

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

PAGE 1 OF 2

QUALIFICATION SUMMARY (FILE NO.) SP-604-000-03
 MANUFACTURER'S QUALIFICATION REPORT NO. 108025 REV. A
 QUALIFICATION METHOD Test
 EQUIPMENT DESCRIPTION Transmitter
 MANUFACTURER/MODEL NO. Rosemount/1153 Series B (Note 5)
 TESTED DEVICE MODEL NO. 1153 Series B

AGING SUMMARY:

NORMAL/ABNORMAL ENVELOPE	LIMITING ENVIRON.ZONE (1)	VALUE	DURATION
TEMPERATURE (°F): MAXIMUM	FB-4	132°F	8,408 Hours
AVERAGE	FB-3	119°F	333,440 Hours
MINIMUM	DG-1	40°F	3,449 Hours
ABNORMAL TEMP. TRANSIENTS (°F): Loss of HVAC	FB-1	142°F	49 Hours
RADIATION DOSE (RADS, TID)	AB-4	3 x 10 ⁵ Rads (2)	40 Years

ACCELERATED AGING TEMP./TIMES 203°F/47 Days
 QUALIFIED LIFE/MAINTENANCE INTERVAL 4.68 Years/None
 LIFE-LIMITING COMPONENT Metal Film Resistors and Cermet Potentiometers
 TEST RADIATION DOSE (TID) 2.44 x 10⁷ Rads (2)

OPERABILITY SUMMARY:

FUNCTION	REQUIREMENTS (3)	QUALIFICATION DEMONSTRATED
EQUIPMENT CATEGORY (EC)	A1	Output Recorded during Steam/Temperature Test
FUNCTION TIME (FT)	J (180 Days)	56-Hour Test Extended to 180 Days by Analysis
ACCURACY (ACC) (4)	(Note 4)	+ 8% Post-LOCA + 8% After Radiation
RESPONSE TIME (RT)	0.20 Seconds	0.2 Seconds

ACCIDENT SUMMARY:

ENVIRONMENTAL PARAMETER	REQUIRED ENVELOPE		QUALIFICATION DEMONSTRATED	
	LIMITING ENVIRON.ZONE (1)	MAXIMUM VALUE	MAXIMUM VALUE	MARGIN
TEMPERATURE (°F)	AB-9	217°F	318°F	101
PRESSURE (PSIG)	CT-3	12 PSIG	73 PSIG	61 PSIG
R.H. (%)	AB-9	100%	100%	N/A
SPRAY	CT-3	Water Spray	Water Spray	N/A
SUBMERGENCE	CT-3	N/A Note 8		N/A
RADIATION (RADS)	AB-4, CT-3	6 x 10 ⁶ Rads (Note 6&7)	2.39 x 10 ⁷ Rads (2)	> 10%

(FOR SUPPLEMENTAL NOTES SEE PAGE 2)

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

8403130128 840307
 PDR ADOCK 05000440
 A PDR

REVIEWED BY Claude Gosch (GAI) 12/1/84
 CHECKED BY B.B. Thomas 12-3-84
 APPROVED BY [Signature] 12/6/84

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

PAGE 2 OF 2

QUALIFICATION SUMMARY (FILE NO.) SP-604-000-03

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:

System accuracy requirements were re-evaluated for acceptability of demonstrated values and found acceptable (see PAM transmitter analysis).
5. All models used in Perry are considered to be qualified by similarity to the tested model.
6. Based on point specific calculation.
7. Only O-ring is subject to beta radiation which is qualified to 5×10^7 Rads.
8. Instrument located inside containment is above the flood level.

TITLE : EQPT LIST SP604

DATA ITEM NO	COLUMN TITLE	DESCRIPTION
95	**** LINE 1 ****	
01	EQUIPMENT NUMBER	THIS DATA ITEM IS A STRUCTURED CODE WHICH IS USED TO IDENTIFY A PARTICULAR SAFETY RELATED EQUIPMENT ITEM (MPL NUMBER).
39	SERVICE DESCRIPTION	THIS FIELD DESCRIBES THE EQUIPMENT FUNCTION. IT IS COMPOSED OF TWO 36 CHARACTER LINES - THE FIRST LINE CONTAINS THE STANDARD DESCRIPTION OF THE SYSTEM, THE SECOND CONTAINS DEVICE SPECIFIC FUNCTION DATA.
10	MANUFACTURER	THIS FIELD IDENTIFIES THE ACTUAL MANUFACTURER OF THE EQUIPMENT.
20	ENV ZONE	A CODE WHICH DEFINES THE EQUIPMENT LOCATION WITHIN THE PLANT IN TERMS OF ZONES RELATING TO SIMILAR ENVIRONMENTAL CONDITIONS (SEE FSAR TABLE 3.11-1).
21	ENV QUALFD	<p>THIS FIELD IDENTIFIES WHETHER SUFFICIENT DOCUMENTATION HAS BEEN RECEIVED TO PROVE THAT THE DEVICE IS QUALIFIED TO OPERATE IN THE ZONE THAT IT WILL BE LOCATED IN.</p> <p>THE ONLY ALLOWABLE VALUES FOR THIS FIELD ARE:</p> <p>BLANK - THE ITEM HAS NOT BEEN REVIEWED AS YET</p> <p>A - THE QUALIFICATION AND ASSOCIATED DOCUMENTATION IS COMPLETE</p> <p>B - THE QUALIFICATION TESTING IS FINISHED BUT ASSOCIATED DOCUMENTATION IS NOT YET SUBMITTED OR STILL IN REVIEW</p> <p>C - THE QUALIFICATION PLAN/PROCEDURE IS DOCUMENTED BUT TESTING HAS NOT YET BEGUN</p> <p>D - EQUIPMENT IS TO BE QUALIFIED (TEST PLAN NOT COMPLETE)</p> <p>E - EQUIPMENT IS JUDGED NOT QUALIFIABLE AND WILL BE REPLACED WITH QUALIFIED EQUIPMENT</p> <p>F - EQUIPMENT IS QUALIFIED FOR SEISMIC LOADING ONLY. REQUALIFICATION WILL BE PERFORMED TO ACCOUNT FOR HYDRODYNAMIC LOADS.</p>

SAFETY RELATED EQUIPMENT IDENTIFICATION AND ENVIRONMENTAL QUALIFICATION SUMMARY

AS OF 00610 02/09/84

SELECT : 09E604

SELECT :

SORT : 01

TITLE : EQPT LIST SP604

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 C2/09/84

SELECT : 09E604

SELECT :

SORT : 01

TITLE : EQPT LIST SP604

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

SELECT : 09E604

SELECT :

