

## Nebraska Public Power District

COOPER NUCLEAR STATION  
P.O. BOX 98, BROWNVILLE, NEBRASKA 68321  
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NLS8400019

October 9, 1984

Robert D. Martin, Regional Administrator  
U. S. Nuclear Regulatory Commission  
Region IV  
611 Ryan Plaza Drive  
Suite 1000  
Arlington, TX 76011

Reference: IE Bulletin 84-02, Failures of General Electric Type HFA Relays in  
Use in Class 1E Safety Systems

Dear Mr. Martin:

As the Follow-Up Response to IE Bulletin 84-02, the District has reviewed non-HFA relays with safety-related functions at Cooper Nuclear Station (CNS). Past operating history and manufacturers' recommendations were reviewed to determine if additional action is appropriate. Additionally, the relay manufacturers were contacted to determine if the applicable relays were supplied with nylon or lexan coil spools. The results of the survey are attached.

To determine the past operating history of these relays, the INPO NPRDS Data Base was searched and, CNS Non-Conformance Reports associated with relay failures on safety-related systems were reviewed. These files were reviewed in an attempt to relate the relay manufacturers and the applicable model numbers with reported failures (also shown on the attachment).

The applicable relay manufacturers were also contacted regarding service bulletins and recommendations issued since the purchase of these relays. At present, no bulletins or recommendations have been made to change the material of the bobbins in the non-G.E. relays. For non-HFA, General Electric (G.E.) relays, the G.E. Service Information Letter (SIL) recommendations have been addressed where applicable.

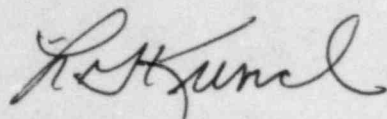
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It is the judgement of the District that because of (1) the relatively few failures of non-HFA relays with safety-related functions throughout the industry, (2) the absence of service bulletins or other manufacturers recommendations, and (3) the existing CNS preventive maintenance program and surveillance procedures, the short-term and long-term corrective actions are adequately addressed and continued satisfactory relay performance will be provided.

Sincerely,



L. G. Kuncel  
Assistant General Manager - Nuclear  
Nebraska Public Power District

LCK:EMM:tm  
Attachment

cc: Document Control Desk  
U.S. Nuclear Regulatory Commission  
Washington, DC 20555

NON-HFA RELAYS WITH NYLON OR LEXAN  
SPOOLS SIMILAR TO THE ONES INSTALLED AT CNS

<u>Manufacturer</u>	<u>Model No.</u>	<u>Related Failures</u>
1. General Electric	CR120A	24 failures
	CR120K	6 failures
	CR2820	15 failures
	CR104	0 failures
	CR105	2 failures
	HGA	8 failures
	HEA	3 failures
	HAA	0 failures
	IAC	2 failures
	PJC-PJV-PJG-RBP-CR123L-IRT	0 failures
2. Agastat	GP	No failures
	TR	
3. AMF Potter Brumfield	KH	Two failures
	KHS	but do not
	KRP	affect CNS.
	KUP	
4. Gulf Western Industries (Div. of Eagle Signal)	HM Series 222 (Zytel 101 family)	No failures
5. Westinghouse	BF Series	No failures
	BF11F	
	BF02F	