

Illinois Power Company

U-0657
0982-L
N95-83 (08-01) -L

500 SOUTH 27TH STREET, P. O. BOX 511, DECATUR, ILLINOIS 62525-1805

August 1, 1983

Director of Nuclear Reactor Regulation
Attention: Mr. A. Schwencer, Chief
Licensing Branch No. 2
Division of Licensing
U.S. Nuclear Regulatory Commission
Washington, D. C. 20555

50-462

Dear Mr. Schwencer:

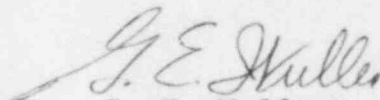
Reference: IP letter U-0638 of 5/20/83, G. E. Wuller to A. Schwencer, NRC, Subject: Response to NRC Equipment Qualification Branch Review Comments on CPS FSAR

The attached Equipment Qualification Status Matrix and annotated CPS-FSAR Tables 3.11-3 and 3.11-4 constitute a revision to Enclosure 4 of the referenced letter.

As stated in the July 25, 1983 conference call between Messrs. Abelson, LaGrange, and Harper of the NRC, Mr. Hollaway of EG&G and Messrs. Wuller, Hampton, and D'Haem of IP, and as shown in the attached matrix, IP has evaluated the qualification status of all equipment. Based on this evaluation, equipment has been categorized as qualified or unqualified. For all equipment classified as unqualified, a path for full qualification has been identified. Progress for each unqualified equipment within the program is as shown on the attached Equipment Qualification Status Matrix.

Should you have any questions concerning this submittal, please contact me or J. F. Hampton (217)424-7008.

Sincerely,



G. E. Wuller
Supervisor - Licensing
Nuclear Station Engineering

MED/em/LET4

Attachment

cc: H. Abelson, NRC Clinton Licensing Project Manager
R. G. LaGrange, NRC EQB
H. H. Livermore, NRC Senior Resident Inspector
Illinois Department of Nuclear Safety
M. Reich, Brookhaven National Laboratory
M. Yost, EG&G Idaho

A048
11

CLINTON POWER STATION

ENVIRONMENTAL QUALIFICATION STATUS
FOR 1E BOP AND NSSS COMPONENTS

QUALIFICATION STATUS	EVALUATED: FULLY QUALIFIED:	EVALUATED BUT NOT FULLY QUALIFIED*										
	STATUS A	STATUS B1	STATUS B2	STATUS B3	STATUS B4	STATUS C1	STATUS C2	STATUS C3	STATUS D1	STATUS D2	STATUS E	STATUS F
BOP COMPONENTS FROM HARSH FSAR TABLE 3.11-1	461	86	106	21	70	5	2	38	23	60	1	20
NSSS COMPONENTS FROM HARSH FSAR TABLE 3.11-2	153	4	154	0	0	50	0	44	0	63	0	0
TOTAL NUMBER OF HARSH COMPONENTS & PERCENTAGES	614	90	260	21	70	55	2	82	23	123	1	20
	45.11%	6.61%	19.10%	1.54%	5.14%	4.04%	0.001%	6.02%	1.69%	9.04%	.0007%	1.47%

*WILL BE FULLY QUALIFIED BY TESTING, RELOCATION OR REPLACEMENT TO NUREG 0588 CAT. 1 REQUIREMENTS.
QUALIFICATION SCHEDULE FOR INDIVIDUAL COMPONENTS IS SHOWN ON SUMMARY TABLES 3.11-3 & 3.11-4.
COMPLETE INFORMATION FOR ITEMS THAT ARE NOT FULLY QUALIFIED WILL BE PROVIDED WHEN THESE ITEMS ARE
FULLY QUALIFIED PER THE SCHEDULE PROVIDED.

QUALIFICATION STATUS CODES

A = FULLY QUALIFIED TO MEET NUREG 0588 CAT. 1 REQUIREMENTS.

B1 = TESTING COMPLETED - QUAL. REPORT UNDER REVIEW - TO COMPLETE BY 9/83.

B2 = TESTING COMPLETED - QUAL. REPORT UNDER REVIEW - TO COMPLETE BY 10/83.

B3 = TESTING COMPLETED - QUAL. REPORT UNDER REVIEW - TO COMPLETE BY 11/83.

B4 = TESTING COMPLETED - QUAL. REPORT REVIEWED - FURTHER VENDOR ACTION/INTERFACE REQUIRED - EVALUATION WILL BE
COMPLETED AFTER 11/83.

QUALIFICATION STATUS CODES (CONT'D)

- C1 = QUAL. PLAN APPROVED TO CPS REQUIREMENTS - TESTING IN PROGRESS - QUALIFICATION REVIEW TO BE COMPLETED BY 11/83
- C2 = QUAL. PLAN APPROVED TO CPS REQUIREMENTS - TESTING IN PROGRESS - QUALIFICATION REVIEW TO BE COMPLETED BY 12/83.
- C3 = QUAL. PLAN APPROVED TO CPS REQUIREMENTS - TESTING IN PROGRESS - QUALIFICATION REVIEW TO BE COMPLETED AFTER 12/83.
- D1 = COMPONENTS IDENTIFIED FOR REPLACEMENT WITH FULLY QUALIFIED (STATUS A) COMPONENTS - EQ PACKAGE SCHEDULED BY 9/83.
- D2 = COMPONENTS IDENTIFIED FOR REPLACEMENT WITH GENERIC QUALIFIED COMPONENTS - EQ PACKAGE SCHEDULED AFTER 9/83.
- E = COMPONENTS IDENTIFIED FOR RELOCATION - WILL BE QUALIFIED UPON RELOCATION.
- F = COMPONENTS WHICH DO NOT HAVE A QUALIFICATION PROGRAM. VARIOUS OPTIONS ARE UNDER EVALUATION.

TABLE 3.11-2
QUALIFICATION TABLE FOR BOP COMPONENTS

TYPE OF EQUIPMENT/ LOCATION	MANUFACTURER	MODEL NO. OR IDENTIFICATION NO.	ABNORMAL OR ACCIDENT ENVIRONMENT	ENVIRONMENT TO WHICH QUALIFIED	OPERABILITY REQUIREMENTS	OPERABILITY DEMONSTRATED	ACCURACY OR RESPONSE TIME REQUIREMENTS	ACCURACY OR RESPONSE TIME DEMONSTRATED	QUALIFICATION REPORT & METHOD
Motor H-6 (Two Motors -5 hp in F.1.7)	Westinghouse Electric Corp.	BFCO S.O. No 77K-26003 77K-26004	See CPS-FSAR Table 3.11-5	222°F at 3.25 PSIG; Max. temp. 310°F Continuous Portable Water Spray of G.15 USGFM/ft for 30 days 1.13x10 ⁶ (Motor) rads (for Motorette 2x10 ⁶ Rads)	100 days	110 days	N/A	N/A	Buffalo Forge Co. Qual. Document No. W-114, Rev. B, dated Sept. 1979, with Appendix A thru L, Type Testing & Motorette Testing Qualified Life: 40 years @ 130°C Thermal Aging: 1000 hrs. @ 210°C
Motor - 7.5 hp H-11 (A.1.10)	"	BFCO S.O. No 77K-25996	"	"	"	"	"	"	"
Motor 5 hp/H-11 (A.1.4)	"	BFCO S.O. No 77K-25999	"	"	"	"	"	"	"
Motor 5 hp/H-12 (Two Motors in A.1.9)	"	BFCO S.O. No 77K-25997 77K-26020	"	"	"	"	"	"	"
Motor 2 hp/H-12 (A.1.7)	"	BFCO S.O. No 77K-26000	"	"	"	"	"	"	"
Motor 5 hp/H-12 (Two Motor in A.1.6)	"	BFCO S.O. No 77K-25998 77K-26021	"	"	"	"	"	"	"
Motor 5 hp/H-46 (D.1.8)	"	Frame Size: 25LTC2	"	"	"	"	"	"	"
Motor 5 hp/H-46 (D.1.9)	"	Frame Size: 25LTC2	"	"	"	"	"	"	"
Motor 5 hp/H-47 (D.2.6)	"	Frame Size: 25LTC2	"	"	"	"	"	"	"
Motor 5 hp/H-47 (D.2.9)	"	Frame Size: 25LTC2	"	"	"	"	"	"	"

Item 1

1) TOTAL NUMBER: 13
3) TEST PLAN APPROVED:
5) TEST COMPLETE:
7) VENDOR INFO REQ:

2) QUALIFIED: 13
4) UNDER TEST:
6) TO BE REPLACED:
8) SCHED QUAL DATE:

TABLE 3.11-3
 QUALIFICATION TABLE FOR BOP COMPONENTS
 ITEM 2 EQ-C1003

TYPE OF EQUIPMENT/ IDENTIFICATION	MANUFACTURER	MODEL NO. OR IDENTIFICATION	ABNORMAL OR ACCIDENT ENVIRONMENT	ENVIRONMENT TO WHICH QUALIFIED	OPERABILITY REQUIREMENTS	OPERABILITY DEMONSTRATED	ACCURACY OR RESPONSE TIME REQUIREMENTS	ACCURACY OR RESPONSE TIME DEMONSTRATED	QUALIFICATION REPORT & METHOD
Motors H-47 (Two Motors- 30 hp & 1.5 hp in D.2.5) (Two Motors- 30 hp & 1.5 hp in D.2.9)	Westinghouse Electric Corp.	Table 3.11-5 TEPC 1.5 hp	See CPS-FSAR Table 3.11-5	122°F 90% RH Atmospheric 2x10 ⁸ Rads	100 days	110 days	N/A	N/A	Westinghouse Electric Corp. Report MM-9112 dated Jan. 18, 1980 Motorette Testing Qualified Life: 40 years @ 130°C Thermal Aging 1368 hrs. @ 210°C

Item 2

1) TOTAL NUMBER: 4
 2) QUALIFIED: 4
 3) TEST PLAN APPROVED:
 4) UNDER TEST:
 5) TEST COMPLETE:
 6) TO BE REPLACED:
 7) VENDOR INFO REQ:
 8) SCHED QUAL DATE:

TABLE 3.11-3

QUALIFICATION TABLE FOR BOP COMPONENTS

ITEM 3 (Eq-C1002)

TYPE OF EQUIPMENT/ LOCATION	MANUFACTURER	MODEL NO. OR IDENTIFICATION NO.	ABNORMAL OR ACCIDENT ENVIRONMENT	ENVIRONMENT TO WHICH QUALIFIED	OPERABILITY REQUIREMENTS	OPERABILITY DEMONSTRATED	ACCURACY OR RESPONSE TIME REQUIREMENTS	ACCURACY OR RESPONSE TIME DEMONSTRATED	QUALIFICATION REPORT & METHOD
600V Molded Case Circuit Breakers Environmental Zone Code H-5 Environmental Map Zone F.3.1 Plant Area Description Fuel Building General Area El. 781'-0"	Westinghouse	Model No. 1B-400	See CFS-15AR Table 3.11-5 and 3.11-14	104°F Normal Humidity, Contamination, Altitude & Vibration (See Note 1 below) 1x10 ⁴ Rads (Normal) See Note 2 below	Not required to operate during LOCA/ HELB accident	N/A	Quick make Quick break Automatic trip	Same as response time requirements	B/R 107A Type Testing Analysis Operating Experience Temperature/Time Aging 8000 hrs @ 120°C Qualified life 8.75 years @ 40°C (104°F) and 80% Load Factor

1. See Page 8 of Westinghouse Qualification Report No. BQR 107A.

2. Qualification Report BQR 107A verifies total radiation values of 10^4 and 4×10^5 Rads, maximum values expected in 40 years, in out-of-containment areas. However, radiation is not a major consideration since the molded case breakers/switches are qualified per IEEE 323-1974 standard for a projected life between 8.75 years. The actual dose the Clinton breakers/switches would see would only be a fraction of the total 40 year plant integrated dosage based on the 8.75 year determined life.

Item 3

1) TOTAL NUMBER: 2
3) TEST PLAN APPROVED:
5) TEST COMPLETE:
7) VENDOR INFO REQ:

2) QUALIFIED: 2
4) UNDER TEST:
6) TO BE REPLACED:
8) SCHED QUAL DATE:

TABLE 3.11-3

QUALIFICATION TABLE FOR BOP COMPONENTS
ITEM 4 (Bq-C1005)

TYPE OF EQUIPMENT/ LOCATION	MANUFACTURER	MODEL NO. OR IDENTIFICATION NO.	ABNORMAL OR ACCIDENT ENVIRONMENT	ENVIRONMENT TO WHICH QUALIFIED	OPERABILITY REQUIREMENTS	OPERABILITY DEMONSTRATED	ACCURACY OR RESPONSE TIME REQUIREMENTS	ACCURACY OR RESPONSE TIME DEMONSTRATED	QUALIFICATION REPORT & METHOD
Transmitters Zones H-4, H-5, H-6, H-11 H-51, H-17, and H-26	Rosemount Inc.	1153 Series B	See CPS-FSAR Tables 3.11-5,	A-102 203°F for 47 days Radiation 2.2x10 ⁷ Rads (Gamma) DBA 303°F for 10 min 303°F for 8 hrs 250°F for 56 hrs Steam	100 days	110 days	+ 0.25% of calibrated span	Less than ± 0.25% of calibrated Span	Type Tested per Rosemount Report #108025 & 108026, dated 2-4-81 Qualified Life: 9 years

Item 4

1) TOTAL NUMBER: 15
3) TEST PLAN APPROVED:
5) TEST COMPLETE:
7) VENDOR INFO REQ:

2) QUALIFIED: 15
4) UNDER TEST:
6) TO BE REPLACED:
8) SCHED QUAL DATE:

TABLE 3.11-3
QUALIFICATION TABLE FOR BOP COMPONENTS
ITEM 5 (EQ-CLOSURE)

TYPE OF EQUIPMENT/ LOCATION	MANUFACTURER	MODEL NO. OR IDENTIFICATION NO.	ABNORMAL OR ACCIDENT ENVIRONMENT	ENVIRONMENT TO WHICH QUALIFIED	OPERABILITY REQUIREMENTS	OPERABILITY DEMONSTRATED	ACCURACY OR RESPONSE TIME REQUIREMENTS	ACCURACY OR RESPONSE TIME DEMONSTRATED	QUALIFICATION REPORT & METHOD
600 V Control Cables All Zones Except H-28 & H-54	Okonite	Okonite	Per CPS-FSAR Table 3.11-5	3 hrs @ 345°F (114 psig) 3 hrs @ 335°F (101 psig) 4 hrs @ 315°F (74 psig) 81 hrs @ 265°F (26 psig) 3024 hrs @ 212°F (0-2 psig) All Steam 2x10 ⁶ rads	100 days	130 days	N/A	N/A	Okonite Test Report #SL-IP-1279-1 Rev. 2, dated 8-20-82 Type Testing & Operating Experience Qualified Life: 40 yrs. Aging: 150°C @ 504 hrs.
1 Kv Power Cables All Zones Except H-28 & H-54	Okonite	Okonite/Okolon	Per CPS-FSAR Table 3.11-5	3 hrs @ 345°F (114 psig) 3 hrs @ 335°F (101 psig) 4 hrs @ 315°F (74 psig) 81 hrs @ 265°F (26 psig) 3024 hrs @ 212°F (0-2 psig) All Steam 2x10 ⁶ rads	100 days	130 days	N/A	N/A	Okonite Test Report #SL-IP-1279-1 Rev. 2, dated 8-20-82 Type Testing & Operating Experience Qualified Life: 40 yrs. Aging: 150°C @ 504 hrs.

Item 5

1) TOTAL NUMBER: 2
3) TEST PLAN APPROVED:
5) TEST COMPLETE:
7) VENDOR INFO REQ:

2) QUALIFIED: 2
4) UNDER TEST:
6) TO BE REPLACED:
8) SCHED QUAL DATE:

TABLE 3.11-3
QUALIFICATION TABLE FOR BOP COMPONENTS
ITEM 6 (EQ-CLO07)

TYPE OF EQUIPMENT/ LOCATION	MANUFACTURER	MODEL NO. OR IDENTIFICATION NO.	ABNORMAL OR ACCIDENT ENVIRONMENT	ENVIRONMENT TO WHICH QUALIFIED	OPERABILITY REQUIREMENTS	OPERABILITY DEMONSTRATED	ACCURACY OR RESPONSE TIME REQUIREMENTS	ACCURACY OR RESPONSE TIME DEMONSTRATED	QUALIFICATION REPORT & METHOD
5KV Power Cables All Zones Except H-2b & H-54	Okonite	Okoguard	Per CPS-FSAR Table 3.11-5	3 hrs @ 345 °F (114 psig) 3 hrs @ 335°F (101 psig) 4 hrs @ 315°F (74 psig) 81 hrs @ 265°F (26 psig) 3024 hrs @ 212°F (0-2 psig) All Steam 2X10 ⁵ rads	100 days	130 days	N/A	N/A	Okonite Test Report # SL-IP-0680 Rev. 2, dated 8-20-1982 Type Testing & Operating Experience Qualified life: 40 yrs. Aging: 150°C @ 504 hrs.
Termination Kits All Zones Except H-2b & H-54	Okonite	604914200 Series	Per CPS-FSAR Table 3.11-5	3 hrs @ 345 °F (114 psig) 3 hrs @ 335°F (101 psig) 4 hrs @ 315°F (74 psig) 81 hrs @ 265°F (26 psig) 3024 hrs @ 212°F (0-2 psig) All Steam 2X10 ⁵ rads	100 days	130 days	N/A	N/A	Okonite Test Report # SL-IP-0680 Rev. 2, dated 8-20-1982 Type Testing & Operating Experience Qualified life: 40 yrs. Aging: 150°C @ 504 hrs.