SORT : 01

TITLE : EQPT LIST SP604

EQUIPMENT NUMBER	SERVICE DESCRIPTION SP NO 1 GE PURCH DWG	MANUFACTURER MODEL	ENV ZONE	ENV QUALD	OP EC	ROD FT	OPER DEMO	ACC RES TME	ACC H2/H2 DEM	ACC H2/H2 DEM	ACC RT QUALIFICATION	SUMMARY
1B21 N 0044C	NUCLEAR BOILER REACTOR VESSEL LEVEL 604	ROSEMOUNT 1153DB5PAN0016 LEVEL TRANSMITTER	CT-3	A	A1	J	YES	.003	YES	T 10Y	SP604-000-03	10Y
1B21 N 0044D	NUCLEAR BOILER REACTOR VESSEL LEVEL 604	ROSEMOUNT 1153DB5PAN0016 LEVEL TRANSMITTER	CT-3	A	A1	J	YES	.003	YES	T 10Y	SP604-000-03	10Y
1B21 N 0073C	NUCLEAR BOILER SYSTEM REACTOR VESSEL LEVEL 604	ROSEMOUNT 1153DB5PAN0016 LEVEL TRANSMITTER	CT-3	A	A1	I	YES	.003	YES	T 10Y	SP604-000-03	10Y
1B21 N 0073G	NUCLEAR BOILER SYSTEM REACTOR VESSEL LEVEL 604	ROSEMOUNT 1153DB5PAN0016 LEVEL TRANSMITTER	CT-3	A	A1	I	YES	.003	YES	T 10Y	SP604-000-03	10Y
1B21 N 0073L	NUCLEAR BOILER SYSTEM REACTOR VESSEL LEVEL 604	ROSEMOUNT 1153DB5PAN0016 LEVEL TRANSMITTER	CT-3	A	A1	I	YES	.003	YES	T 10Y	SP604-000-03	10Y
1B21 N 0073R	NUCLEAR BOILER SYSTEM REACTOR VESSEL LEVEL 604	ROSEMOUNT 1153DB5PAN0016 LEVEL TRANSMITTER	CT-3	A	A1	I	YES	.003	YES	T 10Y	SP604-000-03	10Y
1B21 N 0075A	NS55 SYSTEM MAIN TURB CONDENSER VACUUM 604	ROSEMOUNT 1153AB5PAN0016 PRESSURE TRANSMITTER	T3-2	A	A1	C	YES	.003	YES	T 10Y	SP604-000-03	10Y
1B21 N 0075B	NS55 SYSTEM MAIN TURB CONDENSER VACUUM 604	ROSEMOUNT 1153AB5PAN0016 PRESSURE TRANSMITTER	T3-2	A	A1	C	YES	.003	YES	T 10Y	SP604-000-03	10Y
1B21 N 0075C	NS55 SYSTEM MAIN TURB CONDENSER VACUUM 604	ROSEMOUNT 1153AB5PAN0016 PRESSURE TRANSMITTER	T3-2	A	A1	C	YES	.003	YES	T 10Y	SP604-000-03	10Y
1B21 N 0075D	NS55 SYSTEM MAIN TURB CONDENSER VACUUM 604	ROSEMOUNT 1153AB5PAN0016 PRESSURE TRANSMITTER	T3-2	A	A1	C	YES	.003	YES	T 10Y	SP604-000-03	10Y
1B21 N 0076A	NS55 SYSTEM TURB STEAM LINE PRESSURE 604	ROSEMOUNT 1153GB9PAN0016 PRESSURE TRANSMITTER	T3-2	A	A1	C	YES	.003	YES	T 10Y	SP604-000-03	10Y

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

SELECT : 09E604

SELECT :

SORT : 01

TITLE : EQPT LIST SP604

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	QUALIFICATION M LF/MI SUMMARY
1B21 N 0076B	NSSS SYSTEM TURB STEAM LINE PRESSURE 604	ROSEMOUNT 1153GB9PAN0016 PRESSURE TRANSMITTER	TB-2 HARSH	A	A1	C	YES YES	.003 0.20 SEC	YES 10Y	T 10Y SP604-000-03
1B21 N 0076C	NSSS SYSTEM TURB STEAM LINE PRESSURE 604	ROSEMOUNT 1153GB9PAN0016 PRESSURE TRANSMITTER	TB-2 HARSH	A	A1	C	YES YES	.003 0.20 SEC	YES 10Y	T 10Y SP604-000-03
1B21 N 0076D	NSSS SYSTEM TURB STEAM LINE PRESSURE 604	ROSEMOUNT 1153GB9PAN0016 PRESSURE TRANSMITTER	TB-2 HARSH	A	A1	C	YES YES	.003 0.20 SEC	YES 10Y	T 10Y SP604-000-03
1B21 N 0078A	NUCLEAR BOILER SYSTEM PRESS TRANSMITTER-REACTOR 604	ROSEMOUNT 1153GB9PAN0016 PRESSURE TRANSMITTER	CT-3 HARSH	A	A1	C	YES YES	.003 0.20 SEC	YES 10Y	T 10Y SP604-000-03
1B21 N 0078B	NUCLEAR BOILER SYSTEM PRESS TRANSMITTER-REACTOR 604	ROSEMOUNT 1153GB9PAN0016 PRESSURE TRANSMITTER	CT-3 HARSH	A	A1	C	YES YES	.003 0.20 SEC	YES 10Y	T 10Y SP604-000-03
1B21 N 0078C	NUCLEAR BOILER SYSTEM PRESS TRANSMITTER-REACTOR 604	ROSEMOUNT 1153GB9PAN0016 PRESSURE TRANSMITTER	CT-3 HARSH	A	A1	C	YES YES	.003 0.20 SEC	YES 10Y	T 10Y SP604-000-03
1B21 N 0078D	NUCLEAR BOILER SYSTEM PRESS TRANSMITTER-REACTOR 604	ROSEMOUNT 1153GB9PAN0016 PRESSURE TRANSMITTER	CT-3 HARSH	A	A1	C	YES YES	.003 0.20 SEC	YES 10Y	T 10Y SP604-000-03
1B21 N 0081A	NSSS SYSTEM REACTOR WATER LEVEL 604	ROSEMOUNT 1153DB5PAN0016 DIFFERENTIAL PRESS TRANSMITTER	CT-3 HARSH	A	A1	C	YES YES	.003 0.20 SEC	YES 10Y	T 10Y SP604-000-03
1B21 N 0081B	NSSS SYSTEM REACTOR WATER LEVEL 604	ROSEMOUNT 1153DB5PAN0016 DIFFERENTIAL PRESS TRANSMITTER	CT-3 HARSH	A	A1	C	YES YES	.003 0.20 SEC	YES 10Y	T 10Y SP604-000-03
1B21 N 0081C	NSSS SYSTEM REACTOR WATER LEVEL 604	ROSEMOUNT 1153DB5PAN0016 DIFFERENTIAL PRESS TRANSMITTER	CT-3 HARSH	A	A1	C	YES YES	.003 0.20 SEC	YES 10Y	T 10Y SP604-000-03
1B21 N 0081D	NSSS SYSTEM REACTOR WATER LEVEL 604	ROSEMOUNT 1153DB5PAN0016 DIFFERENTIAL PRESS TRANSMITTER	CT-3 HARSH	A	A1	C	YES YES	.003 0.20 SEC	YES 10Y	T 10Y SP604-000-03

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

SELECT : 09E604

SELECT :

