ATTACHED IS A PART 21 REPORT FROM IE MAIL UNIT - ROOM 359E/W

PART 21 IDENTIFICATION NO. 79-149-00 COMPANY NAME GE

DATE OF LETTER 9/5/79 DOCKET NO. 50-416, 50-417

DATE DISTRIBUTED 9/14/79 ORIGINAL REPORT [X] SUPPLEMENTARY [ ]

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ACTION:

PRELIMINARY EVUALATION OF THE ATTACHED REPORT INDICATES LEAD RESPONSIBILITY FOR FOLLOW-UP AS SHOWN BELOW:

IE [X] NRR [ ] NMSS [ ] OTHER [ ]

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REV. 3/5/79

C.E. MURRAY
RII

GENERAL ELECTRIC

NUCLEAR ENERGY
PROJECTS DIVISION

GENERAL ELECTRIC COMPANY, 175 CURTNER AVE., SAN JOSE, CALIFORNIA 95125
MC 682, (408) 925-5040

MFN-228-79

79-149-000

September 5, 1979

Mr. Robert H. Engelken
Office of Inspection and Enforcement
U. S. Nuclear Regulatory Commission
Region V
1990 North California Street
Walnut Creek, CA 94596

Dear Mr. Engelken:

SUBJECT: REPORTABLE CONDITION OF TOPAZ INVERTERS - BWR 5/6

This is to advise the NRC of a reportable condition per 10CFR Part 21. It was reported to J. L. Crews of your office by Walter H. D'Ardenne, Manager, BWR Product Standards on September 5, 1979. The defect is in inverters manufactured by Topaz Electronics, San Diego, California. The defect was judged to be reportable on September 5, 1979. Attached is a report of the defect.

General Electric (GE) as the supplier of the subject inverter has informed the utilities affected and advised them to return the inverters to GE for replacement or repair.

Glenn G. Sherwood, Manager
Safety & Licensing Operation

GGS:pes/ej/846

Attachment

From J. L. Crews

POOR ORIGINAL

POOR
ORIGINAL

TOPAZ INVERTERS

Inverters supplied by Topaz Electronics, used to supply essential divisional power from station batteries to the ECCS transmitter/trip unit analog sensors, have failed. The failure is associated with transient disturbances such as those generated on the 125 VDC bus from switching relay coils. Blown fuses and failed SCR's have occurred as a result of the transient.

These inverters have been shipped to only one plant, Grand Gulf, for which a substantial safety hazard exists. At Grand Gulf, failure of all the inverters would prevent automatic initiation of all emergency core cooling systems.