Item 6

1) TOTAL NUMBER: 2
2) QUALIFIED: 2
3) TEST PLAN APPROVED:
4) UNDER TEST:
5) TEST COMPLETE:
6) TO BE REPLACED:
7) VENDOR INFO REQ:
8) SCHED QUAL DATE:

TABLE 3.11-3
QUALIFICATION TABLE FOR BOP COMPONENTS
ITEM 7 (EQ-CLOS1)

TYPE OF EQUIPMENT/ LOCATION	MANUFACTURER	MODEL NO. OR IDENTIFICATION NO.	ABNORMAL OR ACCIDENT ENVIRONMENT	ENVIRONMENT TO WHICH QUALIFIED	OPERABILITY REQUIREMENTS	OPERABILITY DEMONSTRATED	ACCURACY OR RESPONSE TIME REQUIREMENTS	ACCURACY OR RESPONSE TIME DEMONSTRATED	QUALIFICATION REPORT & METHOD
17C, WITAWO, 600V, 30 Mils Control Cable -Special All Zones except H-28 & H-54	Rockbestos Company	Rockbestos Firewall III	See CPS-PSAR Tables 3.11-5	Aging 150°C (302°F) for 1300 hrs. Radiation 2x10 ⁸ Rads (Gamma) DBA 280°F/70 Psig for 10 min. 346°F/113 Psig for 6 hrs. 335°F/93 Psig for 11 hrs. 315°F/69 Psig for 15 hrs. 265°F/26 Psig for 4 days 212°F/0 Psig for 365 days Humidity: 100%	100 days	365 days	N/A	N/A	Rockbestos EQ Test Report dated July 7, 1977 and attachment A & B, dated June 7, 1978 Type Testing: Thermal Aging: 1300 Hrs. at 150°C Qualified life: 60 Years @ 90°C

Item 7

1) TOTAL NUMBER: /
3) TEST PLAN APPROVED:
5) TEST COMPLETE:
7) VENDOR INFO REQ:

2) QUALIFIED: /
4) UNDER TEST:
6) TO BE REPLACED:
8) SCHED QUAL DATE:

TYPE OF
EQUIPMENT/
LOCATION
Motor Control
Centers
H-31, H-51

MANUFACTURER
ITE-Gould

MODEL NO. OR
IDENTIFICATION
NO.
5600 Series

ABNORMAL OR
ACCIDENT
ENVIRONMENT
See CPS-FSAR
Table 3.11.5

TABLE 3.11-3
QUALIFICATION TABLE FOR BOP COMPONENTS
ITEM 8 (EQ-CLOIL)

ENVIRONMENT
TO WHICH
QUALIFIED

OPERABILITY
REQUIREMENTS
100 days

OPERABILITY
DEMONSTRATED

ACCURACY OR
RESPONSE TIME
REQUIREMENTS
Not applicable

ACCURACY OR
RESPONSE TIME
DEMONSTRATED
Not applicable

QUALIFICATION
REPORT &
METHOD
ITE Test
Report # CC-323,
74-24, Rev. 5,
June 17, 1981.
Report
evaluated.
Additional
vendor info.
required.
Projected
date of
completion
8/83.

Item 8

1) TOTAL NUMBER: 4
3) TEST PLAN APPROVED: ✓
5) TEST COMPLETE: ✓
7) VENDOR INFO REQ:
2) QUALIFIED:
4) UNDER TEST:
6) TO BE REPLACED:
8) SCHED QUAL DATE: 10/83

TABLE 3.11-3
QUALIFICATION TABLE FOR BOP COMPONENTS
ITEM 9 (EQ-CLO15)

TYPE OF EQUIPMENT/ LOCATION	MANUFACTURER	MODEL NO. OR IDENTIFICATION NO.	ABNORMAL OR ACCIDENT ENVIRONMENT	ENVIRONMENT TO WHICH QUALIFIED	OPERABILITY REQUIREMENTS	OPERABILITY DEMONSTRATED	ACCURACY OR RESPONSE TIME REQUIREMENTS	ACCURACY OR RESPONSE TIME DEMONSTRATED	QUALIFICATION REPORT & METHOD
High Range Gamma Radiation Monitor Detector and Cable Assembly H-32 (C.4.2)	Victoreen Inc.	Detector: 877-1 Cable: 878-1 Assembly	See FSAR 3.11-5	Temperature: 377°F (500°F) 176°F (330°F) 300°F (572°F) 250°F (482°F) 200°F (392°F) press. 133 psig Air; All steam 0.45 GPM/ft ² spray consisting of 0.28 molar H ₃ BO ₃ (3000 ppm boron) and NaOH to make PH of 11.0 ± 0.5 at 25°C(77°F) for 24 hrs 2.2X10 ⁵ rads TID	100 days	183 days	Factor of 2 of radiation input.	+ 36% of radiation input	Victoreen Test Report #950.301 dated June 19, 1981 Type Testing. Qualified Life of 40 years. Qualified life is based on the maintenance/surveillance schedule in CL013.
High Range Gamma Radiation Monitor Detector and Cable Assembly H-44 (C.6.1)	Victoreen Inc.	Detector: 877-1 Cable: 878-1 Assembly	See FSAR 3.11-5 1 GPM/ft ² spray consisting of Demineralized Water for 1 hr.	0.45 GPM/ft ² spray consisting of 0.28 molar H ₃ BO ₃ (3000 ppm boron) and NaOH to make PH of 11.0 ± 0.5 at 25°C(77°F) for 24 hrs 2.2X10 ⁵ rads TID	100 days	183 days	Factor of 2 of radiation input.	+ 36% of radiation input	Victoreen Test Report #950.301 dated June 19, 1981. Type Testing. Qualified Life of 40 years @ 104°F. Thermal Aging for 240 hrs @ 304°F.

Item 9

- 1) TOTAL NUMBER: 4
2) QUALIFIED: 4
3) TEST PLAN APPROVED:
4) UNDER TEST:
5) TEST COMPLETE:
6) TO BE REPLACED:
7) VENDOR INFO REQ:
8) SCHED QUAL DATE:

TABLE 3.11-3
QUALIFICATION TABLE FOR BOP COMPONENTS
ITEM 10 (EQ-CL052)

TYPE OF EQUIPMENT/ LOCATION	MANUFACTURER	MODEL NO. OR IDENTIFICATION NO.	ABNORMAL OR ACCIDENT ENVIRONMENT	ENVIRONMENT TO WHICH QUALIFIED	OPERABILITY REQUIREMENTS	OPERABILITY DEMONSTRATED	ACCURACY OR RESPONSE TIME REQUIREMENTS	ACCURACY OR RESPONSE TIME DEMONSTRATED	QUALIFICATION REPORT & METHOD
Switchboard Wire H-5 H-31 H-51 H-56	General Electric	Vulkene/Model No. 51-57279	Per CP5-FSAR Table 3.11-5	3 hrs @ 346°F (113 psig) 3 hrs @ 335°F (95 psig) 4 hrs @ 315°F (69 psig) 81 hrs @ 265°F (26 psig) 2544 hrs @ 212°F (5 psig) 100% RH 2.2x10 ⁸ Rads	100 days	110 days	N/A	N/A	MCC POWERS Test Report #377-82-031A, Rev. 0, dated 7-21-82 Type Testing: Qualified Life: 40 years Aging: 165°C @ 125 hrs.

Item 10

1) TOTAL NUMBER: /
3) TEST PLAN APPROVED:
5) TEST COMPLETE:
7) VENDOR INFO REQ:

2) QUALIFIED: /
4) UNDER TEST:
6) TO BE REPLACED:
8) SCHED QUAL DATE:

TABLE 3.11-3

QUALIFICATION TABLE FOR BOP COMPONENTS

TYPE OF EQUIPMENT/ LOCATION	MANUFACTURER	MODEL NO. OR IDENTIFICATION NO.	ABNORMAL OR ACCIDENT ENVIRONMENT	ENVIRONMENT TO WHICH QUALIFIED	ITEM 11 (EQ-C1013)		ACCURACY OR RESPONSE TIME REQUIREMENTS	ACCURACY OR RESPONSE TIME DEMONSTRATED	QUALIFICATION REPORT & METHOD
					OPERABILITY REQUIREMENTS	OPERABILITY DEMONSTRATED			
1101C Switch CPS-PSAR Zone Nos. H-26, F-5, H-4, H-35	NAMCO Controls	EA-740 Series	See CPS-PSAR Tables 3.11.5	Temp. 340°F-6 hrs. 320°F-3 hrs. 270°F-3 1/2 days 200°F-28 days Pressure 70 psig RH Steam/100% RH Spray Chem-4 days Water-28 days 204x10 Rads	100 days	223 days by equivalency	Not Applicable	Not Applicable	No. 111 Rev. 0 October 1, 1951 by Type Testing Qualified for 40 years based on maintenance & surveillance & schedule in (11Q-C1013)

ITEM 11

14

20 2) QUALIFIED: 10/83
 1) TOTAL NUMBER: 20
 3) TEST PLAN APPROVED: 4) UNDER TEST:
 5) TEST COMPLETE: 6) TO BE REPLACED:
 7) VENDOR INFO REQ: 8) SCHED QUAL DATE:

TABLE 3.11-3

QUALIFICATION TABLE FOR BOP COMPONENTS

ITEM 12 (EQ-CLO08)

TYPE OF EQUIPMENT/ LOCATION	MANUFACTURER	MODEL NO. OR IDENTIFICATION NO.	ABNORMAL OR ACCIDENT ENVIRONMENT	ENVIRONMENT TO WHICH QUALIFIED	OPERABILITY REQUIREMENTS	OPERABILITY DEMONSTRATED	ACCURACY OR RESPONSE TIME REQUIREMENTS	ACCURACY OR RESPONSE TIME DEMONSTRATED	QUALIFICATION REPORT & METHOD
LIMIT SWITCH CPS-FSAR ZONE NOS. H-5, H-6, H-11, H-12, H-17, H-26, H-29, H-30, H-15, H-24 H-46, H-47	NAMCO CONTROLS	EA-180 Series	see CPS-FSAR Table 3.11.5	340°F 5.75 hrs 320°F 3.5 hrs 250°F 3 days 200°F 26 days Steam/1002RH Chemical spray (4 days) Water Spray (26 days) Pressure 80 psig	100 days	166 days by equivalency	Not Applicable	Not Applicable	QTR105 Rev. 3 Aug. 20, 1981 by Type Testing qualified for 40 year, based on maintenance/ surveillance schedule in EQ-CLO08

Item 12

1) TOTAL NUMBER: 61
 2) QUALIFIED: 42
 3) TEST PLAN APPROVED:
 4) UNDER TEST:
 5) TEST COMPLETE:
 6) TO BE REPLACED:
 7) VENDOR INFO REQ: 19
 8) SCHED QUAL DATE: 10/83

TABLE 3.11-3

QUALIFICATION TABLE FOR BOP COMPONENTS

ITEM 13

TYPE OF EQUIPMENT/ LOCATION	MANUFACTURER	MODEL NO. OR IDENTIFICATION NO.	ABNORMAL OR ACCIDENT ENVIRONMENT	ENVIRONMENT TO WHICH QUALIFIED	OPERABILITY REQUIREMENTS	OPERABILITY DEMONSTRATED	ACCURACY OR RESPONSE TIME REQUIREMENTS	ACCURACY OR RESPONSE TIME DEMONSTRATED	QUALIFICATION REPORT & METHOD
480V Unit Substation H-31	ITE	Custom	See CPS-FSAR Table 3.11-5		100 days				Gould Report #33-51752-QS, evaluated. Additional vendor info. required. Reevaluation will be com- pleted by ■/83.

Item 13

1) TOTAL NUMBER: 2
 3) TEST PLAN APPROVED:
 5) TEST COMPLETE: 2
 7) VENDOR INFO REQ:

2) QUALIFIED:
 4) UNDER TEST:
 6) TO BE REPLACED:
 8) SCHED QUAL DATE: 10/83

TABLE 3.11-2
QUALIFICATION TABLE FOR BOP COMPONENTS
ITEM 14 ((EQ-CL017))

TYPE OF EQUIPMENT/ LOCATION	MANUFACTURER	MODEL NO. OR IDENTIFICATION NO.	ABNORMAL OR ACCIDENT ENVIRONMENT	ENVIRONMENT TO WHICH QUALIFIED	OPERABILITY REQUIREMENTS	OPERABILITY DEMONSTRATED	ACCURACY OR RESPONSE TIME REQUIREMENTS	ACCURACY OR RESPONSE TIME DEMONSTRATED	QUALIFICATION REPORT & METHOD
Solenoid Valve H-29 H-30	ASCO	NPS321A6E	See CPS-FSAR Tables 3.11-5 3.11-11	Thermal aging at 295°F for 100 hours; 40,000 cycles; vibration aging: .75g's; LOCA: 346°F/ 110 psig peak for 3 hours, 320°F/110 psig for 3 hours, 250°F/75 psig for 4 days & 200°F/10 psig for 25 days;	100 days	30 days equivalent to over 100 days due to higher test temperature profile.	N/A	N/A	Asco Report #AQS-21678/TR, Rev. A dated July, 1979

R.H. Steam/
100 %

2x10⁸ Rads
Spray: 30 days
continuous
chemical spray
ph 9 to 11
at a rate of
.306 gpm.

Item 14

1) TOTAL NUMBER: 2
3) TEST PLAN APPROVED:
5) TEST COMPLETE:
7) VENDOR INFO REQ:
2) QUALIFIED: 2
4) UNDER TEST:
6) TO BE REPLACED:
8) SCHED QUAL DATE:

TABLE 3.11-3

QUALIFICATION TABLE FOR BOP COMPONENTS

ITEM 15

<u>TYPE OF EQUIPMENT/ LOCATION</u>	<u>MANUFACTURER</u>	<u>MODEL NO. OR IDENTIFICATION NO.</u>	<u>ABNORMAL OR ACCIDENT ENVIRONMENT</u>	<u>ENVIRONMENT TO WHICH QUALIFIED</u>	<u>OPERABILITY REQUIREMENTS</u>	<u>OPERABILITY DEMONSTRATED</u>	<u>ACCURACY OR RESPONSE TIME REQUIREMENTS</u>	<u>ACCURACY OR RESPONSE TIME DEMONSTRATED</u>	<u>QUALIFICATION REPORT & METHOD</u>
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TABLE 3.11-3
QUALIFICATION TABLE FOR BOP COMPONENTS
ITEM 16 (EQ-CLO09, EQ-CLO27)

TYPE OF EQUIPMENT/ LOCATION	MANUFACTURER	MODEL NO. OR IDENTIFICATION NO.	ABNORMAL OR ACCIDENT ENVIRONMENT	ENVIRONMENT TO WHICH QUALIFIED	OPERABILITY REQUIREMENTS	OPERABILITY DEMONSTRATED	ACCURACY OR RESPONSE TIME REQUIREMENTS	ACCURACY OR RESPONSE TIME DEMONSTRATED	QUALIFICATION REPORT & METHOD
Valve Motor Operator H-2 H-4 H-7 H-11 H-12 H-16 H-17 H-19 H-20 H-23 H-26 H-27 H-29 H-30 H-31 H-32 H-33 H-34 H-35	Limitorque	SMB-0 SMB-00 SMB-000 SMB-1 SMB-2 SMB-3	See CPS-FSAR Table 3.11-5	Items covered by EQ-CLO09 qualified to worst case profile of Table 3.11-6, all steam spray, 105 psig pressure, radiation 2 x 10 ⁶ Rads Items covered by EQ-CLO27 qualified to their specific accident condition temp. 250°F, 22 hrs. temp. 200°F, 5 days press. 10 psig humidity 100% RH/ Steam radiation 2 x 10 ⁷ Rads TID	100 days	100 days	N/A	N/A	Limitorque Report B0058 CPS Qualification Documents EQ-CLO09, 7-27-82 EQ-CLO27, 5-6-83 EQ-CLO09: includes items qualified for 40 years EQ-CLO27 includes items qualified for 40 years based on the maintenance and surveillance schedule in EQ-CLO27.

ITEM 16

1) TOTAL NUMBER: 232
3) TEST PLAN APPROVED:
5) TEST COMPLETE:
7) VENDOR INFO REQ: 15
2) QUALIFIED: 196
4) UNDER TEST:
6) TO BE REPLACED: 21
8) SCHED QUAL DATE: 11/83

*Items covered by
EQ-CLO27 are outside
containment and
outside steam tunnel.

TABLE 3.11-3

QUALIFICATION TABLE FOR BOP COMPONENTS

TYPE OF EQUIPMENT/ LOCATION	MANUFACTURER	MODEL NO. OR IDENTIFICATION NO.	ABNORMAL OR ACCIDENT ENVIRONMENT	ENVIRONMENT TO WHICH QUALIFIED	ITEM 17	OPERABILITY REQUIREMENTS	OPERABILITY DEMONSTRATED	ACCURACY OR RESPONSE TIME REQUIREMENTS	ACCURACY OR RESPONSE TIME DEMONSTRATED	QUALIFICATION REPORT & METHOD
H-2 Sample Fan, I H-5	Sentry	Custom	See CPS-FSAR Tables 3.11-5 3.11-14		100 days					Type Test. Report scheduled for 10/83

Item 17

2) QUALIFIED: 2
4) UNDER TEST: 12/83
6) TO BE REPLACED:
8) SCHED QUAL DATE:

1) TOTAL NUMBER: 2
3) TEST PLAN APPROVED:
5) TEST COMPLETE:
7) VENDOR INFO REQ:

TABLE 3.11-3

QUALIFICATION TABLE FOR BOP COMPONENTS
ITEM 18 (EQ-CLOS28)

TYPE OF EQUIPMENT/ LOCATION	MANUFACTURER	MODEL NO. OR IDENTIFICATION NO.	ABNORMAL OR ACCIDENT ENVIRONMENT	ENVIRONMENT TO WHICH QUALIFIED	OPERABILITY REQUIREMENTS	OPERABILITY DEMONSTRATED	ACCURACY OR RESPONSE TIME REQUIREMENTS	ACCURACY OR RESPONSE TIME DEMONSTRATED	QUALIFICATION REPORT & METHOD
Resistance Temperature Detector H-26 H-16 H-1 H-L7 H-4	Weed Instruments Company	Custom, 1BD/612-1A-A- 3-C-11-0-0 611-1B-A-3-C-6 A20 611-1BD-A-6- C-66-A2-0	See CPS-FSAR Tables 3.11-5 3.11-11, 3.11-6, 3.11-7, 122°F for 100 days	450°, 45 secs. 340°F, 3 hr. 320°F, 3 hr. 300°F, 30 days All steam. Chemical spray 4 to 11 MH Radiation 3 x 10 Rads	100 days	More than 124 days at Required profile: Test parameters extrapolated using most conservative 3.11-6 tables, with 250°F assumed to exist for 100 days for the 250° to 104° ramp over 100 days.	1/2% Reading	Resistance Measurements and Temp. measurements within accept- able limits.	Weed Report # 545-8654-2 Rev. B; Type Testing Qualified Life: 40 years

Item 18

1) TOTAL NUMBER: 24
 3) TEST PLAN APPROVED:
 5) TEST COMPLETE:
 7) VENDOR INFO REQ:

2) QUALIFIED: 24
 4) UNDER TEST:
 6) TO BE REPLACED:
 8) SCHED QUAL DATE:

TABLE 3.11-3
QUALIFICATION TABLE FOR BOP COMPONENTS
ITEM 19 (EQ-CL02L)

