



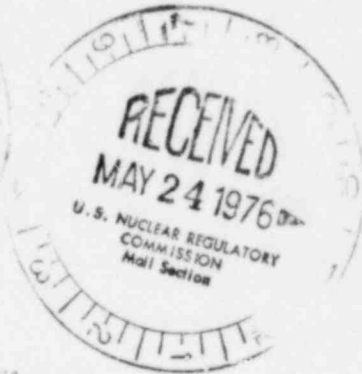
Consumers
Power
Company

COPY

General Offices: 212 West Michigan Avenue, Jackson, Michigan 49201 • Area Code 517 788-0550

May 17, 1976

Mr James G. Keppler
US Nuclear Regulatory Commission
799 Roosevelt Road
Glen Ellyn, IL 60137



DOCKET 50-155, LICENSE DPR-6 -
BIG ROCK POINT PLANT

Regulatory Docket File

This letter is to provide a final response to IE Bulletin 76-02 regarding certain direct current relays manufactured by the General Electric Company. A preliminary response was submitted April 19, 1976.

117 relays have been identified at the plant in both safety-related and nonsafety-related systems as defined by our "Q-List." We have had no known failures of any of these relays in direct current applications during the plant operating history. Relays, except CVX-1 and CVX-2 (see below) are physically located in areas where humidity and moisture are not likely to cause problems as described in Bulletin 76-02. In addition, the 42 relays in safety-related systems which have nylon spools are either energized more than 99% of the time or less than 1% of the time and thus not deemed susceptible to the failures as described in the bulletin.

Only five relays are in critical applications requiring nonfail-safe operation to cope with accidents as described in the FHSR. The evaluation of these relays is as follows:

Relay SVX-1 is in the containment vacuum relief circuitry associated with the containment ventilation supply valves. This relay is in the relatively dry control room, energized more than 99% of the time and failure could be identified by inadvertant closure of the containment ventilation supply valves which are open more than 99% of the time.

Relays CVX-1 and CVX-2 are located in containment in an area where moisture and temperature variations are relatively more extreme but these relays are continuously trickle current monitored by annunciator circuitry. Each is in a completely redundant liquid poison firing circuit.

Relays 59X and 27X are associated with the emergency diesel generator output circuit breaker controls. These are located in the relatively dry electrical equipment room and energized less than 1% of the time. Proper functioning of the

8101100 380

4848

relays is necessary for satisfactory performance of periodic surveillance tests. The diesel generator critical functions are backed up by other equipment.

Thus, based on our history of no failures, relatively good humidity environments, and evaluations of the five critical relays above, we have concluded that no relay replacements are required.

Ralph B. Sewell (Signed)

Ralph B. Sewell
Nuclear Licensing Administrator

NRC DISTRIBUTION FOR PART 50 DOCKET MATERIAL

FILE NUMBER

TO: MR. JAMES G. KEPPLER		FROM: CONSUMERS POWER COMPANY JACKSON, MICHIGAN R.B. SEWELL		DATE OF DOCUMENT 5/17/76
<input checked="" type="checkbox"/> LETTER	<input type="checkbox"/> NOTORIZED	PROP	INPUT FORM	DATE RECEIVED 5/24/76
<input checked="" type="checkbox"/> ORIGINAL	<input checked="" type="checkbox"/> UNCLASSIFIED			NUMBER OF COPIES RECEIVED NONE SIGNED
<input type="checkbox"/> COPY				

DESCRIPTION

LTR. RE THEIR 4/19/76 LTR.....
PROVIDING FINAL RESPONSE TO IE BULLITIN 76-02 RE CERTAIN DIRECT CURRENT RELAYS MFGD. BY GENERAL ELECTRIC.

PLANT NAME:
BIG ROCK POINT

ENCLOSURE

~~ACING~~

DO NOT REMOVE

SAFETY		FOR ACTION/INFORMATION		ENVIRO	5/24/76	RJL
ASSIGNED AD :		ASSIGNED AD :				
BRANCH CHIEF :	ZIEMANN (6)	BRANCH CHIEF :				
PROJECT MANAGER:		PROJECT MANAGER :				
LIC. ASST. :	DIGGS	LIC. ASST. :				

INTERNAL DISTRIBUTION			
REG FILE	SYSTEMS SAFETY	PLANT SYSTEMS	ENVIRO TECH
NRC PDR	HEINEMAN	TEDESCO	ERIST
I & E (2)	SCHROEDER	BENAROYA	BALLARD
OEID		IATNAS	SPANGLER
GOSSICK & STAFF	ENGINEERING	IPPOLITO	
HIPC	MACCARY		SITE TECH
CASE	KNIGHT	OPERATING REACTORS	GAMILL
HANAUER	SHEWEL	STELLO	STAMP
HARLESS	PAWLICKI		LUJMAN
		OPERATING TECH	
PROJECT MANAGEMENT	REACTOR SAFETY	EISENHUT	SITE ANALYSIS
BOYD	ROSS	SHAO	VOLLNER
P. COLLINS	NOVAK	BAER	BUNCH
HOUSTON	ROSZTOCZY	SCHRENCER	J. COLLINS
PETERSON	CHECK	GRIPES	KREGER
MELTZ			
HELFEMES	AT & I	SITE SAFETY & ENVIRO	
SKOVHOLT	SALZMAN	ANALYSIS	
	RITBERG	DENTON & MULLER	

EXTERNAL DISTRIBUTION		CONTROL NUMBER
LPR: CJARLEVOIX, MI	NATL LAB	BROOKHAVEN NATL LAB
TIC	REG. V-IE	ULRIKSON (ORNL)
NSJC	LA PDR	
ASLB	CONSULTANTS	
ACRS 16 HOLDING/SENT	DIGGS	

POOR ORIGINAL

4848