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 RECIP. NAME RECIPIENT AFFILIATION  
 DENTON, H. R. Office of Nuclear Reactor Regulation

SUBJECT: Discusses monitoring of containment radiation in context of  
 purge sys operation. Design justified in using control grade  
 radiation monitoring equipment since containment ventilation  
 isolation not relying solely on monitor initiating signals.

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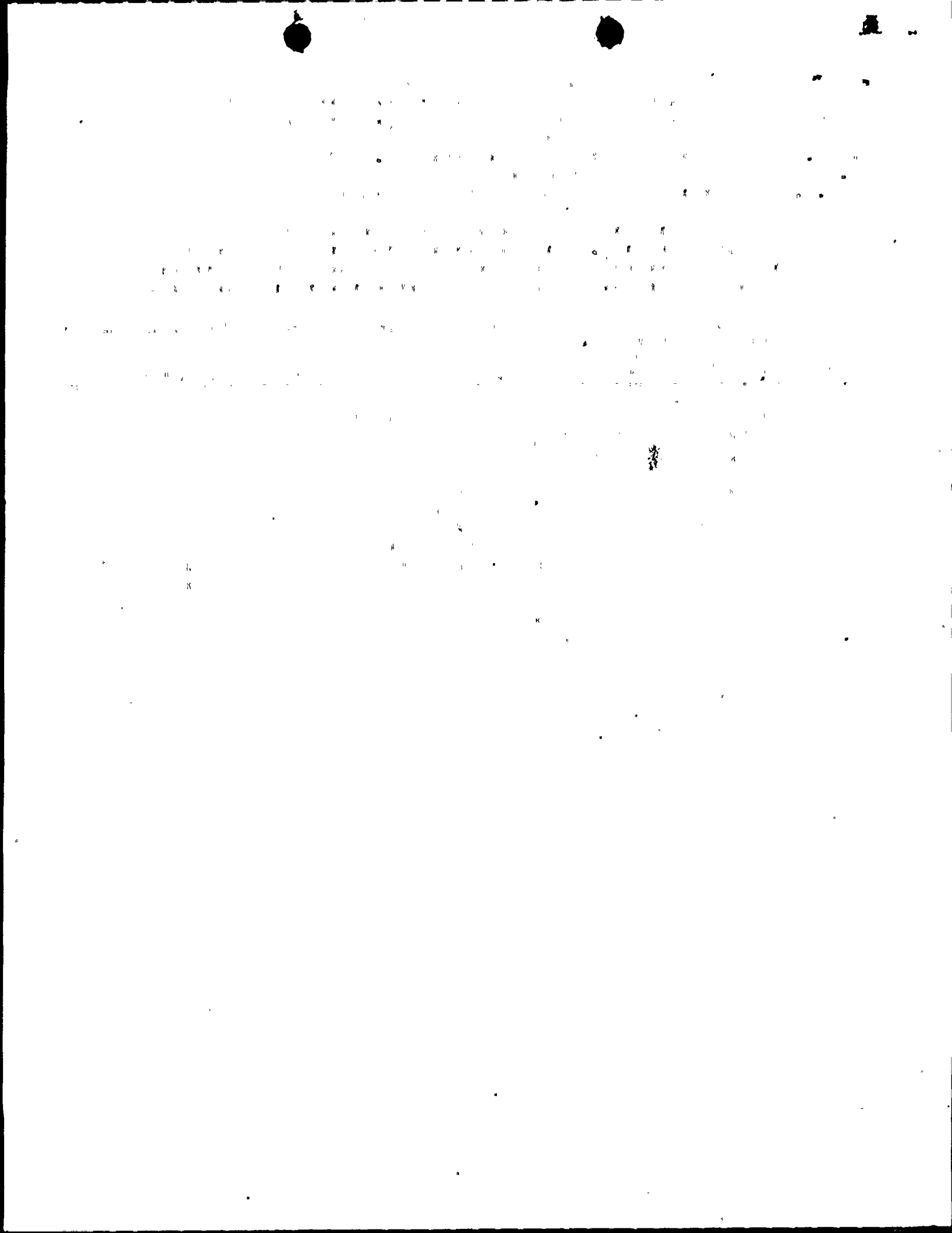
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# INDIANA & MICHIGAN ELECTRIC COMPANY

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December 5, 1979  
AEP:NRC:00295A

Donald C. Cook Nuclear Plant Units 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:

This letter responds to a request from members of your staff for information concerning the monitoring of containment radiation in the context of the purge system operation.