TYPE OF EQUIPMENT/ LOCATION	MANUFACTURER	MODEL NO. OR IDENTIFICATION NO.	ABNORMAL OR ACCIDENT ENVIRONMENT	ENVIRONMENT TO WHICH QUALIFIED	OPERABILITY REQUIREMENTS	OPERABILITY DEMONSTRATED	ACCURACY OR RESPONSE TIME REQUIREMENTS	ACCURACY OR RESPONSE TIME DEMONSTRATED	QUALIFICATION REPORT & METHOD
1) Solenoid Valve	ASCO	206-832-3U	See CPS-PSAR Table 3.11-5,	Thermal Aging at 250°F for 18 1/4 days; 20000 cycles energized/deenergized; Vibration Aging 0.75 g's for 90 min. in each direction; 420°F Peak/ 328°F min. for 6 hrs; 310°F up to 24 hrs; 280°F up to 5 days; 265°F up to 30 days. max. pressure 70 psig; 100% RH; 2.05 x 10 ⁸ Rads Spray 0.7 gpm/ft chemical: 10-5 Ph for 1 day; demineralized water for 29 days.	100 days	30 days equivalent to over 100 days due to higher test temperature profile.	N/A	N/A	Report # AQS-67368, Rev. 0 dated, March 2, 1982 Type Testing:
a) H-5, H-6, H-11, H-12, H-17, H-24, H-26 H-31									Qualified Life: 40 years
b) H-4, H-7									Qualified Life: 32 years (See note next page)
c) H-16, H-27									Qualified Life: 15 years (See note next page)
d) H-32									Qualified Life: 6.2 years (See note next pg.)
1) Solenoid Valve	ASCO	206-331-3U	"	See 1 above	100 days	See 1 above	N/A	N/A	Report same as above Qualified Life: 40 years
a) H-12									

TABLE 3.11-3
QUALIFICATION TABLE FOR BOP COMPONENTS
ITEM 19 (EQ-CLO2L)

TYPE OF EQUIPMENT/ LOCATION	MANUFACTURER	MODEL NO. OR IDENTIFICATION NO.	ABNORMAL OR ACCIDENT ENVIRONMENT	ENVIRONMENT TO WHICH QUALIFIED	OPERABILITY REQUIREMENTS	OPERABILITY DEMONSTRATED	ACCURACY OR RESPONSE TIME REQUIREMENTS	ACCURACY OR RESPONSE TIME DEMONSTRATED	QUALIFICATION REPORT & METHOD
1) Solenoid Valve	ASCO	206-832-3D	See CFS-PSAR Table 3.11-5,	Thermal Aging at 250°F for 18 1/4 days; 20000 cycles energized/deenergized; Vibration Aging 0.75 g's for 90 min. in each direction; 420°F Peak/ 328°F min. for 6 hrs; 310°F up to 24 hrs; 280°F up to 5 days; 265°F up to 30 days. max. pressure 70 psig; 100% RH; 2.05 x 10 ⁸ Rads Spray 0.7 gpm/ft chemical: 10-5 Ph for 1 day; demineralized water for 29 days.	100 days	30 days equivalent to over 100 days due to higher test temperature profile.	N/A	N/A	Report # AQS-67368, Rev. 0 dated, March 2, 1982 Type Testing:
a) H-5, H-6, H-11, H-12, H-17, H-24, H-26 H-31									* Qualified Life: 40 years
b) H-4, H-4.7									-- Qualified Life: 32 years (See note next page)
c) H-16, H-27									-- Qualified Life: 15 years (See note next page)
d) H-30									-- Qualified Life: 6.2 years (See note next Pg.)
1) Solenoid Valve	ASCO	206-381-3U	"	See 1 above	100 days	See 1 above	N/A	N/A	-- Report same as above Qualified Life: 40 years
a) H-12									

TABLE 3-11-3
QUALIFICATION TABLE FOR ECF COMPONENTS
Item 19 (Cont'd) (EQ-C1024)

TYPE OF FUNCTIONAL LOCATION	MAINTENANCE	MODEL NO. OR IDENTIFICATION N.	ABNORMAL OR ACCIDENT ENVIRONMENT	ENVIRONMENT TO WHICH QUALIFIED	OPERABILITY REQUIREMENTS	OPERABILITY LIMITATIONS	ACCURACY OR RESPONSE TIME PERFORMANCE	ACCURACY OR RESPONSE TIME DEGRADATION	QUALIFICATION REPORT & NOTE
1) Solenoid Valve 1) H-23, H-27, H-28	ASCO	NP-83206V NP-83207OV NP-8320	See CPS-FSAR Table		100 days				Same report as 1 above. Report under evaluation for these valves Projected date of completion 8/83.
2) Solenoid Valve 1) H-23, H-27, H-28	ASCO	406-832-30	See CPS-FSAR Table		100 days				

Note: Qualified life in Items 1b, 1c & 1d, is
based on the maintenance/surveillance
schedule in EQ-C1024.

Item 19
QUALIFIED: 4
2) QUALIFIED: 4
1) UNDER TEST: 4
3) TO BE REPLACED: 4
4) SCHED DUAL DATE: 9/83
5) TEST COMPLETE: 4
6) TEST PLAN APPROVED: 4
7) TOTAL NUMBER: 4
8) VENDOR INFO REQ: 2
9) TEST COMPLETE: 2
10) TEST PLAN APPROVED: 2
11) TOTAL NUMBER: 2

TABLE 3.11-3

QUALIFICATION TABLE FOR BOP COMPONENTS
ITEM 20 (EG-CL029)

<u>TYPE OF EQUIPMENT/ LOCATION</u>	<u>MANUFACTURER</u>	<u>MODEL NO. OR IDENTIFICATION NO.</u>	<u>ABNORMAL OR ACCIDENT ENVIRONMENT</u>	<u>ENVIRONMENT TO WHICH QUALIFIED</u>	<u>OPERABILITY REQUIREMENTS</u>	<u>OPERABILITY DEMONSTRATED</u>	<u>ACCURACY OR RESPONSE TIME REQUIREMENTS</u>	<u>ACCURACY OR RESPONSE TIME DEMONSTRATED</u>	<u>QUALIFICATION REPORT & METHOD</u>
MOTOR H-5	Siem/Als	350 HP/507US	See CPS-FSAR Tables 3.11-5 3.11-14		100 days		N/A.	N/A	Siem/Als. Report #NQ890317, Rev. 02 dated 9-25-81 under evaluation. Projected date of completion 11/83.

Item 20

1) TOTAL NUMBER: 2
3) TEST PLAN APPROVED:
5) TEST COMPLETE: 2
7) VENDOR INFO REQ:

2) QUALIFIED:
4) UNDER TEST:
6) TO BE REPLACED:
8) SCHED QUAL DATE: 11/83

TABLE 3.11-3

QUALIFICATION TABLE FOR BOP COMPONENTS

ITEM 21 (EQ-CLO37)

<u>TYPE OF EQUIPMENT / LOCATION</u>	<u>MANUFACTURER</u>	<u>MODEL NO. OR IDENTIFICATION NO.</u>	<u>ABNORMAL OR ACCIDENT ENVIRONMENT</u>	<u>ENVIRONMENT TO WHICH QUALIFIED</u>	<u>OPERABILITY REQUIREMENTS</u>	<u>OPERABILITY DEMONSTRATED</u>	<u>ACCURACY OR RESPONSE TIME REQUIREMENTS</u>	<u>ACCURACY OR RESPONSE TIME DEMONSTRATED</u>	<u>QUALIFICATION REPORT & METHOD</u>
Electrical MV power Penetrations B-26	Conax	Custom	See CPS-FSAR Tables 3.11-5 3.11-11	253.5°F For 10 days (All Steam) @20 psig(Av) (23 psig max/ 18 psig min) 2.202x10 ⁶ rads Thermal Aging @235°F for 168 hrs.	100 days	Same as Operability Requirement	N/A	N/A	Conax Test Report No. IPS-75Q Rev. A Type Test Qualified For 40 years.

Item 21

1) TOTAL NUMBER: 2
 3) TEST PLAN APPROVED:
 5) TEST COMPLETE:
 7) VENDOR INFO REQ:

2) QUALIFIED: 2
 4) UNDER TEST:
 6) TO BE REPLACED:
 8) SCHED QUAL DATE:

TABLE 3.11-3
QUALIFICATION TABLE FOR BOP COMPONENTS

TYPE OF EQUIPMENT/ LOCATION	MANUFACTURER	MODEL NO. OR IDENTIFICATION NO.	ABNORMAL OR ACCIDENT ENVIRONMENT	ENVIRONMENT TO WHICH QUALIFIED	ITEM 22	OPERABILITY REQUIREMENTS	OPERABILITY DEMONSTRATED	ACCURACY OR RESPONSE TIME REQUIREMENTS	ACCURACY OR RESPONSE TIME DEMONSTRATED	QUALIFICATION REPORT & METHOD
Electrical LV Power Penetration B-26	Conax	Custom	See CFS-PSAR Tables 3.11-5 3.11-11		100 days					Conax Test Report No. IPS-691, Rev. A Report under evaluation. Projected date of completion 8/83
Electrical LV Control and Instrumentation Penetration B-26	"	"	"		"					Conax Test Report No. IPS-692, Rev. C Report under evaluation. Projected date of completion 9/83.

Item 22

2) QUALIFIED:
4) UNDER TEST: 4/83
6) TO BE REPLACED:
8) SCHED QUAL DATE:
1) TOTAL NUMBER: 41
3) TEST PLAN APPROVED: 41
5) TEST COMPLETE:
7) VENDOR INFO REQ:

TABLE 3.11-3

QUALIFICATION TABLE FOR BOP COMPONENTS

ITEM 23

<u>TYPE OF EQUIPMENT/ LOCATION</u>	<u>MANUFACTURER</u>	<u>MODEL NO. OR IDENTIFICATION NO.</u>	<u>ABNORMAL OR ACCIDENT ENVIRONMENT</u>	<u>ENVIRONMENT TO WHICH QUALIFIED</u>	<u>OPERABILITY REQUIREMENTS</u>	<u>OPERABILITY DEMONSTRATED</u>	<u>ACCURACY OR RESPONSE TIME REQUIREMENTS</u>	<u>ACCURACY OR RESPONSE TIME DEMONSTRATED</u>	<u>QUALIFICATION REPORT & METHOD</u>
COCB/ MOTOR H-46	Reliance	7.5 HP/254TCZ	See CPS-FSAR Table 3.11-5		100 days				
COCB/ MOTOR H-46	Reliance	3 HP/213T	"		"				

Item 23
Various qualification options
are under evaluation.

TABLE 3.11-3
QUALIFICATION TABLE FOR BOP COMPONENTS
ITEM 24

TYPE OF EQUIPMENT/ LOCATION	MANUFACTURER	MODEL NO. OR IDENTIFICATION NO.	ABNORMAL OR ACCIDENT ENVIRONMENT	ENVIRONMENT TO WHICH QUALIFIED	OPERABILITY REQUIREMENTS	OPERABILITY DEMONSTRATED	ACCURACY OR RESPONSE TIME REQUIREMENTS	ACCURACY OR RESPONSE TIME DEMONSTRATED	QUALIFICATION REPORT & METHOD
A) Motor H-24	Westinghouse	0.50 HP 0.75 HP	See CPS-FSAR Tables 3.11-5 3.11-11	222°F at 3.25 psig(310°F max) and continuous portable water spray of 0.15 USGPM/ft for 30 days 1.13×10^8 rads (motor) 2×10^8 rads (motorette)	100 days	110 days	N/A.	N/A	Buffalo Forge Co. Qual. Document No. DO-146f, Rev. B, dated Sept., 1979, with Appendix A thru D. Type Test- ing and Motorette testing. Qualifica Life: 40 yrs. @ 130°C Thermal Aging: 1369 hrs. @ 210°C. Qualification report expected by 6/84.
B) Motor H-40	Westinghouse	3 Hp	CPS-FSAR Table 3.11-5		100 days		N/A	N/A	

Item 24 (A)

1) TOTAL NUMBER: 2
3) TEST PLAN APPROVED:
5) TEST COMPLETE:
7) VENDOR INFO REQ:

2) QUALIFIED: 2
4) UNDER TEST:
6) TO BE REPLACED:
8) SCHED QUAL DATE:

Item 24 (B)

1) TOTAL NUMBER: 2
3) TEST PLAN APPROVED:
5) TEST COMPLETE:
7) VENDOR INFO REQ: 2

2) QUALIFIED:
4) UNDER TEST:
6) TO BE REPLACED:
8) SCHED QUAL DATE: 8/84

TABLE 3.11-3

QUALIFICATION TABLE FOR BOP COMPONENTS
ITEM 25

<u>TYPE OF EQUIPMENT/ LOCATION</u>	<u>MANUFACTURER</u>	<u>MODEL NO. OR IDENTIFICATION NO.</u>	<u>ABNORMAL OR ACCIDENT ENVIRONMENT</u>	<u>ENVIRONMENT TO WHICH QUALIFIED</u>	<u>OPERABILITY REQUIREMENTS</u>	<u>OPERABILITY DEMONSTRATED</u>	<u>ACCURACY OR RESPONSE TIME REQUIREMENTS</u>	<u>ACCURACY OR RESPONSE TIME DEMONSTRATED</u>	<u>QUALIFICATION REPORT & METHOD</u>
Flow Element H-46	Bethlehem	Custom	See CPS-FSAR Table 3.11-5		100 days				

Item 25
Various qualification options
are under evaluation.

TABLE 3.11-3

QUALIFICATION TABLE FOR BOP COMPONENTS

ITEM 26

<u>TYPE OF EQUIPMENT/ LOCATION</u>	<u>MANUFACTURER</u>	<u>MODEL NO. OR IDENTIFICATION NO.</u>	<u>ABNORMAL OR ACCIDENT ENVIRONMENT</u>	<u>ENVIRONMENT TO WHICH QUALIFIED</u>	<u>OPERABILITY REQUIREMENTS</u>	<u>OPERABILITY DEMONSTRATED</u>	<u>ACCURACY OR RESPONSE TIME REQUIREMENTS</u>	<u>ACCURACY OR RESPONSE TIME DEMONSTRATED</u>	<u>QUALIFICATION REPORT & METHOD</u>
Temperature Element H-46	Semco	Custom	See CPS-FSAR Table 3.11-5		100 days				

Item 26
Various qualification options
are under evaluation.

TABLE 3.11-3

QUALIFICATION TABLE FOR BOP COMPONENTS
ITEM 27 (EQ-C1032)

TYPE OF EQUIPMENT/ LOCATION	MANUFACTURER	MODEL NO. OR IDENTIFICATION NO.	ABNORMAL OR ACCIDENT ENVIRONMENT	ENVIRONMENT TO WHICH QUALIFIED	OPERABILITY REQUIREMENTS	OPERABILITY DEMONSTRATED	ACCURACY OR RESPONSE TIME REQUIREMENTS	ACCURACY OR RESPONSE TIME DEMONSTRATED	QUALIFICATION REPORT & METHOD
Airlock Electric Penetration Assemblies H-15 and H-14	Conax	Custom	See CPS-FSAR Tables 3.11-5, 3.11-11	<u>AGING</u> 121°C (250°F) for 168 hrs. <u>Radiation</u> 2 x 10 ⁶ Rads (Gamma) <u>DBA</u> 255°F/20 psig for 24 hrs. 255°F/20 psig for 240 hrs.	100 days	10 days equivalent to over 100 days due to higher temperature profile	N/A	N/A	Conax EQ Report IPS-919, dated 8/18/82 Type Testing: Qualified Life: 40 years

Item 27

1) TOTAL NUMBER: 7
 2) QUALIFIED: 7
 3) TEST PLAN APPROVED:
 4) UNDER TEST:
 5) TEST COMPLETE:
 6) TO BE REPLACED:
 7) VENDOR INFO REQ:
 8) SCHED QUAL DATE:

TABLE 3.11-3
QUALIFICATION TABLE FOR BOP COMPONENTS

TYPE OF EQUIPMENT / LOCATION	MANUFACTURER	MODEL NO. OR IDENTIFICATION NO.	ABNORMAL OR ACCIDENT ENVIRONMENT	ENVIRONMENT TO WHICH QUALIFIED	ITEM 28		ACCURACY OR RESPONSE TIME REQUIREMENTS	ACCURACY OR RESPONSE TIME DEMONSTRATED	QUALIFICATION REPORT & METHOD
MOTOR H-11 H-6 H-12	Siem/Als	5 HP/213T	See CPS-FSAR Table 3.11-5			100 days			Qualification Report PMTR 26001 (transmitted by Goulds Pump letter dated August 2, 1979). Report under evaluation. Projected date of completion 10/83.

Item 28

4 2) QUALIFIED:
1) TOTAL NUMBER: 4
3) TEST PLAN APPROVED: 4
5) TEST COMPLETE: 4
7) VENDOR INFO REQ:
4) UNDER TEST: 10/83
6) TO BE REPLACED: 10/83
8) SCHED QUAL DATE: 10/83

TABLE 3.11-3

QUALIFICATION TABLE FOR BOP COMPONENTS
ITEM 29

<u>TYPE OF EQUIPMENT/ LOCATION</u>	<u>MANUFACTURER</u>	<u>MODEL NO. OR IDENTIFICATION NO.</u>	<u>ABNORMAL OR ACCIDENT ENVIRONMENT</u>	<u>ENVIRONMENT TO WHICH QUALIFIED</u>	<u>OPERABILITY REQUIREMENTS</u>	<u>OPERABILITY DEMONSTRATED</u>	<u>ACCURACY OR RESPONSE TIME REQUIREMENTS</u>	<u>ACCURACY OR RESPONSE TIME DEMONSTRATED</u>	<u>QUALIFICATION REPORT & METHOD</u>
Limit Switch H-47 H-11 H-5 H-17 H-22 H-26 H-27 H-30	NAMCO	EA 170 Series	See CPS-FSAR Tables 3.11-5		100 days		N/A		Qual. Report #QTRIGS, Rev. 3 dated 8/20/81. evaluated.

(Switches in this item will be replaced by qualified Namco EA 180 Series Switches)

Item 29

1) TOTAL NUMBER: 50
 3) TEST PLAN APPROVED:
 5) TEST COMPLETE:
 7) VENDOR INFO REQ:

2) QUALIFIED:
 4) UNDER TEST:
 6) TO BE REPLACED: 50
 8) SCHED QUAL DATE: 9/83

TABLE 3.11-3

QUALIFICATION TABLE FOR BOP COMPONENTS

TYPE OF EQUIPMENT/ LOCATION	MANUFACTURER	MODEL NO. OR IDENTIFICATION NO.	ABNORMAL OR ACCIDENT ENVIRONMENT	ENVIRONMENT TO WHICH QUALIFIED	ITEM 30		OPERABILITY REQUIREMENTS	OPERABILITY DEMONSTRATED	ACCURACY OR RESPONSE TIME REQUIREMENTS	ACCURACY OR RESPONSE TIME DEMONSTRATED	QUALIFICATION REPORT & METHOD
Solenoid Valve P-12	Valcor Engineering	V226-5295-81	See CPS-FSAR Table 3.11-5	104°F 1002 RH 0 psig 2x10 ⁶ Rad	--	N/A	N/A	N/A	N/A	N/A	1) Valcor Engineering Corp. document #QR52600-5940- 2, Rev. C, dated 4/24/81 2) Valcor Engineering Corp. document #SKA11129, dated 8/27/82. 3) Valcor Engineering Corp. document #MR526-5295-81- 2, dated 1/12/83. Type Testing, Qualified Life: 40 yrs.

