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MATHEWS,E.R. Wisconsin Public Service Corp.
RECIP.NAME RECIPIENT AFFILIATION
VARGA,S.A. Operating Reactors Branch 1

SUBJECT: Forwards data sheets re environ qualification of safety-related electrical equipment.Beta dose effects on equipment determined on basis of IE Bulletin 79-01B.Potential schedule problem identified. See repts

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WISCONSIN PUBLIC SERVICE CORPORATION

P.O. Box 1200, Green Bay, Wisconsin 54305

November 2, 1981

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U.S. NUCLEAR REGULATORY COMMISSION

Mr. Steven A. Varga, Chief
Operating Reactors Branch #1
Division of Licensing
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Dear Mr. Varga:

Docket 50-305
Operating License DPR-43
Kewaunee Nuclear Power Plant
Environmental Qualification of Safety-Related Electrical Equipment - Beta Dose Equipment Qualification

Reference: (1) Letter to S. A. Varga of the NRC from E. R. Mathews of WPSC dated September 21, 1981

(2) Letter to E. R. Mathews of WPSC from S. A. Varga of the NRC dated June 18, 1981

Reference 1 transmitted the WPSC submittal in response to your letter, reference 2. Further, reference 1 delineated a schedule for subsequent submittals. This submittal and the attached data sheets deal with Beta Dose effects on electrical equipment installed in the Primary Containment at the Kewaunee Nuclear Power Plant. The discussion of NRC listed deficiencies previously scheduled for submittal today will be included with the Aging Study report due April 1, 1982 (see enclosure II of reference 1). Several of the attached data sheets indicate replacement of the component with qualified equipment at the earliest possible date.

IE Bulletin 79-01b, entitled "Guidelines for Evaluating Environmental Qualification of Class IE Electrical Equipment in Operating Reactors" (DOR Guidelines), provides the basis for determining any Beta effects contributing to equipment Total Integrated Doses (TID) inside of containment. In particular, Section 4.1.2 of the document provides the results of bounding TID calculations for a dry containment PWR. They are:

Gamma TID: 2×10^7 Rads

Beta TID: 2×10^8 Rads

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An additional criterion in the document stipulates that if it can be shown that the Beta Dose contribution is less than 10% of the qualified gamma TID, the Beta Dose component may be ignored.

Calculation results summarized in the DOR Guidelines indicate that 30 mils of unit density material results in a factor of 10 reduction in the Beta Dose, while 70 mils will produce a factor of 100 reduction.

In general, essential equipment within containment has been qualified to 2×10^7 Rads. For the Kewaunee Plant, this implies that Beta TIDs less than 2×10^6 Rads may be ignored.

Calculations were performed to evaluate the material density thicknesses required to attenuate Beta radiation by a factor of 100. These calculated thicknesses were subsequently compared with the surface materials of the components identified in the equipment list.

All components identified in the attachment have been verified to have sufficient self shielding for an attenuation factor of 100.

We would like to take this opportunity to inform you of a potential schedule problem. Based on an estimate of the lead times of a motor control center and several transmitters, the delivery dates are expected to be just prior to the 1982 refueling outage. We are currently planning the completion of this work during this outage, but any delays of deliveries could make it impractical to do the work during this time. This may jeopardize the June, 1982, deadline.

We will keep you fully informed of our progress toward meeting the established deadline and will notify you should any unforeseen problems develop.

Very truly yours,

E.R. Mathews

E. R. Mathews
Senior Vice President
Power Supply & Engineering

snf

Attach.

cc - Mr. Robert Nelson, NRC Resident Inspector
RR #1, Box 999, Kewaunee, WI 54216

WISCONSIN PUBLIC SERVICE CORPORATION
KEWAUNEE NUCLEAR PLANT

ENVIRONMENTAL QUALIFICATION OF
ELECTRICAL EQUIPMENT
IE BULLETIN 79-01B

SUBMITTED NOVEMBER, 1981

5) USNRC (Washington, D.C.)

