

**PERRY NUCLEAR POWER PLANT
SYSTEM COMPONENT EVALUATION WORKSHEET
(FOR CLASS 1E EQUIPMENT IN HARSH ENVIRONMENT)**

PAGE 1 OF 2

QUALIFICATION SUMMARY (FILE NO.) SP-596-00-01
 MANUFACTURER'S QUALIFICATION REPORT NO. 548-8854-2 REV. B
 QUALIFICATION METHOD Test
 EQUIPMENT DESCRIPTION RTD's
 MANUFACTURER/MODEL NO. Weed/611-1A-D-4-C-152-A2-0, 611-1A-D-4-C-108-A2-0,
 TESTED DEVICE MODEL NO. 611-1A-D-4-C-70-A2-0 611-1A-C-3-C-5.5-A2-0,
611-1A-C-4-C-8.5-A2-0,
611-1A-D-4-C-115-A2-0.

AGING SUMMARY:

NORMAL/ABNORMAL ENVELOPE	LIMITING ENVIRON.ZONE (1)	VALUE	DURATION
TEMPERATURE (°F): MAXIMUM	FB-5	147°F	8,410 Hours
AVERAGE	DW-1	134°F	338,149 Hours
MINIMUM	DW-1	122°F	3,501 Hours
ABNORMAL TEMP. TRANSIENTS (°F): Loss of HVAC	AB-7	189°F	49 Hours
SRVD	CT-1	120°F	540 Hours
SCRAM	DW-1	141/135°F	300 Hours
RADIATION DOSE (RADS, TID)	DW-1	6 x 10 ⁶ Rads (2)	8.57 Years - Note 7

ACCELERATED AGING TEMP./TIMES 304°F/30.4 Days
 QUALIFIED LIFE/MAINTENANCE INTERVAL 8.57 Years/None
 LIFE-LIMITING COMPONENT Epoxy Seal 2762, A.E. = 1.8 eV
 TEST RADIATION DOSE (TID) 3.03 x 10⁸ Rads (2)

OPERABILITY SUMMARY:

FUNCTION	REQUIREMENTS (3)	QUALIFICATION DEMONSTRATED
EQUIPMENT CATEGORY (EC)	A1	Sensor Monitored During LOCA Test
FUNCTION TIME (FT)	J (180 Days)	30.4 Days LOCA Test Extended to 180 Days by Analysis
ACCURACY (ACC) (4)	± .7%	± 0.5%
RESPONSE TIME (RT)	5.00 Sec.	Less than 5 Seconds.

ACCIDENT SUMMARY:

ENVIRONMENTAL PARAMETER	REQUIRED ENVELOPE		QUALIFICATION DEMONSTRATED	
	LIMITING ENVIRON.ZONE (1)	MAXIMUM VALUE	MAXIMUM VALUE	MARGIN
TEMPERATURE (°F)	DW-1	330°F	485°F	155°F
PRESSURE (PSIG)	DW-1	22.1 PSIG	70 PSIG	47.9 PSIG
R.H. (%)	DW-1	100%	100%	N/A
SPRAY	DW-1	Demineralized Water	Chem Spray pH 7.5-9.5	N/A
SUBMERGENCE	DW-1	Note 5	Not Tested: Note 6	N/A
RADIATION (RADS)	DW-1	2.7 x 10 ⁸ Rads (8)	2.97 x 10 ⁸ Rads (2)	10%

(FOR SUPPLEMENTAL NOTES SEE PAGE 2)

REV.NO	DATE	INITIALS		
		REVIEW	CHECKED	APPROVED
/	/	/	/	/
/	/	/	/	/
/	/	/	/	/

**P403130138 840206
PDR ADOCK 05000440
A PDR**

REVIEWED BY Claude Gosch (GAI) / 2/1/84
 CHECKED BY Eddie B. Thomas / 2-3-84
 APPROVED BY J. A. Matheny / 2-6-84

PERRY NUCLEAR POWER PLANT
SYSTEM COMPONENT EVALUATION WORKSHEET
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QUALIFICATION SUMMARY (FILE NO.) SP-596-00-01

SUPPLEMENTAL NOTES:

1. See FSAR Tables 3.11-1 thru 8.
2. A portion of the "TEST RADIATION DOSE (RADS, TID)" is applied to qualify the device for the required Normal/Abnormal radiation dose (for the desired qualified life). The remainder of the "TEST RADIATION DOSE (RADS, TID)" is applied to qualify the device for the required Accident radiation dose (for the required function time) plus 10% margin.
$$\text{TEST RAD. DOSE} \geq \text{NORMAL/ABNORMAL RAD (Qual.Life)} + (\text{ACCIDENT RAD DOSE (FT)} + 10\% \text{ MARGIN})$$
3. "OPERABILITY SUMMARY : REQUIREMENTS" are as specified in the Environmental Qualification Review List (EQRL) report titled "SAFETY RELATED EQUIPMENT IDENTIFICATION AND ENVIRONMENTAL QUALIFICATION SUMMARY."
4. Source of accuracy requirements:
Specification SP-596-4549-00 (Generally accepted industry practice and standards).
5. Sensor may be submerged for a short time due to drywell swell.
6. Sensor functioned when subjected to chemical spray during LOCA test and saturated steam conditions.
7. This value is derived from a 40-year TID of 2.8×10^7 Rads. (See calculation of qualified life of RTD's.)
8. Beta radiation is not significant since all parts susceptible to radiation are shielded by metal enclosures.

