REGULATORY FORMATION DISTRIBUTION SYMPEM (RIDS)

ACCESSION NBR:	8708130177 DOC. DATE: 87/08/10 NOTARIZED: NO	DOCKET #
FACIL: 50-251	Turkey Point Plant, Unit 4, Florida Power and Light C	05000251
AUTH. NAME	AUTHOR AFFILIATION	
HART, R. D.	Florida Power & Light Co.	
WOODY, C. O.	Florida Power & Light Co.	
RECIP. NAME	RECIPIENT AFFILIATION	

SUBJECT: LER 87-013-00: on 870710, Tech Spec 3.5-2, Item 3.2b exceeded requirements. Caused by failure of relay 327TX4C2 in undervoltage protection scheme for 4C 480 volt load ctr. Relay 327TX/4C2 replaced. W/870810 ltr.

DISTRIBUTION CODE: IE22D COPIES RECEIVED:LTR <u>|</u> ENCL <u>|</u> SIZE: <u>+</u> TITLE: 50.73 Licensee Event Report (LER), Incident Rpt, etc.

NOTES:

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	NRR/DLPQ/QAB	1	1	NRR/DOEA/EAB	i	1
	NRR/DREP/RAB	1	1	NRR/DREP/RPB	2	2
	NRR/PMAS/ILRB	1	1	REG FILE 02	i	1
	RES DEPY GI	1	1	RES TELFORD, J	i	1
	RES/DE/EIB	1	1	RGN2 FILE 01	i	1
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NRC Form 366A	VENT PORT (LER) TEXT CONTINU	JATION U.S. NUCLEAR REGULATORY COMMISSION APPROVED OMB NO. 3150-0104 EXPIRES: 8/31/88
FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6) PAGE (3)
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TEXT (If more space is required, use additional NRC Form 305A's) (17)

EVENT:

On July 10, 1987, the requirements of Technical Specification (TS) Table 3.5-2, item 3.2.b were exceeded. At 1430 during the performance of operating procedure (OP) 9404.2, 4160 volt and 480 volt switchgear - undervoltage test, the undervoltage protection circuit for the 4C 480 volt load center would not pass the test. The red indicating light did not come on as required by the procedure. This channel was declared out of service and the Electrical Maintenance Department was requested to investigate the occurrence. They discovered that relay 327TX4C2 had failed. This relay is one of two instantaneous relays that sense undervoltage on the 4C 480 volt load center. TS section 3.5, Table 3.5-2 (Engineered Safety Features Actuation), item 3.2.b requires that for the 480V load centers, power operation may continue with one channel inoperable as long as the inoperable channel is placed in the tripped condition. Operations attempted to place the channel in the tripped mode but were unable to do this because of the relay failure and the design of the circuit. TS Table 3.5-2, item 3.2.b does not provide an action statement for this condition. This required Unit 4 to be placed into TS 3.0.1 which requires the unit to be in hot standby in 7 hours. Electrical Maintenance replaced relay 327TX4C2 at 1523. OP 9404.2 was recommenced and the replaced relay was satisfactorily tested at 1528. This took the unit out of TS 3.0.1.

CAUSE OF EVENT:

The cause of the event was a failure of relay 327TX/4C2 in the undervoltage protection scheme for the 4C 480 volt load center.

ANALYSIS OF EVENT:

Upon identification of the failure, the affected relay was replaced and returned to service within 1 hour so no unit shutdown was commenced. Our Engineering Department has been requested to evaluate this failure to determine root cause, appropriate corrective actions and the safety significance of this event. Should this evaluation significantly change the information provided in this LER, a LER update will be sent accordingly.

CORRECTIVE ACTIONS:

- 1) Relay 327TX/4C2 was replaced and satisfactorily tested within 1 hour of the initial failure.
- 2) Our Engineering Department has been requested to evaluate this concern to assist in identifying the root cause and appropriate corrective actions. Engineering will schedule the completion of this request in accordance with the Integrated Schedule.

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ADDITIONAL DETAILS:

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The affected relay is manufactured by General Electric and is model number CR120BD04341.

Similar Occurrences: none

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P. O. BO214000, JUNO BEACH, FL 33408



AUGUSTI 1 0 1987 L-87-328 10 CFR 50.73

U. S. Nuclear Regulatory Commission Attn: Document Control Desk Washington, D. C. 20555

Gentlemen:

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Re: Turkey Point Unit 4 Docket No. 50-251 Reportable Event: 87-13 Date of Event: July 10, 1987 Technical Specification 3.0.1 Entered When 480 Volt Undervoltage Relay Failed Periodic Testing

The attached Licensee Event Report is being submitted pursuant to the requirements of 10 CFR 50.73 to provide notification of the subject event.

Very truly yours,

C. O. Wood Group Vice President Nuclear Energy

COW/SDF/gp

Attachment

cc: Dr. J. Nelson Grace, Regional Administrator, Region II, USNRC Senior Resident Inspector, USNRC, Turkey Point Plant