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MASTER LIST

TITLE : BETA DOSE EQUIPMENT QUALIFICATION

NOV. 2, 1981

PAGE NUMBER	MANUFACTURER	PLANT ID. NUMBER	MODEL NUMBER	COMPONENT	PRIMARY INSIDE CONTAINMENT	SYSTEM
1	ASCO	33016	8302C4	SOLENOID VALVE	YES	SECONDARY SAMP.
2	ASCO	33030	8316B54	SOLENOID VALVE	YES	PRIMARY SAMPLING
3	ASCO	33124	NP831655E	SOLENOID VALVE	YES	REACTOR BUILDING VENTILATION
4	ASCO	33125	NP8316E35E	SOLENOID VALVE	YES	REACTOR BUILDING VENTILATION
5	ASCO	33126	NP8316E35E	SOLENOID VALVE	YES	REACTOR BUILDING VENTILATION
6	ASCO	33130	NP831655E	SOLENOID VALVE	YES	REACTOR BUILDING VENTILATION
7	ASCO	33131	NP8316E35E	SOLENOID VALVE	YES	REACTOR BUILDING VENTILATION
8	ASCO	33132	NP8316E35E	SOLENOID VALVE	YES	REACTOR BUILDING VENTILATION
9	ASCO	33158	8302C4	SOLENOID VALVE	YES	SECONDARY SAMP.
10	ASCO	33199	831654	SOLENOID VALVE	YES	CHEMICAL & VOL. CONTROL
11	ASCO	33200	831654	SOLENOID VALVE	YES	CHEMICAL & VOL. CONTROL
12	ASCO	33201	831654	SOLENOID VALVE	YES	CHEMICAL & VOL. CONTROL
13	ASCO	33274	8316B54	SOLENOID VALVE	YES	PRIMARY SAMPLING
14	BARTON	23001	384	DP TRANSMITTER	YES	MAIN STEAM
15	BARTON	23002	384	DP TRANSMITTER	YES	MAIN STEAM
16	BARTON	23005	384	DP TRANSMITTER	YES	MAIN STEAM
17	BARTON	23007	384	DP TRANSMITTER	YES	MAIN STEAM
18	BARTON	24029	384	LEVEL TRANSMITTER	YES	EMERGENCY PROCEDURES

LEGEND: # ALSO IN EMERGENCY PROCEDURES; -A AUXILIARY CONTACT; -L LIMIT SWITCH

MASTER LIST

TITLE : BETA DOSE EQUIPMENT QUALIFICATION NOV. 2, 1981

PAGE NUMBER	MANUFACTURER	PLANT ID. NUMBER	MODEL NUMBER	COMPONENT	INSIDE PRIMARY CONTAINMENT	SYSTEM
19	BARTON	24030#	386/351	LEVEL TRANSMITTER	YES	REACTOR COOLANT
20	BARTON	24031#	386/351	LEVEL TRANSMITTER	YES	REACTOR COOLANT
21	BARTON	24032#	386/351	LEVEL TRANSMITTER	YES	REACTOR COOLANT
22	BETTIS	31124-L	RX-321	LIMIT SWITCH	YES	REACTOR BUILDING VENTILATION
23	BETTIS	31124-L	RX-321	LIMIT SWITCHES	YES	ACTIVE STATUS PANEL
24	BETTIS	31126-L	RX-321	LIMIT SWITCH	YES	REACTOR BUILDING VENTILATION
25	BETTIS	31126-L	RX-321	LIMIT SWITCHES (2) ON VALVE OPERATORS	YES	ACTIVE STATUS PANEL
26	BOSTON INSULATE WIRE	BIW-1	BOSTRAD 7	CONTROL CABLE	YES	MISCELLANEOUS
27	CHEVRON	CHE-1	BRB-2 SRI-2	LUBRICATION GREASE	YES	MISCELLANEOUS
28	D. G. O'BRIEN	DGO-1	MVP (#15) K268 PO	ELEC. PENETRATION	YES	MISCELLANEOUS
29	D. G. O'BRIEN	DGO-2	MVP (#16) K268 PO	ELEC. PENETRATION	YES	MISCELLANEOUS
30	D. G. O'BRIEN	DGO-3	CRDP (#18) K268 PO	ELEC. PENETRATION	YES	MISCELLANEOUS
31	D. G. O'BRIEN	DGO-4	NIS (#19) K268 PO	ELEC. PENETRATION	YES	MISCELLANEOUS
32	D. G. O'BRIEN	DGO-5	RM (#23) K268 PO	ELEC. PENETRATION	YES	MISCELLANEOUS
33	D. G. O'BRIEN	DGO-6	I&C (I&C) K268 PO	ELEC. PENETRATION	YES	MISCELLANEOUS
34	FOXBORO	21038	E11GH-1NH 2	PRESSURE TRANSMITTER	YES	EMERGENCY PROCEDURE
35	FOXBORO	21077	E11GH-1NH 2	PRESSURE TRANSMITTER	YES	EMERGENCY PROCEDURE
36	FOXBORO	21078	E13DH-SAH1	DIFFERENTIAL PRESSURE TRANSMITTER ON PRZR	YES	EMERGENCY PROCEDURES
37	FOXBORO	21079#	E11GM-SAE1/MCA	PRESSURE TRANSMITTER	YES	REACTOR COOLANT