SAFETY RELATED EQUIPMENT IDENTIFICATION AND ENVIRONMENTAL QUALIFICATION SUMMARY
AS OF 00610 02/09/84

SELECT : 09E596

SELECT :

SORT : 01

TITLE : EQPT LIST SP596

DATA ITEM NO	COLUMN TITLE	DESCRIPTION
13	QUALIFICATION (M)LF/MI SUMMARY	THIS IDENTIFIES THE METHOD BY WHICH THE EQUIPMENT WAS DEMONSTRATED TO BE ENVIRONMENTALLY QUALIFIED EITHER BY: ANALYSIS, (A) EXPERIENCE, (E) TESTING, (T) OR COMBINATION (C).
14	QUALIFICATION M(LF)/MI SUMMARY	THIS FIELD PROVIDES THE QUALIFIED LIFE FOR THE NORMAL AND ABNORMAL ENVIRONMENTS OF THE SPECIFIED ENVIRONMENTAL ZONE.
28	QUALIFICATION M LF/MI(SUMMARY)	THIS FIELD IS A CODED NUMBER ASSIGNED TO EACH DOCUMENTATION PACKAGE RECEIVED. IT IS THE FILE NUMBER FOR THE ENVIRONMENTAL QUALIFICATION REPORT.
96	**** LINE 2 ****	
11	MODEL	THIS FIELD CONTAINS THE MANUFACTURER'S MODEL NUMBER FOR THE EQUIPMENT.
47	NO HEADING (WILL APPEAR BELOW ENV ZONE FIELD)	THIS FIELD IDENTIFIES THE TYPE OF ENVIRONMENT ZONE (HARSH OR MILD).
26	RES TME	THE RESPONSE TIME AS REQUIRED BY THE PLANT TECHNICAL SPECIFICATIONS. DEFINED AS A VALUE AND A TIME UNIT.
15	QUALIFICATION M LF/(MI)SUMMARY	THE QUALIFICATION MAINTENANCE INTERVAL IS THE INTERVAL AT WHICH NON-ROUTINE MAINTENANCE AND/OR PARTS REPLACEMENT MUST BE PERFORMED TO MAINTAIN THE SPECIFIED QUALIFIED LIFE.
97	**** LINE 3 ****	
09	SP NO 1	THE SPECIFICATION NUMBER UNDER WHICH THE EQUIPMENT WAS PURCHASED, AND THE SUB-SPEC WHICH IDENTIFIES THE PARTICULAR CONTRACT - IF MORE THAN ONE IS LET FOR THE SPECIFICATION.
19	GE PURCH DWG	THIS FIELD IS APPLICABLE TO ITEMS SPECIFIED/SUPPLIED BY GE-NUCLEAR. IT IDENTIFIES THE PURCHASE PART DRAWING USED FOR EQUIPMENT SPECIFICATION/PROCUREMENT.
02	EQUIP. DESCRIPTION	THIS DATA ITEM CONTAINS A DESCRIPTION OF THE TYPE OF EQUIPMENT.
56	SEAL	THIS FIELD INDICATES WHETHER A CONDUIT SEAL IS REQUIRED TO MAINTAIN THE DEVICES ENVIRONMENTAL QUALIFICATION.

