

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 7905110183 DOC. DATE: 79/05/04 NOTARIZED: YES DOCKET #
 FACIL: 50-315 DONALD C. COOK NUCLEAR POWER PLANT, UNIT 1, INDIANA & 05000315
 50-316 DONALD C. COOK NUCLEAR POWER PLANT, UNIT 2, INDIANA & 05000316
 AUTH. NAME AUTHOR AFFILIATION
 MALONEY, G.P. INDIANA & MICHIGAN POWER CO.
 RECIP. NAME RECIPIENT AFFILIATION
 DENTON, H.R. OFFICE OF NUCLEAR REACTOR REGULATION

SUBJECT: ADVISES OF REMOVAL OF FOXBORO TRANSMITTERS ON PRESSURIZER
 PRESSURE & STEAM GENERATOR STEAM FLOW APPLICATIONS AS
 IDENTIFIED IN 780601. TRANSMITTERS WILL BE REPLACED DURING
 CURRENT REFUELING OUTAGE & NO LATER THAN OCT-NOV 1979.

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INDIANA & MICHIGAN POWER COMPANY

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

May 4, 1979

AEP:NRC:00142

Donald C. Cook Nuclear Plant Units 1 and 2
Docket Nos. 50-315 and 50-316
License Nos. DPR-58 and DPR-74
Replacement of Safety Related Transmitters

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

Dear Mr. Denton:

Please be advised that we will remove the Foxboro Transmitters on the pressurizer pressure and steam generator steam flow applications, identified in Transmittal No. AEP:NRC:00021 dated June 1, 1978. We will replace these transmitters during the current refueling outage on Unit 1, and no later than the next refueling outage currently contemplated for October-November 1979 on Unit 2. For this replacement we have selected Barton Model 763 and 764 electronic transmitters.

The replacement of the Foxboro transmitters with Barton Transmitters rather than the Rosemount's discussed in our transmittal letter of June 1, 1978, is based on the fact that the Barton transmitter output signal is 10-50 ma, therefore, circuit changes would not be required; that the Barton transmitters used for steam generator level, pressurizer level, and reactor coolant pressure were qualified for post accident monitoring and were installed on Unit 2 prior to start-up, and will be installed on Unit 1 during the current refueling outage and that by purchasing the Barton transmitters through Westinghouse Electric Corporation we are further assured that the acceptance criteria for output signal accuracy fully conforms to the Westinghouse Accident Analysis. In addition, the use of Barton transmitters would not require the preparation and use of additional maintenance and surveillance specifications. Also, their use would reduce stocking of another manufacturer's spare parts.

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All of the Barton transmitters which will be installed in Unit No. 1 have been received from Barton production Lot No. 2 with the exception of the Pressurizer Pressure Transmitters which were produced as part of Lot No. 1.

The differences between Lot No. 1 and Lot No. 2 transmitters are outlined below:

- (1) The Motorola amplifier used in the manufacture of the Barton Lot No. 1 transmitters was not available for Lot No. 2. Following notification, by Motorola, that their amplifier was to be discontinued, Barton initiated a search, before Lot No. 2 production began, for an alternative vendor. Barton also conducted an extensive testing program, which lasted for many months, to qualify the component used in the production of Lot No. 2 transmitters.
- (2) The selected replacement radiation-hardened amplifier is manufactured by the Semi-Conductor Division of the Harris Corporation. The difference in size and shape of the component, compared to the original Motorola device, required a modified board layout and spacing.
- (3) Chemical composition changes have been implemented in the circuit board for improved temperature rating, and terminals with PVC jacketing have been changed to bare terminals to eliminate any possibility of chlorine gas formation.

Changes implemented in the Lot No. 2 transmitters are limited to modifications in the unit electronics. The sensing unit, casing, sealing mechanisms, etc. remain unchanged. Preliminary tests by Barton have indicated that the modifications, thus introduced, do not compromise the performance capabilities demonstrated for the Lot No. 1 transmitters. The Lot No. 2 transmitters will also be subject to the Westinghouse Qualification test starting April 30, 1979. This testing is expected to be completed by September 10, 1979 with the report completion scheduled for early November, 1979.

The Westinghouse Electric Corporation has advised us that adequate assurance is available as to the performance capabilities of the Lot No. 2

Mr. Harold R. Denton, Director

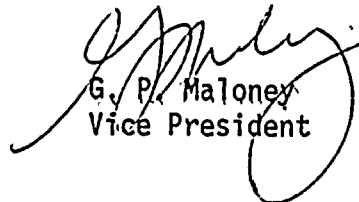
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AEP:NRC:00142

transmitters which permits installation of these devices prior to completion of the forthcoming Westinghouse Lot No. 2 test.

Very truly yours,

GPM:em


G. P. Maloney
Vice President

Sworn and subscribed to before me
this 4th day of May, 1979 in
New York County, New York


Notary Public

KATHLEEN BARRY
NOTARY PUBLIC, State of New York
No. 41-866782
Qualified in Queens County
Certificate filed in New York County
Commission expires March 30, 1981

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