

Georgia Power Company  
333 Piedmont Avenue  
Atlanta, Georgia 30308  
Telephone 404 526-3195

Mailing Address:  
40 Inverness Centre Parkway  
Post Office Box 1295  
Birmingham, Alabama 35201  
Telephone 205 868-5581

W. G. Hairston, III  
Senior Vice-President  
Nuclear Operations

The civilian electric system

HL-2174  
003309

April 28, 1992

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  
RESPONSE TO REQUEST FOR ADDITIONAL  
INFORMATION ON THE PRESSURE SENSOR  
ACTUATION SYSTEM FOR SAFETY RELIEF VALVES  
NRC TAC Nos. M82709, M82723

Gentlemen:

By letter dated April 8, 1992, you requested additional information regarding our proposed pressure sensor actuation system for the main steam safety relief valves. The enclosure to this letter provides answers to the two specific questions as discussed in our April 2, 1992, telephone conference.

Please contact this office if you have any further questions.

Sincerely,

  
W. G. Hairston, III

OCV/cr

Enclosure

cc: Georgia Power Company  
Mr. H. L. Sumner, General Manager - Nuclear Plant  
NORMS

U.S. Nuclear Regulatory Commission, Washington, D.C.  
Mr. K. Jabbour, Licensing Project Manager - Hatch

U.S. Nuclear Regulatory Commission, Region II  
Mr. S. D. Ebnetter, Regional Administrator  
Mr. L. D. Wert, Senior Resident Inspector - Hatch

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ENCLOSURE

PLANT HATCH - UNITS 1, 2  
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QUESTION: Please clarify your position regarding the Technical Specifications for the pressure sensor actuation. The first sentence of the second paragraph of the cover letter states that: "As the new system is not safety related, it will not be included in the Technical Specifications." However, Item 11 of the narrative Design Summary states that: "Calibration and maintenance requirements already established by Plant Hatch Technical Specifications for Nuclear Boiler System (B21) equipment will apply to this modification."

RESPONSE: The system is non-safety related. New hardware added by this modification is procured to meet Class 1E and seismic requirements. The devices will be installed to safety related criteria. The transmitters and trip units will be maintained and calibrated in accordance with approved plant procedures which are consistent with those now used for safety related items. The MPL numbers assigned to the new devices will be included in the Unit 2 System Evaluation Documents and the equipment will be treated as safety related. The transmitters will be listed in the Equipment Qualification Master List. Frequency and limits of surveillance, maintenance and calibration of the new devices will be controlled by procedure, not by Technical Specifications.

QUESTION: Please discuss the Emergency Safety System Division I to Division II interface criterion mentioned in Item 4 of the Narrative Design Summary. Also, justify the use of fuses as isolations between redundant divisions. Include in your justification a description of why such an interface is necessary and how the fuses were qualified to accomplish this task. Furthermore, discuss the periodic testing of these fuses to provide assurance that redundant Class 1E power sources will not be subjected to a single failure.

RESPONSE: It is our intention that the safety relief valve pressure sensor actuation modification be a nonsafety related addition and serve as a backup to the existing safety related system. In order to assure that this modification will not have an adverse impact on the existing safety related system, we are providing fuses to isolate the new, non-safety related logic from the existing logic (see attached figure nos. 1-3). Equipment procured for this modification, including fuses, will meet Class 1E and seismic

ENCLOSURE (Continued)

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requirements. These fuses are not used to provide divisional separation. Divisional separation will be provided by coil-to-contact separation in the relays used to provide signal initiation to the valve. Circuits providing contact interconnections will be routed in existing divisional raceways with separation being maintained. These fuses will be included in the existing site maintenance program.

