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AUTH. NAME	AUTHOR AFFILIATION	
GILL, T.	Science Applications International Corp. (formerly Science	T
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SUBJECT: Part 21 rept re 980427 possible defect in Cutler-Hammer 4 pole front attachments utilized on D26 relays. Caused by contact bridges turned upside down. Retraining of assembly personnel, updating procedures & checks on future lots.

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May 08, 1998

Document Control Desk
U.S. Nuclear Regulatory Commission
Washington, DC 20555

Subject: 10CFR21 notification of a possible defect in Cutler-Hammer 4 pole front attachments P/N: D26MF utilized on D26 Relays.

Reference: 1. Richard P. Dover Jr. (Duke Power) E-Mail to Fred Roy dated April 27, 1998.
2. SAIC/EGS phone conversation with Richard P. Dover Jr. on April 28, 1998.

To whom it may concern:

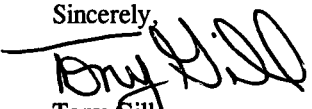
This letter is issued to inform you of a possible assembly defect in Cutler-Hammer four pole attachments, P/N: D26MF, utilized on D26 relays. On April 27, 1998, Duke Power notified EGS that they had found 2 ea. P/N: D26MF, four pole attachments, date codes 09961 and 07964, that had some or all of the contact bridges turned upside down, causing the thin bare copper strip instead of the silver plated pads to interface with the stationary contacts. This condition can potentially cause increased contact resistance and/or insufficient current carrying capabilities over time due to the degradation of the reverse side of the contact bridge.

Based on our discussions with Cutler-Hammer, Asheville, NC, it was learned that one four pole attachment was returned to them in October 1997 that had the same incorrect configuration as described above. Even though this was the only return they had received, they immediately implemented corrective actions to prevent recurrence. The corrective actions included retraining of Cutler-Hammer assembly personnel, updating procedures, and performing checks of future lots to verify this condition did not recur. No additional problems were found as a result of these checks. Additionally EGS confirmed that the unacceptable four pole attachments were manufactured in Asheville, NC. Asheville began assembling the subject four pole attachments in early 1995. Based on this information it is concluded that front attachments with five digit date codes identifying a date of manufacture between January 1995 thru October 1997 are suspect. A review of all shipments of relays supplied with D26MF four pole attachments was performed and all affected orders are identified on Attachment 1.

It is recommended that all four pole attachments supplied under the affected orders be visually inspected to verify proper contact bridge orientation. This can be done by removing the four pole attachment from the relay and removing the molded base and contact carrier exposing the contact bridges or by removing the stationary contacts and inspecting the contact bridges using a small flashlight (see disassembly instructions per Attachment 2).

If you have any questions or if additional information is required please do not hesitate in calling Mike Noblitt or the undersigned at (205) 722-8500.

Sincerely,


Tony Gill
Quality Assurance Manager
QA0508981043

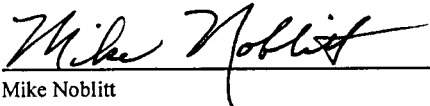
C: Wiley Finley, EGS Division Manager
Mike Noblitt, Program Manager

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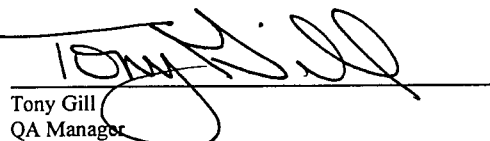
125 West Park Loop, Suite 200, Huntsville, Alabama 35806
(256) 722-8500 • (256) 722-8533 (FAX)

**CUTLER-HAMMER D26 TYPE M RELAYS PROVIDED
WITH
POTENTIALLY SUSPECT FRONT ATTACHMENTS(D26MF)**

CUSTOMER	CUST. PO	QTY	RELAY P/N	Date Code	S/N	Ship Date	J/N
GA. PWR.	70239830000 c/o 2	5	D26MR444A	11954	322-326	12/13/95	401.3
DUKE	CN 12520	10	D26MRD704A1	06961 05964	361-370	06/27/96	400.17
DUKE	CN 14853	3	D26MRD704A1	06961	387-389	09/20/96	400.20
GA. PWR.	70270900000	1	D26MR444A	09964	390	10/07/96	401.5
DUKE	MN 21373	2	D26MRD704A1	09961	399, 400	01/17/97	400.25
DUKE	CN 19365 c/o 1	43	D26MRD704A1	97024	403-432, 434-446	03/17/97	400.27
DUKE	ON 13203	5	D26MRD704A1	07964 09961 97052	469-473	06/09/97	400.24
DUKE	CN 23831	22	D26MRD704A1	97071	488-509	07/23/97	400.36


