

LONG ISLAND LIGHTING COMPANY

SHOREHAM NUCLEAR POWER STATION
P.O. BOX 618, NORTH COUNTRY ROAD • WADING RIVER, N.Y. 11792

Direct Dial Number

June 30, 1983

SNRC-928

Mr. Harold R. Denton, Director Office of Nuclear Reactor Regulation U.S. Nuclear Regulatory Commission Washington, D.C. 20555

> Environmental Qualification Shoreham Nuclear Power Station - Unit 1 Docket No. 50-322

Dear Mr. Denton:

As part of our effort to provide complete and current information to NRC Staff acceptance review questions, we hereby submit the attached updated FSAR Table 3.11.1-2 entitled "Environmental Qualification for Class IE BOP Equipment Contained in BOP Specifications". We intend to submit this table in the next formal FSAR revision of Section 3.11. We are planning an August 1983 FSAR amendment submittal and will make every effort to include a rewrite of Section 3.11 at that time. The contents of this table were updated to eliminate all the "laters" in the existing table. This table, along with information presented in the Shoreham Environmental Qualification Report for Class IE Equipment and the Mechanical Equipment Environmental Conformance Report, collectively provide the information originally sought by NRC request 223.11. Our revised response to NRC request 223.11 will be included in the aforementioned formal submittal.

Should you have any questions, please do not hesitate to call this office.

Very truly yours,

J. L. Smith

Manager Special Projects
Shoreham Nuclear Power Station

GJG/law S3 Attachments

cc: J. Higgins

All Parties Listed on Attachment 1

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8307070066 830630 PDR ADDCK 05000322 PDR

ATTACHMENT 1

Lawrence Brenner, Esq.
Administrative Judge
Atomic Safety and Licensing
Board Panel
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Dr. Peter A. Morris
Administrative Judge
Atomic Safety and Licensing
Board Panel
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Dr. James H. Carpenter
Administrative Judge
Atomic Safety and Licensing
Board Panel
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Daniel F. Brown, Esq.
Attorney
Atomic Safety and Licensing
Board Panel
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Bernard M. Bordenick, Esq.
David A. Repka, Esq.
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

James Dougherty 3045 Porter Street Washington, D.C. 20008 Herbert H. Brown, Esq.
Lawrence Coe Lanpher, Esq.
Karla J. Letsche, Esq.
Kirkpatrick, Lockhart, Hill
Christoper & Phillips
8th Floor
1900 M Street, N.W.
Washington, D.C. 20036

Mr. Marc W. Goldsmith Energy Research Group 4001 Totten Pond Road Waltham, Massachusetts 02154

MHB Technical Associates 1723 Hamilton Avenue Suite K San Jose, California 95125

Stephen B. Latham, Esq. Twomey, Latham & Shea 33 West Second Street P.O. Box 398 Riverhead, New York 11901

Ralph Shapiro, Esq. Cammer and Shapiro, P.C. 9 East 40th Street New York, New York 10016

Matthew J. Kelly, Esq. State of New York Department of Public Service Three Empire State Plaza Albany, New York 12223

ENVIRONMENTAL QUALIFICATION FOR CLASS IE EQUIPMENT CONTAINED IN BOP SPECIFICATIONS

	Reactor Building (1)			Balance of	f Plant (2)	
Specification Description	Primary Contmt	Secondary Contmt	MCC Room	Diesel Room(4)	General Plant Area(5)	Special Environmental Qual- ification for Equipment in Potential Harsh Environment
4KV Switchgear (SH1-039)		X(7)			x	Requires modification in containment
Centrifugal Pumps (SH1-62G)			Х			Equipment is qualified
Position Switches (SH1-088 Field Spec)		х				Equipment is qualified
Carbon Steel MOVs (SH1-88AD-88V)	х	х		X	х	Equipment is qualified
Centrifugal Fans (SH1-102)		х				Equipment is qualified
Charcoal Filter Trains (SH1-105)		Х				Some equipment is qualified Test is in progress for the remaining equipment
Ventilation butterfly valves (SH1-111)		Х				Equipment is qualified
480V Motor Control Centers (SH1-115)		X(6)	х	х	x	Equipment in test program

ENVIRONMENTAL QUALIFICATION FOR CLASS IE EQUIPMENT CONTAINED IN BOP SPECIFICATIONS

	Reactor Building (1)			Balance o	f Plant (2)	
Specification Description	Primarv Contmt	Secondary	MCC Room	Diesel Room(4)	General Plant Area(5)	Special Environmental Qual- ification for Equipment in Potential Harsh Environment
120V AC & DC Distribution Boards (SH1-124)	on		х	х	х	Equipment is qualified
Cable (SH1-127 thru 131) (eg. SH1-129 Coaxial and Transaxial		х	Х	x	х	Equipment is qualified
Cable (SH1-129 Coax and Triax)	X(8)	х	Х	Х	Х	Equipment is qualified
Reactor Containment Electrical Penetrations (SH1-134)	х	х				Equipment is qualified
Miscellaneous Electrical Accessories (SH1-159)	x	х	х	Х	Х	Equipment is qualified
DC Motor Control Centers (SH1-168)		X(6)	Х			Equipment is qualified
Primary Containment Isolation Butterfly Valves (SH1-172)	х	х				Equipment is qualified
Drywell Floor Relief Valves (SH1-175)	х					Equipment is qualified

