

# REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

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

SUBJECT: Forwards revised Pages 23,27,29 & 41 of util 840302  
 submittal re resolution of SERs for environ qualification of  
 safety-related electrical equipment. Error discovered in  
 listed manufacturer of one lubricant.

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Carolina Power & Light Company

APR 16 1984

SERIAL: NLS-84-172

Director of Nuclear Reactor Regulation  
Attention: Mr. Steven A. Varga, Chief  
Operating Reactors Branch No. 1  
Division of Licensing  
United States Nuclear Regulatory Commission  
Washington, DC 20555

H. B. ROBINSON STEAM ELECTRIC PLANT, UNIT NO. 2  
DOCKET NO. 50-261/LICENSE NO. DPR-23  
SUPPLEMENTAL RESPONSE CONCERNING  
ENVIRONMENTAL QUALIFICATION OF SAFETY-RELATED ELECTRICAL EQUIPMENT

Dear Mr. Varga:

By letter dated March 2, 1984, Carolina Power & Light Company (CP&L) submitted a letter concerning resolution of Safety Evaluation Reports for environmental qualification of safety-related electrical equipment at the H. B. Robinson Steam Electric Plant (HBR2). During review of that letter, CP&L discovered an error in the listed manufacturer of one of the lubricants used. These pages have been corrected and are attached. The changes are indicated by bars in the margin. Please replace pages 23, 27, 29, and 41 of our March 2, 1984 submittal with the revised pages attached.

It should be noted that although the lubricants listed are the type currently in use at HBR2, they may be replaced by other qualified lubricants at some point in the future. As stated in our letter, CP&L considers qualification of safety-related electrical equipment an ongoing effort and changes may occur as plant modifications are performed, design updates are included, and safety improvements are mandated.

If you have any questions on this subject, please contact a member of our Nuclear Licensing staff.

Yours very truly,

A. B. Cutter - Vice President  
Nuclear Engineering & Licensing

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PDR ADDCK 05000261  
P. PDR

ONH/pgp (9847ONH)  
Attachments

cc: Mr. J. P. O'Reilly (NRC-RII)  
Mr. G. Requa (NRC)  
Mr. Steve Weise (NRC-HBR)

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TABLE 3

SYSTEM: SAFETY INJECTION

MASTER LIST OF ELECTRICAL EQUIPMENT IMPORTANT  
TO SAFETY TO BE ENVIRONMENTALLY QUALIFIED  
H. B. ROBINSON S.E. PLANT UNIT 2

ITEM NO.	PLANT I.D. NO.	NRC-TER NO.	DESCRIPTION	EXPECTED OR ACTUAL INSTALLATION/OPERATION	ENVIRONMENTAL QUALIFICATION
1	V-866 A&B	5	A. LIMITORQUE VALVE MOTOR OPERATOR	REPLACEMENT DATE	(NOTE A)
		26	B. POWER CABLES - KERITE 600 VOLT POWER	3/31/85 (A)	
		26	C. CONTROL CABLES - KERITE 600 VOLT CONTROL	ORIGINAL EQUIPMENT	
		32	D. MOTOR-TO-LEAD SPLICES - SCOTCH #70 SILICON RUBBER TAPE INSULATION WITH VINYL TAPE OR EQUIVALENT	(B,C,D,E)	
		NONE	E. LUBRICANTS AND GREASES (EXXON NEBULA EPO OR EP1 TEXACO PREMIUM RB)		
2	V-869	7	A. LIMITORQUE VALVE MOTOR OPERATOR	ORIGINAL EQUIPMENT	COMPLETE (NOTE B)
		26	B. POWER CABLES - KERITE 600 VOLT POWER	(A,B,C,D,E)	
		26	C. CONTROL CABLES - KERITE 600 VOLT CONTROL		
		32	D. MOTOR-TO-LEAD SPLICES - SCOTCH #70 SILICON RUBBER TAPE		
		NONE	E. LUBRICANTS AND GREASES (EXXON NEBULA EPO OR EP1 TEXACO PREMIUM RB)		
3	LS-1925 A&B	19	A. MADISON LEVEL SWITCH	ORIGINAL EQUIPMENT (A)	(SEE NOTE C)
4	C-3	24	A. CROUSE HINDS ELECTRICAL PENETRATION	ORIGINAL EQUIPMENT (A)	COMPLETE (NOTE D)
	D-2	31	B. AMP TERMINAL LUG	INSTALLED DURING PRIOR	
	D-8	30	C. CABLE SPLICE - RAYCHEM HEAT SHRINK	OUTAGE (B,C,D)	
	D-9		D. CABLE SPLICE - SCOTCH #70 SILICON RUBBER		

(95460NH/ccc)

TABLE 3 (Cont'd)

SYSTEM: AUXILIARY COOLING

MASTER LIST OF ELECTRICAL EQUIPMENT IMPORTANT  
TO SAFETY TO BE ENVIRONMENTALLY QUALIFIED  
H. B. ROBINSON S.E. PLANT UNIT 2

