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AUTH. NAME AUTHOR AFFILIATION
 NUDING, M. MKW Power Systems, Inc.
 RECIP. NAME RECIPIENT AFFILIATION
 MURLEY, T. Office of Nuclear Reactor Regulation (Post 941001)

SUBJECT: Part 21 rept re mechanical defect in shaft length of some
 HEA63 lockout relays mfg between 1990-94. Defect identified
 could possibly result in binding of front shaft. Suspect
 relays checked for date codes & replacement(s) ordered.

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MKW POWER SYSTEMS, Inc.



April 28, 1995

Thomas Murley
Director
Office of Nuclear Reactor Regulation
11555 Rockville Pike
Rockville, MD 20852

Reference: Report No. 10CFR21-0072

Subject: Reportable defect with General Electric HEA 63
lockout relay

Dear Mr. Murley:

MKW Power Systems' report 10CFR21-0072 is attached which addresses a 10CFR21 reportable defect with the General Electric type HEA63 lockout relay.

This report is also being mailed to Florida Power & Light - Turkey Point plant, our only customer affected by this notification.

Yours very truly,

MKW POWER SYSTEMS, INC.

Michael Nuding
General Manager - Quality Assurance

MN:dg

Enclosure

9505090038 950428
PDR ADDCK 05000250
S PDR

Report No. 10CFR21-0072
April 28, 1995


10CFR21 REPORTING OF DEFECTS
AND NON-COMPLIANCE

COMPONENT: General Electric HEA63 Lockout Relay
with electric reset

SYSTEM: Diesel Generator control system

CONCLUSION: Defect is Reportable in Accordance with 10CFR21

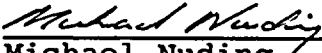
PREPARED BY:


Donald D. Galeazzi
Engineering Manager

DATE:

4/28/95

PREPARED BY:


Michael Nuding
General Manager, Quality Assurance

DATE:

April 28, 1995

SUMMARY

MKW Power Systems received notification on 4/24/95 from General Electric (see Exhibit 1) about a reported mechanical defect in the shaft length of some HEA63 lockout relays manufactured between 1990 and 1994. The problem was corrected in September 1994.

COMPONENTS

General Electric HEA63 lockout relay.

CUSTOMERS AFFECTED

Florida Power and Light - Turkey Point

MKW SO#	PART#	CUST PO#	SHIP-DATE	QTY
500148	12HEA63C240X2	B88636 90030	02-12-90	1
504216	12HEA63C240X2	C91663 90073	10-03-91	1
506834	12HEA63C240X2	C92659 90391	02-25-93	1
30122	12HEA63C240X2	C91663 90073	02-04-94	1

DEFECT

The defect has been identified as a short front shaft which connects the HEA handle to a floating coupling on the rotary solenoid. This can result in binding of the front shaft if it should disconnect from the rotary solenoid.

CORRECTIVE ACTION

- 1) Check the suspect HEA63 relays for the date codes listed below. The date codes are located on the back of the relay.

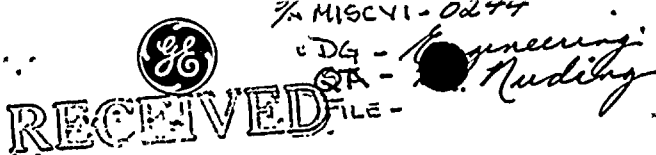
SUSPECT DATE CODES

YEAR	JN	FB	MR	AP	MY	JN	JL	AG	SP	OC	NV	DC
1990:	NE,	OE,	PE,	RE,	SE,	TE,	UE,	VE,	WE,	XE,	YE,	ZE
1991:	NF,	OF,	PF,	RF,	SF,	TF,	UF,	VF,	WF,	XF,	YF,	ZF
1992:	NG,	OG,	PG,	RG,	SG,	TG,	UG,	VG,	WG,	XG,	YG,	ZG
1993:	NH,	OH,	PH,	RH,	SH,	TH,	UH,	VH,	WH,	XH,	YH,	ZH
1994:	NI,	OI,	PI,	RI,	SI,	TI,	UI,	VI,	WI			

- 2) Perform the Inspection Procedure contained in Exhibit 1 on any relays identified as suspect in accordance with the above date codes. Order replacement shaft #0286A5616G1 to correct any relays found to be defective.

EXHIBIT 1
(1 page)

GENERAL ELECTRIC NOTIFICATION LETTER TO MKW POWER SYSTEMS



GE Protection
& Control

APR 2 1995

Protection & Control
General Electric Company
205 Great Valley Parkway, Malvern, PA 19355-1337

MKW POWER SYSTEMS, INC.

MKW POWER SYSTEMS, INC.

RELAY SERVICE ADVICE LETTER

APR 2 1995

Subject: HEA63 Lockout Relay

RECEIVED

Issued by: Customer Service
Prepared by: J. Kennedy

Number: 511.1
Date: April 10, 1995

One utility has reported an incident in which an HEA63 failed to operate. The HEA63 is a lockout relay with electric reset. The failure was caused by binding of the front shaft when it disconnected from the rotary solenoid used for resetting the HEA. The root cause was identified as a short front shaft. The front shaft connects the HEA handle to a floating coupling on the rotary solenoid. (These parts are used only in the electric reset model, HEA63). Manufacturing and inspection procedures were revised in September, 1994 to preclude a reoccurrence of this condition.

The utility later checked a large number of other HEA63 relays and found 10 with shafts short enough to potentially misoperate. Date codes found on the relays with short shafts covered the period between 1990 and 1994. These shafts are cut to length, per order, in our factory from long lengths of shaft material. Each one is individually measured and cut by a machine operator. Even though the problem is not generic, we are informing customers through this letter because of the critical role of the HEA in protection systems.

Users of HEA63 relays may choose to check for the condition described above using the inspection procedure given below. Only HEAs with electric reset need to be checked for this condition. This includes special models of the electric reset relay: HEA99AA, AC, AD, AK, AN, BB, BD, BH, BJ, BK, BL, BM, BN, and BR.

NOTE: HEA61 and HEA62 series relays are not electric reset. Therefore they are not affected by this service advice letter.

Inspection Procedure:

1. Check amount handle and front shaft can be rotated without rotating the coupling. (Use this information as reference for Step 5.)
2. Manually reset the relay.
3. Push handle firmly toward rear of relay. This will remove all slack along the axis of shaft. If handle bottoms on escutcheon, remove handle.
4. Pull shaft firmly toward front of relay. Reinstall handle, if removed.
5. Repeat Step 1. A significant increase in rotation, e.g., 15 - 90 degrees indicates the shaft may have disconnected from its coupling and has the potential to cause misoperation of the HEA.

Replacement shafts are available and can be ordered on a no-charge basis until May 1, 1996. Order one kit for each HEA found with a short shaft.

For models ending in X2: order kit 0286A5616G1
For models ending in X12: order kit 0286A5616G3
For models ending in X16: order kit 0286A5616G2
For models ending in X24: order kit 0286A5616G4

Field labor associated with this Service Advice Letter is the responsibility of the user.