ENVIRONMENTAL QUALIFICATION FOR CLASS IE EQUIPMENT CONTAINED IN BOP SPECIFICATIONS

	Reactor Building (1)			Balance of	f Plant (2)	
Specification Description	Primary Contmt	Secondary Contmt	MCC Room	Diesel Room(4)	General Plant Area(5)	Special Environmental Qual- ification for Equipment in Potential Harsh Environment
Motor Operated Butterfly Valves (SH1-197)	1	х				Equipment is qualified
Manually Operated Diaphragm Valves (SH1-203)		Х		х	-х	Equipment is qualified
Manually operated stainless steel valves 2 in. and smaller (SH1-214)	х	х		х	X	Equipment is qualified
Special Check Valves (SH1-232)	х	х				Equipment is qualified
Loop Level Pumps (SH1-235)		x				Equipment is qualified
Miscellaneous Transformers (SH1-248)			х	х	x	Equipment is qualified
Motor Operation Carbon Steel Valves (SH1-253)	х	х		х	x	Equipment is qualified
Axial Flow Fans (SH1-270)		х		х	x	Equipment is qualified

ENVIRONMENTAL QUALIFICATION FOR CLASS IE EQUIPMENT CONTAINED IN BOP SPECIFICATIONS

	Reactor Bu	uilding (1)		Balance of	f Plant (2)	
Specification Description	Primary Contmt	Secondary Contmt	MCC Room	Diesel Room(4)	General Plant Area(5)	Special Environmental Qual- ification for Equipment in Potential Harsh Environment
Unit Coolers (SH1-276)		х	х	х	х	Equipment is qualified
Bronze Valves 3 in. & Smaller (SH1-281)		Х				Equipment is qualified
Hydrogen Recombiner Units (SH1-289)		х			х	Some equipment is qualified Test is in progress for the remainder of equipment
Electrical Motor Operat Control Valves (SH1-310		х				Test program planned
Air Operated Control Valves (SH1-318)	х	х				Equipment is qualified
Auto Temp Controls for HVAC (SH1-319)		X		х	х	Some equipment is qualified Test is in progress for the remainder of equipment
Radiation Monitoring System (SH1-332)		х			х	Reg. Guide 1.97
Gas Analyzers (SH1-344)		х				Equipment is qualified

ENVIRONMENTAL QUALIFICATION FOR CLASS IE EQUIPMENT CONTAINED IN BOP SPECIFICATIONS

	Reactor Building (1)		Balance of	f Plant (2)		
Specification Description	Primary Contmt	Secondary Contmt	MCC Room	Diesel Room(4)	General Plant Area(5)	Special Environmental Qual- ification for Equipment in Potential Harsh Environment
Pressure & Temperature Switches (SH1-348)		х				Equipment is in test program
Electronic Transmitters & Resistance Temperature Detectors (SH1-406)	х	Х			X	Equipment is qualified
Resistance Temperature Detectors (SH1-406A)	х	х			x	Equipment is qualified
Level Switches (SH1-407)		х		Х	x	Equipment is in test program
Air Operator Butterfly Valves (SH1-423)		x				Equipment is qualified
Automatic Transfer Switches (SH1-438)			х			Equipment is qualified
480V Motor Generator Sets (SH1-439)			х			Motor Generators are qualified, Control Cabinets are in test program.
Instrument Cable (SH1-455)	х	Х	х	х	х	Equipment is qualified
Electrical Containment Penetrations (SH1-456)	X(9)	х				Equipment is qualified

ENVIRONMENTAL QUALIFICATION FOR CLASS IE EQUIPMENT CONTAINED IN BOP SPECIFICATIONS

	Reactor Building (1)			Balance of	f Plant (2)	
Specification Description	Primary Contmt	Secondary Contmt	MCR Room	Diesel Room(4)	General Plant Area(5)	Special Environmental Qualification for Equipment in Potential Harsh Environment
Leakage Return Pump (SH1-457)		х				Equipment is qualified
Level Transmitters (SH1-473)		x				Equipment is qualified
Post Accident Radiation Monitoring System (SH1-475)	х					Equipment in test program
Control & Inst Cable (SH1-484)	х	х	Х	x	Х	Equipment is qualified
Thermocouple Extension Wire (SH1-485)	х	х	х	х	х	Equipment is qualified
Solenoid Valves (S15.54)		Х				Equipment is qualified
Solenoid Valves (Field Purchased)		х				Equipment is qualified
Limit Switches (Field Purchased)	х					Equipment is qualified

- NOTES: (1) Service conditions for qualification of equipment in the primary containment, secondary containment and MCC rooms are given in the Environmental Qualification Report (EQR)
 - (2) Considered mild environment
 - (3) Deleted
 - (4) Equipment in diesel rooms purchased for conventional industrial application with special consideration for temperature (see Section 9.4.10) (40-120 F).
 - (5) Equipment in general plant areas have been purchased for conventional industrial application.
 - (6) MCCs and distribution panels in reactor building (other than MCC room) are not required in the event of a line break in the secondary containment; those that are required are located in the MCC rooms. Those in reactor building were therefore purchased for conventional industrial application.
 - (7) System located in reactor building but not required for pipe break in the secondary containment.
 - (8) A subset of SH1-129 cable is restricted from primary containment Class IE use.
 - (9) Except Environment Qualification Report Zone A-22