SAFETY RELATED EQUIPMENT IDENTIFICATION AND ENVIRONMENTAL QUALIFICATION SUMMARY
AS OF 00610 02/09/84

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DATA ITEM NO	COLUMN TITLE	DESCRIPTION
22	OP EC	<p>A TWO POSITION CODE WHICH IDENTIFIES THE REQUIRED FUNCTIONING OF THE DEVICE AS DEFINED IN NUREG 0588, APPENDIX E, ITEM 2. ALLOWABLE CODE VALUES ARE:</p> <p>BLANK = NOT REVIEWED AS YET</p> <p>P = PASSIVE, ONLY REQUIRED TO MAINTAIN THE MECHANICAL INTEGRITY OF THE PRESSURE BOUNDARY</p> <p>A1 = ACTIVE EQUIPMENT THAT WILL EXPERIENCE THE ENVIRONMENTAL CONDITIONS OF DESIGN BASIS ACCIDENTS FOR WHICH IT MUST FUNCTION TO MITIGATE SAID ACCIDENTS</p> <p>A2 = ACTIVE EQUIPMENT THAT WILL EXPERIENCE ENVIRONMENTAL CONDITIONS OF DESIGN BASIS ACCIDENTS THROUGH WHICH IT NEED NOT FUNCTION FOR MITIGATION OF SAID ACCIDENTS, BUT THROUGH WHICH IT MUST NOT FAIL IN A MANNER DETRIMENTAL TO PLANT SAFETY OR ACCIDENT MITIGATION</p> <p>A3 = ACTIVE EQUIPMENT THAT WILL EXPERIENCE ENVIRONMENTAL CONDITIONS OF DESIGN BASIS ACCIDENTS THROUGH WHICH IT NEED NOT FUNCTION FOR MITIGATION OF SAID ACCIDENTS, AND WHOSE FAILURE IS DEEMED NOT DETRIMENTAL TO PLANT SAFETY OR ACCIDENT MITIGATION</p> <p>A4 = ACTIVE EQUIPMENT THAT WILL NOT EXPERIENCE ENVIRONMENTAL CONDITIONS OF DESIGN BASIS ACCIDENTS.</p>
23	RQD FT	<p>A ONE POSITION CODE WHICH DEFINES THE FUNCTION TIME OF THE DEVICE. THE ALLOWABLE VALUES ARE:</p> <p>A) 0 - 45 SECONDS G) TO 2 DAYS</p> <p>B) TO 10 MINUTES H) TO 30 DAYS</p> <p>C) TO 1 HOUR I) TO 100 DAYS</p> <p>D) TO 6 HOURS J) TO 180 DAYS</p> <p>E) TO 12 HOURS SPACE) NOT DEFINED AS YET</p> <p>F) TO 24 HOURS</p>
24	OPER DEMO	THIS FIELD DEFINES WHETHER OR NOT DOCUMENTATION HAS BEEN RECEIVED DEMONSTRATING THAT THE DEVICE PERFORMED ITS INTENDED SAFETY FUNCTION THRU NORMAL, ABNORMAL AND ACCIDENT EVENTS.
25	ACC	ACCURACY AS REQUIRED BY THE PLANT TECHNICAL SPECIFICATION (IN PERCENT OF FULL RANGE). THE VALUES ARE IN TERMS OF TENTHS OF A PERCENT (0.010 MEANS 1.0%).
27	ACC/RT DEMO	THIS FIELD IDENTIFIES WHETHER OR NOT DOCUMENTATION HAS BEEN RECEIVED SHOWING THAT THE DEVICE WILL PERFORM TO THE REQUIRED ACCURACY AND RESPONSE TIME SPECIFICATIONS.

M7836305

EQUIPMENT QUALIFICATIONS

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SAFETY RELATED EQUIPMENT IDENTIFICATION AND ENVIRONMENTAL QUALIFICATION SUMMARY
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DATA ITEM NO COLUMN TITLE

DESCRIPTION

54

DENOTES SPECIFIC EQUIPMENT INSIDE THE CONTAINMENT BUILDING WHICH
WILL BE SUBJECT TO A HYDROGEN BURN.

55

THIS FIELD INDICATES THAT SUFFICIENT DOCUMENTATION EXISTS TO
DEMONSTRATE HYDROGEN BURN SURVIVABILITY.

SAFETY RELATED EQUIPMENT IDENTIFICATION AND ENVIRONMENTAL QUALIFICATION SUMMARY
AS OF 00610 02/09/84

SELECT : 09E596

SELECT :