CPS-FSAR

Item 30

4

2) QUALIFIED:

4) UNDER TEST:

6) TO BE REPLACED: 5/8-1

8) SCHEDULED QUAL DATE:

1) TOTAL NUMBER: 5

3) TEST PLAN APPROVED:

5) TEST COMPLETE:

7) TESTOR INFO REQ:

9) RELOCATE: 1

TABLE 3.11-3
QUALIFICATION TABLE FOR BOP COMPONENTS
ITEM 31 (EQ-CLO26)

TYPE OF EQUIPMENT/ LOCATION	MANUFACTURER	MODEL NO. OR IDENTIFICATION NO.	ABNORMAL OR ACCIDENT ENVIRONMENT	ENVIRONMENT TO WHICH QUALIFIED	OPERABILITY REQUIREMENTS	OPERABILITY DEMONSTRATED	ACCURACY OR RESPONSE TIME REQUIREMENTS	ACCURACY OR RESPONSE TIME DEMONSTRATED	QUALIFICATION REPORT & METHOD
A) SKM Accelerometer H-32	BBN	424-ISO-TEC	See CPS-PSAR Tables 3.11-5 3.11-6	400°F for 3 hrs (65 psig) 350°F for 3 hrs (60 psig) 315°F for 18 hrs (55 psig) 300°F for 768 hrs (25 psig)	100 days	32 days equivalent to 100 days due to higher test temperature profile	N/A	N/A	TEC Test Report #517-TR-03, Rev. 2, dated 12-1-81 with Addendum, Rev. 0 dated 8-20-82.
B) Charge * Converter H-2c	TEC	504B (Qualified replacement model)	See CPS-PSAR Table 3.11-5 and 3.11-11	"	100 days	"	Sensitivity 0.2 mv/pc	Sensitivity 0.208 mv/pc	Qual. Report under evaluation. Evaluation will be completed by 9/83.

* The equipment in this item will be replaced by qualified
TEC model 504B charge converters.

Item 31 (A)
1) TOTAL NUMBER: 16
2) QUALIFIED: 16
3) TEST PLAN APPROVED:
4) UNDER TEST:
5) TEST COMPLETE:
6) TO BE REPLACED:
7) VENDOR INFO REQ:
8) SCHED QUAL DATE:

Item 31 (B)
1) TOTAL NUMBER: 16
2) QUALIFIED:
3) TEST PLAN APPROVED:
4) UNDER TEST:
5) TEST COMPLETE: 16
6) TO BE REPLACED:
7) VENDOR INFO REQ:
8) SCHED QUAL DATE: 9/83

TABLE 3.11-3
QUALIFICATION TABLE FOR BOP COMPONENTS
ITEM 32

<u>TYPE OF EQUIPMENT/ LOCATION</u>	<u>MANUFACTURER</u>	<u>MODEL NO. OR IDENTIFICATION NO.</u>	<u>ABNORMAL OR ACCIDENT ENVIRONMENT</u>	<u>ENVIRONMENT TO WHICH QUALIFIED</u>	<u>OPERABILITY REQUIREMENTS</u>	<u>OPERABILITY DEMONSTRATED</u>	<u>ACCURACY OR RESPONSE TIME REQUIREMENTS</u>	<u>ACCURACY OR RESPONSE TIME DEMONSTRATED</u>	<u>QUALIFICATION REPORT & METHOD</u>
Passive Components *Location: E-51, E-5, H-31, E-55			See FSAR Tables 3.11-5 and 3.11-14		100 days		N/A		Qual. Report 377-83-032 - evaluated. Additional vendor infor- mation req'd. Reevaluation will be com- pleted by 4/83.
Terminal block	GE	EN25A12W							
Fuse	Buchanan	Model 358							
Fuse Block	ITE Gould	Model P-302C							
Control Relay	GE	12HMA11B11 12HFA51A49H 12HFA51A42H							
Control Relay	Agastat	GPI GLM							

Item 32

1) TOTAL NUMBER: 13
3) TEST PLAN APPROVED:
5) TEST COMPLETE: 13
7) VENDOR INFO REQ:

2) QUALIFIED:
4) UNDER TEST:
6) TO BE REPLACED:
8) SCHED QUAL DATE: 10/83

*Panels are listed in FSAR Table 3.11-1 for
passive component location

TABLE 3.11-3
QUALIFICATION TABLE FOR BOP COMPONENTS
ITEM 33 (EQ-LC016)

TYPE OF EQUIPMENT/ LOCATION	MANUFACTURER	MODEL NO. OR IDENTIFICATION NO.	ABNORMAL OR ACCIDENT ENVIRONMENT	ENVIRONMENT TO WHICH QUALIFIED	OPERABILITY REQUIREMENTS	OPERABILITY DEMONSTRATED	ACCURACY OR RESPONSE TIME REQUIREMENTS	ACCURACY OR RESPONSE TIME DEMONSTRATED	QUALIFICATION REPORT & METHOD
Safety-Related Process Radiation Monitoring System	Eberline	CLI-1; SA-11/IB-4- HT-CC; DAM-1	See CPS-FSAR Tables 3.11-5 3.11-11 3.11-14	Thermal Aging: 21.99 days @ 190.4°F & 64.75 days at 212°F; Radiation: 10 ³ Rads; R.H.: 100% max. Seismic Test: RES enveloped.			10%	10% ²	Qualification Report #2176, Rev. 0, dated 11/10/81
(a) H-5					1 hr.	(By analysis) ¹			Qualified Life: 17 years
(b) H-17, H-26 & H-31					N/A	N/A			Qualified life: 17 years

CPS-FSAR

Item 33

1) TOTAL NUMBER: 40
3) TEST PLAN APPROVED:
5) TEST COMPLETE:
7) VENDOR INFO REQ:

2) QUALIFIED: 40
4) UNDER TEST:
6) TO BE REPLACED:
8) SCHED QUAL DATE:

NOTES:

1. Accident profile is relatively the same as normal condition during the first hour of the accident. Qualification is therefore based on qualification to normal conditions.
2. Accuracy was demonstrated at 18.8%, however based on calibration requirements of every six months at the field, calibration can be maintained. This is part of the Maintenance and Surveillance requirements.

TABLE 3.11-3

QUALIFICATION TABLE FOR BOP COMPONENTS

ITEM 34

<u>TYPE OF EQUIPMENT/ LOCATION</u>	<u>MANUFACTURER</u>	<u>MODEL NO. OR IDENTIFICATION NO.</u>	<u>ABNORMAL OR ACCIDENT ENVIRONMENT</u>	<u>ENVIRONMENT TO WHICH QUALIFIED</u>	<u>OPERABILITY REQUIREMENTS</u>	<u>OPERABILITY DEMONSTRATED</u>	<u>ACCURACY OR RESPONSE TIME REQUIREMENTS</u>	<u>ACCURACY OR RESPONSE TIME DEMONSTRATED</u>	<u>QUALIFICATION REPORT & METHOD</u>
6.9 Kv Switchgear H-5	Westinghouse	Custom	See CPS-FSAR Tables 3.11-5 3.11-14		100 days				Westinghouse Qual. Document No. IN83030-41. under eval- uation. Projected Date of completion 10/83.

Item 34

1) TOTAL NUMBER: 2
 3) TEST PLAN APPROVED:
 5) TEST COMPLETE: 2
 7) VENDOR INFO REQ:

2) QUALIFIED:
 4) UNDER TEST:
 6) TO BE REPLACED:
 8) SCHED QUAL DATE: 10/83

TABLE 3.11-3

QUALIFICATION TABLE FOR BOP COMPONENTS
ITEM 35

<u>TYPE OF EQUIPMENT/ LOCATION</u>	<u>MANUFACTURER</u>	<u>MODEL NO. OR IDENTIFICATION NO.</u>	<u>ABNORMAL OR ACCIDENT ENVIRONMENT</u>	<u>ENVIRONMENT TO WHICH QUALIFIED</u>	<u>OPERABILITY REQUIREMENTS</u>	<u>OPERABILITY DEMONSTRATED</u>	<u>ACCURACY OR RESPONSE TIME REQUIREMENTS</u>	<u>ACCURACY OR RESPONSE TIME DEMONSTRATED</u>	<u>QUALIFICATION REPORT & METHOD</u>
6.9 Kv Breaker H-5	Westinghouse	75DHP500	See CPS-FSAR Tables 3.11-5 3.11-14		100 days				Westinghouse Qual. Document No. IN3030-41, under eval- uation. Projected date of completion 10/83.

Item 35

1) TOTAL NUMBER: 6
 3) TEST PLAN APPROVED:
 5) TEST COMPLETE: 6
 7) VENDOR INFO REQ:
 2) QUALIFIED:
 4) UNDER TEST:
 6) TO BE REPLACED:
 8) SCHED QUAL DATE: 10/83

TABLE 3.11-5
 QUALIFICATION TABLE FOR BOP COMPONENTS
 ITEM 36

<u>TYPE OF EQUIPMENT/ LOCATION</u>	<u>MANUFACTURER</u>	<u>MODEL NO. OR IDENTIFICATION NO.</u>	<u>ABNORMAL OR ACCIDENT ENVIRONMENT</u>	<u>ENVIRONMENT TO WHICH QUALIFIED</u>	<u>OPERABILITY REQUIREMENTS</u>	<u>OPERABILITY DEMONSTRATED</u>	<u>ACCURACY OR RESPONSE TIME REQUIREMENTS</u>	<u>ACCURACY OR RESPONSE TIME DEMONSTRATED</u>	<u>QUALIFICATION REPORT & METHOD</u>
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TABLE 3.11-3
QUALIFICATION TABLE FOR BOP COMPONENTS

TYPE OF EQUIPMENT / LOCATION	MANUFACTURER	MODEL NO. OR IDENTIFICATION NO.	ABNORMAL OR ACCIDENT ENVIRONMENT	ENVIRONMENT TO WHICH QUALIFIED	ITEM 37		OPERABILITY REQUIREMENTS	OPERABILITY DEMONSTRATED	ACCURACY OR RESPONSE TIME REQUIREMENTS	ACCURACY OR RESPONSE TIME DEMONSTRATED	QUALIFICATION REPORT & METHOD
Heater (SGIS) M-47	Nuthorn	Custom	See CPS-FSAR Table 3.11-5			100 days					Qual. Report Scheduled for 3/84.

ITEM 37

2) QUALIFIED: 2
4) UNDER TEST: 2
6) TO BE REPLACED: 5/84
8) SCHED QUAL DATE: 5/84
1) TOTAL NUMBER: 2
3) TEST PLAN APPROVED:
5) TEST COMPLETE:
7) TEST COMPLETE FOR INFO REQ:

TABLE 3.11-3
QUALIFICATION TABLE FOR BOP COMPONENTS
ITEM 38

<u>TYPE OF EQUIPMENT/ LOCATION</u>	<u>MANUFACTURER</u>	<u>MODEL NO. OR IDENTIFICATION NO.</u>	<u>ABNORMAL OR ACCIDENT ENVIRONMENT</u>	<u>ENVIRONMENT TO WHICH QUALIFIED</u>	<u>OPERABILITY REQUIREMENTS</u>	<u>OPERABILITY DEMONSTRATED</u>	<u>ACCURACY OR RESPONSE TIME REQUIREMENTS</u>	<u>ACCURACY OR RESPONSE TIME DEMONSTRATED</u>	<u>QUALIFICATION REPORT & METHOD</u>
Diff. Press. Switch H-47 H-51	Barton	583-2	See CPS-TSAR Table 3.11-5		100 days				Qual. plan approved to CPS requirements. Qual. Report scheduled for 12/83.

Item 38

1) TOTAL NUMBER: 6
3) TEST PLAN APPROVED:
5) TEST COMPLETE:
7) VENDOR INFO REQ:

2) QUALIFIED:
4) UNDER TEST: 6
6) TO BE REPLACED:
8) SCHED QUAL DATE: 2/84

TABLE 3.11-3
QUALIFICATION TABLE FOR BOP COMPONENTS
ITEM 39

<u>TYPE OF EQUIPMENT/ LOCATION</u>	<u>MANUFACTURER</u>	<u>MODEL NO. OR IDENTIFICATION NO.</u>	<u>ABNORMAL OR ACCIDENT ENVIRONMENT</u>	<u>ENVIRONMENT TO WHICH QUALIFIED</u>	<u>OPERABILITY REQUIREMENTS</u>	<u>OPERABILITY DEMONSTRATED</u>	<u>ACCURACY OR RESPONSE TIME REQUIREMENTS</u>	<u>ACCURACY OR RESPONSE TIME DEMONSTRATED</u>	<u>QUALIFICATION REPORT & METHOD</u>
Press. Diff. Transmitter H-47	Barton	765	See CPS-FSAM Table 3.11-5		100 days				Qual. Plan approved to CPS requirements. Qual Report scheduled for 12/83

Item 39

1) TOTAL NUMBER: 4
3) TEST PLAN APPROVED:
5) TEST COMPLETE:
7) VENDOR INFO REQ:

2) QUALIFIED:
4) UNDER TEST: 4
6) TO BE REPLACED:
8) SCHED QUAL DATE: 2/84

TABLE 3.11-3
QUALIFICATION TABLE FOR BOP COMPONENTS

TYPE OF EQUIPMENT / LOCATION	MANUFACTURER	MODEL NO. OR IDENTIFICATION NO.	ABNORMAL OR ACCIDENT ENVIRONMENT	ENVIRONMENT TO WHICH QUALIFIED	OPERABILITY REQUIREMENTS	OPERABILITY DEMONSTRATED	ACCURACY OR RESPONSE TIME REQUIREMENTS	ACCURACY OR RESPONSE TIME DEMONSTRATED	QUALIFICATION REPORT & METHOD
Tactical Radar R-47	Kidde	89516	See CPS-FSAR Table 3.11-5 122°F for 100 days		100 days				Qual. Report Scheduled for 9/83.

Item 40

2) QUALIFIED: 2
1) UNDER TEST: 11/83
6) TO BE REPLACED: 11/83

1) TOTAL NUMBER: 2
3) TEST PLAN APPROVED:
5) TEST COMPLETE:
7) TEST REPORTING AND REB:

TABLE 3.11-3
QUALIFICATION TABLE FOR BOP COMPONENTS

TYPE OF EQUIPMENT/ LOCATION	MANUFACTURER	MODEL NO. OR IDENTIFICATION NO.	ABNORMAL OR ACCIDENT ENVIRONMENT	ENVIRONMENT TO WHICH QUALIFIED	ITEM 41			QUALIFICATION REPORT & METHOD
					OPERABILITY REQUIREMENTS	OPERABILITY DEMONSTRATED	ACCURACY OR RESPONSE TIME REQUIREMENTS	ACCURACY OR RESPONSE TIME DEMONSTRATED
Temperature Switch, H-47	Rutherm	Ranco 16-476	See CPS-PSAR Table 3.11-5		100 days			Qual. Report Scheduled for 3/84.

Item 41

2) QUALIFIED: 4/

4) UNDER TEST: 5/84

6) TO BE REPLACED: 5/84

8) SCHED QUAL DATE: 5/84

1) TOTAL PLAN APPROVED:

3) TEST COMPLETE:

5) TEST INFO REQ:

7) VENDOR INFO REQ:

TABLE 3.11-3
QUALIFICATION TABLE FOR BOP COMPONENTS
ITEM 42

TYPE OF EQUIPMENT/ LOCATION	MANUFACTURER	MODEL NO. OR IDENTIFICATION NO.	ABNORMAL OR ACCIDENT ENVIRONMENT	ENVIRONMENT TO WHICH QUALIFIED	OPERABILITY REQUIREMENTS	OPERABILITY DEMONSTRATED	ACCURACY OR RESPONSE TIME REQUIREMENTS	ACCURACY OR RESPONSE TIME DEMONSTRATED	QUALIFICATION REPORT & METHOD

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TABLE 3.11-3
QUALIFICATION TABLE FOR BOP COMPONENTS
ITEM 43

TYPE OF EQUIPMENT/ LOCATION	MANUFACTURER	MODEL NO. OR IDENTIFICATION NO.	ABNORMAL OR ACCIDENT ENVIRONMENT	ENVIRONMENT TO WHICH QUALIFIED	OPERABILITY REQUIREMENTS	OPERABILITY DEMONSTRATED	ACCURACY OR RESPONSE TIME REQUIREMENTS	ACCURACY OR RESPONSE TIME DEMONSTRATED	QUALIFICATION REPORT & METHOD
Temperature Transmitter B-47	Weed	4000R	See CPS-FSAR Table 3.11-5, 122°F for 100 days		100 days				Report 546-8854- 28. Report evaluated. Additional vendor info. required. Re-evaluation will be completed by 10/83.

Item 43

2) QUALIFIED:
A) UNDER TEST: 10/83
B) TO BE REPLACED: 10/83
C) SCHEDULED QUAL. DATE: 10/83

1) TOTAL NUMBER: 4
2) TEST PLAN APPROVED: 4
3) TEST COMPLETE: 4
4) TEST SCHEDULED: 4
5) TEST SCHEDULED: 4
6) TEST SCHEDULED: 4
7) TEST SCHEDULED: 4

TABLE 3.11-3
QUALIFICATION TABLE FOR BOP COMPONENTS

TYPE OF EQUIPMENT/ LOCATION	MANUFACTURER	MODEL NO. OR IDENTIFICATION NO.	ABNORMAL OR ACCIDENT ENVIRONMENT	ENVIRONMENT TO WHICH QUALIFIED	OPERABILITY REQUIREMENTS	OPERABILITY DEMONSTRATED	ACCURACY OR RESPONSE TIME REQUIREMENTS	ACCURACY OR RESPONSE TIME DEMONSTRATED	QUALIFICATION REPORT & METHOD
Manufacturer	ITT	NH-91 NH-95	See CPS-FSAR Table 3.11-5 3.11-14 3.11-7		100 days				Report scheduled for 12/83.

Item 44

2) QUALIFIED: 16
4) UNDER TEST: 16
6) TO BE REPLACED: 2/84
8) SCHED QUAL DATE: 2/84

1) TOTAL NUMBER: 16
3) TEST PLAN APPROVED:
5) TEST COMPLETE:
7) VENDOR INFO REQ:

TABLE 3.11-3

QUALIFICATION TABLE FOR BOP COMPONENTS

ITEM 45

<u>TYPE OF EQUIPMENT/ LOCATION</u>	<u>MANUFACTURER</u>	<u>MODEL NO. OR IDENTIFICATION NO.</u>	<u>ABNORMAL OR ACCIDENT ENVIRONMENT</u>	<u>ENVIRONMENT TO WHICH QUALIFIED</u>	<u>OPERABILITY REQUIREMENTS</u>	<u>OPERABILITY DEMONSTRATED</u>	<u>ACCURACY OR RESPONSE TIME REQUIREMENTS</u>	<u>ACCURACY OR RESPONSE TIME DEMONSTRATED</u>	<u>QUALIFICATION REPORT & METHOD</u>
Flow Indicator Controller, H-51 Temperature Indicating Transmitter H-31	Love Controls	54-8115-8134- 8174 54-838-8114-8139- 851-8174	See CPS-FSAR Table 3.11-5		100 days				Qual. Report 377-83-032 evaluated. Additional vendor inter- face required. Reevaluation will be com- pleted after 11/83.

