Southern California Edison Company

P. O. BOX 800 2244 WALNUT GROVE AVENUE ROSEMEAD, CALIFORNIA 91770

K. P. BASKIN MANAGER OF NUCLEAR ENGINEERING, SAFETY, AND LICENSING

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Director of Nuclear Reactor Regulation Attention: D. M. Crutchfield, Chief Operating Reactors Branch No. 5 Division of Licensing U. S. Nuclear Regulatory Commission Washington, D.C. 20555

Gentlemen:

Subject: Docket No. 50-206 Environmental Qualification of Electrical Equipment San Onofre Nuclear Generating Station Unit 1

By letter dated February 23, 1982, you requested that we provide additional information regarding the environmental qualification of equipment installed as part of the TMI requirements. Your letter requested that the information be provided to Franklin Research Center.

The enclosure to this letter provides the environmental qualification information of the electrical equipment installed in a harsh environment as part of the TMI requirements. The equipment is identified by NUREG 0578 and 0737 sections. Information on equipment installed in a mild environment as part of the TMI requirements will be provided to the NRC by July 23, 1982. That information will include identification of the equipment and its location within the plant.

As part of our October 31, 1980 letter, which was updated by our response to the NRC's SER dated November 4, 1981, the environmental conditions for the station areas which would have a harsh environment were identified. The Enclosure to this letter identifies the location of the equipment installed which would correspond to the areas identified in the aforementioned documents.

For completeness, we have also included the qualification documents indicated in the Enclosure to this letter. With regards to the Enclosure, there are five components which do not have qualification documentation provided. These components are identified by the notes and include:

- 1. Pressurizer Safety Valve Position Indication
- 2. Reactor Coolant Temperature Detectors
- 3. Limit Switches
- 4. Containment Hydrogen Monitor

5. Containment Water Level Monitor



TELEPHONE (213) 572-1401

AOY8



July 2, 1982

Mr. D. M. Crutchfield

The valve position indicators are currently being tested to qualify these indicators in accordance with IEEE 323-74. Based on current information these tests are scheduled to be completed and the qualification documentation available by September 30, 1982. Once the qualification documentation is available, we will transmit it to you. Until this testing has been completed, there are other indirect means for monitoring the pressurizer safety valve position.

A test program in accordance with IEEE 323-1974 has been completed for the Reactor Coolant Temperature Detectors. The qualification documentation is currently under review and will be provided to you when that review is completed. It is expected that this review will be completed and the documentation submitted by July 30, 1982.

Certain NAMCO Snap Lock Limit Switches identified in the Enclosure have been installed on containment isolation valves. These switches are qualified in accordance with IEEE 323-74. Qualification documentation for the switches has recently been received from the vendor. The information is currently being reviewed and should be completed by July 30, 1982.

The containment hydrogen monitors have not been tested for operation in the post-accident environment. We are currently developing test programs to qualify the components in accordance with IEEE 323-74. When a firm schedule for testing has been established, we will provide it to you. We expect to have a schedule available by July 30, 1982. The hydrogen monitors are utilized to monitor containment hydrogen for initiating the hydrogen recombiners. The hydrogen recombiners are not physically or electrically associated with the hydrogen monitors. Therefore, operation of the recombiners is not dependent upon the monitors. Until the monitors have been qualified for post-accident use inside containment, the emergency operating procedures will be modified prior to return to operation to instruct the operators to begin operation of the recombiners.

The containment water level monitors are currently being tested to qualify these monitors in accordance with IEEE 323-74. The level manufacturer, Gems, is testing the monitors for SNUPPS. It is anticipated that the testing will be completed by August 31, 1982 with a final report completed by October 31, 1982. The water level monitors would be utilized for initiation of long-term recirculation. As indicated in our February 17, 1982 letter, means for initiating recirculation without the containment water level monitoring instrumentation is available.

-2-

Mr. D. M. Crutchfield

As part of our environmental qualification efforts, we will continue to review the qualification documentation for the equipment installed as part of TMI modifications. If you have any questions or desire additional information concerning the Enclosure to this letter, please let me know.

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Very truly yours,

WP Bushin

cc: Cyril J. Crane Franklin Research Center Parkway at Twentieth Philadelphia, PA 19103

TMI EQUIPMENT - HARSH ENVIRONMENTS

NUREG 0578 Section: 2.1.3a.