SORT : 01

TITLE : EQPT LIST SP596

EQUIPMENT NUMBER	SERVICE DESCRIPTION SP NO 1 GE PURCH DWG	MANUFACTURER MODEL EQUIP. DESCRIPTION	ENV ZONE	ENV QUALD	OP EC	RQD FT	OPER DEMO SEAL	ACC RES	ACC/RT TME H2/H2	QUALIFICATION DEMO M LF/MI	SUMMARY
OM23 N 0080A	MCC, SWGR&MISC ELECT EQUIP AREA HVAC FAN DISCHARGE TEMPERATURE 596	WEED 400OR TEMPERTURE	CB-3 MILD TRANSMITTER	A	A4	J	YES	.001 5.00 SEC	YES	T 40Y 22Y	SP596-000-01
OM23 N 0080B	MCC, SWGR&MISC ELECT EQUIP AREA HVAC FAN DISCHARGE TEMPERATURE 596	WEED 400OR TEMPERATURE	CB-3 MILD TRANSMITTER	A	A4	J	YES	.001 5.00 SEC	YES	T 40Y 22Y	SP596-000-01
OM25 N 0100A	CONTROL ROOM HVAC FAN DISCHARGE TEMPERATURE 596	WEED 400OR TEMPERATURE	CB-3 MILD TRANSMITTER	A	A4	J	YES	.001 5.00 SEC	YES	T 40Y 22Y	SP596-000-01
OM25 N 0100B	CONTROL ROOM HVAC FAN DISCHARGE TEMPERATURE 596	WEED 400OR TEMPERATURE	CB-3 MILD TRANSMITTER	A	A4	J	YES	.001 5.00 SEC	YES	T 40Y 22Y	SP596-000-01
OP42 N 0320A	EMERGENCY CLOSED COOLING WATER CONTROL COMPLEX CHLR A OUTLET TEMP 596	WEED 612-1A-C-3-C-11.5-00 RESISTANCE	CB-5 MILD TEMPERTURE DETECTOR	A	A4	J	YES	.010 5.00 SEC	YES	T 40Y 40Y	SP596-000-01
OP42 N 0320B	EMERGENCY CLOSED COOLING WATER CONTROL COMPLEX CHLR B OUTLET TEMP 596	WEED 612-1A-C-3-C-11.5-00 RESISTANCE	CB-5 MILD TEMPERTURE DETECTOR	A	A4	J	YES	.010 5.00 SEC	YES	T 40Y 40Y	SP596-000-01
OP42 N 0320C	EMERGENCY CLOSED COOLING WATER CONTROL COMPLEX CHLR C OUTLET TEMP 596	WEED 612-1A-C-3-C-11.5-00 RESISTANCE	CB-5 MILD TEMPERATURE DETECTO	A	A4	J	YES	.010 5.00 SEC	YES	T 40Y 40Y	SP596-000-01
1D23 N 0050A	CONTAINMENT ATMOSPHERE MONITORING SUPP POOL WATER TEMP ASSEMBLY 596	WEED 611-1A-D-4-C-152-A20 RESISTANCE	CT-2 HARSH TEMPERATURE DETECTO	A	A1	J	YES	.005 5.00 SEC H2	YES	T 40Y 40Y	SP596-000-01
1D23 N 0050B	CONTAINMENT ATMOSPHERE MONITORING SUPP POOL WATER TEMP ASSEMBLY 596	WEED 611-1A-D-4-C-152-A20 RESISTANCE	CT-2 HARSH TEMPERATURE DETECTO	A	A1	J	YES	.005 5.00 SEC H2	YES	T 40Y 40Y	SP596-000-01
1D23 N 0060A	CONTAINMENT ATMOSPHERE MONITORING SUPP POOL WATER TEMP ASSEMBLY 596	WEED 611-1A-D-4-C-108-A20 RESISTANCE	CT-2 HARSH TEMPERATURE DETECTO	A	A1	J	YES	.005 5.00 SEC H2	YES	T 40Y 40Y	SP596-000-01
1D23 N 0060B	CONTAINMENT ATMOSPHERE MONITORING SUPP POOL WATER TEMP ASSEMBLY 596	WEED 611-1A-D-4-C-108-A20 RESISTANCE	CT-2 HARSH TEMPERATURE DETECTO	A	A1	J	YES	.005 5.00 SEC H2	YES	T 40Y 40Y	SP596-000-01