Item 45

1) TOTAL NUMBER: 3
 3) TEST PLAN APPROVED:
 5) TEST COMPLETE: 3
 7) VENDOR INFO REQ:

2) QUALIFIED:
 4) UNDER TEST:
 6) TO BE REPLACED:
 8) SCHED QUAL DATE: 11/83

TABLE 3.11-3
QUALIFICATION TABLE FOR BOP COMPONENTS
ITEM 46

<u>TYPE OF EQUIPMENT/ LOCATION</u>	<u>MANUFACTURER</u>	<u>MODEL NO. OR IDENTIFICATION NO.</u>	<u>ABNORMAL OR ACCIDENT ENVIRONMENT</u>	<u>ENVIRONMENT TO WHICH QUALIFIED</u>	<u>OPERABILITY REQUIREMENTS</u>	<u>OPERABILITY DEMONSTRATED</u>	<u>ACCURACY OR RESPONSE TIME REQUIREMENTS</u>	<u>ACCURACY OR RESPONSE TIME DEMONSTRATED</u>	<u>QUALIFICATION REPORT & METHOD</u>
Flow Transmitter H-26 H-51	Validyne	P232-D1Y1-12-1708 P232-D1Y1-14-1708	See CPS-FSAR Table 3.11-5 3.11-11		100 days				

Potential replacement by qualified FCI Transmitter under evaluation.

Item 46

1) TOTAL NUMBER: 6
 3) TEST PLAN APPROVED:
 5) TEST COMPLETE:
 7) VENDOR INFO REQ:

2) QUALIFIED:
 4) UNDER TEST:
 6) TO BE REPLACED: 6
 8) SCHED QUAL DATE: 9/83

TABLE 3.11-3
QUALIFICATION TABLE FOR BOP COMPONENTS
ITEM 47

TYPE OF EQUIPMENT/ LOCATION	MANUFACTURER	MODEL NO. OR IDENTIFICATION NO.	ABNORMAL OR ACCIDENT ENVIRONMENT	ENVIRONMENT TO WHICH QUALIFIED	OPERABILITY REQUIREMENTS	OPERABILITY REQUIREMENTS DEMONSTRATED	ACCURACY OR RESPONSE TIME DEMONSTRATED	ACCURACY OR RESPONSE TIME REQUIREMENTS	QUALIFICATION REPORT & METHOD
Pressure Differential Relay, Temperature Alarm Relay, Flow Alarm Relay H-24 H-25 H-31 H-56	Transmatic	W221A20-243	See CPS-FSAR Tables 3.11-5 3.11-14		100 days				Qual. Report 377-83-032 evaluated. Additional vendor inter-face required. Re-evaluation will be completed after 5/83

Item 47

2) QUALIFIED:
 1) TOTAL NUMBER: 23
 3) TEST PLAN APPROVED: 23
 5) TEST COMPLETE: 23
 7) VENDOR INFO REQ:
 4) UNDER TEST:
 6) TO BE REPLACED: 9/83
 8) SCHED QUAL DATE: 9/83

TABLE 3.11-3
QUALIFICATION TABLE FOR BOP COMPONENTS
ITEM 48

<u>TYPE OF EQUIPMENT/ LOCATION</u>	<u>MANUFACTURER</u>	<u>MODEL NO. OR IDENTIFICATION NO.</u>	<u>ABNORMAL OR ACCIDENT ENVIRONMENT</u>	<u>ENVIRONMENT TO WHICH QUALIFIED</u>	<u>OPERABILITY REQUIREMENTS</u>	<u>OPERABILITY DEMONSTRATED</u>	<u>ACCURACY OR RESPONSE TIME REQUIREMENTS</u>	<u>ACCURACY OR RESPONSE TIME DEMONSTRATED</u>	<u>QUALIFICATION REPORT & METHOD</u>
Hand Switch H-51 H-31 H-56	GE	SBM	See CPS-FSAR Table 3.11-5		100 days				Qual. Report 377-83-032 evaluated. Additional vendor info. required. Reevaluation will be com- pleted by 10/83

Item 48

1) TOTAL NUMBER: 5
3) TEST PLAN APPROVED:
5) TEST COMPLETE: 5
7) VENDOR INFO REQ:

2) QUALIFIED:
4) UNDER TEST:
6) TO BE REPLACED:
8) SCHED QUAL DATE: 10/83

TABLE 3.11-3
QUALIFICATION TABLE FOR DOP COMPONENTS

TYPE OF EQUIPMENT/ LOCATION	MANUFACTURER	MODEL NO. OR IDENTIFICATION NO.	ABNORMAL OR ACCIDENT ENVIRONMENT	ENVIRONMENT TO WHICH QUALIFIED	OPERABILITY REQUIREMENTS	OPERABILITY DEMONSTRATED	ACCURACY OR RESPONSE TIME REQUIREMENTS	ACCURACY OR RESPONSE TIME DEMONSTRATED	QUALIFICATION REPORT & METHOD
Time Delay Relay	Agostat	7014AD 7014FD	See CPS-FSAR Tables 3.11-5 3.11-14		100 days				Qual. Report 377-83-032 evaluated. Additional vendor interface required. Re-evaluation will be com- pleted after 11/83

Item 49

2) QUALIFIED:
4) UNDER TEST: 11/83
6) TO BE REPLACED: 8) SCHEDULED QUAL DATE:
1) TOTAL NUMBER: 22
3) TEST PLAN APPROVED: 22
5) TEST COMPLETE: 22
7) VENDOR INFO REQ:

TABLE 3.11-5
QUALIFICATION TABLE FOR BOP COMPONENTS
ITEM 50

<u>TYPE OF EQUIPMENT/ LOCATION</u>	<u>MANUFACTURER</u>	<u>MODEL NO. OR IDENTIFICATION NO.</u>	<u>ABNORMAL OR ACCIDENT ENVIRONMENT</u>	<u>ENVIRONMENT TO WHICH QUALIFIED</u>	<u>OPERABILITY REQUIREMENTS</u>	<u>OPERABILITY DEMONSTRATED</u>	<u>ACCURACY OR RESPONSE TIME REQUIREMENTS</u>	<u>ACCURACY OR RESPONSE TIME DEMONSTRATED</u>	<u>QUALIFICATION REPORT & METHOD</u>
Temperature indicating switch H-46 H-47 H-24	United	802PE-785	See CPS-FSAR Table 3.11-5		100 days				Qual. Report 377-83-032 evaluated. Additional vendor inter- face required. Reevaluation will be com- pleted after 11/83.

Item 50

1) TOTAL NUMBER: 6
3) TEST PLAN APPROVED:
5) TEST COMPLETE: 6
7) VENDOR INFO REQ:
2) QUALIFIED:
4) UNDER TEST:
6) TO BE REPLACED:
8) SCHED QUAL DATE: 11/83

TABLE 3.11-3
QUALIFICATION TABLE FOR BOP COMPONENTS

TYPE OF EQUIPMENT/ LOCATION	MANUFACTURER	MODEL NO. OR IDENTIFICATION NO.	ABNORMAL OR ACCIDENT ENVIRONMENT	ENVIRONMENT TO WHICH QUALIFIED	ITEM 51		QUALIFICATION REPORT & METHOD
					OPERABILITY REQUIREMENTS	ACCURACY OR RESPONSE TIME DEMONSTRATED	
Position Light H-51 H-31 B-50	GE	ET-16	See CPS-FSAR Table 3.11-5		100 days		Qual. Report #377-83-032 evaluated. Additional vendor info. required. Reevaluation will be com- pleted by 10/83.

Item 51

2) QUALIFIED:
4) UNDER TEST:
6) TO BE REPLACED: 10/83
8) SCHED QUAL DATE:
1) TOTAL NUMBER: 14
3) TEST PLAN APPROVED: 14
5) TEST COMPLETE: 14
7) VENDOR INFO REQ:

TABLE 3.11-3
QUALIFICATION TABLE FOR BOP COMPONENTS
ITEM 52

TYPE OF EQUIPMENT/ LOCATION	MANUFACTURER	MODEL NO. OR IDENTIFICATION NO.	ABNORMAL OR ACCIDENT ENVIRONMENT	ENVIRONMENT TO WHICH QUALIFIED	OPERABILITY REQUIREMENTS	OPERABILITY DEMONSTRATED	ACCURACY OR RESPONSE TIME REQUIREMENTS	ACCURACY OR RESPONSE TIME DEMONSTRATED	QUALIFICATION REPORT & METHOD
Temperature Solenoid H-51 H-51	ASCO	HXB320B177 HXB320B2	See CPS-FSAR Table 3.11-5		100 days				Qual. Report #377-83-032 evaluated. Additional vendor info. required. Reevaluation will be com- pleted by 10/83.

Item 52

1) TOTAL NUMBER: 3
2) TEST PLAN APPROVED: 3
3) TEST COMPLETE: 3
4) VENDOR INFO REQ: 3
5) QUALIFIED: 3
6) TO BE REPLACED: 3
7) SCHED QUAL DATE: 10/83

TABLE 3.11-3

QUALIFICATION TABLE FOR BOP COMPONENTS
ITEM 53

TYPE OF EQUIPMENT/ LOCATION	MANUFACTURER	MODEL NO. OR IDENTIFICATION NO.	ABNORMAL OR ACCIDENT ENVIRONMENT	ENVIRONMENT TO WHICH QUALIFIED	OPERABILITY REQUIREMENTS	OPERABILITY DEMONSTRATED	ACCURACY OR RESPONSE TIME REQUIREMENTS	ACCURACY OR RESPONSE TIME DEMONSTRATED	QUALIFICATION REPORT & METHOD
Indicating Meter H-51	Love Control	54-8115-8114-8174 & 48-8115-8174 (qualified replace- ment model)	See CPS-FSAR Table 3.11-5		100 days				Qual. Report #377-83-032. evaluated. Additional vendor info. required. Reevaluation will be com- pleted after 11/83.

The equipment in this item will be replaced by qualified Love Control Model 54-8115-8114-8174 & 48-8115-8174 indicating meters.

Item 53

1) TOTAL NUMBER: 4
 3) TEST PLAN APPROVED:
 5) TEST COMPLETE: 4
 7) VENDOR INFO REQ:
 2) QUALIFIED:
 4) UNDER TEST:
 6) TO BE REPLACED:
 8) SCHED QUAL DATE: 11/83

TABLE 3.11-3

QUALIFICATION TABLE FOR BOP COMPONENTS

ITEM 54

<u>TYPE OF EQUIPMENT/ LOCATION</u>	<u>MANUFACTURER</u>	<u>MODEL NO. OR IDENTIFICATION NO.</u>	<u>ABNORMAL OR ACCIDENT ENVIRONMENT</u>	<u>ENVIRONMENT TO WHICH QUALIFIED</u>	<u>OPERABILITY REQUIREMENTS</u>	<u>OPERABILITY DEMONSTRATED</u>	<u>ACCURACY OR RESPONSE TIME REQUIREMENTS</u>	<u>ACCURACY OR RESPONSE TIME DEMONSTRATED</u>	<u>QUALIFICATION REPORT & METHOD</u>
Differential Pressure Transmitter H-5 H-31	Validyne	P232-D1V1-16-1711	See CPS-FSAR Tables 3.11-5 & 3.11-14		100 days				

Potential replacement by qualified FCI Transmitters under evaluation.

Item 54

1) TOTAL NUMBER: 4
 3) TEST PLAN APPROVED:
 5) TEST COMPLETE:
 7) VENDOR INFO REQ:

2) QUALIFIED:
 4) UNDER TEST:
 6) TO BE REPLACED: 4
 8) SCHED QUAL DATE: 9/83

TABLE 3.11-3
QUALIFICATION TABLE FOR BOP COMPONENTS
ITEM 55

<u>TYPE OF EQUIPMENT/ LOCATION</u>	<u>MANUFACTURER</u>	<u>MODEL NO. OR IDENTIFICATION NO.</u>	<u>ABNORMAL OR ACCIDENT ENVIRONMENT</u>	<u>ENVIRONMENT TO WHICH QUALIFIED</u>	<u>OPERABILITY REQUIREMENTS</u>	<u>OPERABILITY DEMONSTRATED</u>	<u>ACCURACY OR RESPONSE TIME REQUIREMENTS</u>	<u>ACCURACY OR RESPONSE TIME DEMONSTRATED</u>	<u>QUALIFICATION REPORT & METHOD</u>
Flow Indicator, Pressure Transmitter H-5, H-51	Love Controls	48-8115-8174	See CPS-FSAR Tables 3.11-5 3.11-14		100 days				Qual. Report #377-83-032 evaluated. Additional vendor info. required. Reevaluation will be com- pleted after 11/83.

Item 55

1) TOTAL NUMBER: 4
3) TEST PLAN APPROVED: ✓
5) TEST COMPLETE: ✓
7) VENDOR INFO REQ:
2) QUALIFIED:
4) UNDER TEST:
6) TO BE REPLACED:
8) SCHED QUAL DATE: 11/83

TABLE 3.11-3
QUALIFICATION TABLE FOR BOP COMPONENTS
ITEM 36

TITLE OF EQUIPMENT/ LOCATION	MANUFACTURER	MODEL NO. OR IDENTIFICATION NO.	ABNORMAL OR ACCIDENT ENVIRONMENT	ENVIRONMENT TO WHICH QUALIFIED	OPERABILITY REQUIREMENTS	OPERABILITY DEMONSTRATED	ACCURACY OR RESPONSE TIME REQUIREMENTS	ACCURACY OR RESPONSE TIME DEMONSTRATED	QUALIFICATION REPORT & METHOD
Flow Transmitter H-46	Rosemount	N116ST110005	See CPS-FSAR Table 3.11-5		100 days				

Item 36
Various qualification options
are under evaluation.

TABLE 3.11-3
QUALIFICATION TABLE FOR BOP COMPONENTS
ITEM 57 (EQ-CL040)

TYPE OF EQUIPMENT/ LOCATION	MANUFACTURER	MODEL NO. OR IDENTIFICATION NO.	ABNORMAL OR ACCIDENT ENVIRONMENT	ENVIRONMENT TO WHICH QUALIFIED	OPERABILITY REQUIREMENTS	OPERABILITY DEMONSTRATED	ACCURACY OR RESPONSE TIME REQUIREMENTS	ACCURACY OR RESPONSE TIME DEMONSTRATED	QUALIFICATION REPORT & METHOD
Solenoid Valve H-4, H-5 & H-26	ASCO	NP-83166SE	See CPS-FSAR Table 3.11-5	Thermal Aging at 250°F for 18 1/4 days; 20000 cycles energized/ deenergized; Vibration Aging 0.75 g's for 90 min. in each direction; 420°F Peak/ 325°F min. for 6 hrs; 310°F up to 24 hrs; 280°F up to 5 days; 265°F up to 30 days max. pressure 70 psig; 100% RH; 2.05 x 10 ⁸ Rads Spray 0.7 gpm/ft ² chemical: 10-5 Ph for 1 day; demineralized water for 29 days.	100 days	30 days equivalent to over 100 days due to higher test temperature profile.	N/A	N/A	Report # AQS-67368, Rev. 0, dated 3/2/82. Type Testing Qualified life: 40 years
Solenoid Valve (a) H-35 (b) H-27 & H-32	ASCO	206-832-6F	Same as above	Same as above	Same as above	Same as above	N/A	N/A	See above Qualified life: 32.7 years Qualified life: 6.2 years

Item 57

1) TOTAL NUMBER: 16
3) TEST PLAN APPROVED:
5) TEST COMPLETE:
7) VENDOR INFO REQ:
2) QUALIFIED: 16
4) UNDER TEST:
6) TO BE REPLACED:
8) SCHED QUAL DATE:

CPS-FSAR

TABLE 3.11-3

QUALIFICATION TABLE FOR BOP COMPONENTS
ITEM 58

<u>TYPE OF EQUIPMENT/ LOCATION</u>	<u>MANUFACTURER</u>	<u>MODEL NO. OR IDENTIFICATION NO.</u>	<u>ABNORMAL OR ACCIDENT ENVIRONMENT</u>	<u>ENVIRONMENT TO WHICH QUALIFIED</u>	<u>OPERABILITY REQUIREMENTS</u>	<u>OPERABILITY DEMONSTRATED</u>	<u>ACCURACY OR RESPONSE TIME REQUIREMENTS</u>	<u>ACCURACY OR RESPONSE TIME DEMONSTRATED</u>	<u>QUALIFICATION REPORT & METHOD</u>
Temperature Switch B-40	United	F302D-585	See CPS-FSAR Tables 3.11-5 3.11-11		100 days				

This component will be replaced by qualified Weid Model #611 RTD.

Item 58

1) TOTAL NUMBER: 2
 3) TEST PLAN APPROVED:
 5) TEST COMPLETE:
 7) VENDOR INFO REQ:

2) QUALIFIED:
 4) UNDER TEST:
 6) TO BE REPLACED: 2
 8) SCHED QUAL DATE: 9/83

TABLE 3.11-3
QUALIFICATION TABLE FOR BOP COMPONENTS

TYPE OF EQUIPMENT/ LOCATION	MANUFACTURER	MODEL NO. OR IDENTIFICATION NO.	ABNORMAL OR ACCIDENT ENVIRONMENT	ENVIRONMENT TO WHICH QUALIFIED	ITEM 59	OPERABILITY REQUIREMENTS	OPERABILITY DEMONSTRATED	ACCURACY OR RESPONSE TIME REQUIREMENTS	ACCURACY OR RESPONSE TIME DEMONSTRATED	QUALIFICATION REPORT & METHOD
Differential Pressure	Solon	7PSIIM	See CPS-FSAR Tables 3.11-5 3.11-44		100 days					Qual. Report #577-83-012 evaluated. Additional vendor info. required. Reevaluation will be com- pleted by 10/83.