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NOV. 2, 1981

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38	FOXBORO	21080#	E11GM-SAE1/MCA	PRESSURE TRANSMITTER	YES	REACTOR COOLANT
39	FOXBORO	21081#	E11GM-SAE1/MCA	PRESSURE TRANSMITTER	YES	REACTOR COOLANT
40	FOXBORO	21082#	E11GM-SAE1/MCA	PRESSURE TRANSMITTER	YES	REACTOR COOLANT
41	FOXBORO	24042	E13DH-SAM1	DP TRANSMITTER	YES	MAIN STEAM
42	FOXBORO	24043	E13DH-SAM1	DP TRANSMITTER	YES	MAIN STEAM
43	FOXBORO	24044	E13DH-SAM1	DP TRANSMITTER	YES	MAIN STEAM
44	FOXBORO	24046	E13DH-SAM1	DP TRANSMITTER	YES	MAIN STEAM
45	FOXBORO	24047	E13DH-SAM1	DP TRANSMITTER	YES	MAIN STEAM
46	FOXBORO	24048	E13DH-SAM1	DP TRANSMITTER	YES	MAIN STEAM
47	GENERAL ELECTRIC	GEN-1	74010/74010A	EPOXY COATING	YES	MISCELLANEOUS
48	GENERAL ELECTRIC	GEN-2	EB5	TERMINAL STRIPS	YES	MISCELLANEOUS
49	KERITE	KER-1	FR INSUL/HTK INSUL	CABLE	YES	MISCELLANEOUS
50	KERITE	KER-2	SEE NOTE A	CABLE SPLICE AND TERMINATION KITS	YES	MISCELLANEOUS
51	LIMITORQUE	32077	SMB-000	MOTOR OPERATOR	YES	MAIN STEAM
52	LIMITORQUE	32077-A	SMB-000	AUX CONTACT IN MOTOR OPERATOR	YES	ACTIVE STATUS PANEL MS
53	LIMITORQUE	32079	SMB-000	MOTOR OPERATOR	YES	MAIN STEAM
54	LIMITORQUE	32079-A	SMB-000	AUX CONTACT IN MOTOR OPERATOR	YES	ACTIVE STATUS PANEL MS
55	LIMITORQUE	32091	SMB-3	MOTOR OPERATOR	YES	SAFETY INJECTION
56	LIMITORQUE	32092	SMB-00	MOTOR	YES	SAFETY INJECTION
57	LIMITORQUE	32092-A	SMB-00	AUX CONTACTS IN VALVE OPERATOR	YES	EMERGENCY PROCEDURE SI