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1D23 N 0070A	CONTAINMENT ATMOSPHERE MONITORING SUPP POOL WATER TEMP ASSEMBLY 596	WEED 611-1A-D-4-C-108-A20 RESISTANCE	CT-2	A	A1	J	YES	.005 5.00 SEC H2	YES	T 40Y 40Y	SP596-000-01
1D23 N 0070B	CONTAINMENT ATMOSPHERE MONITORING SUPP POOL WATER TEMP ASSEMBLY 596	WEED 611-1A-D-4-C-152-A20 RESISTANCE	CT-2	A	A1	J	YES	.005 5.00 SEC H2	YES	T 40Y 40Y	SP596-000-01
1D23 N 0080A	CONTAINMENT ATMOSPHERE MONITORING SUPP POOL WATER TEMP ASSEMBLY 596	WEED 611-1A-D-4-C-152-A20 RESISTANCE	CT-2	A	A1	J	YES	.005 5.00 SEC H2	YES	T 40Y 40Y	SP596-000-01
1D23 N 0080B	CONTAINMENT ATMOSPHERE MONITORING SUPP POOL WATER TEMP ASSEMBLY 596	WEED 611-1A-D-4-C-108-A20 RESISTANCE	CT-2	A	A1	J	YES	.005 5.00 SEC H2	YES	T 40Y 40Y	SP596-000-01
1D23 N 0100A	CONTAINMENT ATMOSPHERE MONITORING DRYWELL AIR TEMP 596	WEED 611-1A-C-3-C-5.5-A20 RESISTANCE	DW-1	A	A1	J	YES	.004 5.00 SEC H2	YES	T 08Y 08Y	SP596-000-01
1D23 N 0100B	CONTAINMENT ATMOSPHERE MONITORING DRYWELL AIR TEMP 596	WEED 611-1A-C-3-C-5.5-A20 RESISTANCE	DW-1	A	A1	J	YES	.004 5.00 SEC H2	YES	T 08Y 08Y	SP596-000-01
1D23 N 0110A	CONTAINMENT ATMOSPHERE MONITORING DRYWELL AIR TEMP 596	WEED 611-1A-C-3-C-5.5-A20 RESISTANCE	DW-1	A	A1	J	YES	.004 5.00 SEC H2	YES	T 08Y 08Y	SP596-000-01
1D23 N 0110B	CONTAINMENT ATMOSPHERE MONITORING DRYWELL AIR TEMP 596	WEED 611-1A-C-3-C-5.5-A20 RESISTANCE	DW-1	A	A1	J	YES	.004 5.00 SEC H2	YES	T 08Y 08Y	SP596-000-01
1D23 N 0120A	CONTAINMENT ATMOSPHERE MONITORING DRYWELL AIR TEMP 596	WEED 611-1A-C-3-C-5.5-A20 RESISTANCE	DW-1	A	A1	J	YES	.004 5.00 SEC H2	YES	T 08Y 08Y	SP596-000-01
1D23 N 0120B	CONTAINMENT ATMOSPHERE MONITORING DRYWELL AIR TEMP 596	WEED 611-1A-C-3-C-5.5-A20 RESISTANCE	DW-1	A	A1	J	YES	.004 5.00 SEC H2	YES	T 08Y 08Y	SP596-000-01
1D23 N 0130A	CONTAINMENT ATMOSPHERE MONITORING CONTAINMENT AIR TEMP 596	WEED 611-1A-C-3-C-5.5-A20 RESISTANCE	CT-4	A	A1	J	YES	.007 5.00 SEC H2	YES	T 40Y 40Y	SP596-000-01

SAFETY RELATED EQUIPMENT IDENTIFICATION AND ENVIRONMENTAL QUALIFICATION SUMMARY
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EQUIPMENT NUMBER	SERVICE DESCRIPTION SP NO 1 GE PURCH DWG	MANUFACTURER MODEL EQUIP. DESCRIPTION	ENV ZONE	ENV QUALD	OP EC	RQD FT	OPER DEMO SEAL	ACC RES	ACC/RT TME H2/H2	QUALIFICATION DEMO M LF/MI	SUMMARY
1D23 N 0130B	CONTAINMENT ATMOSPHERE MONITORING CONTAINMENT AIR TEMP 596	WEED 611-1A-C-3-C-5.5-A20 RESISTANCE	CT-1	A	A1	J	YES	.007 5.00 SEC H2	YES	T 40Y	SP596-000-01 40Y
1D23 N 0140A	CONTAINMENT ATMOSPHERE MONITORING CONTAINMENT AIR TEMP 596	WEED 611-1A-C-3-C-5.5-A20 RESISTANCE	CT-1	A	A1	J	YES	.007 5.00 SEC H2	YES	T 40Y	SP596-000-01 40Y
1D23 N 0140B	CONTAINMENT ATMOSPHERE MONITORING CONTAINMENT AIR TEMP 596	WEED 611-1A-C-3-C-5.5-A20 RESISTANCE	CT-1	A	A1	J	YES	.007 5.00 SEC H2	YES	T 40Y	SP596-000-01 40Y
1D23 N 0150A	CONTAINMENT ATMOSPHERE MONITORING CONTAINMENT AIR TEMP 596	WEED 611-1A-C-3-C-5.5-A20 RESISTANCE	CT-4	A	A1	J	YES	.007 5.00 SEC H2	YES	T 40Y	SP596-000-01 40Y
1D23 N 0150B	CONTAINMENT ATMOSPHERE MONITORING CONTAINMENT AIR TEMP 596	WEED 611-1A-C-3-C-5.5-A20 RESISTANCE	CT-4	A	A1	J	YES	.007 5.00 SEC H2	YES	T 40Y	SP596-000-01 40Y
1D23 N 0160A	CONTAINMENT ATMOSPHERE MONITORING CONTAINMENT AIR TEMP 596	WEED 611-1A-C-3-C-5.5-A20 RESISTANCE	CT-2	A	A1	J	YES	.007 5.00 SEC H2	YES	T 40Y	SP596-000-01 40Y
1D23 N 0160B	CONTAINMENT ATMOSPHERE MONITORING CONTAINMENT AIR TEMP 596	WEED 611-1A-C-3-C-5.5-A20 RESISTANCE	CT-2	A	A1	J	YES	.007 5.00 SEC H2	YES	T 40Y	SP596-000-01 40Y
1D23 N 0170A	CONTAINMENT ATMOSPHERE MONITORING SUPP POOL WATER TEMP ASSEMBLY 596	WEED 611-1A-D-4-C-108-A20 RESISTANCE	CT-2	A	A1	J	YES	.005 5.00 SEC H2	YES	T 40Y	SP596-000-01 40Y
1D23 N 0170B	CONTAINMENT ATMOSPHERE MONITORING SUPP POOL WATER TEMP ASSEMBLY 596	WEED 611-1A-D-4-C-152-A20 RESISTANCE	CT-2	A	A1	J	YES	.005 5.00 SEC H2	YES	T 40Y	SP596-000-01 40Y
1D23 N 0180A	CONTAINMENT ATMOSPHERE MONITORING SUPP POOL WATER TEMP ASSEMBLY 596	WEED 611-1A-D-4-C-152-A20 RESISTANCE	CT-2	A	A1	J	YES	.005 5.00 SEC H2	YES	T 40Y	SP596-000-01 40Y
1D23 N 0180B	CONTAINMENT ATMOSPHERE MONITORING SUPP POOL WATER TEMP ASSEMBLY 596	WEED 611-1A-D-4-C-108-A20 RESISTANCE	CT-2	A	A1	J	YES	.005 5.00 SEC H2	YES	T 40Y	SP596-000-01 40Y