ITEM NO.	PLANT I.D. NO.	NRG-TER NO.	DESCRIPTION	EXPECTED OR ACTUAL INSTALLATION/OPERATION	ENVIRONMENTAL QUALIFICATION
1	V-744 A&B	6	A. LIMITORQUE VALVE MOTOR OPERATOR	REPLACEMENT DATE	COMPLETE (NOTE M)
		26	B. POWER CABLES - KERITE 600 VOLT POWER	3/31/85 (A)	
		26	C. CONTROL CABLES - KERITE 600 VOLT CONTROL	ORIGINAL EQUIPMENT	
		32	D. MOTOR-TO-LEAD SPLICES - SCOTCH #70 SILICON RUBBER TAPE	(B,C,D,E)	
		NONE	E. LUBRICANTS AND GREASES (EXXON NEBULA EPO OR EP1 TEXACO PREMIUM RB)		
2	RHR A&B	22	A. WESTINGHOUSE MOTORS-RESIDUAL HEAT REMOVAL PUMP	ORIGINAL EQUIPMENT (A,B,C,D)	COMPLETE (NOTE F)
		32	B. MOTOR-TO-LEAD SPLICE - SCOTCH #70		
		26	C. POWER CABLES - KERITE		
		NONE	D. LUBRICANTS AND GREASES (TEXACO PREMIUM RB)		
3	V-860 A&B	8	A. LIMITORQUE VALVE MOTOR OPERATOR	ORIGINAL EQUIPMENT	COMPLETE (NOTE B)
	V-861 A&B	26	B. POWER CABLES - KERITE 600 VOLT POWER	(A,B,C,D,E)	
		26	C. CONTROL CABLES - KERITE 600 VOLT CONTROL		
		32	D. MOTOR-TO-LEAD SPLICES - SCOTCH #70		
		NONE	E. LUBRICANTS AND GREASES (EXXON NEBULA EPO OR EP1 TEXACO PREMIUM RB)		
4	V-863 A&B	7	A. LIMITORQUE VALVE MOTOR OPERATOR	ORIGINAL EQUIPMENT	COMPLETE (NOTE B)
		26	B. POWER CABLES - KERITE 600 VOLT POWER	(A,B,C,D,E)	
		26	C. CONTROL CABLES - KERITE 600 VOLT CONTROL		
		32	D. MOTOR-TO-LEAD SPLICES - SCOTCH #70		
		NONE	E. LUBRICANTS AND GREASES (EXXON NEBULA EPO OR EP1 TEXACO PREMIUM RB)		
5	D-2	24	A. CROUSE-HINDS ELECTRICAL PENETRATION	ORIGINAL EQUIPMENT (A)	COMPLETE (NOTE D)
		31	B. AMP TERMINAL LUG	INSTALLED DURING PRIOR	
		30	C. CABLE SPLICE - RAYCHEM HEAT SHRINK	OUTAGE (B,C,D)	
			D. CABLE SPLICE - SCOTCH #70 SILICON RUBBER		

TABLE 3 (Cont'd)

SYSTEM: CHEMICAL AND VOLUME  
CONTROL

MASTER LIST OF ELECTRICAL EQUIPMENT IMPORTANT  
TO SAFETY TO BE ENVIRONMENTALLY QUALIFIED  
H. B. ROBINSON S.E. PLANT UNIT 2

ITEM NO.	PLANT I.D. NO.	NRC-TER NO.	DESCRIPTION	EXPECTED OR ACTUAL INSTALLATION/OPERATION	ENVIRONMENTAL QUALIFICATION
1	CVC-200 A&B&C	3 26	A. ASCO SOLENOID VALVE B. CONTROL CABLE - KERITE	REPLACED DURING PRIOR OUTAGE (A) ORIGINAL EQUIPMENT (B)	COMPLETE (NOTE H)
2	CVC-381	7 16 26 32 NONE	A. LIMITORQUE VALVE MOTOR OPERATOR B. POWER CABLES - KERITE 600 VOLT POWER C. CONTROL CABLES - KERITE 600 VOLT CONTROL D. MOTOR-TO-LEAD SPLICES - SCOTCH #70 E. LUBRICANTS AND GREASES (EXXON NEBULA EPO OR EPI TEXACO PREMIUM RB)	ORIGINAL EQUIPMENT (A,B,C,D,E)	COMPLETE (NOTE B)
3	C-3 D-9	24 30	A. CROUSE-HINDS ELECTRICAL PENETRATION B. CABLE SPLICE - RAYCHEM HEAT SHRINK C. CABLE SPLICE - SCOTCH #70 SILICON RUBBER D. AMP TERMINAL LUG	ORIGINAL EQUIPMENT (A) INSTALLED DURING PRIOR OUTAGE (B,C,D)	COMPLETE (NOTE D)

schedule for completion of their installation. As the equipment is identified and approved, those which require environmental qualification will be added to the (b)(2) list. At that time, it will be determined if JCOs are needed or the presence of sufficient qualification documentation in file will be stated.

The environmental qualification of master list electrical equipment established by this submittal will be furthered by the following programs. During the combined Refueling/Steam Generator outage started January 26, 1984, a walkdown will be performed to: verify valid equipment installation, collect nameplate data for record/file purposes, and determine and further submergence effects (Reference: Section I, Generic Issues - submergence). Additionally, equipment replacement will take place in order to provide documented qualified electrical equipment. The following are scheduled to be replaced: motor actuators with brakes in containment (V 744 A&B); motor actuators in containment with Class B motor insulation (V 866A&B); and Containment Water Level Monitor Transmitters (LT-801, A, B, C, D and LT 802 A, B, C, & D). During these outages, a spare parts listing will be compiled of items/components/assemblies that must be provided and maintained in appropriate qualification level in order to be used for operational maintenance or failure replacement of qualified equipment.

A continuing program will be the replacement of motor actuator lubricants to provide all actuators with the currently recommended Limitorque lubricant (Exxon Nebula EPO or EPl). To maintain the environmental qualification of master list equipment, existing maintenance programs will be augmented to implement surveillance, preventative maintenance and repair of environmentally qualified electrical equipment. By March 31, 1985 the system will be in place at HBR2 to track the on-going qualification maintenance of all electrical equipment important to safety.