

# REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

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 FACIL: 50-261 H. B. Robinson Plant, Unit 2, Carolina Power and Light 05000261  
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 RECIP. NAME: VARGA, S.A. RECIPIENT AFFILIATION: Operating Reactors Branch 1

SUBJECT: Forwards responses to NRC addl questions re bypass & reset of engineered safety features.

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	RAD ASMT BR		1	1	REG FILE	01	1	1
EXTERNAL:	ACRS	09	16	16	LPDR	03	1	1
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APR 24 1981



Carolina Power & Light Company

April 16, 1981

FILE: NG-3514(R)

SERIAL NO.: NO-81-687

Office of Nuclear Reactor Regulation  
Attention: Mr. Steven A. Varga, Chief  
Operating Reactors Branch No. 1  
United States Nuclear Regulatory Commission  
Washington, D. C. 20555

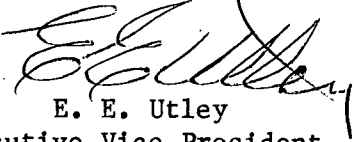
H. B. ROBINSON STEAM ELECTRIC PLANT, UNIT NO. 2  
DOCKET NO. 50-261  
LICENSE NO. DPR-23  
ADDITIONAL INFORMATION FOR BYPASS AND RESET  
OF ENGINEERED SAFETY FEATURES

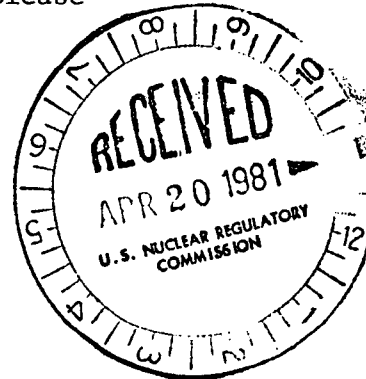
Dear Mr. Varga:

On October 7, 1980, Carolina Power & Light Company provided you with additional information to continue your review of the Bypass and Reset Features of Engineered Safety Features. Your staff recently telecopied additional questions concerning this subject. Our responses to your questions are contained in the attachment to this letter.

We trust this information satisfies your concerns and is suitable for your use. If you have any further questions on this subject, please contact our staff.

Yours very truly,

  
E. E. Utley  
Executive Vice President  
Power Supply and  
Engineering & Construction



SDF/dk (N#50)  
Attachment

cc: Mr. J. D. Neighbors

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QUESTIONS FOR RESOLUTION BY CAROLINA POWER & LIGHT COMPANY  
FOR H. B. ROBINSON UNIT 2

QUESTION

- A. In reference to Drawing No. CP-380-5379-3232 Sheet 6 of 12 the following questions apply:
- 1) Do the devices which provide the initiation signals directly operate the contacts shown on the drawing or are these contacts operated from slave relays?
  - 2) Are the SI initiation device contacts shown in the drawing in the alarm condition?
  - 3) Are BLOCK/UNBLOCK switches 1/SIB-1 and 1/SIB-2 keylocked switches?
  - 4) What is the purpose of the three series push buttons associated with the high containment pressure, loop 1, 2 & 3 steam line high differential pressure, and low pressurizer pressure initiation circuits?

RESPONSE

- A. (1) The contacts shown are from slave relays in the safeguard cabinets.
- (2) The contacts are shown in the de-energized condition which is usually, but not always, the alarm condition.
- (3) Block/Unblock switches are not keylocked switches.
- (4) The series contacts shown are part of the switches provided in the package for testing purposes. Without these contacts the instrument channels could not be tested without actuating the ESF.

QUESTIONS

- B. The logic diagram (Drawing No. CP-300-5379-2759 Sheet 8 of 18) shows that SI actuation signals have retentive memory. How is this physically accomplished?

RESPONSE

- B. The retentive memory is accomplished with mechanically latched relays.

QUESTION

- C. To what standards are the instrumentation and control systems, provided to initiate ESF, designed and qualified?

RESPONSE

- C. Instruments and controls are qualified to the level identified in the H. B. Robinson FSAR and also as described in the responses to the requirements of IE Bulletin 79-01B.

QUESTION

- D. How and what annunciation is provided to indicate the override status for pressurizer pressure and Tave signals? (Drawing No. CP-380-5379-3232 Sheet 10 of 12 should be provided).

RESPONSE

- D. Annunciators and large status lights. Sheet 10 of Safeguards was not included because it has no control or protection functions. (Drawing enclosed).

QUESTION

- E. In reference to control wiring diagrams 500B452 Sheets 529 and 530, what type switches are CS/OPEN and CS/SHUT?

RESPONSE

- E. The contacts labeled CS/OPEN and CS/SHUT are part of a 3-position switch with spring return to center. The contact CS/OPEN is closed only when the switch is in the open position. The contact CS/SHUT is open only when the switch is in the shut position. The contacts are shown in the center (spring return) position.

QUESTION

- F. In reference to control wiring diagram 500B452 Sheet 525, will the purge supply and exhaust valves change position upon resetting of their ESF actuation signal? (Drawing No. 500B452, Sheets 523 and 524 should be provided).

RESPONSE

- F. The purge valves will not change position upon resetting their ESF signal. The contacts marked "69" and "42x" will be open and will close again only when a start signal to the purge fans is initiated. Drawing sheets 523 and 524 cover these purge fans and should have been supplied. (Drawings enclosed).

QUESTION

- G. In reference to control wiring diagram 500B452 Sheets 288, 289, 291, 292, 295 and 296, what device operates contacts 49 and what is their function?

RESPONSE

- G. A device marked "49" is a thermal overload sensing or actuating device. On these drawings the sensing device is shown in two of the three phases to the motor. These are actually features in the starters or contactors controlling these motors. The contacts are thermally opened if the motor current exceeds a predetermined value, usually 110% of full load motor current.