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EQUIPMENT NUMBER	SERVICE DESCRIPTION SP NO 1 GE PURCH DWG	MANUFACTURER MODEL EQUIP. DESCRIPTION	ENV ZONE	ENV QUALD	OP EC	RQD FT	OPER DEMO SEAL	ACC RES	ACC/RT TME DEMO H2/H2 DEMO	QUALIFICATION M LF/M1 SUMMARY	
1D23 N 0190A	CONTAINMENT ATMOSPHERE MONITORING SUPP POOL WATER TEMP ASSEMBLY 596	WEED 611-1A-D-4-C-152-A20 RESISTANCE	CT-2	A	A1	J	YES YES	.005 5.00 SEC H2	YES YES	T 40Y 40Y	SP596-000-01
1D23 N 0190B	CONTAINMENT ATMOSPHERE MONITORING SUPP POOL WATER TEMP ASSEMBLY 596	WEED 611-1A-D-4-C-152-A20 RESISTANCE	CT-2	A	A1	J	YES YES	.005 5.00 SEC H2	YES YES	T 40Y 40Y	SP596-000-01
1D23 N 0200A	CONTAINMENT ATMOSPHERE MONITORING SUPP POOL WATER TEMP ASSEMBLY 596	WEED 611-1A-D-4-C-108-A20 RESISTANCE	CT-2	A	A1	J	YES YES	.005 5.00 SEC H2	YES YES	T 40Y 40Y	SP596-000-01
1D23 N 0200B	CONTAINMENT ATMOSPHERE MONITORING SUPP POOL WATER TEMP ASSEMBLY 596	WEED 611-1A-D-4-C-108-A20 RESISTANCE	CT-2	A	A1	J	YES YES	.005 5.00 SEC H2	YES YES	T 40Y 40Y	SP596-000-01
1D23 N 0210	CONTAINMENT ATMOSPHERE MONITORING DRYWELL AIR TEMP 596	WEED 611-1A-C-4-C-8.5-A20 RESISTANCE	DW-1	A	A1	J	YES YES	.001 5.00 SEC H2	YES YES	T 08Y 08Y	SP596-000-01
1D23 N 0211	CONTAINMENT ATMOSPHERE MONITORING DRYWELL TEMP TRANSMITTER 596	WEED 4000R TEMPERATURE	FB-5	A	A4	J	YES YES	.001 5.00 SEC	YES YES	T 40Y 23M	SP596-000-01
1D23 N 0220	CONTAINMENT ATMOSPHERE MONITORING SUPP POOL WATER TEMP ASSEMBLY 596	WEED 611-1A-D-4-C-152-A20 RESISTANCE	CT-2	A	A1	J	YES YES	.001 5.00 SEC H2	YES YES	T 40Y 40Y	SP596-000-01
1D23 N 0221	CONTAINMENT ATMOSPHERE MONITORING SUPP POOL TEMP TRANSMITTER 596	WEED 4000R TEMPERATURE	FB-5	A	A4	J	YES YES	.001 5.00 SEC	YES YES	T 40Y 23M	SP596-000-01
1E31 N 0350A	LEAK DETECTION SYSTEM MSL STEAM TUNNEL AMBIENT 596	WEED E4D250G-7A1 THERMOCOUPLE	AB-7	A	A1	J	YES YES	.025 5.00 SEC	YES YES	T 40Y 40Y	SP596-000-01
1E31 N 0350B	LEAK DETECTION SYSTEM MSL STEAM TUNNEL AMBIENT 596	WEED E4D250G-7A1 THERMOCOUPLE	AB-7	A	A1	J	YES YES	.025 5.00 SEC	YES YES	T 40Y 40Y	SP596-000-01
1E31 N 0350C	LEAK DETECTION SYSTEM MSL STEAM TUNNEL AMBIENT 596	WEED E4D250G-7A1 THERMOCOUPLE	AB-7	A	A1	J	YES YES	.025 5.00 SEC	YES YES	T 40Y 40Y	SP596-000-01