SORT : 01

TITLE : EQPT LIST SP604

EQUIPMENT NUMBER	SERVICE DESCRIPTION SP NO I GE PURCH DWG	MANUFACTURER MODEL EQUIP. DESCRIPTION	ENV ZONE	ENV QUALD	OP EC	RQD FT	OPER DEMO SEAL	ACC RES	ACC/RT TME DEMO	QUALIFICATION M LF/MT	SUMMARY
1B21 N 0095A	NUCLEAR BOILER SYSTEM REACTOR VESSEL LEVEL 604	ROSEMOUNT 1153DB4PAN0016 DIFFERENTIAL LEVEL	CT-3 HARSH	A	A1	I	YES YES	.003 0.20 SEC H2	YES	T 10Y 10Y	SP604-000-03
1B21 N 0095B	NUCLEAR BOILER SYSTEM REACTOR VESSEL LEVEL 604	ROSEMOUNT 1153DB4PAN0016 DIFFERENTIAL LEVEL	CT-3 HARSH	A	A1	I	YES YES	.003 0.20 SEC H2	YES	T 10Y 10Y	SP604-000-03
1B21 N 0490	NUCLEAR BOILER REACTOR VESSEL LEVEL 604	ROSEMOUNT 1153DB5PAN0016 LEVEL TRANSMITTER	CT-3 HARSH	A	A1	J	YES YES	.003 0.20 SEC H2	YES	T 10Y 10Y	SP604-000-03
1C11 N 0054A	ROD CONTROL AND INFORMATION SYSTEM FIRST STAGE TURBINE PRESSURE 604	ROSEMOUNT 1153GB7PAN0016 PRESSURE TRANSMITTER	TB-2 HARSH	A	A1	J	YES YES	.003 0.20 SEC	YES	T 10Y 10Y	SP604-000-03
1C11 N 0054B	ROD CONTROL AND INFORMATION SYSTEM FIRST STAGE TURBINE PRESSURE 604	ROSEMOUNT 1153GB7PAN0016 PRESSURE TRANSMITTER	TB-2 HARSH	A	A1	J	YES YES	.003 0.20 SEC	YES	T 10Y 10Y	SP604-000-03
1C11 N 0054C	ROD CONTROL AND INFORMATION SYSTEM FIRST STAGE TURBINE PRESSURE 604	ROSEMOUNT 1153GB8PAN0016 PRESSURE TRANSMITTER	TB-2 HARSH	A	A1	J	YES YES	.003 0.20 SEC	YES	T 10Y 10Y	SP604-000-03
1C11 N 0054D	ROD CONTROL AND INFORMATION SYSTEM FIRST STAGE TURBINE PRESSURE 604	ROSEMOUNT 1153GB8PAN0016 PRESSURE TRANSMITTER	TB-2 HARSH	A	A1	J	YES YES	.003 0.20 SEC	YES	T 10Y 10Y	SP604-000-03
1C61 N 0001	REMOTE REACTOR SHUTDOWN REACTOR FLOW 604	ROSEMOUNT 1153DB5PAN0016 FLOW TRANSMITTER	AB-6 MILD	A	A4	J	YES	.003 0.20 SEC	YES	T 10Y 10Y	SP604-000-03
1C61 N 0006	REMOTE REACTOR SHUTDOWN REACTOR PRESSURE 604	ROSEMOUNT 1153GB9PAN0016 PRESS TRANSMITTER	CT-3 HARSH	A	A1	J	YES YES	.003 0.20 SEC H2	YES	T 10Y 10Y	SP604-000-03
1C61 N 0010	REMOTE REACTOR SHUTDOWN REACTOR LEVEL 604	ROSEMOUNT 1153DB5PAN0016 LEVEL TRANSMITTER	CT-3 HARSH	A	A1	J	YES YES	.003 0.20 SEC H2	YES	T 10Y 10Y	SP604-000-03
1C71 N 0050A	REACTOR PROTECTION SYSTEM DRYWELL PRESS XMTR 604	ROSEMOUNT 1153AB5PAN0016 PRESSURE TRANSMITTER	CT-3 HARSH	A	A1	A	YES YES	.003 0.20 SEC	YES	T 10Y 10Y	SP604-000-03

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

SELECT : 09E604

SELECT :

SORT : 01

TITLE : EQPT LIST SP604

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/MI	SUMMARY
1C71 N 0050B	REACTOR PROTECTION SYSTEM L-WELL PRESS XMTR 604	ROSEMOUNT 1153AB5PAN0016 PRESSURE TRANSMITTER	CT-3 HARSH	A	A1	A	YES YES	.003 0.20 SEC	YES	T 10Y	SP604-000-03
1C71 N 0050C	REACTOR PROTECTION SYSTEM DRYWELL PRESS XMTR 604	ROSEMOUNT 1153AB5PAN0016 PRESSURE TRANSMITTER	CT-3 HARSH	A	A1	A	YES YES	.003 0.20 SEC	YES	T 10Y	SP604-000-03
1C71 N 0050D	REACTOR PROTECTION SYSTEM DRYWELL PRESS XMTR 604	ROSEMOUNT 1153AB5PAN0016 PRESSURE TRANSMITTER	CT-3 HARSH	A	A1	A	YES YES	.003 0.20 SEC	YES	T 10Y	SP604-000-03
1C71 N 0052A	REACTOR PROTECTION SYSTEM TURB 1ST STAGE PRESS XMTR 604	ROSEMOUNT 1153GB9PAN0016 PRESSURE TRANSMITTER	TB-2 HARSH	A	A1	A	YES YES	.003 0.20 SEC	YES	T 10Y	SP604-000-03
1C71 N 0052B	REACTOR PROTECTION SYSTEM TURB 1ST STAGE PRESS XMTR 604	ROSEMOUNT 1153GB9PAN0016 PRESSURE TRANSMITTER	TB-2 HARSH	A	A1	A	YES YES	.003 0.20 SEC	YES	T 10Y	SP604-000-03
1C71 N 0052C	REACTOR PROTECTION SYSTEM TURB 1ST STAGE PRESS XMTR 604	ROSEMOUNT 1153GB9PAN0016 PRESSURE TRANSMITTER	TB-2 HARSH	A	A1	A	YES YES	.003 0.20 SEC	YES	T 10Y	SP604-000-03
1C71 N 0052D	REACTOR PROTECTION SYSTEM TURB 1ST STAGE PRESS XMTR 604	ROSEMOUNT 1153GB9PAN0016 PRESSURE TRANSMITTER	TB-2 HARSH	A	A1	A	YES YES	.003 0.20 SEC	YES	T 10Y	SP604-000-03
1D23 N 0270A	CONTAINMENT ATMOSPHERE MONITORING CNTMT PRESSURE-WIDE RANGE 604	ROSEMOUNT 1153AB6PAN0016 PRESSURE TRANSMITTER	A3-1 MILD	A	A4	J	YES	.003 0.20 SEC	YES	T 10Y	SP604-000-03
1D23 N 0270B	CONTAINMENT ATMOSPHERE MONITORING CNTMT PRESSURE-WIDE RANGE 604	ROSEMOUNT 1153AB6PAN0016 PRESSURE TRANSMITTER	F3-4 MILD	A	A4	J	YES	.003 0.20 SEC	YES	T 10Y	SP604-000-03
1E12 N 0007A	RESIDUAL HEAT REMOVAL SYSTEM HEAT EXCHANGER INLET 604	ROSEMOUNT 1153DB5PAN0016 DIFFERENTIAL PRESS TRANSMITTER	A3-6 MILD	A	A4	I	YES	.003 0.20 SEC	YES	T 10Y	SP604-000-03
1E12 N 0007B	RESIDUAL HEAT REMOVAL SYSTEM HEAT EXCHANGER INLET 604	ROSEMOUNT 1153DB5PAN0016 DIFFERENTIAL PRESS TRANSMITTER	A3-6 MILD	A	A4	I	YES	.003 0.20 SEC	YES	T 10Y	SP604-000-03

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

SELECT : 09E604

SELECT :