LEGEND: # ALSO IN EMERGENCY PROCEDURES; -A AUXILIARY CONTACT; -L LIMIT SWITCH

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NOV. 2, 1981

PAGE NUMBER	MANUFACTURER	PLANT ID. NUMBER	MODEL NUMBER	COMPONENT	PRIMARY INSIDE CONTAINMENT	SYSTEM
58	LIMITORQUE	32093	SMB-00	MOTOR	YES	SAFETY INJECTION
59	LIMITORQUE	32096	SMB-3	MOTOR	YES	SAFETY INJECTION
60	LIMITORQUE	32097	SMB-00	MOTOR	YES	SAFETY INJECTION
61	LIMITORQUE	32097-A	SMB-00	AUX CONTACTS IN VALVE OPERATOR	YES	EMERGENCY PROCEDURE SI
62	LIMITORQUE	32098	SMB-00	MOTOR	YES	SAFETY INJECTION
63	LIMITORQUE	32100	SMB-1	MOTOR	YES	SAFETY INJECTION
64	LIMITORQUE	32100-A	SMB-1	AUX CONTACT IN MOTOR OPERATOR	YES	ACTIVE STATUS PANEL SI
65	LIMITORQUE	32101	SMB-1	MOTOR	YES	SAFETY INJECTION
66	LIMITORQUE	32101-A	SMB-1	AUX CONTACT IN MOTOR OPERATOR	YES	ACTIVE STATUS PANEL SI
67	LIMITORQUE	32124-A	SMB-00	AUX CONTACT IN MOTOR OPERATOR	YES	ACTIVE STATUS PANEL
68	LIMITORQUE	32124#	SMB-00X	MOTOR	YES	CHEMICAL & VOL. CONTROL
69	LIMITORQUE	32145	SMB-000	MV	YES	POST LOCA H2
70	LIMITORQUE	32146	SMB-000	MV	YES	POST LOCA H2
71	MAGNETROL	16695	A-153 FEPTDM	LEVL INDICATOR/ALARM	YES	RESIDUAL HEAT REMOVAL SYSTEM
72	MAGNETROL	16696	A-153 FEPTDM	LEVEL INDICATOR/ ALARM	YES	RESIDUAL HEAT REMOVAL SYSTEM
73	NAMCO	31111-L	D-2400X	LIMIT SWITCH	YES	EMERGENCY PROCEDURES
74	NAMCO	31112-L	D-2400X	LIMIT SWITCH	YES	EMERGENCY PROCEDURES
75	NAMCO	31231-L	EA-180	LIMIT SWITCH	YES	CHEMICAL & VOL. CONTROL

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NOV. 2, 1981

PAGE NUMBER	MANUFACTURER	PLANT ID. NUMBER	MODEL NUMBER	COMPONENT	PRIMARY INSIDE CONTAINMENT	SYSTEM
76	NAMCO	31231-L	EA 180	LIMIT SWITCHES	YES	ACTIVE STATUS PANEL
77	NAMCO	31232-L	EA-180	LIMIT SWITCH	YES	CHEMICAL & VOL. CONTROL
78	NAMCO	31232-L	EA 180	LIMIT SWITCHES	YES	ACTIVE STATUS PANEL
79	NAMCO	31233-L	EA-180	LIMIT SWITCH	YES	CHEMICAL & VOL. CONTROL
80	NAMCO	31233-L	EA 180	LIMIT SWITCHES	YES	ACTIVE STATUS PANEL
81	NAMCO	31263-L#	EA 180	LIMIT SWITCHES	YES	PRIMARY SAMPLING
82	NAMCO	31264-L#	EA 180	LIMIT SWITCHES	YES	PRIMARY SAMPLING
83	NAMCO	31265-L	D-2400	LIMIT SWITCHES	YES	EMERGENCY PROCEDURE
84	NAMCO	31270-L	EA-180	LIMIT SWITCHES	YES	SECONDARY SAMP.
85	NAMCO	31270-L	EA 180	LIMIT SWITCHES	YES	ACTIVE STATUS PANEL
86	NAMCO	31334-L	EA-180	LIMIT SWITCH	YES	SECONDARY SAMP.
87	NAMCO	31334-L	EA 180	LIMIT SWITCHES	YES	ACTIVE STATUS PANEL
88	NEBULA	NEB-1	E550-EP-1	GREASE	YES	MISCELLANEOUS
89	OKONITE	OKO-1	OKONITE-OKOPRENE	CABLE	YES	MISCELLANEOUS
90	OKONITE	OKO-2	T-95	CABLE SPLICE AND TERMINATION KITS	YES	MISCELLANEOUS
91	RELIANCE	1-120	TYPE N	MOTOR	YES	REACTOR BUILDING VENTILATION
92	RELIANCE	1-121	TYPE N	MOTOR	YES	REACTOR BUILDING VENTILATION

