

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

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 AUTH. NAME: AUTHOR AFFILIATION
 MINECK, D. L. Iowa Electric Light & Power Co.
 RECIP. NAME: RECIPIENT AFFILIATION
 DENTON, H. Office of Nuclear Reactor Regulation, Director

SUBJECT: RO: on 820107, control room received offgas stack sample hi/
 low flow alarm. Caused by ice forming in offgas sample return
 line & improper location of temp sensor. Return line thawed,
 sample flow verified & temp sensor relocated.

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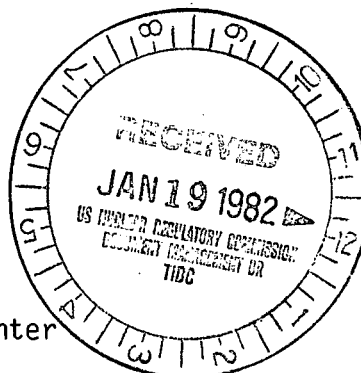
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Iowa Electric Light and Power Company

January 15, 1982

DAEC-82-30

Mr. Harold Denton, Director
Office of Nuclear Reactor Regulation
U. S. Nuclear Regulatory Commission
1717 H. Street N.W.
Washington, D. C. 20545



Re: Duane Arnold Energy Center

Subject: Environmental Technical Specification
Violation Report 82-1

File: A-117, TE-4

Dear Mr. Denton:

This report is submitted in accordance with the requirements of Appendix B to Operating License DPR-49, Specification 3.3.1.C.1.a.

Problem

On January 7, 1982, during normal plant operation, the control room received an offgas stack sample hi/low flow alarm. A 10-hour limiting condition for operation (LCO) was entered and a normal orderly plant shutdown was initiated as required by DAEC Technical Specifications, Appendix B, Section 2.3.1.C.8, for an inoperable offgas stack radiation monitor.

Investigation

It was determined that the offgas sample return line to the offgas stack was plugged due to ice forming in the line. Although this return line is provided with heat tracing and insulation, the temperature sensor which controls the heat tracing was mounted in a location which prevented it from sensing the temperature of the least protected section of the offgas sample return line.

Corrective Action

The offgas return line was thawed which cleared the offgas sample hi/low flow alarm. The line was drained of water and sample flow was verified. With the offgas radiation monitor once again operable, the 10-hour LCO was ended 3.7 hours into the LCO.

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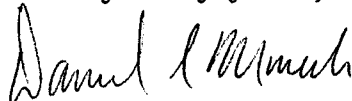
Mr. Harold Denton
January 15, 1982
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During the 3.7 hours that the offgas stack radiation monitor was inoperable, the radiation activity levels measured by the reactor building exhaust monitors and the offgas pre- and post-treatment monitors remained constant. In addition, the activity levels measured by the offgas stack radiation monitor before and after it was inoperable were identical. For these reasons it is assumed that the radioactivity release rate through the offgas stack remained unchanged during the 3.7 hours that the offgas stack radiation monitor was inoperable.

The temperature sensor which controls the heat tracing on the offgas sample return line was relocated so that it senses the temperature of the coldest section of the sample return line.

This report has been reviewed and approved by the DAEC Operations Committee and Safety Committee.

Very truly yours,



Daniel L. Mineck
Chief Engineer
Duane Arnold Energy Center

DLM/DMV/p1

cc: J. Keppler

U. S. Nuclear Regulatory Commission
c/o Document Management Branch
Washington, D. C. 20555 (1)

Resident NRC Inspector - DAEC