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 AUTH. NAME AUTHOR AFFILIATION
 ALEXICH, M. P. Indiana & Michigan Electric Co.
 RECIP. NAME RECIPIENT AFFILIATION
 DENTON, H. R. Office of Nuclear Reactor Regulation, Director (post B51125)

SUBJECT: Forwards "PING/SPING Particulate, Iodine & Noble Gas Monitor
 Detector Sys Tech Spec," discussing current noble gas
 monitoring sys, per NUREG-0737 Section II.F.1-1. Concurrence
 w/sys requested.

^{SEE RPTS}
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INDIANA & MICHIGAN ELECTRIC COMPANY

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April 14, 1986
AEP:NRC:0678U

Donald C. Cook Nuclear Plant Unit Nos. 1 and 2
Docket Nos. 50-315 and 50-316
License Nos. DPR-58 and DPR-74
NUREG-0737, II.F.1-1 NOBLE GAS MONITORING
SYSTEM TECHNICAL REPORT

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

Dear Mr. Denton:

Per Item III of our letter AEP:NRC:0678S, dated February 19, 1986, enclosed is the Eberline Instrument Corporation technical report titled "PING/SPING Particulate, Iodine and Noble Gas Monitor Detector System Technical Specification."

The purpose of this report is to discuss the current noble gas monitoring system at the Donald C. Cook Nuclear Plant with respect to NUREG-0737, Section II.F.1-1. For each channel of the noble gas monitor, the report contains detailed information on the detector system mechanical design, sensitivity, range, linearity and energy response and methods of primary and user calibration.

We believe, based on this report, that the noble gas monitoring system meets the requirements of NUREG-0737, Section II.F.1-1. Therefore, we request concurrence from the NRC that the detector's range capability, sensitivity, and linearity are sufficient and that further primary calibration of our system is not necessary.

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

Very truly yours,

8604210103 860414
PDR ADOCK 05000315
PDR

M. P. Alexich
Vice President

MPA/rjn

cc: John E. Dolan
W. G. Smith, Jr. - Bridgman
G. Bruchmann
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October 31, 1986

Mr. Jim Leichner
American Electric Power Service Corporation
1 Riverside Plaza
Columbus, OH 43216-6631

RE: *SPING TECHNICAL SPECIFICATIONS*

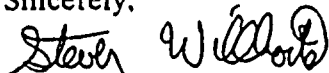
Dear Mr. Leichner:

This letter is submitted in response to your request for verification that the February 1986 report entitled "PING/SPING Particulate Iodine and Noble Gas Monitor Detector Systems Technical Specification" is applicable to the SPING monitors installed at D.C. Cook.

I have reviewed the contents of this report and can state that the D.C. Cook SPING monitors, while not having the full complement of options discussed in the report, are still capable of meeting the requirements of NUREG 0737 as discussed in section I of this report. The installation of the solid-state mass flow sensor option does not change the linearity, energy response or sensitivity of the monitoring channels.

I will point out that Eberline has spent almost two years collecting additional data on these detector systems to better understand their response to gamma and beta radiations over a wide range of energies. When this data has been completely evaluated, the Technical Specification report in question will be revised and re-issued. In particular the energy response of the beta scintillation detector will be changed significantly. Some of the reported sensitivities of gas channels may also change. These revisions, which should be available in early 1987, are not expected to affect the applicability of these monitors with respect to NUREG 0737. The final report should give users the necessary information to better predict the detector response to various gaseous isotopic mixtures.

Sincerely,



Steven B. Willhoite
Systems Sales Manager