DCR 91-134  
 ELEMENTARY DIAGRAM  
 VALVE 2B21-FO13A  
 (TYPICAL FOR VALVES C,E,H,K,L,M)

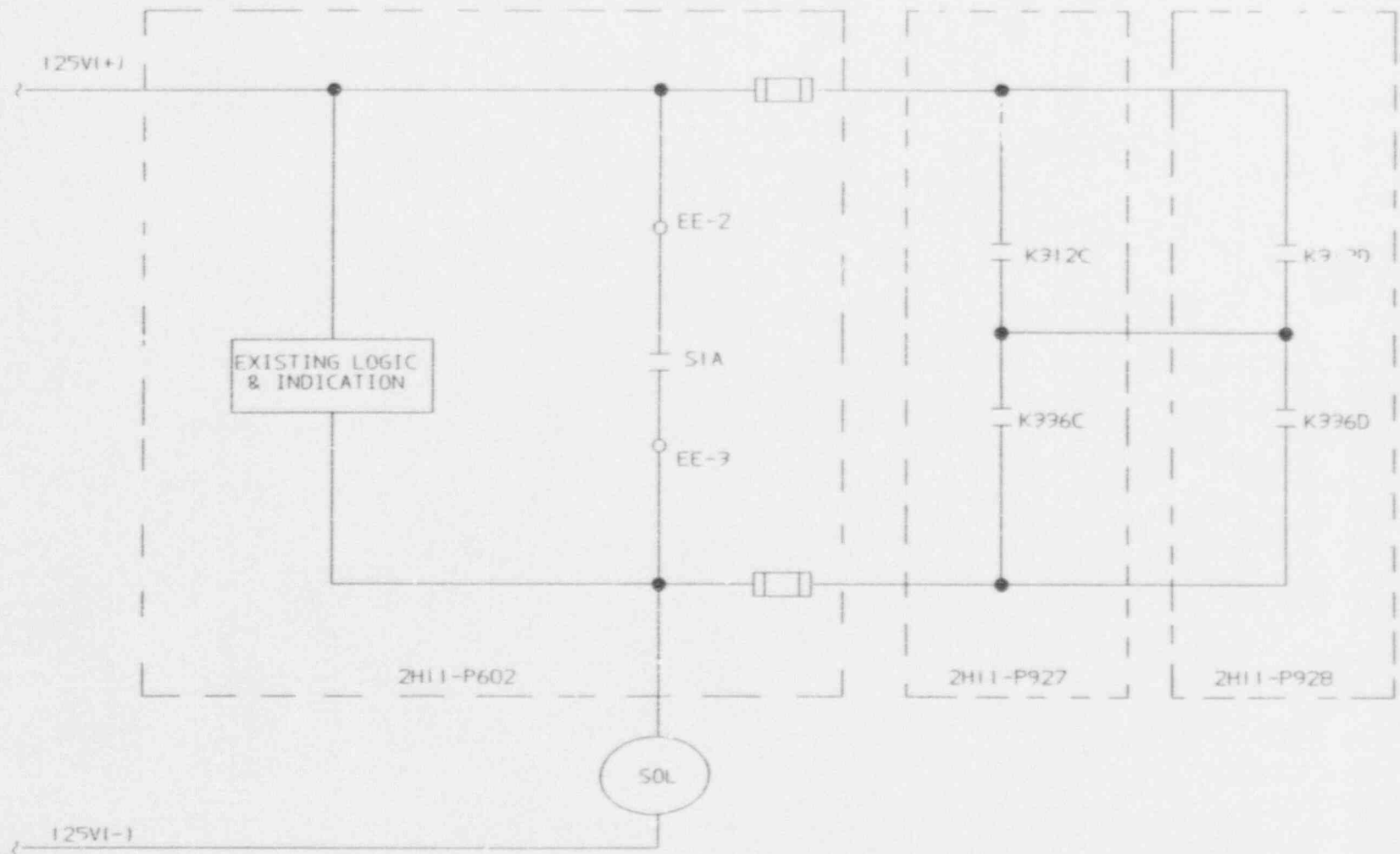
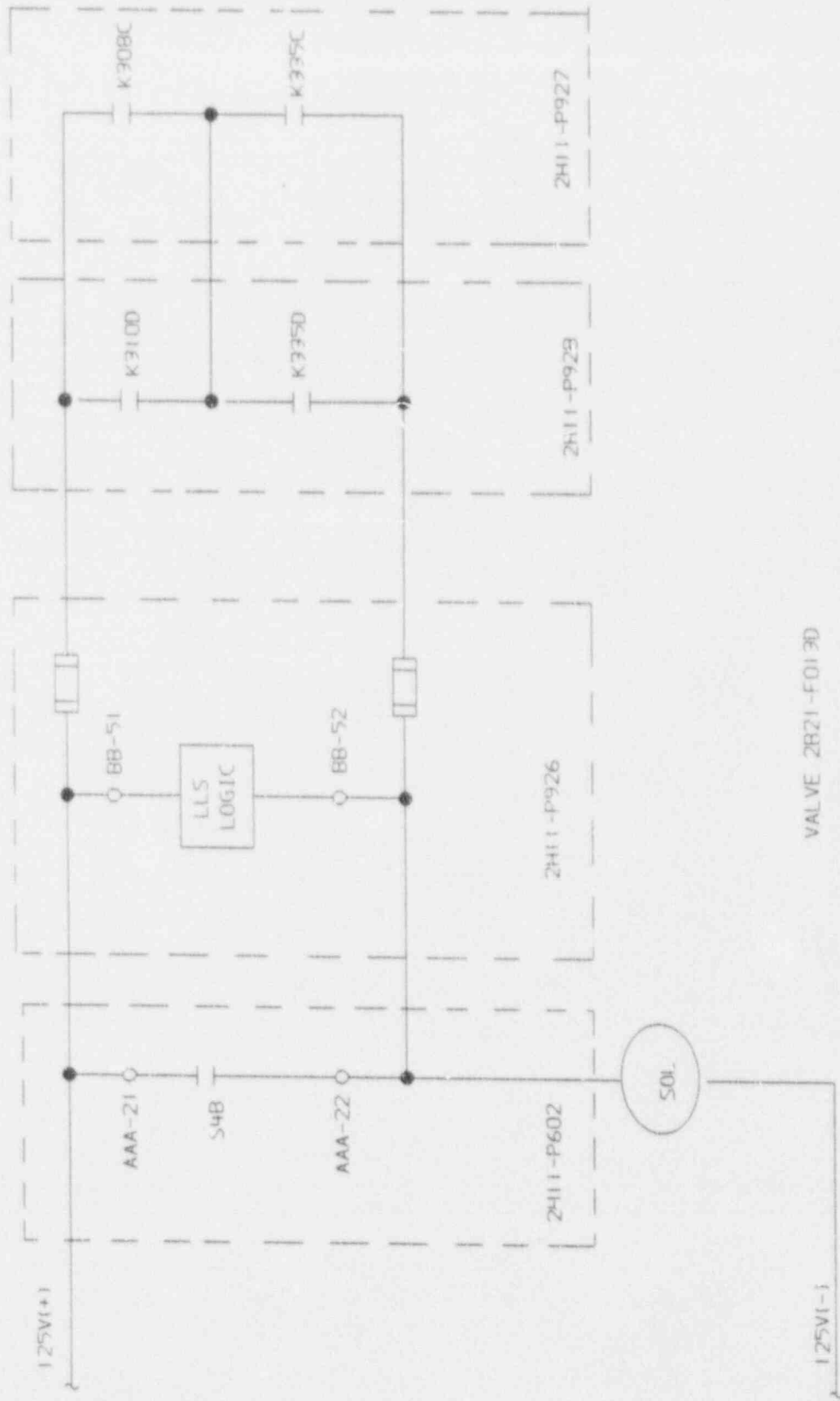