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EQUIPMENT NUMBER	SERVICE DESCRIPTION SP NO 1 GE PURCH DWG	MANUFACTURER MODEL EQUIP. DESCRIPTION	ENV ZONE	ENV QUALD	OP EC	RQD FT	OPER DEMO SEAL	ACC RES H2/H2	ACC/RT TME DEMO	QUALIFICATION M LF/MI SUMMARY
1E31 N 0350D	LEAK DETECTION SYSTEM MSL STEAM TUNNEL AMBIENT 596	WEED E4D250G-7A1 THERMOCOUPLE	AB-7 HARSH	A	A1	J	YES YES	.025 5.00 SEC	YES 40Y	T 40Y SP596-000-01
1E31 N 0360A	LEAK DETECTION SYSTEM MSL TURBINE BLDG AMBIENT 596	WEED E4D250G-7A1 THERMOCOUPLE	TB-1 HARSH	A	A1	J	YES YES	.025 5.00 SEC	YES 40Y	T 40Y SP596-000-01
1E31 N 0360B	LEAK DETECTION SYSTEM MSL TURBINE BLDG AMBIENT 596	WEED E4D250G-7A1 THERMOCOUPLE	TB-1 HARSH	A	A1	J	YES YES	.025 5.00 SEC	YES 40Y	T 40Y SP596-000-01
1E31 N 0360C	LEAK DETECTION SYSTEM MSL TURBINE BLDG AMBIENT 596	WEED E4D250G-7A1 THERMOCOUPLE	TB-1 HARSH	A	A1	J	YES YES	.025 5.00 SEC	YES 40Y	T 40Y SP596-000-01
1E31 N 0360D	LEAK DETECTION SYSTEM MSL TURBINE BLDG AMBIENT 596	WEED E4D250G-7A1 THERMOCOUPLE	TB-1 HARSH	A	A1	J	YES YES	.025 5.00 SEC	YES 40Y	T 40Y SP596-000-01
1G43 N 0010A	SUPPRESSION POOL MAKE-UP SYSTEM FUEL STRG POOL WATER TCMF 596	WEED 611-1A-D-4-C-115-A20 RESISTANCE	CT-4 HARSH	A	A1	J	YES YES	.005 5.00 SEC	YES H2	T 40Y 40Y SP596-000-01
1G43 N 0010B	SUPPRESSION POOL MAKE-UP SYSTEM SEPARATOR STRG WELL WATER TEMP 596	WEED 611-1A-D-4-C-115-A20 RESISTANCE	CT-4 HARSH	A	A1	J	YES YES	.005 5.00 SEC	YES H2	T 40Y 40Y SP596-000-01
1M15 N 0021A	ANNULUS EXHAUST GAS TREATMENT SYSTEM PLENUM TEMPERATURE 596	WEED 400OR TEMPERATURE	FB-7 HARSH	A	A1	J	YES YES	.001 5.00 SEC	YES 49M	T 40Y 49M SP596-000-01
1M15 N 0021B	ANNULUS EXHAUST GAS TREATMENT SYSTEM PLENUM TEMPERATURE 596	WEED 400OR TEMPERATURE	FB-7 HARSH	A	A1	J	YES YES	.001 5.00 SEC	YES 49M	T 40Y 49M SP596-000-01
1M32 N 0020A	ESW PUMPHOUSE HVAC FAN DISCHARGE AIR TEMPERATURE 596	WEED 400OR TEMPERATURE	ES-W MILD	A	A4	J	YES YES	.001 5.00 SEC	YES 28Y	T 40Y 28Y SP596-000-01
1M32 N 0020B	ESW PUMPHOUSE HVAC FAN DISCHARGE AIR TEMPERATURE 596	WEED 400OR TEMPERATURE	ES-W MILD	A	A4	J	YES YES	.001 5.00 SEC	YES 28Y	T 40Y 28Y SP596-000-01

SAFETY RELATED EQUIPMENT IDENTIFICATION AND ENVIRONMENTAL QUALIFICATION SUMMARY
AS OF 00610 02/09/84

SELECT : 09E596

SELECT :