PRESSURIZER SAFETY VALVE POSITION INDICATION

Page 1 of 18

ፕሞቺዝ እር	PLANT		MFG. &		INSTL.	INSTL. BEFORE	NUREG - 0737 REF.	QUALI- FICATION
IIEM NU.	IAG NU.	EQUIPMENI	MODEL NO.	LOCATION	DATE	1/1/81	SEC.	DOC ENT
1	ZSH 2533, ZSL 2533, ZSH 3532, ZSL 3532	Crosby Valve Position Modification Kits (Position Switch Addition)	Crosby Valve Co.	Area 1 Containmen	3/20/81 t	No	IID3	Note 1

TMI EQUIPMENT - HARSH ENVIRONMENTS

NUREG 0578 Section: 2.1.3b-1

7

SUBCOOLING MONITORING SYSTEM

Page 2 of 18

5

ITEM NO.	PLANT TAG NO.	EQUIPMENT	MFG. & MODEL NO.	LOCATION	INSTL. DATE	INSTL. BEFORE 1/1/81	NUREG - 0737 REF. SEC.	QUALI- FICATON DOCULANT
2	TE-400A, 400B, 400C, 401A/3401A, 401B, 401C, 402A/2402A, 402B, 402C, 410A, 410B, 410C, 411A/ 3411A, 411B, 411C, 412A/ 2412A, 412B, 412C, 420A, 420B, 420C, 421A/3421A, 421B, 421C, 422A/3422A, 422B, 422C	Resistance Temperature Detector	Weed Instr. Co. ID6E/ 612D-1A-D- 6-C-16.5- 0-0	Area 1 Containment	3/13/81	No	IIF2	Note 2

TMI EQUIPMENT - HARSH ENVIRONMENTS

NUREG 0578 Section: 2.1.4

CONTAINMENT ISOLATION UPGRADING

Page 3 of 18

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ITEM NO.	PLANT TAG NO.	EQUIPMENT	MFG. & MODEL NO.	LOCATION	INSTL. DATE	INSTL. BEFORE 1/1/81	NUREG - 0737 REF. SEC.	QUALI- FICATION DOCUMENT
3	PT 3000A, B & C	Pressure Transmitter	Foxboro NE11-GM	Area 1 Containment	4/1/81	No	IIE4.2	(1, 2)
4		Snap Lock Switch	NAMCO Controls EA 180-11302	Area 1 Containment	4/1/81	No	IIE4.2	(3)
5		Snap Lock Switch	NAMCO Control EA 180-12302	Area 1 Containment	4/1/81	No	IIE4.2	(3)
6		Snap Lock Switch	NAMCO Controls EA 180-14302	Area 1 Containment	4/1/81	No	IIE4.2	(3)
7		Snap Lock Switch	NAMCO Controls EA 180-15302	Area 1 Containment	4/1/81	No	IIE4.2	(3)
8		Snap Lock Switch	NAMCO Controls 740-50100	Area 1 Containment	4/1/81	No	IIE4.2	Note
9		Snap Lock Switch	NAMCO Controls 750-50100	Area 1	4/1/81	No	IIE4.2	Note 3

TMI EQUIPMENT - HARSH ENVIRONMENTS

NUREG 0578 Section: 2.1.4

CONTAINMENT ISOLATION UPGRADING

Page 4 of 18

							NUREG	
ITEM NO.	PLANT TAG NO.	EQUI PMENT	MFG. & MODEL NO.	LOCATION	INSTL. DATE	INSTL. BEFORE 1/1/81	- 0737 REF. SEC.	QUALI- FICATION DOCUMENT
10	SV-119 * SV-120 SV-121 SV-122 SV-123 SV-124	Solenoid Operated Globe Valve	Target Rock 81A-004	Area 2	4/1/81	No	IIE4.2	(4)
11	SV-125*	Solenoid Valve, Class 2500,	Target Rock 81A-003	Area 1	4/1/81	No	IIE4.2	(4)
12	SV-1212-8 * SV-1212-9	Solenoid Valve Class 2500, 1" Type K	Target Rock 81A-001	Area 1	4/1/81	No	IIE4.2	(4)
13	PT-1120A,** B, C PT-1121A B, C	Pressure Transmitter	Foxboro NE-11GM	Area 1	4/1/81	No	IIE4.2	(1, 2)

*These solenoid valves were previously identified in our October 31, 1980 submittal on Table 5, Items 31, 32, 33 and 34. The previously identified ASCO solenoid valves have been replaced with Target Rock solenoid valves.

