ACCELERATED DISTRIBUTION DEMONSTRATION SYSTEM

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR:9112260255 DOC.DATE: 91/08/12 NOTARIZED: NO DOCKET #
FACIL:50-250 Turkey Point Plant, Unit 3, Florida Power and Light C 05000250
50-251 Turkey Point Plant, Unit 4, Florida Power and Light C 05000251
AUTH.NAME AUTHOR AFFILIATION
CHARLTON,M. Hub, Inc.
SMITH,M. Hub, Inc.
RECIP.NAME RECIPIENT AFFILIATION
Office of Nuclear Reactor Regulation, Director (Post 870411

SUBJECT: Part 21 rept re potential generic component defect in ASEA/ABB Type RXMH2 relays.Relays utilized in emergency diesel generator bus load sequences.Info gathering underway. Customers will be notified as soon as possible.

DISTRIBUTION CODE: IE19D COPIES RECEIVED:LTR 1 ENCL 0 SIZE: 2
TITLE: Part 21 Rept (50 DKT)

NOTES:

	RECIPIENT ID CODE/NAME	COPIES LTTR	COPIES ENCL	RECIPIENT ID CODE/NAME	COPIES LTTR	COPIES ENCL
	PD2-2 LA	1	0	PD2-2 PD	1	1
	AULUCK,R	1	1			
INTERNAL:	AEOD/DSP/ROAB	1	1	~~NRR/DOEA~~/OGCB11	2	2
	NRR/DRIS/RVIB9D	1	1	REG FILE 01	1	1
	RES/DSIR/EIB	1	1	RGN1	1	1
	RGN2	1	1	RGN3	1	1
	RGN4	1	1	RGN5	1	1
	SECY VANDERMEL	1	1			
EXTERNAL:	INPO RECORD CTR	1	1	NRC PDR	1	1
	NSIC SILVER,E	1	1			

RIDS/ADDS

RIDS/ADDS

NOTE TO ALL "RIDS" RECIPIENTS:

PLEASE HELP US TO REDUCE WASTE! CONTACT THE DOCUMENT CONTROL DESK, ROOM P1-37 (EXT. 20079) TO ELIMINATE YOUR NAME FROM DISTRIBUTION LISTS FOR DOCUMENTS YOU DON'T NEED!

TOTAL NUMBER OF COPIES REQUIRED: LTTR 18 ENCL ~~17~~ 0

TA 1

UNITED CONTROLS

August 12, 1991

Director, Office Of Nuclear Reactor Regulation
US Nuclear Regulatory Commission
Washington, D.C. 20555

Subject: Notification Of Potential Generic Detect Per 10CFR Part 21

Notification By: United Controls Division Of Hub, Inc.
1554 Litton Drive
Stone Mountain, Georgia 30083

Michael Charlton
Director Of Quality & Technical Services
(404) 496-0884

On August 10, 1991 at 6:00 p.m., the responsible officer at United Controls was notified of a potential generic component defect found during an inspection of ASEA/ABB Type RXMH2, Model RK223068-EA and RK223069-EA Relays at the Turkey Point Units 3 and 4.

Background:

The subject relays were purchased commercially in 1989, and dedicated by United Controls for nuclear safety related application. The qualification method was seismic and environmental testing performed at Wyle Laboratory. These relays are utilized in the Emergency Diesel Generator Bus Load Sequencers. Approximately 300 relays are needed in the Sequencer Panels. The initial relay failure was found during performance of a pre-operational test. Stripping Relay 12725/3B1 short circuited during this test. Preliminary analysis appeared to indicate coil failure as the result of inadequate insulation at the junction point between the coil and inner winding terminal. Investigation into this failure continued in an effort to determine if this apparent manufacturing defect was an isolated incident, or a more generic condition.

On August 10, 1991, representatives from ASEA/ABB Sweden performed an inspection of the subject relays at the Turkey Point Plant. The inspection was to establish the adequacy of the insulation tape placement on the coil leads. Improper coverage of the coil lead can cause the coil to short circuit the majority of the windings, resulting in an over current condition which renders the relay inoperable. Out of six randomly chosen relays, all were found to possess inadequate tape coverage of the coil lead. Although the relays examined are functionally operable, they would be subject to the same type of short circuit failure mechanism.

Corrective Action

At the Turkey Point, Units 3 and 4, Sequencers have not yet been turned over to plant operations. The units are currently in a defueled status. ASEA/ABB has stated that there is currently no known limitations on how many RK223068 and 069's may be affected. At this time, it must be assumed all of these model number relays may be affected. ASEA/ABB has further stated that no other model relay utilizes the same coil design. Therefore, the problem is limited only to the 068 and 069 Series.

United Controls is rapidly gathering information regarding other customers of dedicated safety related relays of the subject model. Notifications to these customers will be made as soon as reasonably achievable.

Prepared By: Michael Charlton Date: 8/12/91
Michael Charlton P.E.
Director of Quality &
Technical Services

Reviewed By: Martin Smith Date: 8/12/91
Martin Smith
President, Hub E&P

by
Donald H. Wenzel
GENERAL MANAGER

MC/vb

cc: S. Franzone / FP&L