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PAGE NUMBER	MANUFACTURER	PLANT ID. NUMBER	MODEL NUMBER	COMPONENT	INSIDE PRIMARY CONTAINMENT	SYSTEM
93	RELIANCE	1-156	TYPE N	MOTOR	YES	REACTOR BUILDING VENTILATION
94	RELIANCE	1-157	TYPE N	MOTOR	YES	REACTOR BUILDING VENTILATION
95	RELIANCE	1-583	TYPE N	MOTOR	YES	REACTOR BUILDING VENTILATION
96	RELIANCE	1-584	TYPE N	MOTOR	YES	REACTOR BUILDING VENTILATION
97	SOSTMAN CO.	15061	11834B-1	RTD	YES	REACTOR COOLANT
98	SOSTMAN CO.	15062	11834B-1	RTD	YES	REACTOR COOLANT
99	SOSTMAN CO.	15066	11834B-1	RTD	YES	REACTOR COOLANT
100	SOSTMAN CO.	15067	11834B-1	RTD	YES	REACTOR COOLANT
101	SOSTMAN CO.	15071	11834B-1	RTD	YES	REACTOR COOLANT
102	SOSTMAN CO.	15072	11834B-1	RTD	YES	REACTOR COOLANT
103	SOSTMAN CO.	15076	11834B-1	RTD	YES	REACTOR COOLANT
104	SOSTMAN CO.	15077	11834B-1	RTD	YES	REACTOR COOLANT
105	VALCOR	33092	V52630-5292-17	SOLENOID VALVE	YES	PRIMARY SAMPLING

LEGEND: # ALSO IN EMERGENCY PROCEDURES; -A AUXILIARY CONTACT; -L LIMIT SWITCH

SYSTEM COMPONENT EVALUATION WORKSHEET

10/30/81
REVISED 11/02/81

UNIT: KEWAUNEE

DOCKET: 50-305

HARSH: YES (T,P,H,CS,R)

EQUIPMENT DESCRIPTION	PARAMETERS	ENVIRONMENT SPECIFICATION	ENVIRONMENT QUALIFICATION	DOCUMENTATION REF. * SPEC.	DOCUMENTATION REF. * QUALIF.	QUAL. METHOD	OUTSTANDING ITEMS
SYSTEM: SECONDARY SAMP.	OPERATIONAL TIME	30 DAYS	NOTE A	4E	NOTE A	NOTE A	NONE
PLANT ID NO: 33016 COMPONENT: SOLENOID VALVE	TEMPERATURE DEG. F.	293	NOTE A	1	NOTE A	NOTE A	NONE
MANUFACTURER: ASCO	PRESSURE PSIA	60.7	NOTE A	2,3	NOTE A	NOTE A	NONE
MODEL NUMBER: 8302C4	RELATIVE HUMIDITY PCT	100%	NOTE A	2	NOTE A	NOTE A	NONE
FUNCTION: VALVE CONTROL SV	CHEMICAL SPRAY	PH = 8.0 2324 PPM BA 30 WT% NAOH	NOTE A	4,5	NOTE A	NOTE A	NONE
SERVICE: S/G 1B SAMPLING ISOL SV	RADIATION RADS	5E7 GAMMA 2E6 BETA	NOTE A	2,6,7,8	NOTE A	NOTE A	NONE
LOCATION: @CV-31270 GRID 6/75/611 RX BLDG	AGING	NOTE A	NOTE A	NOTE A	NOTE A	NOTE A	NONE
FLOOD LEVEL ELEV: 600' ABOVE FLOOD LEVEL: YES	SUBMERGENCE	NOT REQUIRED	N/A	9	N/A	N/A	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY

NOTES:

A) SCHEDULED FOR REPLACEMENT WITH QUALIFIED SOLENOID VALVE.

