



October 17, 1989

U.S. Nuclear Regulatory Commission
475 Allendale Road
King of Prussia, PA 19406

ATTN: Mr. William T. Russell
Regional Administrator, Region I

SUBJECT: Potential Defective Overload Relay Heaters -
Advisory Pursuant to 10 CFR 21 for Controllers
Utilizing Overload Relay Heaters Catalogued
G30T9 Through G30T16

Dear Mr. Russell:

Although Telemecanique Inc. has not been made aware of any failure in application of the above named overload relay heaters, or equipment failure resulting from malfunction of controllers in which these overload relay heaters have been applied, this advisory is being issued.

PRODUCT:

Overload Relay Heaters which are catalogued G30T9, G30T10, G30T11, G30T12, G30T12A, G30T13, G30T14, G30T15, or G30T16 and are used in conjunction with NEMA Size 1 Overload Relays supplied as part of controllers by Telemecanique Inc. Products manufactured during the time period 1987, 1988 and 1989 are the subject of this advisory. Bulk packages of heaters catalogued as indicated above may be date coded in the following form: year and week (Example 8821).

PROBLEM:

Weak resistance welded electrical connections were found in a small percentage of assemblies during an inspection of a large quantity of wire wound overload relay heaters issued from warehouse inventory. The weak welds were detected at the points of attachment of the heating element wire to the main sheet metal current carrying and terminal support components (Diagram E066, attached). Visual inspection can be used to identify heaters which have suspect welded connections.

VERIFICATION:

In some instances defective heaters may have been detected in installed control equipment during testing and pre-energization of equipment. In a three phase system, if two heaters were to have broken welds the equipment would not

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control equipment during testing and pre-energization of equipment. In a three phase system, if two heaters were to have broken welds the equipment would not operate. If one heater were to have an open connection, single-phasing would have occurred.

Verification of inventory of listed catalog numbers can be made by visual inspection. A properly welded wire will have been deformed by heat and pressure to approximately one-half the original wire diameter. Inspection should be made to visually verify flattened wire at the welds.

No other corrective action is required.

The above catalogued devices have been furnished to the sites identified in the attached list and each site is being notified by first class mail.

Sincerely,

Claudius C. Elmore
Quality Assurance Engineer

By the Authority of

M. M. Fenneteau
Quality Assurance Manager

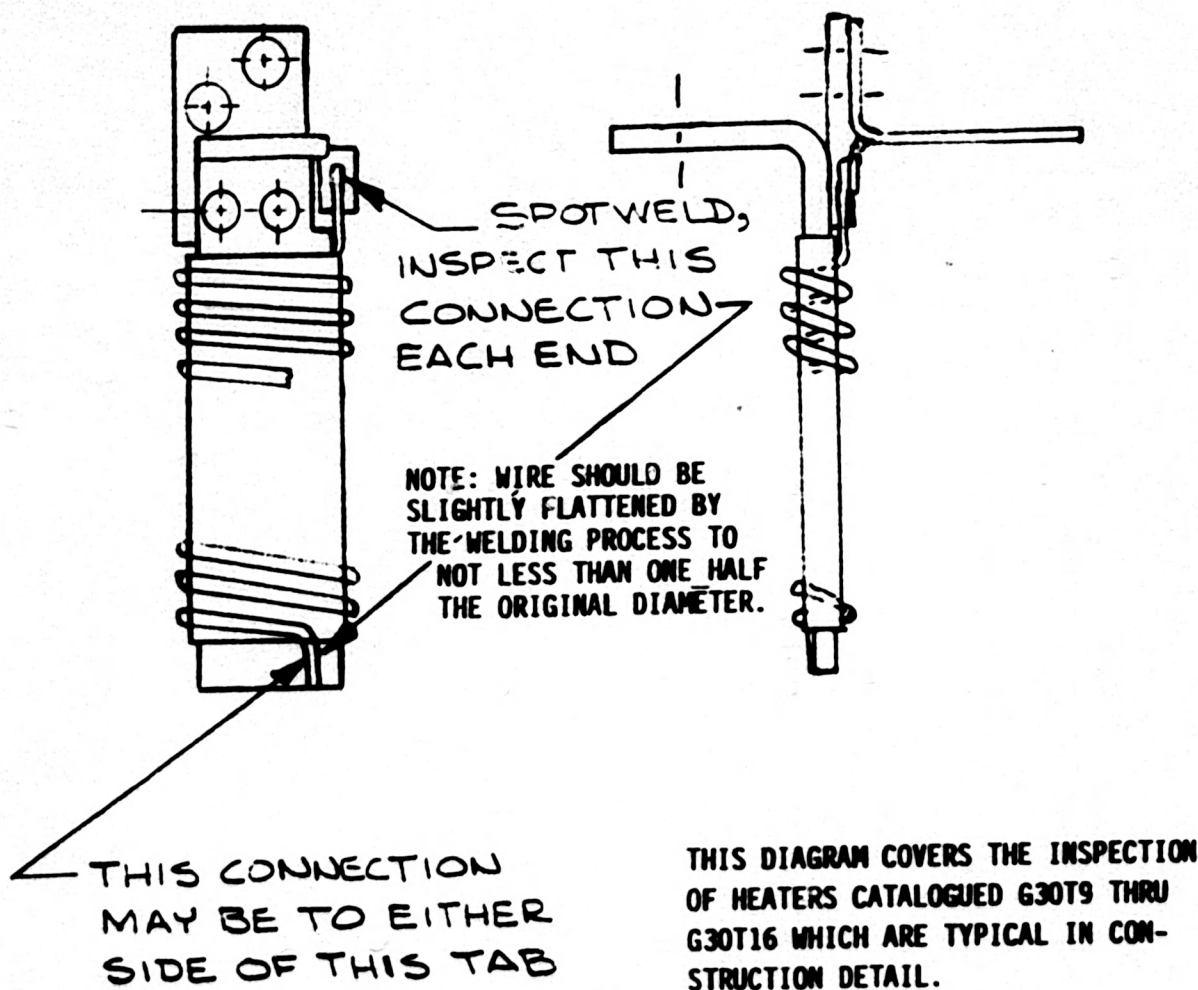
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Enclosure: Diagram E066