SORT : 01

TITLE : EQPT LIST SP604

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
1E12 N 0013	RESIDUAL HEAT REMOVAL SYSTEM REACTOR HEAD SPRAY 604	ROSEMOUNT 1153DB5PAN0016 FLOW TRANSMITTER	AB-9 HARSH	A	A1	I	YES	.003 0.20 SEC	YES	T	10Y	SP604-000-03 10Y
1E12 N 0015A	RESIDUAL HEAT REMOVAL SYSTEM FLOW TO REACTOR 604	ROSEMOUNT 1153DB5PAN0016 DIFFERENTIAL PRESS	AB-6 MILD	A	A4	I	YES	.003 0.20 SEC	YES	T	10Y	SP604-000-03 10Y
1E12 N 0015B	RESIDUAL HEAT REMOVAL SYSTEM FLOW TO REACTOR 604	ROSEMOUNT 1153DB5PAN0016 DIFFERENTIAL PRESS	AB-6 MILD	A	A4	I	YES	.003 0.20 SEC	YES	T	10Y	SP604-000-03 10Y
1E12 N 0015C	RESIDUAL HEAT REMOVAL SYSTEM FLOW TO REACTOR 604	ROSEMOUNT 1153DB5PAN0016 DIFFERENTIAL PRESS	AB-6 MILD	A	A4	I	YES	.003 0.20 SEC	YES	T	10Y	SP604-000-03 10Y
1E12 N 0026A	RESIDUAL HEAT REMOVAL SYSTEM STEAM TO HEAT EXCHANGER 604	ROSEMOUNT 1153GB8PAN0016 PRESSURE TRANSMITTER	AB-6 MILD	A	A4	A	YES	.003 0.20 SEC	YES	T	10Y	SP604-000-03 10Y
1E12 N 0026B	RESIDUAL HEAT REMOVAL SYSTEM STEAM TO HEAT EXCHANGER 604	ROSEMOUNT 1153GB8PAN0016 PRESSURE TRANSMITTER	AB-6 MILD	A	A4	A	YES	.003 0.20 SEC	YES	T	10Y	SP604-000-03 10Y
1E12 N 0028	RESIDUAL HEAT REMOVAL SYSTEM CNDS TO RCIC SUCTION 604	ROSEMOUNT 1153GB7PAN0016 PRESSURE TRANSMITTER	AB-6 MILD	A	A4	A	YES	.003 0.20 SEC	YES	T	10Y	SP604-000-03 10Y
1E12 N 0050A	RESIDUAL HEAT REMOVAL SYSTEM STEAM TO HEAT EXCHANGER 604	ROSEMOUNT 1153GB8PAN0016 PRESSURE TRANSMITTER	AB-6 MILD	A	A4	A	YES	.003 0.20 SEC	YES	T	10Y	SP604-000-03 10Y
1E12 N 0050B	RESIDUAL HEAT REMOVAL SYSTEM STEAM TO HEAT EXCHANGER 604	ROSEMOUNT 1153GB8PAN0016 PRESSURE TRANSMITTER	AB-6 MILD	A	A4	A	YES	.003 0.20 SEC	YES	T	10Y	SP604-000-03 10Y
1E12 N 0051A	RESIDUAL HEAT REMOVAL SYSTEM STEAM TO HEAT EXCHANGER 604	ROSEMOUNT 1153GB8PAN0016 PRESSURE TRANSMITTER	AB-6 MILD	A	A4	A	YES	.003 0.20 SEC	YES	T	10Y	SP604-000-03 10Y
1E12 N 0051B	RESIDUAL HEAT REMOVAL SYSTEM STEAM TO HEAT EXCHANGER 604	ROSEMOUNT 1153GB8PAN0016 PRESSURE TRANSMITTER	AB-6 MILD	A	A4	A	YES	.003 0.20 SEC	YES	T	10Y	SP604-000-03 10Y

SAFETY RELATED EQUIPMENT IDENTIFICATION AND ENVIRONMENTAL QUALIFICATION SUMMARY

SELECT : 09E604

AS OF 00610 02/09/84

SELECT :

SORT : 01

TITLE : EQPT LIST SP604

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
							SEAL	H2/H2	DEMO				
1E12 N 0052A	RESIDUAL HEAT REMOVAL SYSTEM FLOW TO REACTOR 604	ROSEMOUNT 1153DB3PAN0016 DIFFERENTIAL PRESS	AB-6 MILD	A	A4	I	YES	.003 0.20 SEC	YES	T	10Y		SP604-000-03 10Y
1E12 N 0052B	RESIDUAL HEAT REMOVAL SYSTEM FLOW TO REACTOR 604	ROSEMOUNT 1153DB3PAN0016 DIFFERENTIAL PRESS	AB-6 MILD	A	A4	I	YES	.003 0.20 SEC	YES	T	10Y		SP604-000-03 10Y
1E12 N 0052C	RESIDUAL HEAT REMOVAL SYSTEM FLOW TO REACTOR 604	ROSEMOUNT 1153DB3PAN0016 DIFFERENTIAL PRESS	AB-6 MILD	A	A4	I	YES	.003 0.20 SEC	YES	T	10Y		SP604-000-03 10Y
1E12 N 0055A	RESIDUAL HEAT REMOVAL SYSTEM RHR PUMP PRESSURE 604	ROSEMOUNT 1153GB7PAN0016 PRESSURE TRANSMITTER	AB-6 MILD	A	A4	C	YES	.003 0.20 SEC	YES	T	10Y		SP604-000-03 10Y
1E12 N 0055B	RESIDUAL HEAT REMOVAL SYSTEM RHR PUMP PRESSURE 604	ROSEMOUNT 1153GB7PAN0016 PRESSURE TRANSMITTER	AB-6 MILD	A	A4	C	YES	.003 0.20 SEC	YES	T	10Y		SP604-000-03 10Y
1E12 N 0055C	RESIDUAL HEAT REMOVAL SYSTEM RHR PUMP PRESSURE 604	ROSEMOUNT 1153GB7PAN0016 PRESSURE TRANSMITTER	AB-6 MILD	A	A4	C	YES	.003 0.20 SEC	YES	T	10Y		SP604-000-03 10Y
1E12 N 0056A	RESIDUAL HEAT REMOVAL SYSTEM RHR PUMP PRESSURE 604	ROSEMOUNT 1153GB7PAN0016 PRESSURE TRANSMITTER	AB-6 MILD	A	A4	C	YES	.003 0.20 SEC	YES	T	10Y		SP604-000-03 10Y
1E12 N 0056B	RESIDUAL HEAT REMOVAL SYSTEM RHR PUMP PRESSURE 604	ROSEMOUNT 1153GB7PAN0016 PRESSURE TRANSMITTER	AB-6 MILD	A	A4	C	YES	.003 0.20 SEC	YES	T	10Y		SP604-000-03 10Y
1E12 N 0056C	RESIDUAL HEAT REMOVAL SYSTEM RHR PUMP PRESSURE 604	ROSEMOUNT 1153GB7PAN0016 PRESSURE TRANSMITTER	AB-6 MILD	A	A4	C	YES	.003 0.20 SEC	YES	T	10Y		SP604-000-03 10Y
1E12 N 0058A	RESIDUAL HEAT REMOVAL SYSTEM FLOW TO REACTOR 604	ROSEMOUNT 1153GB8PAN0016 PRESSURE TRANSMITTER	CT-3 HARSH	A	A1	J	YES YES	.003 0.20 SEC H2	YES	T	10Y		SP604-000-03 10Y
1E12 N 0058B	RESIDUAL HEAT REMOVAL SYSTEM FLOW TO REACTOR 604	ROSEMOUNT 1153GB8PAN0016 PRESSURE TRANSMITTER	CT-3 HARSH	A	A1	J	YES YES	.003 0.20 SEC H2	YES	T	10Y		SP604-000-03 10Y

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

SELECT : 09E604

SELECT :

