

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 8009030463 DOC. DATE: 80/08/29 NOTAR D: NO DOCKET #
 FACIL: 50-261 H. B. Robinson Plant, Unit 2, Carolina Power and Light 05000261
 AUTH. NAME: AUTHOR AFFILIATION
 STARKEY, R.B. Carolina Power & Light Co.
 RECIP. NAME: RECIPIENT AFFILIATION
 Region 2, Atlanta, Office of the Director

SUBJECT: LER 80-017/03L-0: on 800730, while performing air flow test,
 CPL-PT-24.0, positioner on Grad-U-Motor failed to function
 properly. Caused by accumulation of moisture in air supply
 line. Grad-U-Motor & positioner were removed from svc.

DISTRIBUTION CODE: A002S COPIES RECEIVED: LTR 1 ENCL 1 SIZE: 1x2
 TITLE: Incident Reports

NOTES:

ACTION:	RECIPIENT		COPIES		RECIPIENT	COPIES	
	ID CODE/NAME		LTTR	ENCL		ID CODE/NAME	LTTR
	VARGA, S.	04	3	3			
INTERNAL:	A/D COMP&STRU06		1	1	A/D ENV TECH 07	1	1
	A/D MATL & QU08		1	1	A/D OP REACT009	1	1
	A/D PLANT SYS10		1	1	A/D RAD PROT 11	1	1
	A/D SFTY ASSE12		1	1	A/D TECHNOLOG13	1	1
	ACC EVAL BR 14		1	1	AEOD	1	1
	ASLBP/J, HARD		1	1	AUX SYS BR 15	1	1
	CHEM ENG BR 16		1	1	CONT SYS BR 17	1	1
	CORE PERF BR 18		1	1	D/DIR, HUM FAC19	1	1
	DIR, ENGINEERI20		1	1	DIR, HUM FAC S21	1	1
	DIR, SYS INTEG22		1	1	EFF TR SYS BR23	1	1
	EMERG PREP 24		1	1	EQUIP QUAL BR25	1	1
	GEOSCIENCES 26		1	1	HUM FACT ENG 27	1	1
	HYD/GEO BR 28		1	1	I&C SYS BR 29	1	1
	I&E 05		2	2	JORDAN, E./IE	1	1
	LIC GUID BR 30		1	1	LIC QUAL BR 31	1	1
	MATL ENG BR 32		1	1	MECH ENG BR 33	1	1
	MPA		3	3	NRC PDR 02	1	1
	OP EX EVAL BR34		3	3	OR ASSESS BR 35	1	1
	POWER SYS BR 36		1	1	PROC/TST REV 37	1	1
	QA BR 38		1	1	RAD ASSESS BR39	1	1
	REACT SYS BR 40		1	1	REG FILE 01	1	1
	REL & RISK A 41		1	1	SFTY PROG EVA42	1	1
	SIT ANAL BR 43		1	1	STRUCT ENG BR44	1	1
	SYS INTERAC B45		1	1			
EXTERNAL:	ACRS	46	16	16	LPDR	03	1
	NSIC	05	1	1	TERA: DOUG MAY		1

SEP 4 1980
 - ADAMS

TOTAL NUMBER OF COPIES REQUIRED: LTTR 74 ENCL 74

LICENSEE EVENT REPORT

CONTROL BLOCK:

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
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

 (1) (PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

0	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
---	---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

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
LICENSEE CODE LICENSE NUMBER LICENSE TYPE 57 CAT 58

CON'T

0	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
---	---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

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
REPORT SOURCE DOCKET NUMBER EVENT DATE REPORT DATE

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

0 2 | On July 30, 1980, while performing the air flow test, CPL-PT-24.0, on the Control

0 3 | Room Emergency Ventilation System, HVE-19, the positioner on the Grad-U-Motor failed

0 4 | to function properly. The positioner and Grad-U-Motor regulate the position of the

0 5 | Discharge Damper which controls the airflow rate through the fan. The damper was

0 6 | repaired and fan returned to service within three days. The three days out of

0 7 | service resulted in a degraded mode permitted by Technical Specification 3.15.1.a

0 8 | and is reportable in accordance with Technical Specification 6.9.2.b(2).

0	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
---	---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

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
SYSTEM CODE CAUSE CODE CAUSE SUBCODE COMPONENT CODE COMP. SUBCODE VALVE SUBCODE
S G B C M O T O R X L Z
LER/RO REPORT NUMBER EVENT YEAR SEQUENTIAL REPORT NO. OCCURRENCE CODE REPORT TYPE REVISION NO.
8 0 0 1 7 0 3 L 0
ACTION TAKEN FUTURE ACTION EFFECT ON PLANT SHUTDOWN METHOD HOURS ATTACHMENT SUBMITTED NPRD-4 FORM SUB. PRIME COMP. SUPPLIER COMPONENT MANUFACTURER
B F Z Z 0 0 0 0 Y N A H 2 6 0

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

1 0 | The failure of the positioner was due to an accumulation of moisture in the air

1 1 | supply line. The positioner and Grad-U-Motor were removed from service. The

1 2 | positioner was disassembled, inspected, cleaned, reassembled and then tested.

1 3 | After several cycles of successful operation, the positioner and Grad-U-Motor

1 4 | were reinstalled and the system was put back in service and tested satisfactorily.

1 4 | A modification is being developed to install an air dryer in the supply air line.

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
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

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
FACILITY STATUS % POWER OTHER STATUS METHOD OF DISCOVERY DISCOVERY DESCRIPTION
E 0 7 0 NA B Periodic Test
ACTIVITY CONTENT RELEASED OF RELEASE AMOUNT OF ACTIVITY LOCATION OF RELEASE
Z Z NA NA
PERSONNEL EXPOSURES NUMBER TYPE DESCRIPTION
0 0 0 Z NA
PERSONNEL INJURIES NUMBER DESCRIPTION
0 0 0 NA
LOSS OF OR DAMAGE TO FACILITY TYPE DESCRIPTION
Z NA
PUBICITY ISSUED DESCRIPTION
N NA

NAME OF PREPARER R. B. Starkey, Jr.

PHONE: (803) 383-4524

SUPPLEMENTAL INFORMATION

FOR

LICENSEE EVENT REPORT 80-017

Cause Description and Analysis:

On July 30, 1980, while performing the air flow test (PT-24.0) on the Control Room Emergency Ventilation System (HVE-19), measurements of the airflow rate were below the limit stated in Technical Specification 4.14.1.a. Upon investigation, it was discovered that the fan's discharge damper was not fully open. This event resulted in a degraded mode permitted by Technical Specification 3.15.1.a and is reportable pursuant to Technical Specification 6.9.2.b(2).

The failure of the damper to fully open was attributed to the positioner on the Grad-U-Motor. Examination of the positioner revealed an excessive accumulation of moisture which occurred over a period of a year and originated from the air supply line. It was determined that this moisture had prevented the proper operation of the positioner.

Corrective Action:

Immediately after discovering the problem, the positioner was removed from the Grad-U-Motor and inspected for damage. The positioner was cleaned, reassembled and stroked. After several successful operations of the damper and obtaining the proper fan flow, the system was placed back in service. The repair was completed within three days. Therefore the seven day out of service limit as stated in Technical Specification 3.15.1.a was not exceeded by this occurrence.

Corrective Action to Prevent Further Occurrences:

At the present time the plant is shut down for the annual refueling outage. A modification is under development to install an air dryer in the supply air line. This dryer will be installed prior to startup. The guidelines of PT-24.0 will continue to be used as they have in the past in order to detect such occurrences.