33016
SS

SYSTEM COMPONENT EVALUATION WORKSHEET

UNIT: KEWAUNEE

10/30/81
REVISED 11/02/81

DOCKET: 50-305

HARSH: YES (T,P,H,CS,R)

EQUIPMENT DESCRIPTION	PARAMETERS	ENVIRONMENT SPECIFICATION	ENVIRONMENT QUALIFICATION	DOCUMENTATION REF.* SPEC.	DOCUMENTATION REF.* QUALIF.	QUAL. METHOD	OUTSTANDING ITEMS
SYSTEM: PRIMARY SAMPLING	OPERATIONAL TIME	30 DAYS	NOTE A	46	NOTE A	NOTE A	NONE
PLANT ID NO: 33030 COMPONENT: SOLENOID VALVE	TEMPERATURE DEG. F.	293	NOTE A	1	NOTE A	NOTE A	NONE
MANUFACTURER: ASCO	PRESSURE PSIA	60.7	NOTE A	2,3	NOTE A	NOTE A	NONE
MODEL NUMBER: 8316B54	RELATIVE HUMIDITY PCT	100%	NOTE A	2	NOTE A	NOTE A	NONE
FUNCTION: VALVE CONTROL SV	CHEMICAL SPRAY	PH = 8.0 2324 PPM BA 30 WT% NAOH	NOTE A	4,5	NOTE A	NOTE A	NONE
SERVICE: CNTMT. ISOL. PRZR LIQ SAMPLING ISOL CV SV	RADIATION RADS	5E7 GAMMA 2E6 BETA	NOTE A	2,6,7,8	NOTE A	NOTE A	NONE
LOCATION: @CV-31264 GRID 23/122/631 RX BLDG	AGING	NOTE A	NOTE A	NOTE A	NOTE A	NOTE A	NONE
FLOOD LEVEL ELEV: 600 ABOVE FLOOD LEVEL: YES	SUBMERGENCE	NOT REQUIRED	N/A	9	N/A	N/A	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY

NOTES:

A) SCHEDULED FOR REPLACEMENT WITH QUALIFIED SOLENOID VALVE.

33030
PS

SYSTEM COMPONENT EVALUATION WORKSHEET

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SYSTEM: REACTOR BUILDING VENTILATION	OPERATIONAL TIME	30 DAYS	30 DAYS	46	57	TYPE TEST	NONE
PLANT ID NO: 33124 COMPONENT: SOLENOID VALVE	TEMPERATURE DEG. F.	293	300	1	57	TYPE TEST	NONE
MANUFACTURER: ASCO	PRESSURE PSIA	60.7	84.7	2,3	57	TYPE TEST	NONE
MODEL NUMBER: NP831655E	RELATIVE HUMIDITY PCT	100%	100%	2	57	TYPE TEST	NONE
FUNCTION: VALVE CONTROL	CHEMICAL SPRAY	PH = 8.0 2324 PPM BA 30 WT% NAOH	PH-10.5	4,5	57	TYPE TEST	NONE
SERVICE: CONTAINMENT ISOL. OUTSIDE VESSEL EXH CV INLET SV	RADIATION RADS	5E7 GAMMA 2E6 BETA	1.5E8 GAMMA >2E6 BETA	2,6,7,8	57,101	TEST/ANALY	NONE
LOCATION: @CV-31124 GRID. 2.5/103/666 RX BUILDING	AGING	4.4 YEARS	4.4 YEARS	8	57	TYPE TEST	NONE
FLOOD LEVEL ELEV: 600' ABOVE FLOOD LEVEL: YES	SUBMERGENCE	NOT REQUIRED	N/A	9	N/A	N/A	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY

NOTES:

33124
RBV

SYSTEM COMPONENT EVALUATION WORKSHEET

10/30/81
REVISED 11/02/81

UNIT: KEWAUNEE

DOCKET: 50-305

HARSH: YES (T,P,H,CS,R)