SORT : 01

TITLE : EQPT LIST SP604

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
1E12 N 0058C	RESIDUAL HEAT REMOVAL SYSTEM FLOW TO REACTOR 604	ROSEMOUNT 1153GB8PAN0016 PRESSURE TRANSMITTER	AB-6 MILD	A	A4	J	YES	.003 0.20 SEC	YES	T 10Y	SP604-000-03 10Y
1E21 N 0003	LOW PRESSURE CORE SPRAY SYSTEM PUMP DISCH FLOW 604	ROSEMOUNT 1153DB5PAN0016 DIFFERENTIAL	AB-6 MILD	A	A4	I	YES	.003 0.20 SEC	YES	T 10Y	SP604-000-03 10Y
1E21 N 0050	LOW PRESSURE CORE SPRAY SYSTEM PRESS PERM TO TEST INJ VLV 604	ROSEMOUNT 1153GB8PAN0016 DIFFERENTIAL	AB-6 MILD	A	A4	A	YES	.003 0.20 SEC	YES	T 10Y	SP604-000-03 10Y
1E21 N 0051	LOW PRESSURE CORE SPRAY SYSTEM MIN FLOW TO SUPP POOL VLV 604	ROSEMOUNT 1153DB4PAN0016 FLOW TRANSMITTER	AB-6 MILD	A	A4	I	YES	.003 0.20 SEC	YES	T 10Y	SP604-000-03 10Y
1E21 N 0052	LOW PRESSURE CORE SPRAY SYSTEM LPCS PUMP PRESS 604	ROSEMOUNT 1153GB7PAN0016 PRESSURE TRANSMITTER	AB-6 MILD	A	A4	C	YES	.003 0.20 SEC	YES	T 10Y	SP604-000-03 10Y
1E21 N 0053	LOW PRESSURE CORE SPRAY SYSTEM LPCS PUMP PRESS 604	ROSEMOUNT 1153GB7PAN0016 PRESSURE TRANSMITTER	AB-6 MILD	A	A4	C	YES	.003 0.20 SEC	YES	T 10Y	SP604-000-03 10Y
1E21 N 0054	LOW PRESSURE CORE SPRAY SYSTEM LPCS PUMP DISCH PRESS 604	ROSEMOUNT 1153 PRESSURE TRANSMITTER	AB-6 MILD	A	A4	I	YES	.003 0.20 SEC	YES	T 10Y	SP604-000-03 10Y
1E22 N 0005	HIGH PRESSURE CORE SPRAY SYSTEM HPCS FLOW 604	ROSEMOUNT 1153 FLOW TRANSMITTER	AB-6 MILD	A	A4	I	YES	.003 0.20 SEC	YES	T 10Y	SP604-000-03 10Y
1E22 N 0051	HIGH PRESSURE CORE SPRAY SYSTEM MAIN PUMP DISCH PRESS 604	ROSEMOUNT 1153GB9PAN0016 PRESSURE TRANSMITTER	AB-6 MILD	A	A4	I	YES	.003 0.20 SEC	YES	T 10Y	SP604-000-03 10Y
1E22 N 0054C	HIGH PRESSURE CORE SPRAY SYSTEM CONDENSATE STORAGE TANK LVL 604	ROSEMONT 1153DB3PAN0016 DIFFERENTIAL PRESS TRANSMITTER	DU-T MILD	A	A4	F	YES	.003 0.20 SEC	YES	T 10Y	SP604-000-03 10Y
1E22 N 0054G	HIGH PRESSURE CORE SPRAY SYSTEM CONDENSATE STORAGE TANK LVL 604	ROSEMONT 1153DB3PAN0016 DIFFERENTIAL PRESS TRANSMITTER	DU-T MILD	A	A4	F	YES	.003 0.20 SEC	YES	T 10Y	SP604-000-03 10Y

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

SELECT : 09E604

SELECT :

SORT : 01

TITLE : EQPT LIST SP604

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 DEMOM M LF/MI	SUMMARY
1E22 N 0056	HIGH PRESSURE CORE SPRAY SYSTEM HPCS FLOW 604	ROSEMOUNT 1153DB4PAN0016 DIFFERENTIAL PRESS	AB-6	A	A4	I	YES	.003	YES	T 10Y	SP604-000-03
			MILD					0.20 SEC		10Y	
1E31 N 0080A	LEAK DETECTION SYSTEM RHR A TO LPCS INJECTION 604	ROSEMOUNT 1153DB5PAN0016 DIFFERENTIAL	CT-3	A	A1	J	YES	.003	YES	T 10Y	SP604-000-03
			HARSH					0.20 SEC		10Y	
			PRESSURE TRANSMITTE	YES				H2			
1E31 N 0080B	LEAK DETECTION SYSTEM RHR B TO RHR C INJECTION 604	ROSEMOUNT 1153DB5PAN0016 DIFFERENTIAL	CT-3	A	A1	J	YES	.003	YES	T 10Y	SP604-000-03
			HARSH					0.20 SEC		10Y	
			PRESSURE TRANSMITTE	YES				H2			
1E31 N 0083A	LEAK DETECTION SYSTEM RCIC STEAM SUPPLY 604	ROSEMOUNT 1153DB7PAN0016 DIFFERENTIAL	AB-6	A	A4	B	YES	.003	YES	T 10Y	SP604-000-03
			MILD					0.20 SEC		10Y	
			PRESSURE TRANSMITTE								
1E31 N 0083B	LEAK DETECTION SYSTEM RCIC STEAM SUPPLY 604	ROSEMOUNT 1153DB7PAN0016 DIFFERENTIAL	AB-6	A	A4	B	YES	.003	YES	T 10Y	SP604-000-03
			MILD					0.20 SEC		10Y	
			PRESSURE TRANSMITTE								
1E31 N 0086A	LEAK DETECTION SYSTEM STEAM LINE A FLOW 604	ROSEMOUNT 1153DB7PAN0016 DIFFERENTIAL	CT-3	A	A1	C	YES	.003	YES	T 10Y	SP604-000-03
			HARSH					0.20 SEC		10Y	
			PRESSURE TRANSMITTE	YES							
1E31 N 0086B	LEAK DETECTION SYSTEM STEAM LINE A FLOW 604	ROSEMOUNT 1153DB7PAN0016 DIFFERENTIAL	CT-3	A	A1	C	YES	.003	YES	T 10Y	SP604-000-03
			HARSH					0.20 SEC		10Y	
			PRESSURE TRANSMITTE	YES							
1E31 N 0086C	LEAK DETECTION SYSTEM STEAM LINE A FLOW 604	ROSEMOUNT 1153DB7PAN0015 DIFFERENTIAL	CT-3	A	A1	C	YES	.003	YES	T 10Y	SP604-000-03
			HARSH					0.20 SEC		10Y	
			PRESSURE TRANSMITTE	YES							
1E31 N 0086D	LEAK DETECTION SYSTEM STEAM LINE A FLOW 604	ROSEMOUNT 1153DB7PAN0016 DIFFERENTIAL	CT-3	A	A1	C	YES	.003	YES	T 10Y	SP604-000-03
			HARSH					0.20 SEC		10Y	
			PRESSURE TRANSMITTE	YES							
1E31 N 0087A	LEAK DETECTION SYSTEM STEAM LINE B FLOW 604	ROSEMOUNT 1153DB7PAN0016 DIFFERENTIAL	CT-3	A	A1	C	YES	.003	YES	T 10Y	SP604-000-03
			HARSH					0.20 SEC		10Y	
			PRESSURE TRANSMITTE	YES							
1E31 N 0087B	LEAK DETECTION SYSTEM STEAM LINE B FLOW 604	ROSEMOUNT 1153DB7PAN0016 DIFFERENTIAL	CT-3	A	A1	C	YES	.003	YES	T 10Y	SP604-000-03
			HARSH					0.20 SEC		10Y	
			PRESSURE TRANSMITTE	YES							

