

Southern California Edison Company

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May 20, 1983

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Director, Office of Nuclear Reactor Regulation
Attention: Mr. George W. Knighton, Branch Chief
Licensing Branch No. 3
U. S. Nuclear Regulatory Commission
Washington, D.C. 20555

Gentlemen:

Subject: Docket Nos. 50-361 and 50-362
San Onofre Nuclear Generating Station (SONGS)
Units 2 and 3

The purpose of this letter is to comply with the requirements of 10 CFR 50.49(g). The enclosure identifies electrical equipment important to safety that are either environmentally qualified or in the process of being qualified. All equipment except the auxiliary feedwater pump motors meet NUREG-0588 guidelines for a Category II plant (IEEE 323-1971 standard). However, some equipment will not be assigned a qualified life until additional testing has been completed. The updated status of outstanding items is as follows:

1. Rosemount Transmitters

Foxboro Transmitters

These transmitters all have qualification documentation available which meet IEEE 323-1971 requirements. Since SONGS 2&3 are Category II plants, this complies with NUREG-0588 requirements. The qualification documentation, however, is based on the testing of unaged components and, with the exception of the Rosemount transmitters, separate effects testing methods were used in the qualification process.

In order to improve the qualification of the transmitters and to establish a reasonable qualified life, SCE has joined with other utilities to qualify the transmitters to IEEE 323-1974 specifications. Full qualification of the transmitters to IEEE 323-1974 specifications will be completed prior to March 31, 1985.

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2. Auxiliary Feedwater Pump Motors

The auxiliary feedwater pump motors containing replacement bearings made from cast iron were environmentally qualified for a harsh environment. Due to bearing failures in June, 1982 the cast iron bearings were replaced with the originally equipped babbitt bearings. Auxiliary feedwater pump motor environmental qualification was addressed by separate correspondence in the March 7, 1983 letter from SCE (K. P. Baskin) to the NRC (G. W. Knighton). The schedule for qualification of this equipment is dependent on NRC acceptance of the proposed hardware modification described in the referenced letter.

If you have any questions or comments, please contact me.

Very truly yours,

KP Baskin

Enclosure

cc: Mr. H. Rood, Project Manager
Licensing Branch No. 3

ENCLOSURE

ENVIRONMENTAL QUALIFICATION STATUS OF ELECTRICAL EQUIPMENT

A. Fully Qualified Equipment

<u>Equipment Name</u>	<u>Manufacturer</u>	<u>Description</u>
Fan Motor	Reliance	Class IE Inside Containment Motors with Class H, Type RN insulation
Cable and Wire Connectors	AMP, Inc.	Radiation Resistant PIDG and Plasti-Grip Terminals
600 V Instrumentation and Control Cable	Raychem Corp.	Flamtrol insulated cable
Heat Trace System Resistance Temperature Detector	Thermon Manufacturing Co.	RTD with Kapton-F insulated leads
Electrical Penetration Assembly	Westinghouse	Medium voltage canister type
		Low voltage power and control, low level signal and thermocouple modular type
		Coax and triax modular type
		Low voltage power large conductor modular type
Heat Shrink Material	Raychem, Corp.	WCSF-N sleeving
		NMCK and NPKX motor connection kits
		HVMC-5 motor connection kit
		HVT cable termination kit
Thermocouple Cable	Galite, Inc.	UK6 and TK6 cable
Solenoid Valve	Valcor	V52600 Series
300 V Instrumentation Cable; 600 V Control Cable; SIS Cable	Rockbestos	Firewall III Cable

<u>Equipment Name</u>	<u>Manufacturer</u>	<u>Description</u>
8kV Power Cable	Anaconda Company	EPR insulated cable
Electric Conductor Seal Assembly	Conax Corp.	Custom built
600 V Power Cable	GE	Vulkene Supreme; EPR insulated cable
Heat Trace System Wire	Thermon, Corp.	TEK cable
Level Switch	Magnetrol International	FLS-X-MPX-SIMD4DC
Post-LOCA H ₂ Monitor	GE	47E240609
Thermocouple	Weed Instrument Co.	T4B375U-9A
Solenoid Valve	Automatic Switch Co.	NP8316, 8320, 8321, 8344 Series
Circuit Breakers	Gould, Inc.	JL and KP Frame
Safeguard Pump Motors	Westinghouse	Outside Containment Nuclear Class IE Motors
Resistance Temperature Detector	Rosemount	104AFV-1, 104AFC-1
Charging Pump Motor	Louis-Allis	CG15C-405TS
Fission Detector with Integral Cable	General Atomic Co.	RS-C3-2540-102
Spray Chemical Addition Pump Motor	Siemens-Allis, Inc.	RG-215T
Coax Cable	E. J. Stephens, Inc.	RG-71, RG-59
Fan Motor	Reliance	Class IE outside containment motor with Class H, Type RH insulation
Preamplifier/Filter Assembly	General Atomic Co.	PA5Q1
Level Transmitter	Transamerica DeLaval, Gems Sensor Div.	XM-36498, XM-62475, XM-51410
Coax Cable	Brand Rex Co.	CS-71546, CD-95146
Valve Position Monitor	Technology for Energy Co.	TEC 1414

<u>Equipment Name</u>	<u>Manufacturer</u>	<u>Description</u>
Radiation Monitor Detector	General Atomic Co.	RD-23
Valve Motor Actuator	Limitorque Corp.	SMB, SB series with Class RH or Class B insulation
Main Steam Isolation Valve	W-K-M	40"x30"x40" GSO MD2 POW-R-SEAL MSIV
Solenoid Valve	Target Rock Corp.	75G Series through 75G-025
Coax Cable Connectors	Amphenol	Type "N", plug models 34520-1000, 82-5585-1000; jack models 18250-1000, 82-5526-1000; 82-63; 82-61; 4900; 82-814-1000
Hydrogen Recombiner	Westinghouse	Custom built
Hydromotor Valve Operator	ITT	NH93
Limit Switch	NAMCO	EA-180 Series
Coax Cable	Boston Insulated Wire	12094-C-G22

B. Equipment Undergoing Test

Qualified for first cycle operation based on IEEE 323-1971 vintage test reports. Full qualification will occur prior to March 31, 1985.

<u>Equipment Name</u>	<u>Manufacturer</u>	<u>Description</u>
Pressure Transmitter	Foxboro Co.	E-10 Series; NE-10 Series
Pressure Transmitter	Rosemount	1140 Series A

C. Equipment Not Qualified

<u>Equipment Name</u>	<u>Manufacturer</u>	<u>Description</u>
Auxiliary Feedwater Pump Motor	Siemans-Allis	EL8-90247