indicates that the proposed ventilation system in both of the new safety-related battery rooms are designed to Seismic Category I and Group D Standard. This is not acceptable to the Staff. It is our position that the above stated ventilation systems are required to meet Seismic Category I and Quality Group C requirements. Confirm that these requirements will be met.

Response:

The battery room ventilation system meets Seismic Class I requirements. The fan meets AMCA Group C requirements as well as Group D.

Question 2

The licensee has not provided information regarding the electric power supplies to the new battery room ventilation system. Confirm that the proposed redundant ventilation systems in each of the new battery rooms are powered from separate essential buses and provide the results of an analysis to demonstrate that the H<sub>2</sub> concentration and the temperature inside the battery rooms will be maintained within allowable limits for at least two hours following loss of both offsite and onsite AC power.

Response:

- A. The redundant ventilation system for the battery rooms is supplied from separate essential buses. Fan 1A is fed from the 600V Auxiliary Safety Bus 21D. Fan 1B is fed from the 600V Auxiliary Safety Bus 21A.
- B. When both offsite and onsite AC power are unavailable, the battery charger will be de-energized. For the Cook Plant batteries, hydrogen and heat are produced only during battery charging. Thus, there will be no buildup of hydrogen or any temperature increase in the event of AC failure.

ATTACHMENT 2 TO AEP:NRC:00307A

The following three questions were received from members of your Staff during a telephone conversation on March 12, 1980.

Question 1

Provide a description of the procedure referenced in your submittal of December 11, 1979 (AEP:NRC:00300) in response to Recommendation GS-4.

Response:

Procedure No. OHP-4022.055.003 entitled, "Loss of Condensate to Auxiliary Feedwater Pumps" has been developed in fulfillment of our commitment in response to Recommendation GS-4 of Mr. Eisenhower's October 30, 1979 letter (AEP:NRC:00300). The purpose of this procedure is to provide the operator with instructions for switching the auxiliary feedpump suction from the condensate storage tank to the alternate Essential Service Water Supply (ESW). This action will enable the operator to maintain steam generator water level in the event that the condensate storage tank level is depleted and to prevent pump damage due to loss of this water supply. ESW can be supplied to all motor-driven auxiliary feedpumps and turbine-driven auxiliary feedpumps for both Units by opening the manual valve and the motor-operated valve in series in each alternate supply line.

Upon receipt of the condensate storage tank low-low level alarm, an operator is sent to the auxiliary feedpump rooms to align the essential service water valves to provide suction to each of the pumps. The telltale connection in-between the two ESW supply valves in series is unlocked and closed. The manual ESW valve is then unlocked and opened. Subsequently, the control room is notified to open the ESW motor-operated valve. This provides the required flow path to the pump suction and can be accomplished in less than ten minutes.

Question 2

In your response to additional short-term recommendation 1 you indicate that the condensate storage tank has redundant sensors providing signals to a continuous recorder in the control room. Provide a commitment to install an additional recorder for condensate storage tank level for full redundancy as your response implies there is only a single recorder.

Response:

The condensate storage tank level is monitored by redundant transmitters which transmit their signals to individual (a set per transmitter) low level alarms and high level alarms in the control room. A recorder is connected



to the transmitters by a selector switch which enables the operator to record level from either transmitter train. Once the operator receives the low-water level signal, he can check (by use of the selector switch) the redundant transmitter input of the recorder for confirmation of the signal. This design is in compliance with the intent of recommendation 1 since the alarm functions are served by their own transmitter (redundant). Furthermore, we will be installing a low suction pressure trip of the auxiliary feedwater pumps as indicated in our letter of December 11, 1979 (AEP:NRC:00300) in response to recommendation GL-4. There is no need for an additional recorder as it will not provide the operator with any information which either he doesn't already have or is in need of to properly operate the AFW system.

Question 3

In your response to additional short term recommendation 2, you list adequate run times for demonstrating sustained operation of the auxiliary feedwater pumps. Provide the test records and data requested by recommendation 2 for these pump runs. If this information is not available for these runs, provide a commitment and schedule to perform the 48-hour pump endurance testing in accordance with the criteria of recommendation 2.

Response:

We have not recorded the type of data during past pump performance testing that you now request from us. As such, we will perform the 48-hour pump endurance testing on one of the turbine-driven auxiliary feedwater pumps and on one of the motor-driven auxiliary feedwater pumps. This testing will be done just before we enter the upcoming Spring - 1980 refueling of Unit 1. We see no reason to test all the pumps since the Cook Plant motor-driven pumps are identical to each other and the turbine-driven pumps are likewise identical. We will submit the test records and data that you require, for the above pump testing, within 60 days of performing the actual test.