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

SELECT : 09E604

SELECT :

SORT : 01

TITLE : EQPT LIST SP604

EQUIPMENT NUMBER	SERVICE DESCRIPTION SP NO 1 GE PURCH D83	MANUFACTURER MODEL EQUIP. DESCRIPTION	ENV	ENV	OP	RQD	OFER	ACC	ACC/RT	QUALIFICATION		
			ZONE	QUALD	EC	FT	DEMO	RES	TME	DEMO	M	LF/MI
							SEAL	H2/H2	DEMO			
1E31 N 0087C	LEAK DETECTION SYSTEM STEAM LINE B FLOW 604	ROSEMOUNT 1153DB7PAN0016 DIFFERENTIAL	CT-3 HARSH	A	A1	C	YES	.003 0.20 SEC	YES	T	10Y 10Y	SP604-000-03
			PRESSURE TRANSMITTE				YES					
1E31 N 0087D	LEAK DETECTION SYSTEM STEAM LINE B FLOW 604	ROSEMOUNT 1153DB7PAN0016 DIFFERENTIAL	CT-3 HARSH	A	A1	C	YES	.003 0.20 SEC	YES	T	10Y 10Y	SP604-000-03
			PRESSURE TRANSMITTE				YES					
1E31 N 0088A	LEAK DETECTION SYSTEM STEAM LINE C FLOW 604	ROSEMOUNT 1153DB7PAN0016 DIFFERENTIAL	CT-3 HARSH	A	A1	C	YES	.003 0.20 SEC	YES	T	10Y 10Y	SP604-000-03
			PRESSURE TRANSMITTE				YES					
1E31 N 0088B	LEAK DETECTION SYSTEM STEAM LINE C FLOW 604	ROSEMOUNT 1153DB7PAN0016 DIFFERENTIAL	CT-3 HARSH	A	A1	C	YES	.003 0.20 SEC	YES	T	10Y 10Y	SP604-000-03
			PRESSURE TRANSMITTE				YES					
1E31 N 0088C	LEAK DETECTION SYSTEM STEAM LINE C FLOW 604	ROSEMOUNT 1153DB7PAN0016 DIFFERENTIAL	CT-3 HARSH	A	A1	C	YES	.003 0.20 SEC	YES	T	10Y 10Y	SP604-000-03
			PRESSURE TRANSMITTE				YES					
1E31 N 0088D	LEAK DETECTION SYSTEM STEAM LINE C FLOW 604	ROSEMOUNT 1153DB7PAN0016 DIFFERENTIAL	CT-3 HARSH	A	A1	C	YES	.003 0.20 SEC	YES	T	10Y 10Y	SP604-000-03
			PRESSURE TRANSMITTE				YES					
1E31 N 0089A	LEAK DETECTION SYSTEM STEAM LINE D FLOW 604	ROSEMOUNT 1153DB7PAN0016 DIFFERENTIAL	CT-3 HARSH	A	A1	C	YES	.003 0.20 SEC	YES	T	10Y 10Y	SP604-000-03
			PRESSURE TRANSMITTE				YES					
1E31 N 0089B	LEAK DETECTION SYSTEM STEAM LINE D FLOW 604	ROSEMOUNT 1153DB7PAN0016 DIFFERENTIAL	CT-3 HARSH	A	A1	C	YES	.003 0.20 SEC	YES	T	10Y 10Y	SP604-000-03
			PRESSURE TRANSMITTE				YES					
1E31 N 0089C	LEAK DETECTION SYSTEM STEAM LINE D FLOW 604	ROSEMOUNT 1153DB7PAN0016 DIFFERENTIAL	CT-3 HARSH	A	A1	C	YES	.003 0.20 SEC	YES	T	10Y 10Y	SP604-000-03
			PRESSURE TRANSMITTE				YES					
1E31 N 0089D	LEAK DETECTION SYSTEM STEAM LINE D FLOW 604	ROSEMOUNT 1153DB7PAN0016 DIFFERENTIAL	CT-3 HARSH	A	A1	C	YES	.003 0.20 SEC	YES	T	10Y 10Y	SP604-000-03
			PRESSURE TRANSMITTE				YES					
1E31 N 0092	LEAK DETECTION SYSTEM REACTR FLANGE LEAKAGE PRES TRANS 604	ROSEMOUNT 1153GB8PAN0016 PRESSURE TRANSMITTER	CT-4 HARSH	A	A3	A	YES	.003 0.20 SEC	YES	T	10Y 10Y	SP604-000-03
							YES					

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

SELECT : 00604

SELECT :

SORT : 01

TITLE : EQPT LIST SP604

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/MI	SUMMARY
1E32 N 0051A	MSIV LEAKAGE CONTROL SYSTEM STEAM TUNNEL 604	ROSEMOUNT 1153AB5PAN0016 PRESSURE TRANSMITTER	AB-9 HARSH	A	A1	I	YES YES	.003 0.20 SEC	YES	T 10Y 10Y	SP604-000-03
1E32 N 0051E	MSIV LEAKAGE CONTROL SYSTEM STEAM TUNNEL 604	ROSEMOUNT 1153AB5PAN0016 PRESSURE TRANSMITTER	AB-9 HARSH	A	A1	I	YES YES	.003 0.20 SEC	YES	T 10Y 10Y	SP604-000-03
1E32 N 0051J	MSIV LEAKAGE CONTROL SYSTEM STEAM TUNNEL 604	ROSEMOUNT 1153AB5PAN0016 PRESSURE TRANSMITTER	AB-9 HARSH	A	A1	I	YES YES	.003 0.20 SEC	YES	T 10Y 10Y	SP604-000-03
1E32 N 0051N	MSIV LEAKAGE CONTROL SYSTEM STEAM TUNNEL 604	ROSEMOUNT 1153AB5PAN0016 PRESSURE TRANSMITTER	AB-9 HARSH	A	A1	I	YES YES	.003 0.20 SEC	YES	T 10Y 10Y	SP604-000-03
1E32 N 0054	MSIV LEAKAGE CONTROL SYSTEM LOW PRESS MANIFOLD 604	ROSEMOUNT 1153DB4PAN0016 DIFFERENTIAL PRESS TRANSMITTER	AB-9 HARSH	A	A1	I	YES YES	.003 0.20 SEC	YES	T 10Y 10Y	SP604-000-03
1E32 N 0055	MSIV LEAKAGE CONTROL SYSTEM STEAM TUNNEL 604	ROSEMOUNT 1153GB6PAN0016 PRESSURE TRANSMITTER	AB-9 HARSH	A	A1	I	YES YES	.003 0.20 SEC	YES	T 10Y 10Y	SP604-000-03
1E32 N 0056	MSIV LEAKAGE CONTROL SYSTEM STEAM TUNNEL 604	ROSEMOUNT 1153AB5PAN0016 PRESSURE TRANSMITTER	AB-9 HARSH	A	A1	I	YES YES	.003 0.20 SEC	YES	T 10Y 10Y	SP604-000-03
1E32 N 0059	MSIV LEAKAGE CONTROL SYSTEM EXHAUST BLOWER 604	ROSEMOUNT 1153DB4PAN0016 DIFFERENTIAL PRESS TRANSMITTER	AB-9 HARSH	A	A1	I	YES YES	.003 0.20 SEC	YES	T 10Y 10Y	SP604-000-03
1E32 N 0061A	MSIV LEAKAGE CONTROL SYSTEM STEAM TUNNEL 604	ROSEMOUNT 1153GB6PAN0016 PRESSURE TRANSMITTER	AB-9 HARSH	A	A1	I	YES YES	.003 0.20 SEC	YES	T 10Y 10Y	SP604-000-03
1E32 N 0061E	MSIV LEAKAGE CONTROL SYSTEM STEAM TUNNEL 604	ROSEMOUNT 1153GB6PAN0016 PRESSURE TRANSMITTER	AB-9 HARSH	A	A1	I	YES YES	.003 0.20 SEC	YES	T 10Y 10Y	SP604-000-03
1E32 N 0061J	MSIV LEAKAGE CONTROL SYSTEM STEAM TUNNEL 604	ROSEMOUNT 1153GB6PAN0016 PRESSURE TRANSMITTER	AB-9 HARSH	A	A1	I	YES YES	.003 0.20 SEC	YES	T 10Y 10Y	SP604-000-03