Item 59

1) TOTAL NUMBER: 1 ✓
2) TEST PLAN APPROVED: ✓
3) TEST COMPLETE: ✓
4) VENDOR INFO REQ: ✓
5) TEST COMPLETE: ✓
6) TO BE REPLACED: 8/10/83
7) QUALIFIED: 20 QUALIFIED

TABLE 3.11-3
QUALIFICATION TABLE FOR SGP COMPONENTS

TYPE OF EQUIPMENT/ LOCATION	MANUFACTURER	MODEL NO. OR IDENTIFICATION NO.	ABNORMAL OR ACCIDENT ENVIRONMENT	ENVIRONMENT TO WHICH QUALIFIED	OPERABILITY REQUIREMENTS	OPERABILITY DEMONSTRATED	ACCURACY OR RESPONSE TIME REQUIREMENTS	ACCURACY OR RESPONSE TIME DEMONSTRATED	QUALIFICATION REPORT & METHOD
Power Supply R-47	Nuthorn	Custom	See CPS-F5AP Table 3.11-5		100 days				Qual. Report Scheduled for 11/83

Item 60

2) QUALIFIED: 2
4) UNDER TEST: 1/84
6) TO BE REPLACED: 8
8) SCHED QUAL DATE: 1/84
1) TOTAL NUMBER: 2
3) TEST PLAN APPROVED:
5) TEST COMPLETE:
7) VENDOR INFO REQ:

TABLE 3.11-3

QUALIFICATION TABLE FOR BOP COMPONENTS

ITEM 61(EQ-CL033)

TYPE OF EQUIPMENT/ LOCATION	MANUFACTURER	MODEL NO. OR IDENTIFICATION NO.	ABNORMAL OR ACCIDENT ENVIRONMENT	ENVIRONMENT TO WHICH QUALIFIED	OPERABILITY REQUIREMENTS	OPERABILITY DEMONSTRATED	ACCURACY OR RESPONSE TIME REQUIREMENTS	ACCURACY OR RESPONSE TIME DEMONSTRATED	QUALIFICATION REPORT & METHOD
Temperature Element H-11 H-12 H-6	Powers	379-1668	See GPS-FSAR Table 3.11-5	150°F, 99%RH for 100 days, 250°F, all steam for 6 hours 165°F, 90% for 7 days 23 1/2 hours Pressure 18 psig Radiation 7 6 x 10 ⁻⁶ Rads Thermal Aging: 185°F, 100 days	100 days	189 days	±.25% of Reading	±.25% Reading, +1.31°C during accident.	MCC Powers Report 377-S1.020, Rev.2 dated 11/16/82. Qualified life: 40 years. (EQ-CL033)

Item 61

1) TOTAL NUMBER: 8
 3) TEST PLAN APPROVED:
 5) TEST COMPLETE:
 7) VENDOR INFO REQ:

2) QUALIFIED: 8
 4) UNDER TEST:
 6) TO BE REPLACED:
 8) SCHED QUAL DATE:

TABLE 3.11-3
QUALIFICATION TABLE FOR TP COMPONENTS
ITEM 62

<u>TYPE OF EQUIPMENT/ LOCATION</u>	<u>MANUFACTURER</u>	<u>MODEL NO. OR IDENTIFICATION NO.</u>	<u>ABNORMAL OR ACCIDENT ENVIRONMENT</u>	<u>ENVIRONMENT TO WHICH QUALIFIED</u>	<u>OPERABILITY REQUIREMENTS</u>	<u>OPERABILITY DEMONSTRATED</u>	<u>ACCURACY OR RESPONSE TIME REQUIREMENTS</u>	<u>ACCURACY OR RESPONSE TIME DEMONSTRATED</u>	<u>QUALIFICATION REPORT & METHOD</u>
Temperature Switch H-6 H-11 H-12	United	C302D-103	See CPS-PSAR Table 3.11-5 3.11-7 3.11-8		100 days				Qual. Report #377-834032 evaluated. Additional vendor info. required. Reevaluation will be completed by 10/83.

Item 62

1) TOTAL NUMBER: 8
3) TEST PLAN APPROVED: 3
5) TEST COMPLETE: 3
7) VENDOR INFO REQ:
2) QUALIFIED:
4) UNDER TEST:
6) TO BE REPLACED:
8) SCHED DUAL DATE: 10/83

TABLE 3.11-3
QUALIFICATION TABLE FOR BOP COMPONENTS
ITEM 63

TYPE OF EQUIPMENT / LOCATION	MANUFACTURER	MODEL NO. OR IDENTIFICATION NO.	ABNORMAL OR ACCIDENT ENVIRONMENT	ENVIRONMENT TO WHICH QUALIFIED	OPERABILITY REQUIREMENTS	OPERABILITY DEMONSTRATED	ACCURACY OR RESPONSE TIME REQUIREMENTS	ACCURACY OR RESPONSE TIME DEMONSTRATED	QUALIFICATION REPORT & METHOD
Instrument Cable-TW H*	Okonite	Okonite/Okolon	See CPS-FSAR Table 3.11-5		100 days				Qual. Report Scheduled for 8/83.
Instrument Cable-Special 600V, 300V H*	Okonite	Okonite/PMR	See CPS-FSAR Table 3.11-5		100 days				Qual. Report #NQRN-2, dated 2/2/82 evaluated. Additional vendor info. required. Proj. date of completion 11/83.

Item 63

1) TOTAL NUMBER: 2
3) TEST PLAN APPROVED:
5) TEST COMPLETE: 1
7) VENDOR INFO REQ:
2) QUALIFIED:
4) UNDER TEST: 1
6) TO BE REPLACED:
8) SCHED QUAL DATE: 11/83

TABLE 3.11-3
QUALIFICATION TABLE FOR BOP COMPONENTS

TYPE OF INSTRUMENTATION	MANUFACTURER	MODEL NO. OR IDENTIFICATION NO.	ABNORMAL OR ACCIDENT ENVIRONMENT	ENVIRONMENT TO WHICH QUALIFIED	OPERABILITY REQUIREMENTS	OPERABILITY REQUIREMENTS DEMONSTRATED	ACCURACY OR RESPONSE TIME REQUIREMENTS	ACCURACY OR RESPONSE TIME REQUIREMENTS DEMONSTRATED	QUALIFICATION REPORT & METHOD
Instrument Cable-Tw All notes except H-28 & H-54	Okonite	Okonite/Okonite	See CPS-FSAR Table 3.11-5		100 days				Okonite Co. Test Report # SL-IP-1081 evaluated. Additional vendor info. required. Projected date of completion 10/83.

Item 64

1) TOTAL NUMBER: /
2) TEST PLAN APPROVED: /
3) TEST COMPLETE: /
4) VENDOR INFO REQ: /
5) TO BE REPLACED: /
6) SCHED QUAL DATE: 10/83

TABLE 3.11-3

QUALIFICATION TABLE FOR BOP COMPONENTS
ITEM 65 (EQ-C1025)

TYPE OF EQUIPMENT/ LOCATION	MANUFACTURER	MODEL NO. OR IDENTIFICATION NO.	ABNORMAL OR ACCIDENT ENVIRONMENT	ENVIRONMENT TO WHICH QUALIFIED	OPERABILITY REQUIREMENTS	OPERABILITY DEMONSTRATED	ACCURACY OR RESPONSE TIME REQUIREMENTS	ACCURACY OR RESPONSE TIME DEMONSTRATED	QUALIFICATION REPORT & METHOD
Instrument Cable-Special (coaxial) construction) All zones except H-7B & H-54	Rockbestos	RSS Firewall III	See CPS-FSAR Table 3.11-5	3 hrs @ 340°F (104 psig) 3 hrs @ 320°F (75 psig) 4 hrs @ 300°F (52 psig) 86 hrs @ 250°F (15 psig) 394 days @ 200°F (0 psig) Steam 8 2 x 10 RADS	100 days	365 days	N/A.	N/A	Rockbestos Test Report, dated 6-16-80 Type Testing: Qualified Life: 40 yrs. Aging: 168 hrs @ 150°C
"	"	RSS 2nd generation	"	3 hrs @ 346°F (113 psig) 3 hrs @ 335°F (93 psig) 4 hrs @ 315°F (69 psig) 86 hrs @ 265°F (28 psig) 2304 hrs @ 212°F (0 psig) Steam 8 2 x 10 Rads	100 days	100 days	"	"	1. Rockbestos Test Report #2806, dated 4-23-82 2. Supplement: QR2806S, dated 5-18-82 QR2806S(1), dated 5-25-82 QR2806S(2), dated 8-18-82 Type Testing: Qualified Life: 40 years Aging: 700 hrs @ 120°C

Item 65

1) TOTAL NUMBER: /
3) TEST PLAN APPROVED:
5) TEST COMPLETE:
7) VENDOR INFO REQ:

2) QUALIFIED: /
4) UNDER TEST:
6) TO BE REPLACED:
8) SCHED QUAL DATE:

TABLE 3.11-3
QUALIFICATION TABLE FOR BOP COMPONENTS
ITEM 66 (EQ-CLOS)

TYPE OF EQUIPMENT/ LOCATION	MANUFACTURER	MODEL NO. OR IDENTIFICATION NO.	ABNORMAL OR ACCIDENT ENVIRONMENT	ENVIRONMENT TO WHICH QUALIFIED	OPERABILITY REQUIREMENTS	OPERABILITY DEMONSTRATED	ACCURACY OR RESPONSE TIME REQUIREMENTS	ACCURACY OR RESPONSE TIME DEMONSTRATED	QUALIFICATION REPORT & METHOD
C & K Cable Lugs All zones except H-2B, & H-54	AMP	PIDG	See CPS-FSAR Table 3.11-5	DBA 2.9 hrs @ 352°F (121 psig) 3 hrs @ 322°F (17.7 psig) 90 hrs @ 252°F (11 psig) All Steam 8 2 x 10 RADS Thermal Aging: 1500 hrs. @ 150°C	100 days	Same as operability requirements	N/A	N/A	PROD SPEC RAD RES PIDG TERMINALS #108-11073 dated 12-3-76 ENG TEST REPORT PIDG TERMINALS #110-11002 ENG TEST REPORT PIDG HI-TEMP TERMINALS #110-11507 dated 10-1-78 ENG TEST REPORT FVP2 INSULATED TERMINALS #110-11512 dated 10-1-78 ENG TEST REPORT RAD RESISTANT PIDG & PLASTIGRIP TERMINALS #110-11516 dated 3-6-80 TYPE TESTED Qualified for: 40 years

Item 66

1) TOTAL NUMBER: /
3) TEST PLAN APPROVED:
5) TEST COMPLETE:
7) VENDOR INFO REQ:

2) QUALIFIED: /
4) UNDER TEST:
6) TO BE REPLACED:
8) SCHED QUAL DATE:

TABLE 3.11-3

QUALIFICATION TABLE FOR BOP COMPONENTS

TYPE OF EQUIPMENT/ LOCATION	MANUFACTURER	MODEL NO. OR IDENTIFICATION NO.	ABNORMAL OR ACCIDENT ENVIRONMENT	ENVIRONMENT TO WHICH QUALIFIED	ITEM 67		ACCURACY OR RESPONSE TIME REQUIREMENTS	ACCURACY OR RESPONSE TIME DEMONSTRATED	QUALIFICATION REPORT & METHOD
					OPERABILITY REQUIREMENTS	OPERABILITY DEMONSTRATED			
CON Terminal Blocks All Zones except H-26	Buchanan	NBQ100							

Qualified Marathon Terminal Blocks are used instead of Buchanan.
Marathon Terminal Blocks are addressed in Item 72 (EQ-CL031).

TYPE OF
EQUIPMENT /
LOCATION

MANUFACTURER

MODEL NO. OR
IDENTIFICATION
NO.

ABNORMAL OR
ACCIDENT
ENVIRONMENT

QUALIFICATION TABLE FOR BOP COMPONENTS

ITEM 68

ENVIRONMENT
TO WHICH
QUALIFIED

OPERABILITY
REQUIREMENTS

OPERABILITY
DEMONSTRATED

ACCURACY OR
RESPONSE TIME
REQUIREMENTS

ACCURACY OR
RESPONSE TIME
DEMONSTRATED

QUALIFICATION
REPORT &
METHOD

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TABLE 3.11-3

QUALIFICATION TABLE FOR BOP COMPONENTS
ITEM 69 (BQ-CLO30)

TYPE OF EQUIPMENT/ LOCATION	MANUFACTURER	MODEL NO. OR IDENTIFICATION NO.	ABNORMAL OR ACCIDENT ENVIRONMENT	ENVIRONMENT TO WHICH QUALIFIED	OPERABILITY REQUIREMENTS	OPERABILITY DEMONSTRATED	ACCURACY OR RESPONSE TIME REQUIREMENTS	ACCURACY OR RESPONSE TIME DEMONSTRATED	QUALIFICATION REPORT & METHOD
Burndy Power Cable Lugs (Uninsulated) All Zones except H-2B	Burndy	YA YAV	See CPS-FSAR Table 3.11-5	DBA 11 min @ 385°F (66-HO psig) 2 hrs 45 min @ 340°F (40 psig) 3 hrs @ 320°F (40 psig) 18 hrs @ 300°F (52 psig) 2 days @ 280°F (31 psig) 3 days @ 255°F (18 psig) 9 days @ 230°F (6 psig) 14 days, 18 hrs @ 200°F (10 psig) All Steam 2.449 x 10 ⁸ RADS Thermal Aging: 100°C above ambient for 55 hrs.	100 days	Same as operability requirement	N/A	N/A	Burndy Test Record No. TD 79-595A-2 (BURNDY) dated 11-13-79 Lab Test Record No. TD 79-601A (BURNDY) dated 11-20-79 Type Test Qualified for 40 years

Item 69

1) TOTAL NUMBER: /
 3) TEST PLAN APPROVED:
 5) TEST COMPLETE:
 7) VENDOR INFO REQ:

2) QUALIFIED: /
 4) UNDER TEST:
 6) TO BE REPLACED:
 8) SCHED QUAL DATE:

TABLE 3.11-3
QUALIFICATION TABLE FOR BOP COMPONENTS
ITEM 70 (EQ-CLOS3)

TYPE OF EQUIPMENT/ LOCATION	MANUFACTURER	MODEL NO. OR IDENTIFICATION NO.	ABNORMAL OR ACCIDENT ENVIRONMENT	ENVIRONMENT TO WHICH QUALIFIED	OPERABILITY REQUIREMENTS	OPERABILITY DEMONSTRATED	ACCURACY OR RESPONSE TIME REQUIREMENTS	ACCURACY OR RESPONSE TIME DEMONSTRATED	QUALIFICATION REPORT & METHODS
Rockway Labels All Zones except R-15	Electromark	Electrotag 1000- Series	See CPS-FSAR Table 3.11-5	2x10 ⁶ Rads 100% RH 70 psig (max)	N/A	N/A	N/A	N/A	Electromark Co. Test Report dated 7-5-77. Type Testing and Thermal Aging: 336 hrs @ 110°C Qualified Life: 40 years

Item 70

1) TOTAL NUMBER: /
2) QUALIFIED: /
3) TEST PLAN APPROVED: /
4) UNDER TEST: /
5) TEST COMPLETE: /
6) TO BE REPLACED: /
7) VENDOR INFO REQ: /
8) SCHED QUAL DATE: /

TABLE 3.11-3
QUALIFICATION TABLE FOR BOP COMPONENTS
ITEM 71 (EQ-CLO55)

TYPE OF EQUIPMENT/ LOCATION	MANUFACTURER	MODEL NO. OR IDENTIFICATION NO.	ABNORMAL OR ACCIDENT ENVIRONMENT	ENVIRONMENT TO WHICH QUALIFIED	OPERABILITY REQUIREMENTS	OPERABILITY DEMONSTRATED	ACCURACY OR RESPONSE TIME REQUIREMENTS	ACCURACY OR RESPONSE TIME DEMONSTRATED	QUALIFICATION REPORT & METHOD
Runway Labels All zones outside containment area	Brady Co.	B-361	See CPS-FSAR Table 3.11-5	2×10^8 Rads Steam, 30 psi	N/A	N/A	N/A	N/A	<ol style="list-style-type: none"> 1. Brady Co. Bulletin #MG-449, 1978. 2. Brady Co. Product Evaluation Report, 1978. 3. Brady Co. B361C Test Report, dated 6/9/78. 4. Brady Co. Product Evaluation Report, 1979. 5. Brady Co. Technical Sheet, dated 3/10/81. <p>Type Testing and Brady Co. Catalog Information. Qualified life: 40 years</p>

Item 71

1) TOTAL NUMBER: /
3) TEST PLAN APPROVED:
5) TEST COMPLETE:
7) VENDOR INFO REQ:

2) QUALIFIED: /
4) UNDER TEST:
6) TO BE REPLACED:
8) SCHED QUAL DATE:

TABLE 3.11-3

QUALIFICATION TABLE FOR BOP COMPONENTS
ITEM 72 (EQ-CLO31)

TYPE OF EQUIPMENT/ LOCATION	MANUFACTURER	MODEL NO. OR IDENTIFICATION NO.	ABNORMAL OR ACCIDENT ENVIRONMENT	ENVIRONMENT TO WHICH QUALIFIED	OPERABILITY REQUIREMENTS	OPERABILITY DEMONSTRATED	ACCURACY OR RESPONSE TIME REQUIREMENTS	ACCURACY OR RESPONSE TIME DEMONSTRATED	QUALIFICATION REPORT & METHOD
Terminal Block H-16, H-17, H-51	Marathon	1600-NUC Series	See PSAR Table 3.11-5	135 - 384°F in 0-10 sec (ramp) (50 psig) 384 - 345°F in 10-110 sec (ramp) (50 psig) 345°F for 11- sec-3hrs (50 psig) 3-45 hrs (80 psig) 295°F for 45 hrs-30 days (45 psig) Steam 8 2 x 10 RADS	100 days	30 days equiva- lent to over 100 days due to higher test temperature profile	N/A	N/A	Marathon Test Report #45603-1, dated 7-18-82 Type Testing: Aging: 1056 hrs. @ 120°C Qualified Life: 40 years

Item 72

1) TOTAL NUMBER: /
3) TEST PLAN APPROVED:
5) TEST COMPLETE:
7) VENDOR INFO REQ:

2) QUALIFIED: /
4) UNDER TEST:
6) TO BE REPLACED:
8) SCHED QUAL DATE:

TABLE 3.11-3

QUALIFICATION TABLE FOR BOP COMPONENTS
ITEM 73

<u>TYPE OF EQUIPMENT/ LOCATION</u>	<u>MANUFACTURER</u>	<u>MODEL NO. OR IDENTIFICATION NO.</u>	<u>ABNORMAL OR ACCIDENT ENVIRONMENT</u>	<u>ENVIRONMENT TO WHICH QUALIFIED</u>	<u>OPERABILITY REQUIREMENTS</u>	<u>OPERABILITY DEMONSTRATED</u>	<u>ACCURACY OR RESPONSE TIME REQUIREMENTS</u>	<u>ACCURACY OR RESPONSE TIME DEMONSTRATED</u>	<u>QUALIFICATION REPORT & METHOD</u>
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TABLE 3.11-3

QUALIFICATION TABLE FOR BOP COMPONENTS
ITEM 74

<u>TYPE OF EQUIPMENT/ LOCATION</u>	<u>MANUFACTURER</u>	<u>MODEL NO. OR IDENTIFICATION NO.</u>	<u>ABNORMAL OR ACCIDENT ENVIRONMENT</u>	<u>ENVIRONMENT TO WHICH QUALIFIED</u>	<u>OPERABILITY REQUIREMENTS</u>	<u>OPERABILITY DEMONSTRATED</u>	<u>ACCURACY OR RESPONSE TIME REQUIREMENTS</u>	<u>ACCURACY OR RESPONSE TIME DEMONSTRATED</u>	<u>QUALIFICATION REPORT & METHOD</u>
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TABLE 3.11-3

QUALIFICATION TABLE FOR BOP COMPONENTS
ITEM 75

<u>TYPE OF EQUIPMENT/ LOCATION</u>	<u>MANUFACTURER</u>	<u>MODEL NO. OR IDENTIFICATION NO.</u>	<u>ABNORMAL OR ACCIDENT ENVIRONMENT</u>	<u>ENVIRONMENT TO WHICH QUALIFIED</u>	<u>OPERABILITY REQUIREMENTS</u>	<u>OPERABILITY DEMONSTRATED</u>	<u>ACCURACY OR RESPONSE TIME REQUIREMENTS</u>	<u>ACCURACY OR RESPONSE TIME DEMONSTRATED</u>	<u>QUALIFICATION REPORT & METHOD</u>
CGCS N.C. FC HEATER (CGCS) H-40	Chromalox	IT-7905	See CPS-FSAR Table 3.11-5		100 days				

Item 75
Various qualification options
are under evaluation.

