

Georgia Power Company
333 Piedmont Avenue
Atlanta, Georgia 30308
Telephone 404 526-6526

Mailing Address:
Post Office Box 4545
Atlanta, Georgia 30302

L. T. Gucwa
Manager Nuclear Engineering
and Chief Nuclear Engineer



Georgia Power

the southern electric system

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June 21, 1984

U. S. Nuclear Regulatory Commission
Office of Inspection and Enforcement
Region II - Suite 2900
101 Marietta Street, NW
Atlanta, Georgia 30323

REFERENCE:

RII: JPO
50-321/50-366
I&E Bulletin
83-08, Supplemental Response

ATTENTION: Mr. James P. O'Reilly

GENTLEMEN:

On April 2, 1984, Georgia Power Company (GPC) submitted our response to I&E Bulletin 83-08, "Electrical Circuit Breakers with an Undervoltage Trip Feature in Use in Safety-Related Applications Other than the Reactor Trip System." We could not respond to Section 2.a of the bulletin because the requested design and maintenance information had not been received from the breaker manufacturers. We have since received the requested information for General Electric F225 Line Molded Case Circuit Breakers. Westinghouse has indicated that the information cannot be provided until November, 1984. GPC will provide a supplemental response in December, 1984 to describe the Westinghouse response.

The following is our response to Section 2.a for the GE circuit breakers:

Question: 2.a For each circuit breaker type identified in Item 1, do the following.

Review the design of the UVTA and the connecting linkage. Using input from the breaker manufacturer, determine the design margin available to open the breaker. Evaluate whether or not this design margin is adequate in view of safety applications, considering possible problems of alignment, lubrication, adjustment of spring tension, etc., discussed in the "Description of Circumstances."

RESPONSE: General Electric F225 Line Molded Case Circuit Breakers

GE has provided the following information relative to the design of the subject circuit breakers.

1. Force required to release the latch: 5-10 ounces.

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RESPONSE (Continued):

2. Spring force available to release latch: minimum 1.5 pounds, maximum 5 pounds.
3. Force provided by UV device to trip breaker: 5 pounds.
4. Force required to trip breaker: 2.5 pounds.

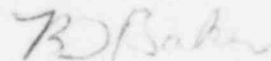
These data are representative of tests on new devices.

Based on the data supplied by GE, the margin available to open the breaker is 100%. We believe that this margin is adequate based on favorable operating experience to date. As reported in the April 2 response, we have experienced no malfunctions of the subject breakers as a result of UVTA failures.

Since the case of the F225 breaker is factory sealed, there is no required internal maintenance and, therefore, no likelihood of problems due to improper alignment, lubrication, adjustment, etc, discussed in the "Description of Circumstances." GE reports that there is no change in their recommendation that there is no preventative maintenance program required other than periodic testing to check for the desired performance. Accordingly, GPC plans no change in existing maintenance and surveillance procedures for the F225 breakers.

As stated previously, we will supply a corresponding response for Westinghouse 50 DHP 250 breakers in December, 1984, after receipt of the Westinghouse data and recommendations. Please contact this office if you have any questions or comments.

Very truly yours,



for L. T. Guwa

PLS/mb

xc: J. T. Beckham, Jr.
H. C. Nix, Jr.
Senior Resident Inspector