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

SELECT : 09E604

SELECT :

SORT : 01

TITLE : EQPT LIST SP604

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
1E32 N 0061N	MSIV LEAKAGE CONTROL SYSTEM STEAM TUNNEL 604	ROSEMOUNT 1153GB6PAN0016 PRESSURE TRANSMITTER	AB-9 HARSH	A	A1	I	YES	.003 0.20 SEC	YES	T	10Y	SP604-000-03
1E51 N 0003	REACTOR CORE ISOLATION COOLING PUMP DISCH FLOW 604	ROSEMOUNT 1153DB5PAN0016 DIFFERENTIAL PRESS TRANSMITTER	AB-6 MILD	A	A4	E	YES	.003 0.20 SEC	YES	T	10Y	SP604-000-03
1E51 N 0035A	REACTOR CORE ISOLATION COOLING CNDS STORAGE TANK LEVEL 604	ROSEMOUNT 1153DB4PAN0016 DIFFERENTIAL PRESS TRANSMITTER	OU-T MILD	A	A4	E	YES	.003 0.20 SEC	YES	T	10Y	SP604-000-03
1E51 N 0035E	REACTOR CORE ISOLATION COOLING CNDS STORAGE TANK LEVEL 604	ROSEMOUNT 1153DB4PAN0016 DIFFERENTIAL PRESS TRANSMITTER	OU-T MILD	A	A4	E	YES	.003 0.20 SEC	YES	T	10Y	SP604-000-03
1E51 N 0050	REACTOR CORE ISOLATION COOLING PUMP DISCH PRESS 604	ROSEMOUNT 1153GB9PAN0016 PRESSURE TRANSMITTER	AB-6 MILD	A	A4	E	YES	.003 0.20 SEC	YES	T	10Y	SP604-000-03
1E51 N 0051	REACTOR CORE ISOLATION COOLING PUMP DISCH FLOW 604	ROSEMOUNT 1153DB4PAN0016 DIFFERENTIAL PRESS TRANSMITTER	AB-6 MILD	A	A4	E	YES	.003 0.20 SEC	YES	T	10Y	SP604-000-03
1E51 N 0053	REACTOR CORE ISOLATION COOLING PUMP SUCT PRESS 604	ROSEMOUNT 1153GB5PAN0016 PRESSURE TRANSMITTER	AB-6 MILD	A	A4	E	YES	.003 0.20 SEC	YES	T	10Y	SP604-000-03
1E51 N 0055A	REACTOR CORE ISOLATION COOLING TURB EXHAUST DIAPHRAGM 604	ROSEMOUNT 1153GB6PAN0016 PRESSURE TRANSMITTER	AB-6 MILD	A	A4	E	YES	.003 0.20 SEC	YES	T	10Y	SP604-000-03
1E51 N 0055B	REACTOR CORE ISOLATION COOLING TURBINE EXHAUST DIAPHRAGM 604	ROSEMOUNT 1153GB3PAN0016 PRESS TRANSMITTER	AB-6 MILD	A	A4	E	YES	.003 0.20 SEC	YES	T	10Y	SP604-000-03
1E51 N 0055E	REACTOR CORE ISOLATION COOLING TURB EXHAUST DIAPHRAGM 604	ROSEMOUNT 1153GB6PAN0016 PRESSURE TRANSMITTER	AB-6 MILD	A	A4	E	YES	.003 0.20 SEC	YES	T	10Y	SP604-000-03
1E51 N 0055F	REACTOR CORE ISOLATION COOLING TURBINE EXHAUST DIAPHRAGM 604	ROSEMOUNT 1153GB3PAN0016 PRESS TRANSMITTER	AB-6 MILD	A	A4	E	YES	.003 0.20 SEC	YES	T	10Y	SP604-000-03

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

SELECT : 09E604

SELECT :

SORT : 01

TITLE : EQPT LIST SP604

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 DEMO	QUALIFICATION M LF/MI	SUMMARY
1E51 N 0056A	REACTOR CORE ISOLATION COOLING TURB EXHAUST 604	ROSEMOUNT 1153GB7PAN0016 PRESSURE TRANSMITTER	AB-6 MILD	A	A4	E	YES	.003 0.20 SEC	YES	T 10Y 10Y	SP604-000-03
1E51 N 0056E	REACTOR CORE ISOLATION COOLING TURB EXHAUST 604	ROSEMOUNT 1153GB7PAN0016 PRESSURE TRANSMITTER	AB-6 MILD	A	A4	E	YES	.003 0.20 SEC	YES	T 10Y 10Y	SP604-000-03
1G43 N 0020A	SUPPRESSION POOL MAKE-UP SYSTEM UPPER POOL LEVEL 604	ROSEMOUNT 1153DB5PAN0016 LEVEL TRANSMITTER	CT-8 HARSH	A	A1	J	YES YES H2	.003 0.20 SEC	YES	T 10Y 10Y	SP604-000-03
1G43 N 0020B	SUPPRESSION POOL MAKE-UP SYSTEM UPPER POOL LEVEL 604	ROSEMOUNT 1153DB5PAN0016 LEVEL TRANSMITTER	CT-7 HARSH	A	A1	J	YES YES H2	.003 0.20 SEC	YES	T 10Y 10Y	SP604-000-03
1G43 N 0060A	SUPPRESSION POOL MAKE-UP SYSTEM SUPP POOL LEVEL CONTROL 604	ROSEMOUNT 1153DB4PAN0016 LEVEL TRANSMITTER	AB-6 MILD	A	A4	J	YES	.003 0.20 SEC	YES	T 10Y 10Y	SP604-000-03
1G43 N 0060B	SUPPRESSION POOL MAKE-UP SYSTEM SUPP POOL LEVEL CONTROL 604	ROSEMOUNT 1153DB4PAN0016 LEVEL TRANSMITTER	AB-6 MILD	A	A4	J	YES	.003 0.20 SEC	YES	T 10Y 10Y	SP604-000-03
1G43 N 0070A	SUPPRESSION POOL MAKE-UP SYSTEM SUPP POOL LEVEL CONTROL 604	ROSEMOUNT 1153DB5PAN0016 LEVEL TRANSMITTER	AB-6 MILD	A	A4	J	YES	.003 0.20 SEC	YES	T 10Y 10Y	SP604-000-03
1G43 N 0070B	SUPPRESSION POOL MAKE-UP SYSTEM SUPP POOL LEVEL CONTROL 604	ROSEMOUNT 1153DB5PAN0016 LEVEL TRANSMITTER	AB-6 MILD	A	A4	J	YES	.003 0.20 SEC	YES	T 10Y 10Y	SP604-000-03
1G43 N 0080	SUPPRESSION POOL MAKE-UP SYSTEM SUPP POOL LEVEL INDICATION 604	ROSEMOUNT 1153DB4PAN0016 LEVEL TRANSMITTER	AB-6 MILD	A	A4	J	YES	.003 0.20 SEC	YES	T 10Y 10Y	SP604-000-03
1G43 N 0090A	SUPPRESSION POOL MAKE-UP SYSTEM SUPP PL LEVEL-EXTENDED WIDE RNG 604	ROSEMOUNT 1153DB5PAN0016 LEVEL TRANSMITTER	AB-4 HARSH	A	A1	J	YES YES	.003 0.20 SEC	YES	T 10Y 10Y	SP604-000-03
1G43 N 0090B	SUPPRESSION POOL MAKE-UP SYSTEM SUPP PL LEVEL-EXTENDED WIDE RNG 604	ROSEMOUNT 1153DB5PAN0016 LEVEL TRANSMITTER	AB-4 HARSH	A	A1	J	YES YES	.003 0.20 SEC	YES	T 10Y 10Y	SP604-000-03