TABLE 3.11-3
QUALIFICATION TABLE FOR BOP COMPONENTS

TYPE OF EQUIPMENT/ LOCATION	MANUFACTURER	MODEL NO. OR IDENTIFICATION NO.	ABNORMAL OR ACCIDENT ENVIRONMENT	ENVIRONMENT TO WHICH QUALIFIED	ITEM 76			QUALIFICATION REPORT & METHOD
					OPERABILITY REQUIREMENTS	OPERABILITY DEMONSTRATED	ACCURACY OR RESPONSE TIME REQUIREMENTS	ACCURACY OR RESPONSE TIME DEMONSTRATED
CGCS COMP. MUT-1 H-40	Reliance	60 HP/405TS	See CPS-FSAR Tables 3.11-5 3.11-11		100 days			Qual. Report Scheduled for 12/83

Item 76

2) QUALIFIED: 2
 1) UNDER TEST: 2/84
 6) TO BE REPLACED: 2/84
 8) DISCHARGED

2) TOTAL NUMBER: 2
 3) TEST COMPLETE:
 5) TEST COMPLETE:
 1) VENDOR INITIALS: RED:

TABLE 3.11-3
QUALIFICATION TABLE FOR BOP COMPONENTS

TYPE OF EQUIPMENT / LOCATION	MANUFACTURER	MODEL NO. OR IDENTIFICATION NO.	ABNORMAL OR ACCIDENT ENVIRONMENT	ENVIRONMENT TO WHICH QUALIFIED	OPERABILITY REQUIREMENTS	OPERABILITY DEMONSTRATED	ACCURACY OR RESPONSE TIME REQUIREMENTS	ACCURACY OR RESPONSE TIME DEMONSTRATED	QUALIFICATION REPORT & METHOD
Temperature Switch B-47	Kidde	899530	See CPS-YEAR Table 3.11-5.		100 days				Qual. Report Scheduled for 9/83

Item 77

2) QUALIFIED: 2
 4) UNDER TEST: 2
 6) TO BE REPLACED: 11/1/83
 8) SCHEDULED DATE: 11/1/83

1) TOTAL NUMBER: 2
 3) TEST PLAN APPROVED:
 5) TEST COMPLETE:
 7) TEST REPORT DATED: 11/1/83

TABLE 3.11-3

QUALIFICATION TABLE FOR BOP COMPONENTS
ITEM 78

<u>TYPE OF EQUIPMENT/ LOCATION</u>	<u>MANUFACTURER</u>	<u>MODEL NO. OR IDENTIFICATION NO.</u>	<u>ABNORMAL OR ACCIDENT ENVIRONMENT</u>	<u>ENVIRONMENT TO WHICH QUALIFIED</u>	<u>OPERABILITY REQUIREMENTS</u>	<u>OPERABILITY DEMONSTRATED</u>	<u>ACCURACY OR RESPONSE TIME REQUIREMENTS</u>	<u>ACCURACY OR RESPONSE TIME DEMONSTRATED</u>	<u>QUALIFICATION REPORT & METHOD</u>
Temperature Indica- ting Transmitter H-5 H-56	Love Controls	54-838-8139- 8114-8174	See CPS-FSAR Tables 3.11-5 3.11-14		100 days				Qual. Report #377-83-032 evaluated. Additional vendor info. required. Re-evaluation will be com- pleted after 11/83.

Item 78

1) TOTAL NUMBER: 8
 3) TEST PLAN APPROVED: 8
 5) TEST COMPLETE: 8
 7) VENDOR INFO REQ:

2) QUALIFIED:
 4) UNDER TEST:
 6) TO BE REPLACED:
 8) SCHED QUAL DATE: 11/83

TABLE 3.11-4

QUALIFICATION TABLE FOR NSSS COMPONENTS

ITEM 1 (EQ-CLO01)

TYPE OF EQUIPMENT/ LOCATION	MANUFACTURER	MODEL NO. OR IDENTIFICATION NO.	ABNORMAL OR ACCIDENT ENVIRONMENT	ENVIRONMENT TO WHICH QUALIFIED	OPERABILITY REQUIREMENTS	OPERABILITY DEMONSTRATED	ACCURACY OR RESPONSE TIME REQUIREMENTS	ACCURACY OR RESPONSE TIME DEMONSTRATED	QUALIFICATION REPORT & METHOD
RHR Pump Motor Environmental Zone Code H-12 Plant Area Description Auxiliary Building RHR Pump Room A EL. 707'-0"	General Electric	Model No. 5K6336XC33A	See CPS-FSAR Tables 3.11-5 & 3.11-8	Aging: 1,50 hrs. at 200°C, 1 hr 1 1/2 g @ 60 Hz. DBE: 190°C (Coil Temperature) 0-2.3 psig, steam for 12 hrs. (Post DBE at 195°C for 175 hrs) Radiation: 5.5 x 10 ⁶ Rads	100 days	110 days	N/A	N/A	456HA898 Rev. 8, dated 9-30-76 491HA988, dated 7-18-80 Type Testing & Motorette Testing Qualified life: 40 yrs
RHR Pump Motor Environmental Zone Code H-12 Environmental MAP Zone A.1.6 Plant Area Description Auxiliary Bldg. RHR Pump Rm. B EL. 707'-0"	General Electric	Model No. 5K6336XC33A	See CPS-FSAR Tables 3.11-5 & 3.11-8	Aging: 1350 hrs. at 200°C, 1 hr 1 1/2 g @ 60 Hz. DBE: 190°C (Coil Temperature 0-2.3 psig, steam for 12 hrs. (Post DBE at 195°C for 175 hrs) Radiation: 5.5 x 10 ⁶ Rads	100 days	110 days	N/A	N/A	456HA898 Rev. 8, dated 9-30-76 491HA988, dated 7-18-80 Type Testing & Motorette Testing Qualified Life: 40 yrs
RHR Pump Motor Environmental Zone Code H-11 Environmental MAP Zone A.1.4 Plant Area Description Auxiliary Bldg. RHR Pump Rm. C EL. 707'-0"	General Electric	Model No. 5K6336XC33A	See CPS-FSAR Tables 3.11-5 & 3.11-7	Aging: 1350 hrs. at 200°C, 1 hr 1 1/2 g @ 60 Hz. DBE: 190°C (Coil Temperature 0-2.3 psig, steam for 12 hrs. (post DBE at 195°C for 175 hrs.) Radiation: 5.5 x 10 ⁶ Rads	100 days	110 days	N/A	N/A	456HA898 Rev. 8, dated 9-30-76 491HA988, dated 7-18-80 Type Testing & Motorette Testing Qualified Life: 40 years

ITEM 1

- 1) TOTAL NUMBER: 3
 2) QUALIFIED: 3
 3) TEST PLAN APPROVED:
 4) UNDER TEST:
 5) TEST COMPLETE:
 6) TO BE REPLACED:
 7) VENDOR INFO REQ:
 8) SCHED QUAL DATE:

TABLE 3.11-4

QUALIFICATION TABLE FOR NSSS COMPONENTS

ITEM 2 (EX-CLO13)

TYPE OF EQUIPMENT/ LOCATION	MANUFACTURER	MODEL NO. OR IDENTIFICATION NO.	ABNORMAL OR ACCIDENT ENVIRONMENT	ENVIRONMENT TO WHICH QUALIFIED	OPERABILITY REQUIREMENTS	OPERABILITY DEMONSTRATED	ACCURACY OR RESPONSE TIME REQUIREMENTS	ACCURACY OR RESPONSE TIME DEMONSTRATED	QUALIFICATION REPORT & METHOD
TPC Pump Motor Environmental Zone Code H-11 Environmental MAP Zone A.1.10 Plant Area Description Auxiliary Building LPCS Pump Room El. 707'-0"	General Electric	Model No. 5K6339XC191A	See CPS-FSAR Tables 3.11-5 & 3.11-7	Aging: 1350 hrs. at 200°C, 1 hr 1½ g @ 60 hz DBE: 190°C (Coil Temperature) 0-2.3 psig, steam for 12 hrs (post DBE at 195°C for 175 hrs) Radiation: 5.5x 10 ⁶ Rads	100 days	110 days	N/A	N/A	450HA898 Rev. 8 dated 9-30-76 491HA983, dated 7-18-80 Type Testing, & Motorette Testing Qualified Life: 40 years

ITEM 2

- 1) TOTAL NUMBER: / 2) QUALIFIED: /
 3) TEST PLAN APPROVED: 4) UNDER TEST:
 5) TEST COMPLETE: 6) TO BE REPLACED:
 7) VENDOR INFO REQ: 8) SCHED QUAL DATE:

TABLE 3.11-4
QUALIFICATION TABLE FOR NSSS COMPONENTS

TYPE OF EQUIPMENT/ LOCATION	MANUFACTURER	MODEL NO. OR IDENTIFICATION NO.	ABNORMAL OR ACCIDENT ENVIRONMENT	ENVIRONMENT TO WHICH QUALIFIED	ITEM 3 (EQ-CL011)		ACCURACY OR RESPONSE TIME REQUIREMENTS	ACCURACY OR RESPONSE TIME DEMONSTRATED	QUALIFICATION REPORT & METHOD
					OPERABILITY REQUIREMENTS	OPERABILITY DEMONSTRATED			
HPCS Pump Motor Environ- mental Zone Code H-6 Environ- mental MAP Zone F.1.7 Plant Area Description Fuel Bldg. HPCS Pump Room	General Electric	Model No. 5K6348XC106A	See CPS-FSAR Tables 3.11-5 & 3.11-7	Aging: 1350 hrs. at 200°C, 1 hr 1½ g @ 60 Hz DBE: 190°C (Coil Temperature) 0-2.3 psig, steam for 12 hours (post DBE at 195°C for 175 hrs) Radiation: 5.5x 10 ⁶ Rads	100 days	110 days	N/A	N/A	450HAB59 Rev. 8, dated 9-30-76 491HA938, dated 7/18/80 Type Testing, & Motorette Testing Qualified life: 40 years

ITEM 3

1) TOTAL NUMBER: / 2) QUALIFIED: /
3) TEST PLAN APPROVED: 4) UNDER TEST:
5) TEST COMPLETE: 6) TO BE REPLACED:
7) VENDOR INFO REQ: 8) SCHED QUAL DATE:

TABLE 3.11-4
QUALIFICATION TABLE FOR WSSS COMPONENTS
ITEM 4

TYPE OF EQUIPMENT/ LOCATION	MANUFACTURER	MODEL NO. OR IDENTIFICATION NO.	ABNORMAL OR ACCIDENT ENVIRONMENT	ENVIRONMENT TO WHICH QUALIFIED	OPERABILITY REQUIREMENTS	OPERABILITY DEMONSTRATED	ACCURACY OR RESPONSE TIME REQUIREMENTS	ACCURACY OR RESPONSE TIME DEMONSTRATED	QUALIFICATION REPORT & METHOD
Location: H-5, H-6, H-11, H-12, H-17, H-26, H-31, H-57			See CPS-PSAR Tables 3.11-5, 3.11-7, 3.11-8, 3.11-11, 3.11-14		100 days		N/A		To be qualified by Wyle Qualification Plan for Local Panel Components Qual Plan No. 17491-38
Terminal Board	G.E.	CR15182							
Wire	G.E.	Vulkene/SIS 14 AWG 600V (WIC14K6)							Qual. Report Scheduled for 3/84.
Conduit	Anaconda	Sealtite/U.A.P.							
Conduit Connectors	Thomas & Betts	Straight sizes 3/8" to 1-1/4": Models 5331 thru 5335 45° sizes 3/8" to 1-1/4": Models 5341 thru 5345 90° sizes 3/8" to 1-1/4": Models 5351 thru 5355							
Terminal Box (Oil Tight)	Hoffman	A-6044CH A-605CH A-1008CH A-1210CH A-1412CH A-4025C A-4035C							
Terminal Lugs	Amp	Nylon Insulated Size 16-14 AWG							

Item 4

- 1) TOTAL NUMBER: 24 2) QUALIFIED:
3) TEST PLAN APPROVED: 4) UNDER TEST: 24
5) TEST COMPLETE: 6) TO BE REPLACED:
7) VENDOR INFO REQ: 8) SCHED QUAL DATE: 5/84

1.11-502c

CPS-FSAM

TABLE 3.11-4
QUALIFICATION TABLE FOR NS65 COMPONENTS
ITEM 5

TYPE OF EQUIPMENT/ LOCATION	MANUFACTURER	MODEL NO. OR IDENTIFICATION NO.	ABNORMAL OR ACCIDENT ENVIRONMENT	ENVIRONMENT TO WHICH QUALIFIED	OPERABILITY REQUIREMENTS	OPERABILITY DEMONSTRATED	ACCURACY OR RESPONSE TIME REQUIREMENTS	ACCURACY OR RESPONSE TIME DEMONSTRATED	QUALIFICATION REPORT & METHOD
Level Transmitter, Differential Pressure Transmitter H-11 H-26 H-7	Gould	PD3018, PD3018-100-38- 11-10-99-40,-20	See CPS-FSAR Tables 3.11-5 3.11-14 3.11-11 3.11-7		100 days		± 5%		

Item 5

- 1) TOTAL NUMBER: 10
2) QUALIFIED:
3) TEST PLAN APPROVED:
4) UNDER TEST:
5) TEST COMPLETE:
6) TO BE REPLACED: 10
7) VENDOR INFO REQ:
8) SCHED QUAL DATE: 9/83

Item 5

Potential replacement by Gould PD 3218 or Rosemount 1153 Transmitters

TABLE 3.11-4
QUALIFICATION TABLE FOR NSSS COMPONENTS
ITEM 6
CL-009
CL-027

TYPE OF EQUIPMENT/ LOCATION	MANUFACTURER	MODEL NO. OR IDENTIFICATION NO.	ABNORMAL OR ACCIDENT ENVIRONMENT	ENVIRONMENT TO WHICH QUALIFIED	OPERABILITY REQUIREMENTS	OPERABILITY DEMONSTRATED	ACCURACY OR RESPONSE TIME REQUIREMENTS	ACCURACY OR RESPONSE TIME DEMONSTRATED	QUALIFICATION REPORT & METHOD
Valve	Limitorque	SB-0-25	See CPS-FSAR	1) Temperature: Transient 340°F (F ₂), 340°F 300°F (F ₂) Pressure: 105 psig steady state level, transient rise of 10.5 psig/sec. Humidity: 100% Radiation ⁸	100 days	100 days	provide required torque and/or thrust to actuate valve to either open or closed position.	provide required torque and/or thrust to actuate valve to either open or closed position.	Limitorque Qualification Report B0058 dated 1-11-80
Actuator		SB-1-40	Tables 3.11-5						1) Motors furnished with Class RH insul. qualified for 40 yrs. (EQ-CL009)
H-6		SB-3-80	3.11-14						2) Motors furnished with Class B insul. qualified for 40 yrs. with replacement of motors approx. every 7 to 9 yrs. (EQ-CL027)
H-5		SB-00-10	3.11-7						
		SB-3-150							
		SB-4-20							

CPS-FSAR

Item 6

1) TOTAL NUMBER: 7
2) QUALIFIED: 3
3) TEST PLAN APPROVED: 4) UNDER TEST:
5) TEST COMPLETE: 6) TO BE REPLACED: 7
7) VENDOR INFO REQ: 8) SCHED QUAL DATE: 9/83

TABLE 3.11-4
 QUALIFICATION TABLE FOR NSSS COMPONENTS
 ITEM 7

<u>TYPE OF EQUIPMENT/ LOCATION</u>	<u>MANUFACTURER</u>	<u>MODEL NO. OR IDENTIFICATION NO.</u>	<u>ABNORMAL OR ACCIDENT ENVIRONMENT</u>	<u>ENVIRONMENT TO WHICH QUALIFIED</u>	<u>OPERABILITY REQUIREMENTS</u>	<u>OPERABILITY DEMONSTRATED</u>	<u>ACCURACY OR RESPONSE TIME REQUIREMENTS</u>	<u>ACCURACY OR RESPONSE TIME DEMONSTRATED</u>	<u>QUALIFICATION REPORT & METHOD</u>
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Components in this item are replaced by qualified Rosemount Model 1153, Series B,
 Transmitters and are addressed in Item 18 of Table 3.11-4.

TABLE 3.11-4
QUALIFICATION TABLE FOR NSSS COMPONENTS

TYPE OF EQUIPMENT/ LOCATION	MANUFACTURER	MODEL NO. OR IDENTIFICATION NO.	ABNORMAL OR ACCIDENT ENVIRONMENT	ENVIRONMENT TO WHICH QUALIFIED	ITEM 8			
					OPERABILITY REQUIREMENTS	OPERABILITY DEMONSTRATED	ACCURACY OR RESPONSE TIME REQUIREMENTS	ACCURACY OR RESPONSE TIME DEMONSTRATED
MSIV Leakage Control Heater H-24	GE	P/647C518- 673G1-C	See CPS-PSAR Table 3.11-5 Fires 6.2-138 and 6.2-142		100 days		N/A	
								Qual. Report (#3272-5-2-2, Rev. A 4/7/76) under evaluation. Project- ed date of completion 9/83.

