

## PROPOSED CHANGE RTS-118 TO DAEC TECHNICAL SPECIFICATIONS

### I. Affected Technical Specifications

Appendix A of the Technical Specifications for the DAEC (DPR-49) provides as follows:

The present Technical Specifications contain Limiting Conditions for Operation and Surveillance Requirements for a differential pressure of 1.3 psid to be maintained between the drywell and the pressure suppression chamber.

### II. Proposed Changes in Technical Specifications

The licensees of DPR-49 propose the following changes in the Technical Specifications set forth in I above:

Revise the differential pressure requirement to "1.10 psid" instead of "1.30 psid" in paragraph 3.7.A.7.a.

### III. Justification for Proposed Change

In accordance with the Mark I Containment Long Term Program, Iowa Electric is shortening the DAEC downcomers to a 3.0 foot submergence. A differential pressure of 1.30 psid cannot be maintained with this reduced submergence. The shortening of the downcomers combined with a 1.10 psid results in a 9% reduction in downward loads, and a 10% reduction in upward loads from that reported in our application of November 3, 1976 (IE-76-1694).

### IV. Review Procedure

This proposed change has been reviewed by the DAEC Operations Committee and Safety Committee which have found that this proposed change does not involve a significant hazards consideration.

## LIMITING CONDITIONS FOR OPERATION

must be taken out of power operation.

7. Drywell-Suppression Chamber Differential Pressure

- a. Differential pressure between the drywell and suppression chamber shall be maintained at equal to or greater than 1.10 psid except as specified in (1) and (2) below:
  - (1) Within the 24-hour period subsequent to placing the reactor in the Run Mode following a shutdown, the differential shall be established. The differential may be decreased to less than 1.10 psid 24 hours prior to a scheduled shutdown.
  - (2) This differential may be decreased to less than 1.10 psid for a maximum of four hours during required operability testing of the HPCI system pump, the RCIC system pump, the drywell-pressure suppression chamber vacuum breakers, and the suppression chamber to reactor building vacuum breakers.
- b. If the differential pressure of specification 3.7.A.7.a cannot be maintained, and the differential pressure cannot be restored within the subsequent six (6) hour period, an orderly shutdown shall be initiated and the reactor shall be in the Cold Shutdown condition within the following 24 hours.

## SURVEILLANCE REQUIREMENTS

functionally tested once per operating cycle in conjunction with specification 4.7.A.6.a. Should one of the two H<sub>2</sub> or O<sub>2</sub> analyzers serving the drywell or suppression pool be found inoperable, the remaining analyzer of the same type serving the same compartment shall be tested for operability once per week until the defective analyzer is made operable.

7. Drywell-Suppression Chamber Differential Pressure

- a. The pressure differential between the drywell and suppression chamber shall be recorded at least once each shift.

DSB

Iowa Electric Light and Power Company

February 7, 1980

DAEC - 80 - 72

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

Subject: Licensee Event Report No. 80-001  
(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,



Daniel L. Mineck  
Chief Engineer  
Duane Arnold Energy Center

Docket 50-331

attachment

DLM/JCZ/n

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

APP  
2  
FEB 11 1980

1002  
5/11

LICENSEE EVENT REPORT

CONTROL BLOCK: 

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 ① (PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

0 1 8 9 I A D A C 1 2 0 0 - 0 0 0 0 0 0 - 0 0 3 4 1 1 1 1 1 1 4 5 7 CAT 58

LICENSEE CODE LICENSE NUMBER LICENSE TYPE

CON'T

0	1
7	8

REPORT SOURCE

60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80				
	6	0	5	0	0	0	3	3	1	7	0	1	2	4	8	0	8	0	2	0	7	8	0	9

DOCKET NUMBER

EVENT DATE

REPORT DATE

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

02 While performing daily surveillance on the containment atmospheric dilution system oxygen analyzers, AN-8181A sensing element was found to be flooded with apparent condensation from the sample line and inoperable. At this time AN-8181B was being rejuvenated and therefore inoperable. Operation with both analyzers inoperative violates T.S. 3.7.A.6.c. No similar event reports have been submitted.

0 8		SYSTEM CODE		CAUSE CODE		CAUSE SUBCODE		COMPONENT CODE				COMP. SUBCODE		VALVE SUBCODE	
7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
0	9	S	E	X		X		I	N	S	T	E		Z	
7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
(17) LER/RO REPORT NUMBER		EVENT YEAR		SEQUENTIAL REPORT NO.		OCCURRENCE CODE		REPORT TYPE		REVISION NO.					
23		24		25		26		27		28		29		30	
8 0		0 0 1		0 0 1		0 1		T		0					
21		22		23		24		25		26		27		28	
ACTION TAKEN		FUTURE ACTION		EFFECT ON PLANT		SHUTDOWN METHOD		HOURS		ATTACHMENT SUBMITTED		NPRO-4 FORM SUB.		PRIME COMP. SUPPLIER	
29		30		31		32		33		34		35		36	
E		Z		B		Z		0 0 0 9		Y		N		A	
29		30		31		32		33		34		35		36	
18		19		20		21		22		23		24		25	
27		28		29		30		31		32		33		34	
37		38		39		40		41		42		43		44	
D		0		9		6									
45		46		47		48		49		50		51		52	

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

1 0 Cause unknown. AN-8181A is manufactured by Delphi (Model No. A2A-1A1).

1 1 An orderly shutdown was commenced immediately. AN-8181B was subsequent

1 2 ly returned to service thus meeting the limiting conditions for operat

1 3 ion. AN-8181A was subsequently repaired. Cause is considered indetermin

1 4 ate.

FACILITY STATUS		% POWER		OTHER STATUS (30)		METHOD OF DISCOVERY		DISCOVERY DESCRIPTION (32)					
1	5	E	(28)	0	8	1	(29)	NA	(30)	B	(31)	Surveillance Testing	(32)

ACTIVITY CONTENT  
RELEASED OF RELEASE AMOUNT OF ACTIVITY (35)

1 6 7 (33) 7 (34) NA

2 3 9 10 11 44

LOCATION OF RELEASE (36)

NA

45 80

PERSONNEL EXPOSURES									
NUMBER			TYPE	DESCRIPTION					
1	7	0	0	0	(37) Z (38) NA	(39)			

PERSONNEL INJURIES	
NUMBER	DESCRIPTION
000	NA

1		2		3		4		5		6		7		8		9		10		11		12	
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PUBLICITY										NRC USE ONLY											
ISSUED		DESCRIPTION																			
2	0	N	NA																		
7	8	9	10																		

NAME OF PREPARER J. C. Zimmerman

PHONE: 319-851-5611

DUANE ARNOLD ENERGY CENTER

Iowa Electric Light and Power Company

LICENSEE EVENT REPORT-Supplemental Data

Docket No. 050-0331

Licensee Event Report Date: 2-07-80

Reportable Occurrence No: 80-001

Event Description

At 1730 on January 24, 1980 while performing daily checks on the containment atmospheric dilution system oxygen analyzers, AN-8181A was found to be inoperable due to condensation build up in the sensing element. At this time, AN-8181B was being rejuvenated, and therefore, also inoperable. Power operation with both analyzers out of service violates T.S.3.7.A.b.c. No similar event reports have been submitted.

Cause

The cause of the sensor flooding is unknown and considered indeterminate.

Corrective Action

An orderly shutdown was commenced immediately. AN-8181B was subsequently returned to service thus meeting the applicable Limiting Conditions for Operation. AN-8181A was subsequently repaired. No further corrective action is planned at this time.