Mike Noblitt
Program Manager

5-7-98
Date


Tony Gill
QA Manager

5-7-98
Date

Attachment 1
Page 1 of 1



RENEWAL PARTS AND INSTRUCTIONS FOR FOUR POLE ATTACHMENT (TYPE M RELAY)

DESCRIPTION

This attachment provides for the addition of 4 normally open poles to either the 4 or 8 pole Type M Relay structures. No special adjustments are necessary when adding this attachment, but note that a stronger coil is required when mounting on the eight pole structure.

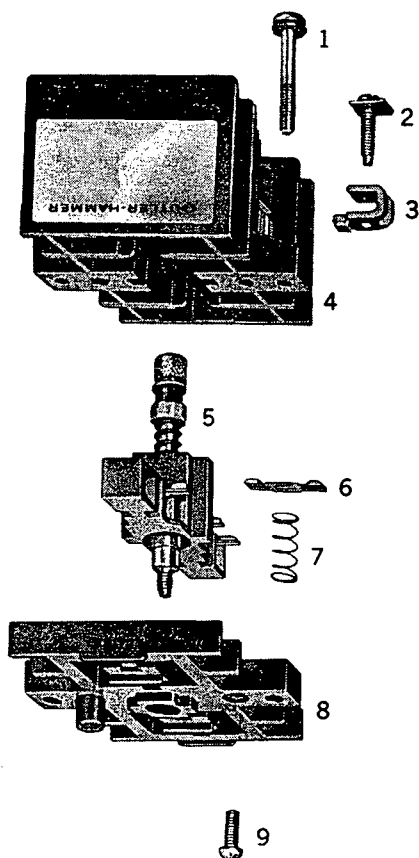
INSTALLATION

Remove the relay cover and pullrod and fasten the attachment in their place. Adaptor rods are provided with this accessory for the linkage connection which will couple the attachment to the relay. Thread the pullrod into the relay fully to complete the installation.

DISASSEMBLY

To remove the attachment from the relay merely backout the pullrod and mounting screws. Replace the relay cover plate if operation of relay must be continued. To remove contacts in the contact carrier (item 5) first remove holding screw (item 9) and molded base (item 8). To replace a contact bridge (item 6) depress bridge and spring (item 7) to clear retaining guide bar and slide the old bridge assembly out. Tweezers or similar tool will aid in replacing springs if this becomes necessary. To remove a stationary contact (item 3) first remove the terminal screw (item 2) completely before pulling contact from chamber. Where position is important parts have been keyed for proper alignment for all except the terminal screw pressure plates which must be oriented with the lip to the outside.

FOUR POLE ATTACHMENT



Item No.	Description of Part	No. Req'd	Part No.
1	Mounting screws	2	11-2494-2
2	Terminal screws	8	11-2336-4
3	Stationary Contact	8	23-3927
4	Molded Frame	1	99-849-10
5	Contact carrier (complete with items 6 and 7)	1	23-4231
	(Without items 6 and 7)		23-4231-2
6	Contact bridge	4	23-3951
7	Contact spring	4	69-2837
8	Molded base	1	49-4014
9	Screw (6-20x0.5)	1	11-2756

COIL TABLE

EXTRA STRENGTH COIL (Use With 8 Pole Structure Only).		
50 Hz	60 Hz	Part No.
110V	120V	9-1989-1
220V	240V	9-1989-2
440V	480V	9-1989-3
550V	600V	9-1989-4
—	208V	9-1989-9

To insure prompt handling of renewal parts orders, please include the following: **DESCRIPTION, PART NO., AND QUANTITY REQUIRED.**