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(2-76)

U.S. NUCLEAR REGULATORY COMMISSION

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50-331

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FILE NUMBER

TO: Mr. Edson . Case

FROM: Iowa Electric Light & Power Co.  
Cedar Rapids, IA 52406  
Ellery L. Hammond

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8/5/77

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PLANT NAME:  
Duane Arnold Energy Center (2-P)  
VT 8/15/77

ENCLOSURE

Licensee Event Report #50-331/77-4 on 7/29/77 concerning Off-Gas stack monitors which were found to be indicating downscale.

SAFETY		FOR ACTION/INFORMATION	
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# IOWA ELECTRIC LIGHT AND POWER COMPANY

DUANE ARNOLD ENERGY CENTER  
P. O. Box 351  
Cedar Rapids, Iowa 52406  
August 5, 1977  
DAEC - 77-403

50-331

Regulatory

ELECTRIC

Mr. Edson G. Case, Acting 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 77-4  
FILE: A-117

Dear Mr. Case:

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

## PROBLEM:

On July 29, 1977 an Off-Gas stack sample high/low flow alarm was received and a check of the Off-Gas stack monitors revealed they were indicating downscale.

## INVESTIGATION

The Off-Gas stack monitors were determined to be indicating downscale due to the Off-Gas vacuum pump, 1P-247, being stopped. The pump was disassembled and found to be inoperable due to a carbon vane being broken in the pump. The most probable cause of the broken vane was random failure. The pump was out of service for approximately three (3) hours while repairs were being effected.

## CORRECTIVE ACTION

All the carbon vanes in the pump were replaced with new like-for-like vanes. The pump was reassembled, tested with satisfactory results and returned to service. During the period the pump was out of service no power changes were made and the Off-Gas pre-treatment and post-treatment monitors indicated no change in activity levels. Off-Gas releases were, therefore, assumed to be constant.

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Mr. Edson G. Case, Acting Director  
Page 2  
August 5, 1977

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

Very truly yours,



Ellery L. Hammond  
Chief Engineer  
Duane Arnold Energy Center

ELH/mg

cc: J. Keppler, NRC

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