At the Cook Plant, a Containment Ventilation Isolation signal closes the purge supply and exhaust and containment pressure relief lines. Containment Ventilation Isolation is initiated automatically by:

- a. Safety Injection Signal derived from the Reactor Protection System and/or "Containment Pressure - High" at 1.2 psi.
- b. Phase A - Containment Isolation Signal
- c. High Containment Radiation derived from any of the following monitors:
  - i) Containment Air Particulate Monitor
  - ii) Containment Radiogas Monitor
  - iii) Containment Air Monitor

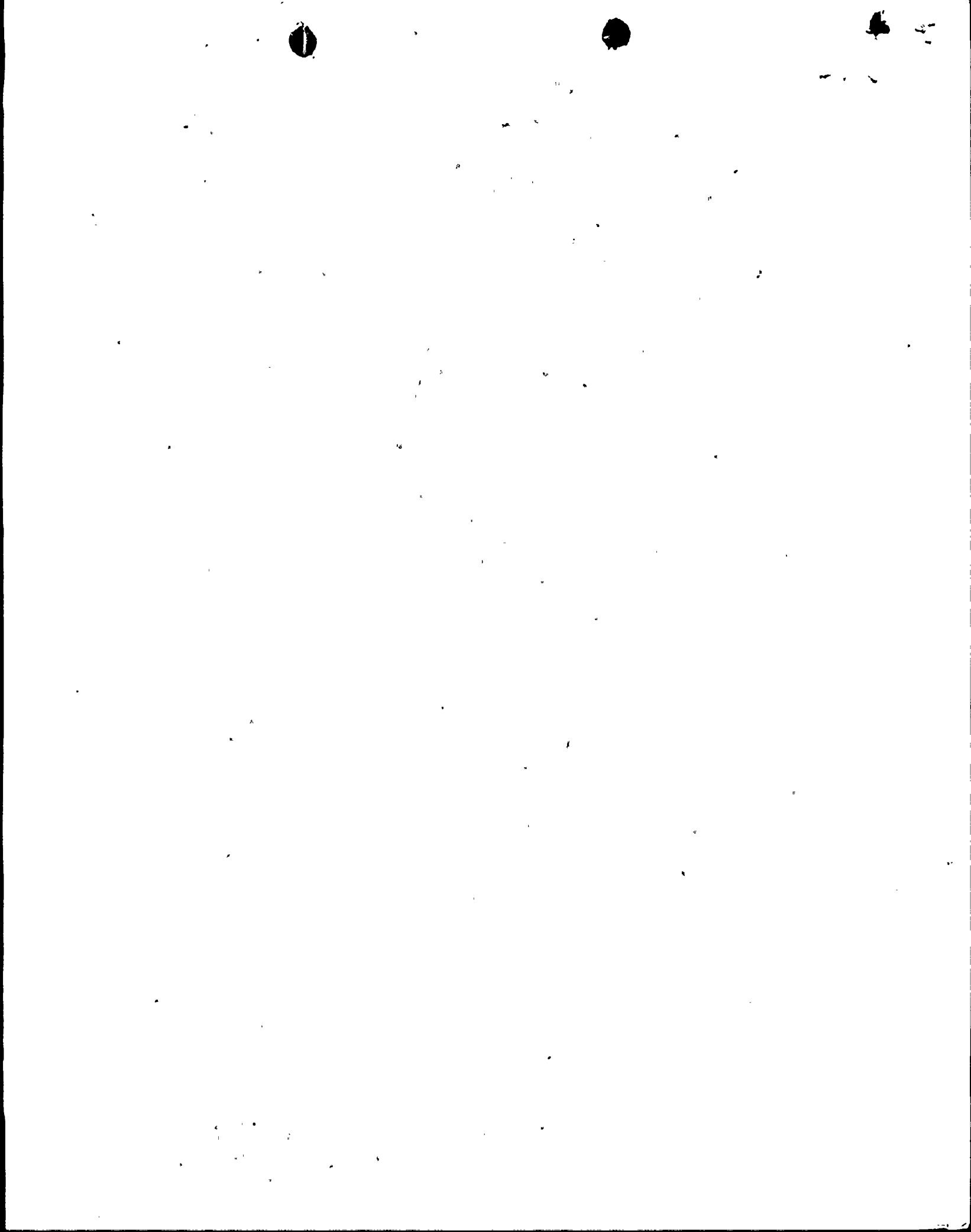
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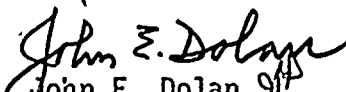


The containment radiation monitors, while they do cause purge system isolation, are not a part of the safeguards system at Cook Plant. As such they have been designed as control grade instrumentation. Our Technical Specifications require these monitors to be operable as a pre-requisite for purging the containment. The Technical Specifications also require frequent surveillance of the channels.

The radiation monitor inputs are provided in the design as an additional means of enhancing the overall defense-in-depth philosophy already provided by other multiple inputs. FSAR sections 7.5 and 11.3 provide further descriptive information pertaining to the containment radiation monitoring function.

Containment Ventilation Isolation does not rely solely on initiating signals from the subject radiation monitors. Therefore, the Cook Plant design is justified in utilizing control grade radiation monitoring equipment. However, we are performing a design review in accordance with the requirements of NUREG-0578 as indicated in our letters dated October 24, 1979 (AEP:NRC:00253) and November 26, 1979 (AEP:NRC:00253A). We also understand that the NRC Staff is performing a similar generic review. Any changes to the present design suggested by these reviews will be considered for implementation.

Very truly yours,

  
John E. Dolan  
Vice President

JED:em

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



Mr. Harold R. Denton, Director

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AEP:NRC:00295A

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