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ILLINOIS POWER COMPANY

CLINTON POWER STATION, P.O. BOX 678, CLINTON, ILLINOIS 61727

July 8, 1986

Docket No. 50-461

Director of Nuclear Reactor Regulation
Attention: Dr. W. R. Butler, Director
BWR Project Directorate No. 4
Division of BWR Licensing
U.S. Nuclear Regulatory Commission
Washington, DC 20555

Subject: Clinton Power Station
Surveillance Testing

Dear Dr. Butler:

The purpose of this letter is to provide information to justify deletion from surveillance testing, required by the Clinton Power Station Technical Specifications 3/4.8.4.1, of the molded case 600V 250A circuit breakers associated with the slow speed feed to the Reactor Recirculation pumps (RRP).

Attached is the revised Technical Specification on the Low Frequency Motor Generator (LFMG) set output breaker over current devices. The plots of current squared times time (I^2T) for the RRP power penetration, the LFMG set and the over current devices for the output breaker are attached.

If a fault occurs on the containment side of the RRP penetration, the high quality output breaker, whose I^2T let-through is below both the LFMG set and the penetration, will open to protect both the penetration and the LFMG set. If the breaker fails to open, the I^2T of the LFMG set up to and including failure of the set is below the I^2T of the penetration.

This letter in concert with the recent revision to Question and Response 40.4 should satisfy the concerns of your Mr. J. Lazevnick and provide the justification to conclude that the slow speed molded case circuit breakers are not needed to meet the criteria of IEEE 317 and that the Clinton Power Station Safety Evaluation Report paragraph 8.4.1 (SER pg. 8-15) can be changed to reflect the as-designed configuration of this system.

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If you need any additional information on this matter, please contact me.