SORT : 01

TITLE : EQPS LIST SP596

EQUIPMENT NUMBER	SERVICE DESCRIPTION SP NO 1 GE PURCH DWG	MANUFACTURER MODEL EQUIP. DESCRIPTION	ENV ZONE	ENV QUALD	OP EC	RQD FT	OPER DEMO SEAL	ACC RES	ACC/RT TME H2/H2 DEMO	QUALIFICATION M LF/M1 SUMMARY
1M43 N 0010A	DG BUILDING HVAC FAN SUCTION AIR TEMPERATURE 596	WEED 400OR TEMPERATURE	DG-1	A	A4	J	YES	.001 5.00 SEC	YES 10Y	SP596-000-01
1M43 N 0010B	DG BUILDING HVAC FAN SUCTION AIR TEMPERATURE 596	WEED 400OR TEMPERATURE	DG-1	A	A4	J	YES	.001 5.00 SEC	YES 10Y	SP596-000-01
1M43 N 0010C	DG BUILDING HVAC FAN SUCTION AIR TEMPERATURE 596	WEED 400OR TEMPERATURE	DG-1	A	A4	J	YES	.001 5.00 SEC	YES 10Y	SP596-000-01
1M43 N 0210A	DG BUILDING HVAC FAN SUCTION AIR TEMPERATURE 596	WEED 400OR TEMPERATURE	DG-1	A	A4	J	YES	.001 5.00 SEC	YES 10Y	SP596-000-01
1M43 N 0210B	DG BUILDING HVAC FAN SUCTION AIR TEMPERATURE 596	WEED 400OR TEMPERATURE	DG-1	A	A4	J	YES	.001 5.00 SEC	YES 10Y	SP596-000-01
1M43 N 0210C	DG BUILDING HVAC FAN SUCTION AIR TEMPERATURE 596	WEED 400OR TEMPERATURE	DG-1	A	A4	J	YES	.001 5.00 SEC	YES 10Y	SP596-000-01
1P42 N 0050A	EMERGENCY CLOSED COOLING HEAT EXCHANGER- P42B001A 596	WEED 612-1A-C-4-C-11.5-00 RESISTANCE TEMPERA- TURE DETECTOR	CB-5	A	A4	J	YES	.001 5.00 SEC	YES 40Y	SP596-000-01
1P42 N 0050B	EMERGENCY CLOSED COOLING HEAT EXCHANGER- P42B001B 596	WEED 612-1A-C-4-C-11.5-00 RESISTANCE TEMPERA- TURE DETECTOR	CB-5	A	A4	J	YES	.001 5.00 SEC	YES 40Y	SP596-000-01
1P42 N 0052A	EMERGENCY CLOSED COOLING HEAT EXCHANGER- P42B001A 596	WEED 400OR TEMPERATURE	CB-5	A	A4	J	YES	.001 5.00 SEC	YES 15Y	SP596-000-01
1P42 N 0052B	EMERGENCY CLOSED COOLING WATER HEAT EXCHANGER- P42B001B 596	WEED 400OR TEMPERATURE	CB-5	A	A4	J	YES	.001 5.00 SEC	YES 15Y	SP596-000-01
1P45 N 0088A	EMERGENCY SERVICE WATER "A" LOOP PUMP DISCH 596	WEED 612-1A-C-4-C-14.5-00 RESISTANCE TEMPERA- TURE DETECTOR	ES-W	A	A4	J	YES	.001 5.00 SEC	YES 40Y	SP596-000-01

SAFETY RELATED EQUIPMENT IDENTIFICATION AND ENVIRONMENTAL QUALIFICATION SUMMARY
AS OF 00610 02/09/84

SELECT : 09E596

SELECT :

SORT : 01

TITLE : EQPT LIST SP596

EQUIPMENT NUMBER	SERVICE DESCRIPTION SP NO 1 GE PURCH DWG	MANUFACTURER MODEL EQUIP. DESCRIPTION	ENV ZONE	ENV QUALD	OP EC	RQD FT	OPER DEMO	ACC RES	ACC/RT TME	QUALIFICATION DEMO	M LF/MI	SUMMARY
1P45 N 0088B	EMERGENCY SERVICE WATER "B" LOOP PUMP DISCH 596	WEED 612-1A-C-4-C-14.5-00 RESISTANCE TEMPERA- TURE DETECTOR	ES-W	A	A4	J	YES	001	YES	T 40Y	SP596-000-01	
1P45 N 0090A	EMERGENCY SERVICE WATER "A" LOOP PUMP DISCH 596	WEED 4000R TEMPERATURE	ES-W	A	A4	J	YES	.001 5.00 SEC	YES	T 40Y 28Y	SP596-000-01	
1P45 N 0090B	EMERGENCY SERVICE WATER "B" LOOP PUMP DISCH 596	WEED 4000R TEMPERATURE	ES-W	A	A4	J	YES	.001 5.00 SEC	YES	T 40Y 28Y	SP596-000-01	