**These pressure transmitters were previously identified in our October 31, 1980 submittal on Table 5, Item 50.

TMI EQUIPMENT - HARSH ENVIRONMENTS

Page 5 of 18

NUREG 0578 Section: 2.1.5a. POST-ACCIDENT HYDROGEN CONTROL-HYDROGEN RECOMBINERS

ITEM NO.	PLANT TAG NO.	EQUI PMENT	MFG. & MODEL NO.	LOCATION	INSTL. DATE	INSTL. BEFORE 1/1/81	NUREG - 0737 REF. SEC.	QUALI- FICATION DOCUMENT
14		H ₂ Recombiner	Westinghouse, Model B	Area 1 Containment	3/6/81	No	IIE4.1	(5) Note 6

TMI EQUIPMENT - HARSH ENVIRONMENTS

NUREG 0578 Section: 2.1.7

AUXILIARY FEEDWATER

Page 6 of 18

2

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ITEM NO.	PLANT TAG NO.	EQUIPMENT	MFG. & MODEL NO.	LOCATION	INSTL. DATE	INSTL. BEFORE 1/1/81	- 0737 REF. SEC.	QUALI- FICATION DOCU
15	LT-2400A, B & C	Level Transmitter	Foxboro, N-E13DMIIM2- B-F-L	Area 1 Containment	4/17/81	No	•	(1, 2)
16	For LT-3400 A, B, & C	Transmitter Capsule	Foxboro, N-E13 DM W/2, Gaskets 150 ZA/150 ZT	Area 1 Containment	4/17/81	No		(1, 2)
17	FCV-2300, 2301, 3300, 3301	Flow Control Valve (For NAMCO EA 180- 11302 Switch)	Copes-Vulcan D-100-100 Act. 3" Class 900	Area 6	3/27/81	No	IIE1.2	(3, 6)
18	CV-3201	Control Valve (For NAMCO EA 180- 11302 Switch)	Copes-Vulcan D-100-160 3" Class 900	Area 6	3/27/81	No	IIE1.2	(3, 🍎
19	CV-3213	Control Valve (For NAMCO EA 180- 11302 Switch)	Copes-Vulcan D-100-100 3" Class 900	Area б	3/27/81	No	IIE1.2	(3, 6)

TMI EQUIPMENT - HARSH ENVIRONMENTS

NUREG 0578 Section: 2.1.7

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AUXILIARY FEEDWATER

Page 7 of 18

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ITEM NO.	PLANT TAG NO.	EQUI PMENT	MFG. & MODEL NO.	LOCATION	INSTL. DATE	INSTL. BEFORE 1/1/81	NUREG - 0737 REF. SEC.	QUALI- FICATION DOCUMENT
20	FTH-3453, 3454, 3456, FTL-3453, 3454, 3455	Flow Transmitter	Foxboro N-E13DM- 1AM-Z-B-F	Area 6	2/27/81	No		(1, 2)
21	PT-2010, 3010	Pressure Transmitters	Foxboro N-E11GMI AA2-B-I	Area 6	2/27/81	No		(1, 2)
22	PT-2011, 3011	Pressure Transmitter	Foxboro N-E11GMI AE2-B-I	Area 6	2/27/81	No		(1, 2)

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TMI EQUIPMENT - HARSH ENVIRONMENTS

NUREG	0578 Section:	: 2.1.8a	POST ACCIDENT SAMP	LING SYSTEM			P	age 8 of 18
ITEM NO.	PLANT TAG NO.	EQUIPMENT	MFG. & MODEL NO.	LOCATION	INSTL. DATE	INSTL. BEFORE 1/1/81	NUREG - 0737 REF. SEC.	QUALI- FICATION DOCUMENT
23	SV 3302	Solenoid Valve	Target Rock 79RR-003	Area 1	(5/7/82)	No	IIB3	(4)
24	SV 3303	Solenoid Valve	Target Rock 80 B-001-10, PN 1032110-4	Area 1	(5/7/82)	No	IIB3	(4)

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TMI EQUIPMENT - HARSH ENVIRONMENTS