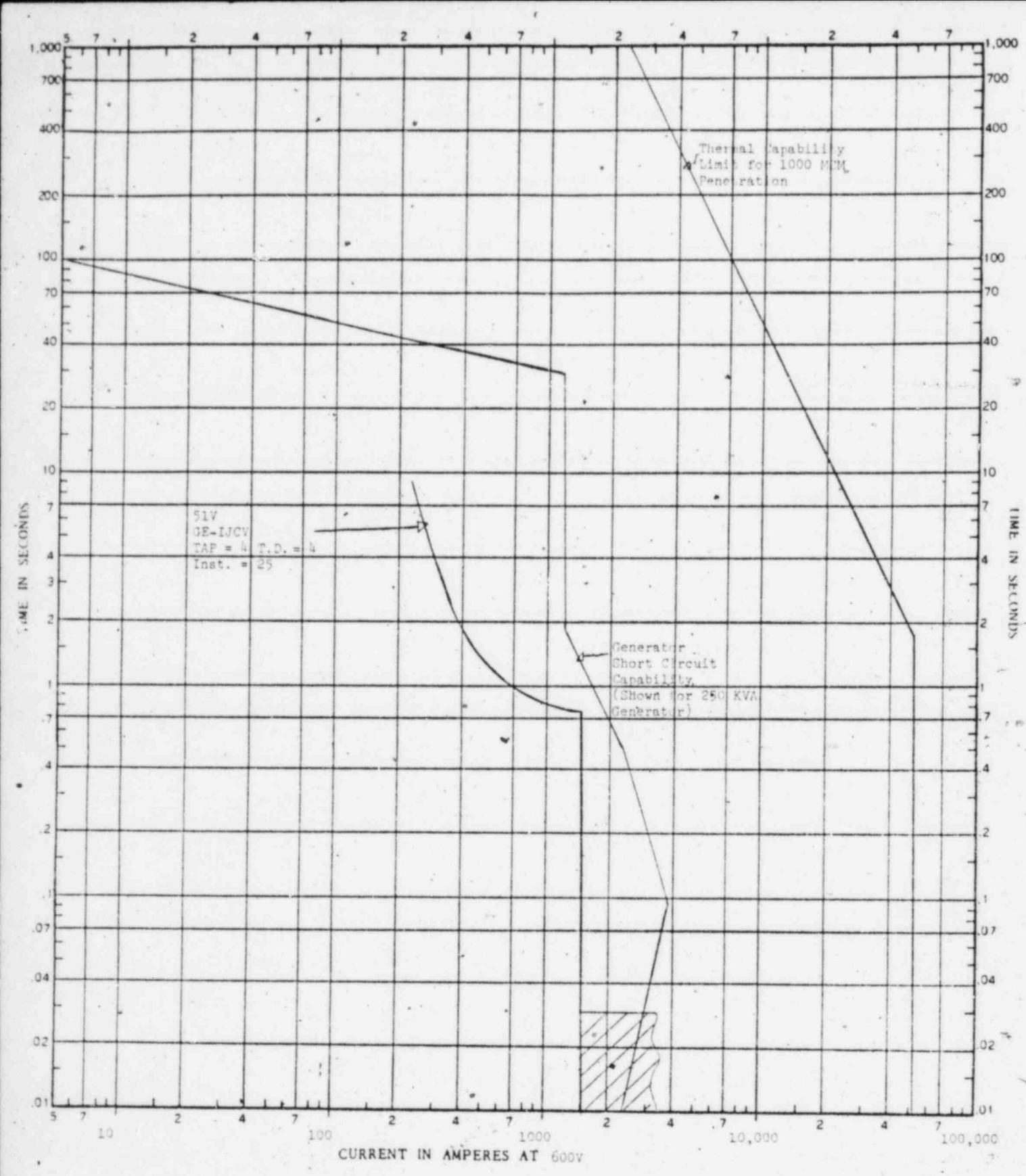
Sincerely yours,

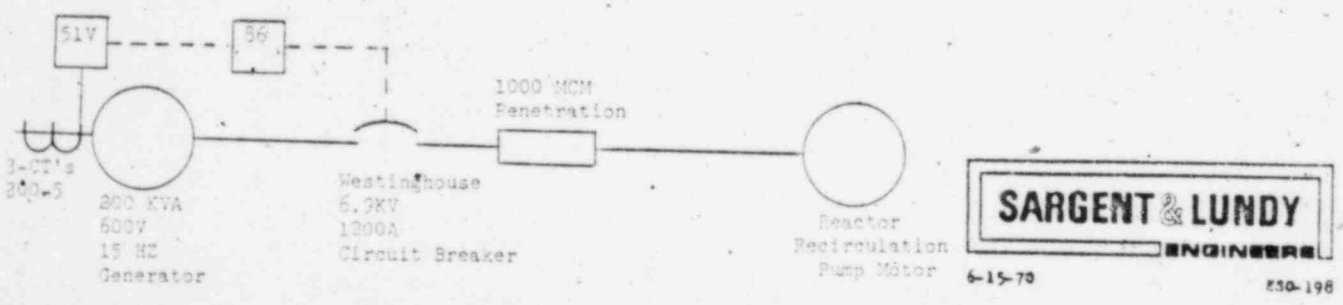
F. A. Spangenberg
Manager - Licensing & Safety

DWW/pjr

Attachment

cc: B. L. Siegel, NRC Clinton Licensing Project Manager
NRC Resident Office
Regional Administrator, Region III USNRC
Illinois Department of Nuclear Safety





SARGENT & LUNDY ENGINEERS

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TABLE 3.8.4.1-1

CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

DEVICE NUMBER
AND LOCATION

a. 6.9-kV Circuit Breakers

Reactor Recirc. Pump 1A
Penetration 1EE01E
Penetration conductor size 1/c-1000 MCM per Ø

Normal Operation Protection

6.9-kV Swgr. Location 121, AH, AV (R,C); El 781 ft.
Two identical circuit breakers in series
with identical protective relays.
Westinghouse Type COM-5 and CO-11 relays for phase overcurrent
protection (BKR. 4A, 1RR01EA; BKR. 5A, 1RR01EB)
Westinghouse Type SSC-T relays for ground fault protection

Low Frequency Operation Protection

Two identical 250-ampere 600-volt molded case circuit breakers
in series.
Location 121, AH (R,C); El 781 ft.

Insert Attached ①

Reactor Recirc. Pump 1B
Penetration 1EE02E
Penetration conductor size 1/c-1000 MCM per Ø

Normal Operation Protection

6.9-kV Swgr. Location 105, AH (R,C); El 781 ft.
Two identical circuit breakers in series with
identical protective relays.
Westinghouse Type COM-5 and CO-11 relays for phase overcurrent
protection (BKR. 4B, 1RR02EA; BKR. 5B, 1RR02EB
Westinghouse Type SSC-T relays for ground fault protection

Low Frequency Operation Protection

Two identical 250-ampere 600-volt molded case circuit breakers
in series
Location 105, AH (R,C); El 781 ft.

Insert Attached ②

Insert ①

6.9 KV SWGR. Location 121, AH, AV (R,C) El. 781 BKR. 2A (1RR01ED) with 3 GE Type IJCV Relays for phase overcurrent with voltage restraint. Relays located in LFMG relay panel B33-P001A.

Insert ②

6.9 KV SWGR. Location 105, AH (R,C) El. 781 BKR 2B (1RR02ED) with 3 GE Type IJCV Relays for phase overcurrent with voltage restraint. Relays located in LFMG relay panel B33-P001B.