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

SELECT : 09E604

SELECT :

SORT : 01

TITLE : EQPT LIST SP604

EQUIPMENT NUMBER	SERVICE DESCRIPTION SP NO 1 GE PURCH DWG	MANUFACTURER MODEL EQUIP. DESCRIPTION	ENV ZONE	ENV QUAL	OP EC	RQD FT	OPER DEMO	ACC RES	ACC/RT TME	QUALIFICATION DEMO	M LF/MI	SUMMARY
1G43 N 0100A	SUPPRESSION POOL MAKE-UP SYSTEM CONTAINMENT WATER LEVEL 604	ROSEMOUNT 1153DB6PAN0016 LEVEL TRANSMITTER	AB-6 MILD	A	A4	J	YES	.003 0.20 SEC	YES	T	10Y 10Y	SP604-000-03
1G43 N 0100B	SUPPRESSION POOL MAKE-UP SYSTEM CONTAINMENT WATER LEVEL 604	ROSEMOUNT 1153DB6PAN0016 LEVEL TRANSMITTER	AB-6 MILD	A	A4	J	YES	.003 0.20 SEC	YES	T	10Y 10Y	SP604-000-03
1M15 N 0012A	ANNULUS EXHAUST GAS TREATMENT SYSTEM ANNULUS SPACE 604	ROSEMOUNT 1153DB3PAN0016 PRESSURE TRANSMITTER	FB-4 MILD	A	A4	J	YES	.003 0.20 SEC	YES	T	10Y 10Y	SP604-000-03
1M15 N 0012B	ANNULUS EXHAUST GAS TREATMENT SYSTEM ANNULUS SPACE 604	ROSEMOUNT 1153DB3PAN0016 PRESSURE TRANSMITTER	AB-9 HARSH	A	A1	J	YES YES	.003 0.20 SEC	YES	T	10Y 10Y	SP604-000-03
1M15 N 0013A	ANNULUS EXHAUST GAS TREATMENT SYSTEM ANNULUS SPACE 604	ROSEMOUNT 1153DB3PAN0016 PRESSURE TRANSMITTER	AB-9 HARSH	A	A1	J	YES YES	.003 0.20 SEC	YES	T	10Y 10Y	SP604-000-03
1M15 N 0013B	ANNULUS EXHAUST GAS TREATMENT SYSTEM ANNULUS SPACE 604	ROSEMOUNT 1153DB3PAN0016 PRESSURE TRANSMITTER	FB-3 HARSH	A	A1	J	YES	.003 0.20 SEC	YES	T	55M 55M	SP604-000-03
1N27 N 0598A	FEEDWATER SYSTEM FEEDWATER LEAKAGE CONTROL 604	ROSEMOUNT 1153GB6PAN0016 PRESSURE TRANSMITTER	AB-1 MILD	A	A4	J	YES	.003 0.20 SEC	YES	T	10Y 10Y	SP604-000-03
1N27 N 0598B	FEEDWATER SYSTEM FEEDWATER LEAKAGE CONTROL 604	ROSEMOUNT 1153GB6PAN0016 PRESSURE TRANSMITTER	AB-1 MILD	A	A4	J	YES	.003 0.20 SEC	YES	T	10Y 10Y	SP604-000-03
1P45 N 0051A	EMERGENCY SERVICE WATER EMERGENCY CLOSED COOLING HX A FLOW 604	ROSEMOUNT 1153DB4PAN0016 FLOW TRANSMITTER	CB-5 MILD	A	A4	J	YES	.003 0.20 SEC	YES	T	10Y 10Y	SP604-000-03
1P45 N 0051B	EMERGENCY SERVICE WATER EMERGENCY CLOSED COOLING HX B FLOW 604	ROSEMOUNT 1153DB4PAN0016 FLOW TRANSMITTER	CB-5 MILD	A	A4	J	YES	.003 0.20 SEC	YES	T	10Y 10Y	SP604-000-03
1P45 N 0071A	EMERGENCY SERVICE WATER STBY DIESEL GEN A OUTLET 604	ROSEMOUNT 1153DB5PAN0016 FLOW TRANSMITTER	DG-1 MILD	A	A4	J	YES	.003 0.20 SEC	YES	T	10Y 10Y	SP604-000-03

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

SELECT : 09E604

SELECT :

SORT : 01

TITLE : EQPT LIST SP604

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/MI	SUMMARY
1P45 N 0071B	EMERGENCY SERVICE WATER STBY DIESEL GEN B OUTLET 604	ROSEMOUNT 1153DB5PAN0016 FLOW TRANSMITTER	DG-1 MILD	A	A4	J	YES	.003 0.20 SEC	YES	T 10Y 10Y	SP604-000-03
1P45 N 0206	EMERGENCY SERVICE WATER HPCS DIESEL GEN HX OUTLET 604	ROSEMOUNT 1153DB4PAN0016 FLOW TRANSMITTER	DG-1 MILD	A	A4	J	YES	.003 0.20 SEC	YES	T 10Y 10Y	SP604-000-03
1P45 N 0250	EMERGENCY SERVICE WATER SYSTEM RHR HEAT EXCHANGER 604	ROSEMOUNT 1153DB5PAN0016 FLOW TRANSMITTER	AB-6 MILD	A	A4	J	YES	.003 0.20 SEC	YES	T 10Y 10Y	SP604-000-03
1P45 N 0252	EMERGENCY SERVICE WATER EMERGENCY CLOSED COOLING HX OUTLET 604	ROSEMOUNT 1153DB4PAN0016 FLOW TRANSMITTER	CB-5 MILD	A	A4	J	YES	.003 0.20 SEC	YES	T 10Y 10Y	SP604-000-03
1P57 N 0020A	SAFETY RELATED INSTRUMENT AIR SYSTEM HIGH PRESS SUPPLY 604	ROSEMOUNT 1153GB9PAN0016 PRESSURE TRANSMITTER	FB-1 MILD	A	A4	J	YES	.003 0.20 SEC	YES	T 10Y 10Y	SP604-000-03
1P57 N 0020B	SAFETY RELATED INSTRUMENT AIR SYSTEM HIGH PRESS SUPPLY 604	ROSEMOUNT 1153GB9PAN0016 PRESSURE TRANSMITTER	AB-1 MILD	A	A4	J	YES	.003 0.20 SEC	YES	T 10Y 10Y	SP604-000-03