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March 7, 1990

U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, D.C. 20555

PLANT HATCH - UNITS 1, 2
NRC DOCKETS 50-321, 50-366
OPERATING LICENSES DPR-57, NPF-5
BULLETIN 88-10 TEST RESULTS

Gentlemen:

Based on recent conversations with L. P. Crocker, NRC Project Manager for Plant Hatch, it was determined that it would be appropriate to forward information related to circuit breaker (CB) testing even though only three CB's were tested. The requested test information related to the CB's is enclosed.

Should you have any questions in this regard, please contact this office at any time.

Mr. W. G. Hairston, III states he is Senior Vice President of Georgia Power Company and is authorized to execute this oath on behalf of Georgia Power Company, and to the best of his knowledge and belief, the facts set forth in this letter are true.

GEORGIA POWER COMPANY

BY:

W. G. Hairston, III
W. G. Hairston, III

Sworn to and subscribed before me this 7th day of March 1990.

JKB/eb

Enclosure: IEB 88-10 Test Results

c: (See next page.)

Sherry Ann Whitaker
Notary Public

MY COMMISSION EXPIRES DEC. 15, 1992

IEB
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U.S. Nuclear Regulatory Commission

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c: Georgia Power Company

Mr. H. C. Nix, General Manager - Nuclear Plant

Mr. J. D. Heidt, Manager Engineering and Licensing - Hatch

GO-NORMS

U.S. Nuclear Regulatory Commission, Washington, D.C.

Mr. L. P. Crocker, Licensing Project Manager - Hatch

U.S. Nuclear Regulatory Commission, Region II

Mr. S. D. Ebnetter, Regional Administrator

Mr. J. E. Menning, Senior Resident Inspector - Hatch

ENCLOSURE

PLANT HATCH - UNITS 1, 2
NRC DOCKETS 50-321, 50-366
OPERATING LICENSES DPR-57, NPF-5
1EB 88-10 TEST RESULTS

BACKGROUND

Per Item 1 of actions requested in Bulletin 88-10, GPC determined 121 molded-case circuit breakers (MCCBs) at Plant Hatch were being maintained as stored spares for future use in safety-related applications. Per the definition of verifiable traceability stated in the Bulletin, 108 breakers were traced to the circuit breaker (CB) manufacturer by verifying the procurement chain. The remaining 13 breakers were determined to be untraceable to the manufacturer. No installed breakers were required to be reviewed for traceability per Bulletin Item 1, since a warehouse population of 121 breakers was established. However, upon discovery of the 13 untraceable breakers in warehouse stores, a review of breakers supplied under the same purchase orders and subsequently withdrawn from the warehouse was conducted. As a result of this review, three untraceable breakers were found to be installed in safety-related applications. These three breakers were removed from service and replaced with new breakers meeting the criteria of Bulletin Item 7.

DISCUSSION

Plant E. I. Hatch policy is to replace any untraceable breakers installed in safety-related applications with new breakers rather than test the breakers as Bulletin 88-10 allows. After discussing the testing issue with NRR staff personnel, it was decided the 16 suspect breakers should be tested only to determine whether the documentation search in Bulletin Item 4 was necessary.

The 13 breakers in the warehouse and the 3 breakers removed from the plant were shipped to a laboratory for testing. GPC was informed by laboratory personnel that six of the breakers were damaged during shipping to the extent they could not be tested. The laboratory was directed to test the remaining 10 CBs. The first three CBs tested failed. Testing was halted at this point, since the 10-percent failure rate was reached. The test failure parameters for the three breakers that were tested are listed in Table 1 of this enclosure.

ENCLOSURE (Continued)

1EB 88-10 TEST RESULTS

TABLE 1 (SHEET 1 OF 2)

I. BREAKER TEST ID NO. 85

Manufacturer:	Westinghouse	GPC PO No:	E-58095
Model No:	HFB3110ML	Supplier:	Golden Isle Supply
Voltage Rating:	600 VAC	Sub Supplier:	HLC Electric Supply
Trip Rating:	10 amps		Company

Test Failed: Adjustable instantaneous trip test

Test parameters at which failure occurred:

Trip test amps: 35/110

	<u>Pole 1</u>	<u>Pole 2</u>	<u>Pole 3</u>
Lowest setting (amps)	35	35	35
Trip current (amps)	50.5	50.3	43.6
Trip time (sec)	0.025	0.031	0.031
	<u>Pole 1</u>	<u>Pole 2</u>	<u>Pole 3</u>
Highest setting (amps)	110	110	110
Trip current (amps)	141.3	151.3	140.7
Trip time (sec)	0.080	0.037	0.044

Acceptance Criteria:

Lowest setting	26.25 amps to 43.75 amps
Highest setting	88 amps to 132 amps

Failure:

Breaker trip current is higher than allowable.

ENCLOSURE (Continued)

IEB 88-10 TEST RESULTS

TABLE 1 (SHEET 2 OF 2)

II. BREAKER TEST ID NO. 86

Manufacturer:	Westinghouse	GPC PO No:	B41679
Model No:	HFB3050	Supplier:	B&S Electric
Voltage Rating:	600 VAC	Sub Supplier:	General Magnetic/ Electric Wholesale
Trip Rating:	50 amps		

Test Failed: Time-delay overcurrent trip test

Test parameters at which failure occurred:

Trip test amps: 50

	<u>Pole 1</u>	<u>Pole 2</u>	<u>Pole 3</u>
Trip time at 300% (sec)	6.35	12.30	11.74

Failure:

Breaker trip times are less than minimum specified by manufacturer.

III. BREAKER TEST ID NO. 88

Manufacturer:	Westinghouse	GPC PO No:	E58095
Model No:	HFB3110ML	Supplier:	Golden Isle Supply
Voltage Rating:	600 VAC	Sub Supplier:	HLC Electric Supply Company
Trip Rating:	10 amps		

Test Failed: Adjustable instantaneous trip test

Test parameters at which failure occurred:

Trip test amps: 35/100

	<u>Pole 1</u>	<u>Pole 2</u>	<u>Pole 3</u>
Lowest setting	35	35	35
Trip current (amps)	54.7	51.4	54.8
Trip time (sec)	0.029	0.049	0.051

Failure:

Testing on high setting resulted in smoke issued from breaker.
Testing was discontinued.