FIGURE 1

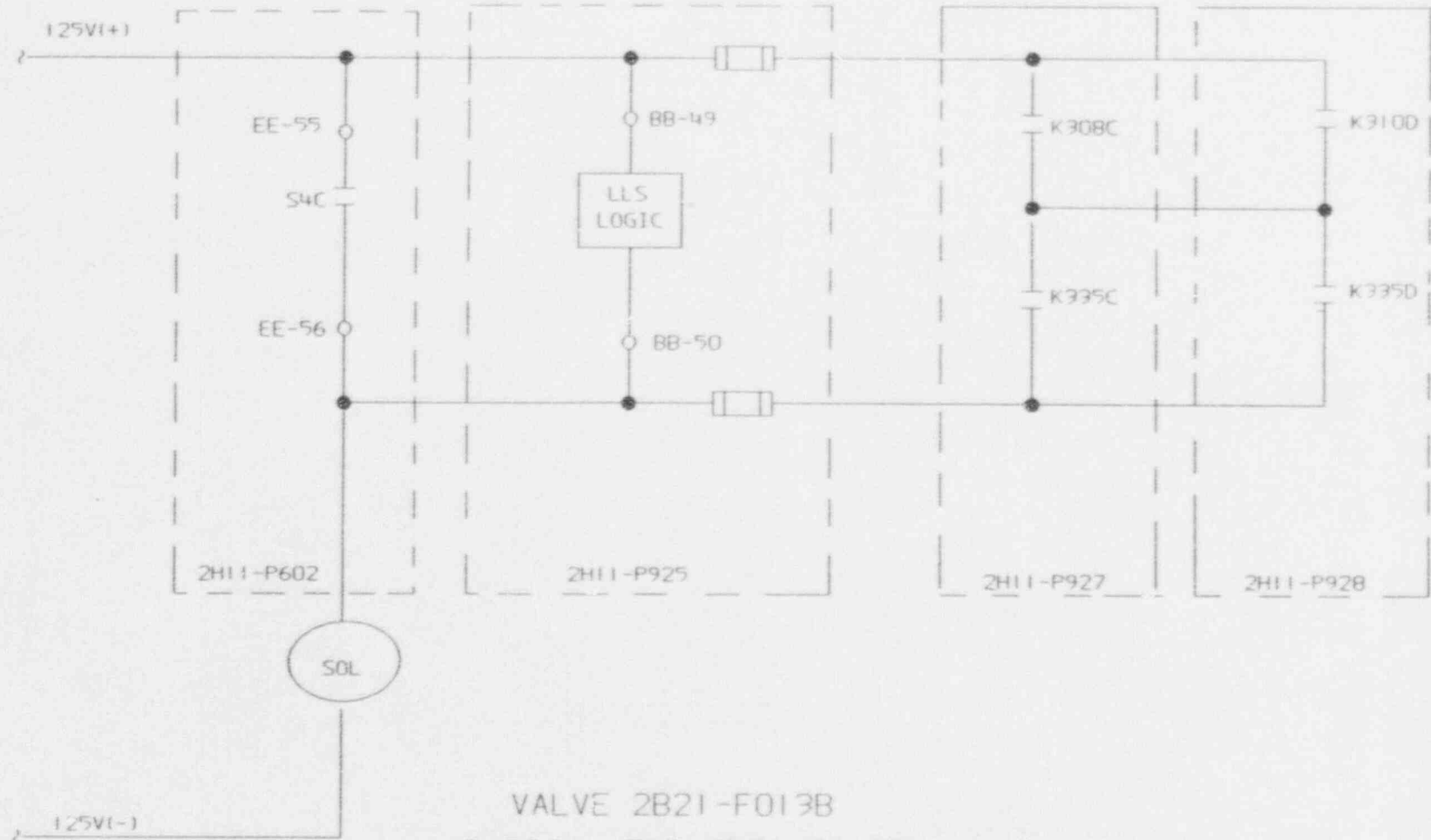
DCR 91-134  
 ELEMENTARY DIAGRAM  
 LOW LOW SET VALVES  
 DIVISION II



VALVE 2B21-F013D  
 (TYPICAL FOR 2B21-F013G)

FIGURE 2

DCR 91-134  
 ELEMENTARY DIAGRAM  
 LOW SET VALVES  
 DIVISION I



VALVE 2B21-F013B  
 (TYPICAL FOR 2B21-F013F)  
 FIGURE 3