NURE	G 0578 Section:	2.1.8b-1	CONTAINMENT	HIGH R.	ANGE MONITOR		· · · · · · · · · · · · · · · · · · ·		Page 9 of 18
	PLANT	EOUT DMENU	MFG.	& NO		INSTL.	INSTL. BEFORE	NUREG - 0737 REF.	QUALI- FICATION
TISH NO.	ING NO.	EQUI FMENI	MODEL	NU.	LUCATION	DATE	1/1/81	SEC.	DOCU NT
25	RT-1255 RT-1257	Gamma Ionization Chamber RD-23 Detector	General r RD-23	Atomio	c Area 1 Containmen	(5/4/82) t	No	II.F.1	(7)

TMI EQUIPMENT - HARSH ENVIRONMENTS

NUREG 0578 Section: 2.1.8b-2

VENT STACK RADIATION MONITOR

Page 10 of 18

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ITEM NO.	PLANT TAG NO.	EQUI PMENT	MFG. & MODEL NO.	LOCATION	INSTL. DATE	INSTL. BEFORE 1/1/81	NUREG - 0737 REF. SEC.	QUALI- FICATION DOCUMENT
26	-	Temperature Sensing Probe	YSI-Sostman 4116-1/4-23	Area 3	(5/4/82)	No	II.F.1	(8)
27	-	Thermometer	Weston 4303	Area 3	(5/4/82)	No	II.F.1	(8)
28	-	Differential Pressure Gauge	Dwyer 2001	Area 3	(5/4/82)	No	II.F.1	(8)
29	-	Differential Pressure Transducer	Validyne Eng. Corp. DP45+/ -11N H20	Area 3	(5/4/82)	No	II.F.1	(8)
30	-	Offline Gas Detector	General Atomic RD - 52	Area 3	(5/4/82)	No	II.F.1	(9, 10)
31	_ .	Offline Gamma	General Atomic RD-53	Area 3	(5/4/82)	No	II.F.1	(9)
32	-	Gamma Iodine Detector	General Atomic RD-55	Area 3	(5/4/82)	No	II.F.1	(9, 10)

TMI EQUIPMENT - HARSH ENVIRONMENTS

NUREG 0570 SECTION: 2.1.00-3 PRESSURFICER SAFETY VALVE POSITION INDICATION
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Page 11 of 18

ITEM NO.	PLANT TAG NO.	EQUI PMENT	MFG. & MODEL NO.	LOCATION	INSTL. DATE	INSTL. BEFORE 1/1/81	NUREG - 0737 REF. SEC.	QUALI- FICATION DOCUNIT
33		Radiation Detectors	Gen. Atomic Co. RD-1, RD-2A	Area 1	(2/11/82)	No	II.F.1	(11)

TMI EQUIPMENT - HARSH ENVIRONMENTS

NUREG 0578 Section: 3.1.1

CONTAINMENT WIDE RANGE PRESSURE

Page 12 of 18

ITEM NO.	PLANT TAG NO.	EQUI PMENT	MFG. MODEL	& NO .	LOCATION	INSTL. DATE	INSTL. BEFORE 1/1/81	NUREG - 0737 REF. SEC.	QUALI- FICATION DOCUMENT
34	PT-2001 PT-3001	Pressure Transmitter	Foxboro CAP. C	NE-11(GM Area 1	5/2/81	No	II.F.1.4	(1, 2)

TMI EQUIPMENT - HARSH ENVIRONMENTS

NUREG 0578: Section: 3.1.2

CONTAINMENT HYDROGEN INDICATION

Page 13 of 18

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ITEM NO.	PLANT TAG NO.	EQUIPMENT	MFG. & MODEL NO.	LOCATION	INSTL. DATE	INSTL. BEFORE 1/1/81	NUREG - 0737 REF. SEC.	QUALI- FICATION DOCUMENT
35	PE-2001, PE-3001	Pressure Sensor/ Transmitter	Exosensors	Area 1 Containment	(4/7/82)	No	IIF.1	Note 4
36	AE-H ₂ -2001, AE-H ₂ -3001	H ₂ Concentration Partial Pressure Sensor	Exosensors	Area 1 Containment	(4/7/82)	No	IIF.1	Note 4
37	TE-2001, TE-3001	Pressure and Temperature Transmitters	Exosensors	Area 1 Containment	(4/7/82)	No	IIF.1	Note 4
38	SV-2004, SV-3004	Solenoid Valves 1/2" Isolation, 125 VAC/DC	Target Rock 81A-002	Area 1 Containment	(4/7/82)	No	IIF.1	(4)

