ACCESSION NOR:8105190360 DUC.DATE: 81/05/14 NOTARIZED: NO FACIL:50-438 Reliefonte Muclear Plant, Unit 1, Tennessee Valley Au

50-439 Bellefonte Nuclear Plant, Unit 2, Tennessee Valley Au 650004

DOCKET #

AUTH. NAME

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AUTHUR AFFILIATION

MILLS, L. M.

Tennessee Valley Authority RECIPIENT AFFILIATION

RECIP. NAME . O'REILLY, J.P.

Region 2, Atlanta, Office of the Director

SUBJECT: Second interim dericiency rept.initially reported on 810102, re defective solid state ac voltage relays supplied by Gould-Brown Bovers. Relays are to be returned to yendor for mods. Next rept by 810910.

DISTRIBUTION CODE: BOLYS COPIES RECEIVED: LTR _ FITLE: Construction Dericiency Report (10CFR50.55E)

. NOTES:

ACTIOD:	RECIPIEDT ID CODE/MAMS AND LICENSMG LIC BR #4 LA	0.4	1 1 1		RECIPIENT IO CODE/NAME LIC AR #4 BC 0 LIC AR #4 PM 0	5 1	
INTERNAL:	ASLBP/J.HARD EDJ & STAFF HYD/GED BR IE/EES MPA UELD GA BR STANDRDS DEV	2u 21 14	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1	LIC QUAL BR 1 NRC PUR 0 PROCYEST REV 1	1 1 1 1 2 1 1 2 1 1 2 1 1 1 2 1 1 1 1 1	1 1 1 1 1
EXTERMAL:	ACKS MSIC	1 o 0 o	10	16	LPDR 0	3 1	1



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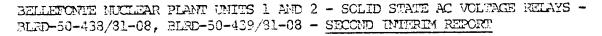
400 Chestnut Street Tower II

May 14, 1981

BLRD-50-439/81-08 BLRD-50-439X81-08

Mr. James P. O'Reilly, Director Office of Inspection and Enforcement U.S. Nuclear Regulatory Commission Region II - Suite 3100 101 Marietta Street Atlanta, Georgia 30303

Dear Mr. O'Reilly:



The subject deficiency was initially reported to NEC-OIE Inspector M. Thomas on January 2, 1981 in accordance with 10 CFR 50.55(e) as MCR BLN BLP 3012. This was followed by our first interim report dated February 2, 1981. Enclosed is our second interim report. We expect to submit our next report by September 10, 1981. We consider 10 CFR Part 21 to be applicable to this deficiency.

If you have any questions concerning this matter, please get in touch with D. L. Lambert at FTS 857-2581.

Very truly yours,

TENNESSEE VALLEY AUTHORITY

L. M. Mills, Manager Nuclear Regulation and Safety

Enclosure

oc: Mr. Victor Stello, Jr., Director (Enclosure)
Office of Inspection and Enforcement
U.S. Nuclear Regulatory Commission
Washington, DC 20555

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ENCLOSURE

BELLEFONTE NUCLEAR PLANT UNITS 1 AND 2
SOLID STATE AC VOLTAGE RELAYS
BLRD-50-438/81-08, BLRD-50-439/81-08
10 CFR 50.55(e)
SECOND INTERIM REPORT

Description of Deficiency

The solid state ac voltage relays used on the 6.9 kV Class IE switchgear require a source of dc control power for proper operation. The present design configuration of the relays utilizes a contact from the undervoltage relay to energize an auxiliary relay upon detection of an undervoltage condition. The auxiliary relay initiates alarms and breaker trips. However, when dc control power is lost and then restored (such as might accompany a bus transfer), the auxiliary relay will become energized long enough to initiate the supply feeder breaker trip sequence even though an actual undervoltage condition does not exist. If this were to occur at a time when offsite power was not available and the source of power was the emergency onsite power source (diesel generator), this condition would lead to the inadvertent isolation of a 6.9 kV Class IE switchgear board. In this instance, the boards would have to be manually reconnected.

The 6.9 kV switchgear was designed and supplied by Gould-Brown Boveri, Westminster, Marvland.

Interim Progress

The deficient relays are to be shipped back to the vendor (Gould-Brown Boveri) for modifications to alleviate the incorrect operation. We will supply further information in the final report.