

# IOWA ELECTRIC LIGHT AND POWER COMPANY

DUANE ARNOLD ENERGY CENTER  
P. O. Box 351  
Cedar Rapids, Iowa 52406

February 12, 1979  
DAEC - 79 - 20

Mr. James G. Keppler, Director  
Office of Inspection and Enforcement  
Region III  
U.S. Nuclear Regulatory Commission  
799 Roosevelt Road  
Glen Ellyn, Illinois 60137

Subject: Unique Report 78-1  
File: A-118

Dear Mr. Keppler:

This report is submitted in accordance with the requirements of Appendix A to Operating License DPR-49, Specification 6.11.3.

### Problem

On November 15, 1978 during an inspection of the HPCI turbine performed as a result of a vendor recommendation, the turbine was found to have two reversing chambers with sections broken and missing, three reversing chambers with crack indications and two reversing chamber retaining cap screws with the heads missing. In addition, two small dents were found on the turbine rotor on two rotor blades.

### Cause

The vendor, Terry Steam Turbine Company, currently has a laboratory analysis being performed on the broken and cracked parts to determine the cause of failure. An update to this report will be submitted when the results of this analysis are available.

### Corrective Action

All of the HPCI turbine reversing chambers were replaced with new reversing chambers received from the vendor. All the new chambers were dye fluorescent checked by the vendor prior to shipment. All of the reversing chamber retaining

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cap screws were replaced with a new type made from a stainless steel alloy. The two small rotor blade dents were examined by the vendor and were determined to have no detrimental effect on turbine rotor integrity.

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

Very truly yours,



Ellery L. Hammond  
Chief Engineer  
Duane Arnold Energy Center

ELH/JVS/nf