TMI EQUIPMENT - HARSH ENVIRONMENTS

NUREG 0578 Section: 3.1.3

CONTAINMENT WATER LEVEL MONITORING

Page 14 of 18

ITEM NO.	PLANT TAG NO.	EQUI PMENT	MFG. & MODEL NO.	LOCATION	INSTL. DATE	INSTL. BEFORE 1/1/81	NUREG - 0737 REF. SEC.	QUALI- FICATION DOCUMENT
39	LE-2001 LE-3001	Level Transmitter, (Element) 72"	GEMS XM-54852- 72-1500	Area 1 Containmen	(3/25/82) nt	No	II.F.1.5	Note 5
40	LE-2002A LE-3002A	Level Transmitter, (Element) 79"	GEMS XM-54853- 79-0510	Area 1 Containme	(3/25/82) nt	No	II.F.1.5	Note 5
41	LE-2002B LE-3002B	Level Transmitter, (Element) 90"	GEMS XM-54853- 90-0510	Area 1 Containme	(3/25/82) nt	No	II.F.1.5	Note 5
42	LE-2002C LE-3002C	Level Transmitter (Element) 90"	GEMS XM-54852- 90	Area 1 Containme	(3/25/82) nt	No	II.F.1.5	Note 5

TMI EQUIPMENT - HARSH ENVIRONMENTS

NUREG 0578 Section: 3.2

REACTOR COOLANT SYSTEM VENTING

Page 15 of 18

ITEM NO.	PLANT TAG NO.	EQUI PMENT	MFG. & MODEL NO.	LOCATION	INSTL. DATE	INSTL. BEFORE 1/1/81	NUREG - 0737 REF. SEC.	QUALI- FICATION DOCUMENT
43	SV2401,2,3,4	Solenoid Vent Valves	Target Rock 80EE-001	Area 1 Containment	4/30/82	No		(4)

TMI EQUIPMENT - HARSH ENVIRONMENTS

ALL TMI ELECTRICAL

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Page 16 of 18

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ITEM NO.	PLANT TAG NO.	EQUI PMENT	MFG. & MODEL NO.	LOCATION	INSTL. DATE	INSTL. BEFORE 1/1/81	NUREG - 0737 REF. SEC.	QUALI- FICATION DOCUNENT
44		Heat-Skrinkable Splice Kit	Raychem (Typical WCSF-070-6N)	Area 1 Containment	1981– 1983	No	IIB3, IID3, IIE1.2, IIE3.1, IIE4.1, IIE4.2, IIF2	(12)

TMI EQUIPMENT - HARSH ENVIRONMENTS

ALL TMI ELECTRICAL

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ITEM NO.	PLANT TAG NO.	EQUI PMENT	MFG. & MODEL NO.	LOCATION	INSTL. DATE	INSTL. BEFORE 1/1/81	NUREG - 0737 REF. SEC.	QUALI- FICATION DOCUMENT
45		600 V Power Cable	Rockbestos (Flame Resistant Cross-linked Polyolefin)	Area 1 Containment	1981 - 1983	No	IIB3, IID3, IIE1.2, IIE3.1, IIE4.1, IIE4.2, IIF2	(13)
46		600 V Power Cable	With Neoprene Jacket, (Ethylene - Propylene with Hypalon Jacket) Firewall III, Firewall EP	Area 1 Containment	1981– 1983	No	IIB3, IID3, IIE1.2, IIE3.1, IIE4.1, IIE4.2, IIF2	(13, 14)
47		Control and Instrument Cable	Rockbestos (Flame Resistant Cross-Linked Polyolefin with Neoprene Jacket	Area 1 Containment	1981– 1983	No	IIB3, IID3, IIE1.2, IIE3.1, IIE4.1, IIE4.2, IIF2	(15, 16, 17)