ITEM 8

- 1) TOTAL NUMBER: 4
 2) QUALIFIED: 4
 3) TEST PLAN APPROVED: 4
 4) UNDER TEST: 4
 5) TEST COMPLETE: 4
 6) TO BE REPLACED: 4
 7) VENDOR INFO REQ: 4
 8) SCHED QUAL DATE: 9/83

TABLE 3.11-4
QUALIFICATION TABLE FOR NSSS COMPONENTS

TYPE OF EQUIPMENT/ LOCATION	MANUFACTURER	MODEL NO. OR IDENTIFICATION NO.	ABNORMAL OR ACCIDENT ENVIRONMENT	ENVIRONMENT TO WHICH QUALIFIED	OPERABILITY REQUIREMENTS	OPERABILITY DEMONSTRATED	ACCURACY OR RESPONSE TIME REQUIREMENTS	ACCURACY OR RESPONSE TIME DEMONSTRATED	QUALIFICATION REPORT & METHOD
Temperature Element	PYGO	N145C1224P2 Type E	See CPS-FSAR Table 3.11-5 3.11-6 3.11-12 3.11-11 3.11-8		24 hours		USASC 96.1		Qual. testing completed. Qual. report scheduled for 9/83.
H-43									
H-42									
H-34									
H-26									
H-12									
H-20									
H-39									
H-25									

Item 9

1) TOTAL NUMBER: 4/6 2) QUALIFIED:
3) TEST PLAN APPROVED: 4) UNDER TEST:
5) TEST COMPLETE: 4/6 6) TO BE REPLACED:
7) VENDOR INFO REQ: 8) SCHED QUAL DATE: 11/93

TABLE 3.11-4
QUALIFICATION TABLE FOR NSSS COMPONENTS

ITEM 10 (EQ-CL013)

<u>TYPE OF EQUIPMENT/ LOCATION</u>	<u>MANUFACTURER</u>	<u>MODEL NO. OR IDENTIFICATION NO.</u>	<u>ABNORMAL OR ACCIDENT ENVIRONMENT</u>	<u>ENVIRONMENT TO WHICH QUALIFIED</u>	<u>OPERABILITY REQUIREMENTS</u>	<u>OPERABILITY DEMONSTRATED</u>	<u>ACCURACY OR RESPONSE TIME REQUIREMENTS</u>	<u>ACCURACY OR RESPONSE TIME DEMONSTRATED</u>	<u>QUALIFICATION REPORT & METHOD</u>
Limit Switch CPS-FSAR H-27, H-30	NAMCO Controls	EA-740 Series	See CPS-FSAR Tables	204x10 ⁶ rads Temp. 340°F - 6 hrs. 320°F - 3 hrs 270°F - 3 1/2 days 200°F - 28 days Pressure 70 psig RH Steam/100%RH Spray Chem.-4days Water-28 days	100 days	223 days by equivalency	Not Applicable	Not Applicable	REPORT * QTR 111, Rev. 0 October 1, 1981 by Type Testing evaluated.

Note: Vendor to replace existing switches by qualified switches as identified in the qualification report.

Item 10

1) TOTAL NUMBER: 40
2) QUALIFIED:
3) TEST PLAN APPROVED:
4) UNDER TEST:
5) TEST COMPLETE:
6) TO BE REPLACED: 40
7) VENDOR INFO REQ:
8) SCHED BUA! DATE: 9/83

TABLE 3.11-4
QUALIFICATION TABLE FOR NSSS COMPONENTS
ITEM 11

TYPE OF EQUIPMENT/ LOCATION	MANUFACTURER	MODEL NO. OR IDENTIFICATION NO.	ABNORMAL OR ACCIDENT ENVIRONMENT	ENVIRONMENT TO WHICH QUALIFIED	OPERABILITY REQUIREMENTS	OPERABILITY DEMONSTRATED	ACCURACY OR RESPONSE TIME REQUIREMENTS	ACCURACY OR RESPONSE TIME DEMONSTRATED	QUALIFICATION REPORT & METHOD
SRV Actuator Solenoid H-27	Dickers/ Seitz	6A33	See CPS-FSAR Tables 3.11-5 3.11-6		100 days		N/A		Qual. Report Expected by 8/84.

Item 11

1) TOTAL NUMBER: 16 2) QUALIFIED:
3) TEST PLAN APPROVED: 4) UNDER TEST: 16
5) TEST COMPLETE: 6) TO BE REPLACED:
7) VENDOR INFO REQ: 8) SCHED QUAL DATE: 10/84

TABLE 3.11-4
QUALIFICATION TABLE FOR NSSS COMPONENTS
ITEM 12

<u>TYPE OF EQUIPMENT/ LOCATION</u>	<u>MANUFACTURER</u>	<u>MODEL NO. OR IDENTIFICATION NO.</u>	<u>ABNORMAL OR ACCIDENT ENVIRONMENT</u>	<u>ENVIRONMENT TO WHICH QUALIFIED</u>	<u>OPERABILITY REQUIREMENTS</u>	<u>OPERABILITY DEMONSTRATED</u>	<u>ACCURACY OR RESPONSE TIME REQUIREMENTS</u>	<u>ACCURACY OR RESPONSE TIME DEMONSTRATED</u>	<u>QUALIFICATION REPORT & METHOD</u>
MDIV Blower Motor H-24	Reliance	Duty Master Class B, Type RN insulation (Replacement model)	See CPS-FSAR Table 3.11-5 See CPS-FSAR Figures 6.2-138, 6.2-142		100 days		N/A		Qual. Report Expected by 8/83

This item will be replaced by a qualified Reliance Motor.

Item 12

- | | |
|------------------------|---------------------------|
| 1) TOTAL NUMBER: 3 | 2) QUALIFIED: |
| 3) TEST PLAN APPROVED: | 4) UNDER TEST: |
| 5) TEST COMPLETE: | 6) TO BE REPLACED: 3 |
| 7) VENDOR INFO REQ: | 8) SCHED QUAL DATE: 10/83 |

TABLE 3.11-4
QUALIFICATION TABLE FOR NSSS COMPONENTS
ITEM 13

TYPE OF EQUIPMENT/ LOCATION	MANUFACTURER	MODEL NO. OR IDENTIFICATION NO.	ABNORMAL OR ACCIDENT ENVIRONMENT	ENVIRONMENT TO WHICH QUALIFIED	OPERABILITY REQUIREMENTS	OPERABILITY DEMONSTRATED	ACCURACY OR RESPONSE TIME REQUIREMENTS	ACCURACY OR RESPONSE TIME DEMONSTRATED	QUALIFICATION REPORT & METHOD
Flow Meter B-12	SAR	20-9631-8550	See CPS-FSAR Tables 3.11-5 3.11-6		100 days		± 2%		Qual. Report Scheduled for 9/83.

Item 13

1) TOTAL NUMBER: 4
2) QUALIFIED: 4
3) TEST PLAN APPROVED: 4
4) UNDER TEST: 4
5) TEST COMPLETE: 6
6) TO BE REPLACED: 0
7) VENDOR INFO REQ: 0
8) SCHED QUAL DATE: 11/83

TABLE 3.11-4
QUALIFICATION TABLE FOR NSSS COMPONENTS
ITEM 14

TYPE OF EQUIPMENT/ LOCATION	MANUFACTURER	MODEL NO. OR IDENTIFICATION NO.	ABNORMAL OR ACCIDENT ENVIRONMENT	ENVIRONMENT TO WHICH QUALIFIED	OPERABILITY REQUIREMENTS	OPERABILITY DEMONSTRATED	ACCURACY OR RESPONSE TIME REQUIREMENTS	ACCURACY OR RESPONSE TIME DEMONSTRATED	QUALIFICATION REPORT & METHOD
Voltage T64 Preamplifier H-11 H-5	GE	None/ 10301263- AAG001	See CP5-FSAR Tables 3.11-5 3.11-14		Not required	N/A	N/A		Qual. Report Book #3, DRP # CS1-00040 evaluated. Additional Vendor Infor- mation required Re-evaluation will be com- pleted by #83.

Item 14

- 1) TOTAL NUMBER: 8
2) QUALIFIED:
3) TEST PLAN APPROVED: 4) UNDER TEST:
5) TEST COMPLETE: 5 6) TO BE REPLACED:
7) VENDOR INFO REQ: 8) SCHED DUAL DATE: 10/83

TABLE 3.11-4
QUALIFICATION TABLE FOR NSS COMPONENTS
ITEM 15

TYPE OF EQUIPMENT/ LOCATION	MANUFACTURER	MODEL NO. OR IDENTIFICATION NO.	ABNORMAL OR ACCIDENT ENVIRONMENT	ENVIRONMENT TO WHICH QUALIFIED	OPERABILITY REQUIREMENTS	OPERABILITY DEMONSTRATED	ACCURACY OR RESPONSE TIME REQUIREMENTS	ACCURACY OR RESPONSE TIME DEMONSTRATED	QUALIFICATION REPORT & METHOD
Thw Detectors H-3	GE	None	See CPS-FSAR Tables 3.11-5 3.11-6		Not required	N/A	N/A		Qual. Report DSFCS1-000-10, Book 2, dated 2/4/83 evaluated. Additional Vendor Infor- mation required. Re-evaluation will be completed by 10/83.

Item 15

- 1) TOTAL NUMBER: 8
2) QUALIFIED:
3) TEST PLAN APPROVED:
4) UNDER TEST:
5) TEST COMPLETE: 8
6) TO BE REPLACED:
7) VENDOR INFO REQ:
8) SCHEDULED QUAL DATE: 10/83

TABLE 3.11-4
QUALIFICATION TABLE FOR NSSS COMPONENTS
ITEM 16

TYPE OF EQUIPMENT/ LOCATION	MANUFACTURER	MODEL NO. OR IDENTIFICATION NO.	ABNORMAL OR ACCIDENT ENVIRONMENT	ENVIRONMENT TO WHICH QUALIFIED	OPERABILITY REQUIREMENTS	OPERABILITY DEMONSTRATED	ACCURACY OR RESPONSE TIME REQUIREMENTS	ACCURACY OR RESPONSE TIME DEMONSTRATED	QUALIFICATION REPORT & METHOD
Power Ramble Detector H-3	GE	NA250	See CPS-FSAR Tables 3.11-5 3.11-6		Not required		N/A		Qual. Report DRFFCSI-00040, Book #1, dated 2/2/83 evaluated. Additional vendor information required. Re-evaluation will be completed by 10/83.

Item 16

1) TOTAL NUMBER: ✓
3) TEST PLAN APPROVED:
5) TEST COMPLETE: ✓
7) VENDOR INFO REQ:
2) QUALIFIED:
4) UNDER TEST:
6) TO BE REPLACED:
8) SCHED QUAL DATE: 10/83

TABLE 3.11-4
QUALIFICATION TABLE FOR NSSS COMPONENTS

TYPE OF EQUIPMENT/ LOCATION	MANUFACTURER	MODEL NO. OR IDENTIFICATION NO.	ABNORMAL OR ACCIDENT ENVIRONMENT	ENVIRONMENT TO WHICH QUALIFIED	OPERABILITY REQUIREMENTS	OPERABILITY DEMONSTRATED	ACCURACY OR RESPONSE TIME REQUIREMENTS	ACCURACY OR RESPONSE TIME DEMONSTRATED	QUALIFICATION REPORT & METHOD
1) PWR INJECTION	GE	NA230	See CP5-F5AR Tables 3.11-5 3.11-6		Not required		N/A		GE Qual. Report DRF# C51-00040, Book #1, dated 2/2/83. Report evaluated Additional vendor information required. Re-evaluation will be completed by 10/83.

Item 17

1) TOTAL NUMBER: 132. 2) QUALIFIED:
3) TEST PLAN APPROVED: 4) UNDER TEST:
5) TEST COMPLETE: 132. 6) TO BE REPLACED:
7) VENDOR INFO REQ: 8) SCHED QUAL DATE: 10/83

TABLE 3.11-4
QUALIFICATION TABLE FOR NSSS COMPONENTS
ITEM 18

TYPE OF EQUIPMENT/ LOCATION	MANUFACTURER	MODEL NO. OR IDENTIFICATION NO.	ABNORMAL OR ACCIDENT ENVIRONMENT	ENVIRONMENT TO WHICH QUALIFIED	OPERABILITY REQUIREMENTS	OPERABILITY DEMONSTRATED	ACCURACY OR RESPONSE TIME REQUIREMENTS	ACCURACY OR RESPONSE TIME DEMONSTRATED	QUALIFICATION REPORT & METHOD
Flow Transmitter/ Level Transmitter/ Differential Pressure Transmitter/ Pressure Transmitter	Rosemount	115V (Series B)	See CPS-FSAR Table 3.11-5 3.11-8 3.11-11	318°F, 73 psig (8hrs) 265°F, 24 psig (56hrs) Water Spray, Radiation 2.62x10 ⁷ Rads TID Humidity: Steam/100% Post DBE: 150°F (14 days) 203°F (23 days)	100 days	> 137 days	± 2% .	± 2% & ± 8% during DBA.	Qualification report #108025, Rev. A, dated 2/4/81, Qualified in EQ-C1021 dated 5-18-1983.
H-54									
H-6									
H-13									
H-26									
H-4									
H-11									
H-12									

Item 18

1) TOTAL NUMBER: 147
2) QUALIFIED: 145
3) TEST PLAN APPROVED:
4) UNDER TEST:
5) TEST COMPLETE: 2
6) TO BE REPLACED:
7) VENDOR INFO REQ:
8) SCHED QUAL DATE: 10/83

TABLE 3.11-4
QUALIFICATION TABLE FOR NSSS COMPONENTS

TYPE OF EQUIPMENT/ LOCATION	MANUFACTURER	MODEL NO. OR IDENTIFICATION NO.	ABNORMAL OR ACCIDENT ENVIRONMENT	ENVIRONMENT TO WHICH QUALIFIED	ITEM 19		ACCURACY OR RESPONSE TIME REQUIREMENTS	ACCURACY OR RESPONSE TIME DEMONSTRATED	QUALIFICATION REPORT & METHOD
					OPERABILITY REQUIREMENTS	OPERABILITY DEMONSTRATED			
Main Steam Line Gamma Detectors (n 3)	GE	None	See CPS-FSAR Table 3.11-5		2 minutes		N/A		S&L comments on Qual. plan dis- cussed and agreed to upon with Wyle Lab.. Awaiting final qual. plan (to be approved formally) by 8/83. Report expected by 2/84

Item 19

1) TOTAL NUMBER: 7
2) QUALIFIED:
3) TEST PLAN APPROVED: 4
4) UNDER TEST:
5) TEST COMPLETE:
6) TO BE REPLACED:
7) VENDOR INFO REQ:
8) SCHED QUAL DATE: 7/84

TABLE 3.11-4
QUALIFICATION TABLE FOR NSSS COMPONENTS

TYPE OF EQUIPMENT/ LOCATION	MANUFACTURER	MODEL NO. OR IDENTIFICATION NO.	ABNORMAL OR ACCIDENT ENVIRONMENT	ENVIRONMENT TO WHICH QUALIFIED	ITEM 20			QUALIFICATION REPORT & METHOD
					OPERABILITY REQUIREMENTS	OPERABILITY DEMONSTRATED	ACCURACY OR RESPONSE TIME REQUIREMENTS	ACCURACY OR RESPONSE TIME DEMONSTRATED
Level Transmitter B-12	Magnetrol	402 (Qualified Re- placement Model #)	See CPS-FSAR Tables 3.11-5 3.11-8		100 days		N/A	Report scheduled for 8/83.

This item will be replaced by a qualified Magnetrol Model #402 transmitter.

Item 20

- 1) TOTAL NUMBER: 2
2) QUALIFIED:
3) TEST PLAN APPROVED:
4) UNDER TEST:
5) TEST COMPLETE:
6) TO BE REPLACED: 2
7) VENDOR INFO REQ:
8) SCHED QUAL DATE: 10/83

TABLE 3.11-4
QUALIFICATION TABLE FOR NSSS COMPONENTS
ITEM 21

<u>TYPE OF EQUIPMENT/ LOCATION</u>	<u>MANUFACTURER</u>	<u>MODEL NO. OR IDENTIFICATION NO.</u>	<u>ABNORMAL OR ACCIDENT ENVIRONMENT</u>	<u>ENVIRONMENT TO WHICH QUALIFIED</u>	<u>OPERABILITY REQUIREMENTS</u>	<u>OPERABILITY DEMONSTRATED</u>	<u>ACCURACY OR RESPONSE TIME REQUIREMENTS</u>	<u>ACCURACY OR RESPONSE TIME DEMONSTRATED</u>	<u>QUALIFICATION REPORT & METHOD</u>
SWITCH H-26	GE	CR2940	See CPS-PSAR Tables 3.11-5 3.11-11		100 days		N/A		

Comment

This component will be deleted from the qualification program. Since the IE power source to which this comp. is connected will be protected by double breakers. This comp. does not perform IE function:

TABLE 3.11-4
QUALIFICATION TABLE FOR NSSS COMPONENTS
ITEM 22

<u>TYPE OF EQUIPMENT/ LOCATION</u>	<u>MANUFACTURER</u>	<u>MODEL NO. OR IDENTIFICATION NO.</u>	<u>ABNORMAL OR ACCIDENT ENVIRONMENT</u>	<u>ENVIRONMENT TO WHICH QUALIFIED</u>	<u>OPERABILITY REQUIREMENTS</u>	<u>OPERABILITY DEMONSTRATED</u>	<u>ACCURACY OR RESPONSE TIME REQUIREMENTS</u>	<u>ACCURACY OR RESPONSE TIME DEMONSTRATED</u>	<u>QUALIFICATION REPORT & METHOD</u>
SIGS Motor H-26	Reliance	Duty Master, Class H, Type RN insulation (replacement model)	See CPS-FSAR Tables 3.11-5 3.11-11		Not required		N/A		Qual. Report Expected by 8/83.

This item will be replaced by a qualified Reliance motor.

Item 22

1) TOTAL NUMBER: 2 2) QUALIFIED:
3) TEST PLAN APPROVED: 4) UNDER TEST:
5) TEST COMPLETE: 6) TO BE REPLACED: 2
7) VENDOR INFO REQ: 8) SCHED QUAL DATE: 10/83

TABLE 3.11-4
QUALIFICATION TABLE FOR NSSS COMPONENTS
Item 23

TYPE OF EQUIPMENT/ LOCATION	MANUFACTURER	MODEL NO. OR IDENTIFICATION NO.	ABNORMAL OR ACCIDENT ENVIRONMENT	ENVIRONMENT TO WHICH QUALIFIED	OPERABILITY REQUIREMENTS	OPERABILITY DEMONSTRATED	ACCURACY OR RESPONSE TIME REQUIREMENTS	ACCURACY OR RESPONSE TIME DEMONSTRATED	QUALIFICATION REPORT & METHOD
SIGS Control Valve H-26	Conax	7223-17000 (Replacement model number)	See CPS-PSAR Tables 3.11-5 3.11-11		1 1/2 hours		N/A		Qual. Report Executed By 12/83

This item will be replaced by a qualified Conax Model #7223-17000 valve.

Item 23

- 1) TOTAL NUMBER: 2 2) QUALIFIED:
3) TEST PLAN APPROVED: 4) UNDER TEST:
5) TEST COMPLETE: 6) TO BE REPLACED: 2
7) VENDOR INFO REQ: 8) SCHED QUAL DATE: 12/83

TABLE 3.11-4
 QUALIFICATION TABLE FOR WSSS COMPONENTS
 ITEM 24

<u>TYPE OF EQUIPMENT/ LOCATION</u>	<u>MANUFACTURER</u>	<u>MODEL NO. OF IDENTIFICATION NO.</u>	<u>ABNORMAL OR ACCIDENT ENVIRONMENT</u>	<u>ENVIRONMENT TO WHICH QUALIFIED</u>	<u>OPERABILITY REQUIREMENTS</u>	<u>OPERABILITY DEMONSTRATED</u>	<u>ACCURACY OR RESPONSE TIME REQUIREMENTS</u>	<u>ACCURACY OR RESPONSE TIME DEMONSTRATED</u>	<u>QUALIFICATION REPORT & METHOD</u>
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Equipment (2 motors) in this item has been deleted from the harsh equipment qualification since these motors are attached to the Diesel Generator, which is located in a mild area (M-10).