

(PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35

0 1 I A D A C 1 ② 0 0 - 0 0 0 0 0 0 - 0 0 ③ 4 1 1 1 1 1 ④ ⑤

LICENSEE CODE LICENSE NUMBER LICENSE TYPE CAT Sd

CONT

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REPORT SOURCE

L	6	0	15	0	0	0	3	3	1	7	0	3	0	2	8	2	3	0	4	0	1	3	2	9
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COCKET NUMBER

EVENT DATE

REPORT DATE

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

02 | During normal operation while performing surveillance testing on the sta
03 | ndby gas treatment (SBGT) system charcoal bed deluge system, the "A" SBG
04 | T system charcoal bed was found to be wet. As required by Technical Spec
05 | ification 3.7.B.3, a 7-day limiting condition for operation (LCO) was en
06 | tered. The redundant train of the SBGT system was operable. The 7-day LCO
07 | ended after 5.8 days when the "A" SBGT system was made operable. There
08 | have been no previous similar occurrences.

0	9	SYSTEM CODE S C 11		CAUSE CODE E 12	CAUSE SUBCODE B 13	COMPONENT CODE V A L V E X 14		COMP SUBCODE E 15	VALVE SUBCODE D 16
7	8	9	10	11	12	13	18	19	20
LER/RO REPORT NUMBER 17		EVENT YEAR 8 2 21 22			SEQUENTIAL REPORTING 0 2 1 24 26		OCCURRENC. CODE 0 3 28 29	REPORT TYPE L 30	REVISION NO. 0 32
ACTION TAKEN B 18		FUTURE ACTION F 19		EFFECT ON PLANT Z 20		SHUTDOWN METHOD Z 21		HOURS 0 0 0 0 22	
33		34		35		36		37	
ATTACHMENT SUBMITTED Y 23		NPRO-4 FORM SUB. N 24		PRIME COMP. SUPPLIER A 25		COMPONENT MANUFACTURER F 1 3 0 26		40	
41		42		43		44		47	

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

1 0 | Water in the "A" SBT charcoal bed was caused by leaking deluge valve CV
1 1 | -5837A and plugged orifice in the deluge drain line. Contributing cause
1 2 | is the design of drain line piping. CV-5837A was reworked and orifice cl
1 3 | eared. Charcoal in "A" SBT charcoal bed was replaced. "A" SBT was test
1 4 | ed sat. and made operable. Drain line piping design review planned.

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

7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
ACTIVITY CONTENT										AMOUNT OF ACTIVITY (35)										LOCATION OF RELEASE (36)																																	
RELEASED OF RELEASE																																																					

7	8	9	10	11	44
6	7	33	7	34	NA

PERSONNEL EXPOSURES

NUMBER	TYPE	DESCRIPTION	39
45			NA
46			
47			
48			
49			
50			

1 7 0 0 0 37 Z 38 NA

PERSONNEL INJURIES

80

NUMBER		DESCRIPTION	
1	4	000	NA

1		2		3		4		5		6		7		8		9		10		11		12		13		14		15		16		17		18		19		20		21		22		23		24		25		26		27		28		29		30		31		32		33		34		35		36		37		38		39		40		41		42		43		44		45		46		47		48		49		50		51		52		53		54		55		56		57		58		59		60		61		62		63		64		65		66		67		68		69		70		71		72		73		74		75		76		77		78		79		80		81		82		83		84		85		86		87		88		89		90		91		92		93		94		95		96		97		98		99		100	
1		2		3		4		5		6		7		8		9		10		11		12		13		14		15		16		17		18		19		20		21		22		23		24		25		26		27		28		29		30		31		32		33		34		35		36		37		38		39		40		41		42		43		44		45		46		47		48		49		50		51		52		53		54		55		56		57		58		59		60		61		62		63		64		65		66		67		68		69		70		71		72		73		74		75		76		77		78		79		80		81		82		83		84		85		86		87		88		89		90		91		92		93		94		95		96		97		98		99		100	

8 9 10

PUBLICITY

ISSUED DESCRIPTION

B204120272 B20401
PDR ADOCK 05000331

NAC USE ONLY

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David M. Varner

NAME OF PREPARER David M. Varner

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: 4-1-82

Reportable Occurrence No.: 82-021

Event Description:

During normal operation while performing surveillance testing on the standby gas treatment (SBGT) system charcoal bed deluge system, the "A" SBGT system charcoal bed was found to be wet. As required by Technical Specification 3.7.B.3, a 7-day limiting condition for operation (LCO) was entered. During the surveillance test, the level of charcoal in the "A" SBGT charcoal bed was found to be above the level of the deluge nozzles. When the excess charcoal was removed to inspect the deluge nozzles, it was discovered that the charcoal bed was wet. The redundant train of the SBGT system was operable. The 7-day LCO was ended after 5.8 days when the "A" SBGT system was made operable. There have been no previous similar occurrences.

Cause Description:

The water in the "A" SBGT system charcoal bed was caused by leaking charcoal bed deluge valve CV-5837A. In addition, the orifice in the deluge drain line downstream of the leaking valve was plugged which prevented the valve leakage from draining. A contributing cause of the wet charcoal bed is the design of the deluge system piping. Because the deluge drain line is located at the same elevation as the deluge nozzle header, leakage from the deluge valve would not be drained before reaching the deluge nozzle elevation.

Corrective Action:

Deluge valve CV-5837A was reworked to correct the leakage and the orifice in the deluge drain line was cleared. The charcoal in the "A" SBGT system charcoal bed was replaced. After these repairs, the "A" SBGT system was functionally tested satisfactorily and made operable. To preclude recurrence, a design review will be performed to consider changes to the deluge piping to both trains of the SBGT system charcoal beds. Potential changes include rerouting the deluge drain line to a low point in the piping downstream of the deluge valve and enlarging the orifice diameter in the deluge drain line.