

04/07/78

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SUBJECT:

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LICENSEE EVENT REPT #78-015 CONCERNING SUPPRESSION POOL MINIMUM AND MAXIMUM
WATER LEVEL SETTINGS RESULTING IN THE IDENTIFICATION OF A SLIGHTLY
NON-CONSERVATIVE VOLUMETRIC LEVEL SETTING.

PLANT NAME: DUANE ARNOLD

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(DISTRIBUTION CODE A002)

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D. Lanham
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IOWA ELECTRIC LIGHT AND POWER COMPANY

DUANE ARNOLD ENERGY CENTER
P. O. Box 351
Cedar Rapids, Iowa 52406
March 31, 1978
DAEC - 78 - 197

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

50-331

Subject: Licensee Event Report No. 78-015
(14 day)

File: A-118a

Dear Mr. Keppler:

In accordance with Appendix A to Operating License DPR-49, Technical Specifications and Bases for Duane Arnold Energy Center and Regulatory Guide 10.1, please find attached a copy of the subject Licensee Event Report. (Total of 3 copies transmitted)

Very truly yours,

B. R. Clark / for

Ellery L. Hammond
Chief Engineer
Duane Arnold Energy Center

Docket 50-331

attachment

ELH/DLW/nf

cc: Director, Office of Inspection and Enforcement (40)
U. S. Nuclear Regulatory Commission
Washington, D.C. 20555

Director, Management Information and Program Control (3)
U. S. Nuclear Regulatory Commission
Washington, D.C. 20555

APR 3 1978

LICENSEE EVENT REPORT

CONTROL BLOCK: (PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

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01 | L | 6 | 0 | 5 | 0 | 0 | 0 | 3 | 3 | 1 | 7 | 0 | 3 | 1 | 7 | 7 | 8 | 8 | 0 | 3 | 3 | 1 | 7 | 8 | 9

02 | A special review of the suppression pool minimum and maximum water level
03 | settings resulted in the identification of a slightly non-conservative
04 | volumetric level setting per T.S. 3.7.A.1.a & b. The above referenced
05 | level settings did not account for the volume of submerged structural
06 | steel nor volumetric differences with regard to a 1.32 PSID drywell to
07 | torus pressure operational requirement. This volumetric differential
08 | was calculated at approximately 710 cubic feet of water.

09 | S | A | 11 | A | 12 | X | 13 | V | E | S | S | E | L | 14 | E | 15 | Z | 16 | 17 | 7 | 8 | 18 | 0 | 1 | 5 | 19 | T | 20 | 0 | 21 | Z | 22 | 0 | 0 | 0 | 0 | 23 | N | 24 | N | 25 | G | 0 | 8 | 0 | 26

10 | Personnel error. Design drawing for torus level settings inadvertently
11 | not changed when design changes made involving addition of submerged sup
12 | port steel and drywell to torus differential operating pressure. Appropr
13 | iate design drawings and instrument settings will be changed. Operating
14 | limits for torus level have been changed to compensate for discrepancy.

15 | E | 28 | 0 | 9 | 2 | 29 | NA | 30 | A | 31 | Plant Data Verification | 32

16 | Z | 33 | Z | 34 | NA | 35 | NA | 36

17 | 0 | 0 | 0 | 0 | 37 | Z | 38 | NA | 39

18 | 0 | 0 | 0 | 0 | 40 | NA | 41

19 | Z | 42 | NA | 43

20 | N | 44 | NA | 45

DONNE ARNOLD ENERGY CENTER

Iowa Electric Light and Power Company

LICENSEE EVENT REPORT-Supplemental Data

Docket Number 050-0331

Licensee Event Report Date: March 31, 1978

Reportable Occurrence No: LER 78-015

Event Description

As a result of data verification for the Mark I containment engineering study, it was determined that there had been no suppression pool volumetric allowance made for submerged support steel and drywell to torus differential pressure. It was determined that submerged steel would account for an approximate 325 cubic feet of volumetric loss and drywell to torus differential pressure accounted for another 385 cubic feet of volumetric loss at 1.3 PSID. This total of 710 cubic feet resulted in an approximate 1 3/16 inch error in torus water level.

Cause Description

When design changes were completed involving installation of additional support steel and a pump back system for drywell to torus differential pressure, torus level design drawings were inadvertently not changed to reflect volumetric water losses. Therefore, operating limits and torus level instrumentation did not account for slight water volume losses resulting from the design changes.

Corrective Action

Revisions to the appropriate design drawings have been initiated. Revised torus level operating limits are in effect. Torus level instrumentation will be changed when the design drawings are revised.