TMI EQUIPMENT - HARSH ENVIRONMENTS

ALL TMI ELECTRICAL

Page	18	of	18
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ITEM NO.	PLANT TAG NO.	EQUIPMENT	MFG. & MODEL NO.	LOCATION	INSTL. DATE	INSTL. BEFORE 1/1/81	NUREG - 0737 REF. SEC.	QUALI- FICATION DOCULENT
48		Thermocouple Cable, No. 16, Solid Iron- Constantant Type JX	Revere	Area 1 Containment	1981 - 1983	No	IIB3, IID3, IIE1.2, IIE3.1, IIE4.1, IIE4.2, IIF2	(18, 19)
49		Instrument Penetrations	Conax	Area 1 Containment	1981 - 1983	No	IIB3, IID3, IIE1.2, IIE3.1, IIE4.1, IIE4.2, IIF2	(20)
50		Electric Conductor Seal Assemblies	Conax N-11001-56, N-11001-57, N-11001-33	Area 1 Containment	1981 - 1983	No	IIB3, IID3, IIE1.2, IIE3.1, IIE4.1, IIE4.2, IIF2	(21)

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QUALIFICATION DOCUMENTS

- 1. Foxboro Test Report T3-1013, dated May 1975.
- 2. Foxboro Test Report T3-1068, dated August 1973.
- 3. NAMCO Qualification Report prepared by ACME-Cleveland Development Company, dated September 5, 1978. Reference File No. S023-507-2-1-466.
- 4. Target-Rock Qualification Report 2375, dated September 26, 1979.
- 5. W CAP 9346
- 6. ASCO Test Report No. AQS-21678/TR, Revision A, June 1980.
- 7. General Atomic Report E-254-960, December 15, 1980. Test Report Class 1E Design Qualification Testing of Analog High Range Radiation Monitor.
- 8. General Atomic Report E-255-968, March 1981. Qualification Test Report for Class 1E Equipment for Wide Range Gas Monitoring System.
- 9. General Atomic Report E-255-1060, November 1981, Qualification Test Report for Process Monitor Directors.
- 10. General Atomic Report E-255-996, July 1981, Qualification Test Report for Class 1E Equipment for Generic Radiation Monitor Equipment.
- 11. General Atomic Report E-255-999, July 1981. Qualification Test Report for Class 1E Analog Area Monitor Systems.
- 12. FIRL Test Report F-C4033-3, January 1975. (This Test Report has been previously provided to FRC and is not included here.)
- 13. Qualification of Firewall III Class IE Electric Cables. Rockbestos Company, January 1980.
- 14. Cerro Wire & Cable Co. Firewall EP Certified Test Report, December 1976.
- 15. Rockbestos Company, Qualification of Firewall III, Class IE Electric Cables, February 1, 1977. (This Test Report has been previously provided to FRC and is not included here.)
- 16. Qualification of Firewall III, Class IE Control Cables Containing Factory Splices and KXL 420 Rework, BL 2023-304-6A-11-0, April 24, 1981.
- 17. Qualification of Firewall III, Class IE Instrumentation Cables Containing Factory Splices and KXL 420 Rework BL 2023-304-6A-10-0.

QUALFICATION DOCUMENTS

- 18. Test Results Obtained on Halar Insulated Wire. Revere. Dated January 1974.
- 19. Franklin Institute Research Laboratories Technical Report, July 1974, F-C3906 Qualification Tests of Electrical Cables.
- 20. Design Qualification Report for Low Voltage Instrumentation Electric Penetration Assemblies for Southern California Edison Company, SONGS 1, Conax Corporation, Report Numbers IPS-525.1 and IPS-525.2.
- 21. Design Qualification Material Test Report for Materials used in Conax Electric Penetration Assemblies and Electric Conductor Seal Assemblies, dated November 1979 No. IPS-325.

NOTES

- 1. This component is currently being tested. The tests are tentatively scheduled to be completed and the qualification documentation available by September 30, 1982.
- 2. Qualification testing of this component has been completed. The qualification documents are currently being reviewed for acceptance.
- 3. The qualification of this component is based on a NAMCO Qualification Report dated February 20, 1978. The report has been ordered from the vendor and will be available for submittal when it is received.
- 4. These components are scheduled to be tested for the San Onofre Unit 1 environment.
- 5. This component is currently being tested. Additional testing will be necessary to include the San Onofre Unit 1 environment.

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6. The spray tests performed on these recombiners does not represent the San Onofre Unit 1 chemistry. Based on an investigation by Westinghouse and documented in their letter to SCE dated June 1, 1982, it is considered to be no more severe than the Unit 1 spray chemistry.