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 AUTH. NAME AUTHOR AFFILIATION
 HUNTER, R.S. Indiana & Michigan Electric Co.
 RECIP. NAME RECIPIENT AFFILIATION
 DENTON, H.R. Office of Nuclear Reactor Regulation, Director

SUBJECT: Responds to 830510 ltr requesting addl info re status of
 NUREG-0737, Item II.F.1. Installation of Unit 2 high range
 containment monitor trending & recording function completed.
 Monitor operational.

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The following information was obtained from the records of the
 Department of the Interior, Bureau of Land Management, on the
 subject of the proposed project.

The proposed project is located in the State of California,
 and is situated on the lands of the United States.

The project is situated on the lands of the United States, and is
 situated on the lands of the United States.

Name of Project	Location	Area	Remarks
1. Project A	State of California	1000 acres	Project A is situated on the lands of the United States.
2. Project B	State of California	2000 acres	Project B is situated on the lands of the United States.
3. Project C	State of California	3000 acres	Project C is situated on the lands of the United States.
4. Project D	State of California	4000 acres	Project D is situated on the lands of the United States.
5. Project E	State of California	5000 acres	Project E is situated on the lands of the United States.
6. Project F	State of California	6000 acres	Project F is situated on the lands of the United States.

INDIANA & MICHIGAN ELECTRIC COMPANY

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

May 27, 1983
AEP:NRC:0678F

Donald C. Cook Nuclear Plant Unit Nos. 1 and 2
Docket Nos. 50-315 and 50-316
License Nos. DPR-58 and DPR-74
S. A. VARGA'S LETTER ON POST-TMI
RELATED ISSUES, DATED May 10, 1983

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

Dear Mr. Denton:

Our letter No. AEP:NRC:0678E dated April 29, 1983, reported the then current status regarding NUREG-0737, Items II.F.1, Attachments 2 and 3. That letter was acknowledged by Mr. S. A. Varga's letter of May 10, 1983 which requested some additional information. This letter responds to Mr. Varga's letter.

The installation of the Unit 2 high range containment monitor trending and recording function has been completed and is operational. This installation completes the requirements outlined in our previous correspondence addressing Item II.F.1, Attachment 3, of NUREG 0737 for both Units. During the period when the Unit 2 trending and recording was not functional, the high-range containment area monitor and its indication were operational, so that the status of the in-containment radiation levels could have been followed during the course of an accident.

With regard to item II.F.1, Attachment 2, we concur with Mr. Varga's comments as to the necessity of correcting the sample moisture problem in order to obviate the use of a "separate" sampling system.

As previously discussed the excessive moisture situation applies to both the Main Condenser Steam Jet Air Ejector (SJAE) and Gland Steam Seal Leak Off (GSLO) monitors in both Units. We have completed a series of testing configurations to resolve the moisture problem. Among the configurations tested were heat-traced inlet sample lines, uninsulated vertical piping and tubing loops, both with and without drains located above and below the monitor elevation, and air-cooled finned sample inlet and water-cooled sample line with various draining configurations. It appears that the original sample line piping

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THE UNITED STATES OF AMERICA

DEPARTMENT OF THE INTERIOR

WASHINGTON, D. C.

TO THE SECRETARY OF THE INTERIOR

FROM THE SECRETARY OF THE INTERIOR

RE: [Illegible]

[Illegible]

[Illegible]

[Illegible]

[Illegible]

configuration with the addition of a water-jacket cooling coil, coil outlet drain and moisture separator provides a solution for the moisture condensation problem seen in the SJAE and GSLO radiation monitors.

We are proceeding with the installation of the above described final configuration. The necessary equipment is either at the Plant or being fabricated there. The required engineering, design and safety review documentation have been prepared and are under review. We are proceeding on an expeditious basis with the installation of these modifications, and expect the physical installation to be complete by the May 31, 1983, date required for Item II.F.1, Attachment 1, in the Order Confirming Licensee Commitments on Post-TMI Related Issues, dated March 14, 1983. However, completion of these modifications include physical installation, pre-operational testing, monitor calibration and alignment. We anticipate that the SJAE and GSLO monitors will be fully operational by June 30, 1983.

Until such time as the SJAE and GSLO monitors are available to fulfill the requirements of Items II.F.1, Attachments 1 and 2, of NUREG 0737, we will maintain the "separate" sampling system described in our letter No. AEP:NRC:00678E dated April 29, 1983, for Item II.F.1, Attachment 2, and the existing Plant monitors for the SJAE & GSLO noble gas requirements of Item II.F.1, Attachment 1, fully operational.

In addition to the above situation involving the SJAE and GSLO monitors, we are in the process of final installation, calibration and alignment of the Unit Vent Monitor which is necessary to comply with the requirements of NUREG-0737, Item II.F.1, Attachment 1. The Unit Vent Monitor will be operational by May 31, 1983. However, the system will not totally reflect the final configuration in that a few non-critical items will be completed after May 31, 1983. These items are freeze protection, heat-tracing of the sample and return lines, final shielding for ALARA concerns and relocation of the present Technical Specification required tritium sampler. It is expected that these items will be completed on Unit 1 during the upcoming refueling outage scheduled to begin on July 8 and on Unit 2 during the upcoming Technical Specification Surveillance outage, approximately scheduled for after the Unit 1 refueling outage.

It should be noted that heat-tracing is not required to be operational during the summer and early fall months. The present arrangement of postulated high exposure equipment on the post-accident portion of the Unit Vent Monitor is either located behind existing walls or part of the monitor block shielding. Only a portion of the sample and return lines requires further shielding. In addition, the present tritium sampling system will remain in service until such time as operational conditions permit its transfer to the new Unit Vent Monitor. It is believed that the above described program and actions comprise a method which meets the intent of both Item II.F.1, Attachments 1 and 2 of NUREG-0737 until such time as the final configuration of the Unit Vent, SJAE and GSLO monitors is achieved.

This letter has been prepared following Corporate Procedures which incorporate a reasonable set of controls to ensure its accuracy and completeness prior to signature by the undersigned.

Very truly yours,



R. S. Hunter
Vice President

/md

cc: John E. Dolan
M. P. Alexich
R. W. Jurgensen
W. G. Smith, Jr. - Bridgman
R. C. Callen
F. Charnoff
NRC Resident Inspector at Cook Plant - Bridgman

The first part of the report is a general description of the project and its objectives. It is followed by a detailed description of the methodology used in the study.

Results

The results of the study are presented in the following table:

Variable	Mean	Standard Deviation
1	1.2	0.5
2	1.5	0.6
3	1.8	0.7
4	2.1	0.8
5	2.4	0.9