<u>Utility</u>	<u>Project</u>	<u>TE S.O. #</u>
Arkansas Power & Light Co.	Ark. Nuclear One	84-38435
Alabama Power Co.	Farley Nuclear	84-38662
Boston Edison Co.	Pilgrim 1	84-73734
Comision Federal De Electricidad	Laguna Verde	84-64019
Detroit Edison	Fermi 2	84-37493
Duquesne Light Co.	Beaver Valley	84-74076
Florida Power & Light Co.	Turkey Point	84-38437
Gulf States Utilities	Riverbend	84-51380/51381
Korea Electric Power Corp.	Korea Nuclear 5 & 6	84-71160
New Hampshire Yankee	Seabrook	84-55977
Northeast Utilities	Millstone	84-50100
Public Service Company of Colorado	Ft. St. Vrain	85-68155
Taiwan Power Co.	Tai Power Nuclear Units 5 & 6	84-62917 84-63296
Tennessee Valley Authority	Watts Bar	84-38480
Portland General Electric	Trojan	84-84896
Yankee Atomic Electric Co.	Rowe	84-36432
Baltimore Gas & Electric Co.	Calvert Cliffs	84-36693
Houston Lighting & Power Co.	South Texas	84-38419
Union Electric Co.	Callaway	84-38425
Wolf Creek Nuclear Operating Corp.	Wolf Creek	84-38418
Carolina Power & Light Co.	Shearon Harris	84-35170

Rev	Date	DRN	By	Approved	Rev	Date	DRN	By	Approved



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Material:

Scale:
NONE

Prod. Code

WIREWOUND OVERLOAD
RELAY HEATER ASS'Y.
TYPICAL T9 THRU T16

Surface Treatment:

TOLERANCES
Unless Otherwise Specified

Sheet metal Up to 10" $\pm .03$
10" to 60" $\pm .06$
Hole Punched $\pm .006$
Angle $\pm 1^\circ$
Per RDS 1006 ☐

NOTE: ALL DIMENSIONS TO BE AFTER PLATING

USED ON

Drawn
ELMORE

Date
10/17/89

 **Telemecanique**

Telemecanique Inc., Westminster, Md. 21157

Approved

Date

Sheet 1
of 1

Dwg

EO66

Rev. 0

REFERENCE DRAWING

Approved

Date

FORM 332-AC

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Thank
Jim McNeil

Spoke to M. Fenneteau
2/7/90 -

OK to release
drawing to PDR
& letter.

Gina Matakas