

Power Reactor

Event # 40364

Site: <u>SUMMER</u>		Notification Date / Time: 12/01/2003 14:37 (EST)				
Unit: 1	Region: 2	State : SC	Event Date / Time: 10/03/2003 (EST)			
Reactor Type: [1] W-3-LP		Last Modification: 12/01/2003				
Containment Type: DRY AMB						
NRC Notified by: JEFF PEASE		Notifications: BRIAN BONSER R2				
HQ Ops Officer: JEFF ROTTON		WILLIAM BECKNER NRR				
Emergency Class: NON EMERGENCY		RICHARD CONTE R1				
10 CFR Section:		BRUCE BURGESS R3				
21.21	UNSPECIFIED PARAGRAPH	CLAUDE JOHNSON R4				
		JACK FOSTER NRR				
Unit	Scram Code	RX Crit	Init Power	Initial RX Mode	Curr Power	Current RX Mode
1	N	Yes	100	Power Operation	100	Power Operation

NONCOMFORMANCE NOTIFICATION FOR SOLID STATE PROTECTION MASTER RELAY

Failure of Master Relay K507 (MidTex Part Number 15614D200) in the Solid State Protection System (SSPS) was attributed to corrosion caused by off-gassing of chlorine contamination from paper used to wrap the relay coil, or the adhesive used to attach the paper wrap to the coil. Master Relays must change state, upon energization, to actuate various safety related equipment in the plant. The failure of Master Relay K507 is considered to be a manufacturing defect in a basic component that could cause a loss of safety function.

The majority of MidTex relays investigated had cloth wrapped coils and these relays showed no evidence of corrosion.

The number of affected relays and installed locations was not available at the time of the initial notification.

The licensee will notify the NRC Resident Inspector.

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SAP-1165
ATTACHMENT I
REVISION 1
PAGE 1 OF 1

- SUBSTANTIAL SAFETY HAZARD (SSH) EVALUATION TRACKING SHEET
* (TO BE COMPLETED WITHIN 60 DAYS OF INITIAL DISCOVERY)

1. GENERAL INFORMATION

Tracking Sheet Initiation Date 11/26/03

Number 03-0003 Discovery Date 10/03/03 * 60 Day Due Date 12/02/03

Reviewer M. G. Hicks

Topic Failure of SSPS Master Relay (MidTex P/N 156-14D200) due to chlorine based corrosion

How was topic first identified? NCN 03-3099

List correspondence, documents, telecons applicable to the determination of the SSH ** NCN 03-3099, Pentas Controls, Inc., FAL No. 069, Root Cause of Failure Analysis for Mid-Tex 156-14D200 Relays, dated 11/20/03

2. * DISPOSITION

Determined to be an SSH, reportable per 10CFR21: YES NO

12/1/03

Discussion/Justification: ** SSPS Master Relays must change state, upon energization, to actuate various safety related equipment in the plant. The Pentas Controls failure report referenced above attributes the failure of Master Relay K507 corrosion caused by off-gassing of chlorine contamination from paper used to wrap the relay coil, or the adhesive used to attach the paper wrap to the coil. Another MidTex P/N 156-14D200 relay with a paper wrapped coil, sent to Pentas for follow-up analysis, showed evidence of the same type of corrosion. Therefore, the failure of Master Relay K507 is considered to be a manufacturing defect in a basic component that could cause a loss of safety function.

This report is applicable only to MidTex relays with paper wrapped coils. The majority of MidTex relays investigated had cloth wrapped coils, and these relays showed no evidence of corrosion.

Signatures: Reviewer M. G. Hicks *M. G. Hicks* Date 11/26/03

Functional Manager AWO *AWO* Date 11/26/03

Manager, NL RB Clay *RB Clay* Date 12/1/03

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# Determined not to be an SSH (attach a statement of justification)		
Signature	Title	Date

3. Determined to be reportable per 10CFR21 by SVPNO:

5-Day Limit Due Date 12/6/03

SVPNO Signature *SVPNO*

Date 12/1/03 Time 1318

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4. NRC Informed - 2 Day Notification Of The Substantial Safety Hazard

Due Date 12/3/03

Notified by SCE&G (Name) Jeff Pease

NRC (Name) Jeff Patton

Date 12-1-03 Time 1437

NRC (Title) HQ operations officer

Applicable Correspondence ** EN 40364

5. NRC Informed - 30 Day Report of the Substantial Safety Hazard

Due Date _____

Letter to NRC _____

Dated _____

Applicable Correspondence ** _____

6. Program Tracking Document (e.g., CER, ECR, Etc.) ** _____

7. Closeout

Manager, NL: Signature _____

Date _____

Closed in RTS: Signature _____

Date _____

Transmitted to Records: Signature _____

Date _____

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* If the evaluation cannot be completed, an interim report must be submitted to the NRC by the 60 Day Due Date.

** Attach additional pages, TWRs, or other documentation as necessary.