EQUIPMENT DESCRIPTION	PARAMETERS	ENVIRONMENT SPECIFICATION	ENVIRONMENT QUALIFICATION	DOCUMENTATION REF. * SPEC.	DOCUMENTATION REF. * QUALIF.	QUAL. METHOD	OUTSTANDING ITEMS
SYSTEM: REACTOR BUILDING VENTILATION	OPERATIONAL TIME	30 DAYS	30 DAYS	46	57	TYPE TEST	NONE
PLANT ID NO: 33125	TEMPERATURE DEG. F.	293	300	1	57	TYPE TEST	NONE
COMPONENT: SOLENOID VALVE	PRESSURE PSIA	60.7	84.7	2,3	57	TYPE TEST	NONE
MANUFACTURER: ASCO							
MODEL NUMBER: NP8316E35E	RELATIVE HUMIDITY PCT	100%	100%	2	57	TYPE TEST	NONE
FUNCTION: VALVE CONTROL	CHEMICAL SPRAY	PH = 8.0 2324 PPM BA 30 WT% NAOH	PH-10.5	4,5	57	TYPE TEST	NONE
SERVICE: CONTAINMENT ISOL. INSIDE VESSEL EXH CV INLET SV	RADIATION RADS	5E7 GAMMA 2E6 BETA	1.5E8 GAMMA >2E6 BETA	2,6,7,8	57,101	TEST/ANALY	NONE
LOCATION: @CV-31124 GRID. 2.5/103/666 RX BUILDING	AGING	4.4 YEARS	4.4 YEARS	8	57	TYPE TEST	NONE
FLOOD LEVEL ELEV: 600' ABOVE FLOOD LEVEL: YES	SUBMERGENCE	NOT REQUIRED	N/A	9	N/A	N/A	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY

NOTES:

33125
RBV

SYSTEM COMPONENT EVALUATION WORKSHEET

10/30/81
REVISED 11/02/81

UNIT: KEWAUNEE

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SYSTEM: REACTOR BUILDING VENTILATION	OPERATIONAL TIME	30 DAYS	30 DAYS	66	57	TYPE TEST	NONE
PLANT ID NO: 33126	TEMPERATURE DEG. F.	293	300	1	57	TYPE TEST	NONE
COMPONENT: SOLENOID VALVE	PRESSURE PSIA	60.7	84.7	2,3	57	TYPE TEST	NONE
MANUFACTURER: ASCO							
MODEL NUMBER: NP8316E35E	RELATIVE HUMIDITY PCT	100%	100%	2	57	TYPE TEST	NONE
FUNCTION: VALVE CONTROL	CHEMICAL SPRAY	PH = 8.0 2324 PPM BA 30 WT% NAOH	PH-10.5	4,5	57	TYPE TEST	NONE
SERVICE: CONTAINMENT ISOL. INSIDE VESSEL EXH CV VENT SV	RADIATION RADS	5E7 GAMMA 2E6 BETA	1.5E8 GAMMA >2E6 BETA	2,6,7,8	57,101	TEST/ANALY	NONE
LOCATION: @CV-31124 GRID. 2.5/103/666 RX BUILDING	AGING	4.4 YEARS	4.4 YEARS	8	57	TYPE TEST	NONE
FLOOD LEVEL ELEV: 600' ABOVE FLOOD LEVEL: YES	SUBMERGENCE	NOT REQUIRED	N/A	9	N/A	N/A	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY

NOTES:

33126
RBV

SYSTEM COMPONENT EVALUATION WORKSHEET

10/30/81
REVISED 11/02/81

UNIT: KEWAUNEE

DOCKET: 50-305

HARSH: YES (T,P,H,CS,R,)

EQUIPMENT DESCRIPTION	PARAMETERS	ENVIRONMENT SPECIFICATION	ENVIRONMENT QUALIFICATION	DOCUMENTATION REF. * SPEC.	DOCUMENTATION REF. * QUALIF.	QUAL. METHOD	OUTSTANDING ITEMS
SYSTEM: REACTOR BUILDING VENTILATION	OPERATIONAL TIME	30 DAYS	30 DAYS	46	57	TYPE TEST	NONE
PLANT ID NO: 33130 COMPONENT: SOLENOID VALVE	TEMPERATURE DEG. F.	293	300	1	57	TYPE TEST	NONE
MANUFACTURER: ASCO	PRESSURE PSIA	60.7	84.7	2,3	57	TYPE TEST	NONE
MODEL NUMBER: NP831655E	RELATIVE HUMIDITY PCT	100%	100%	2	57	TYPE TEST	NONE
FUNCTION: VALVE CONTROL	CHEMICAL SPRAY	PH = 8.0 2324 PPM BA 30 WT% NAOH	PH = 10.5	4,5	57	TYPE TEST	NONE
SERVICE: CONTIANMENT ISOL. INSIDE VESSEL SPLY CV INLET SV	RADIATION RADS	5E7 GAMMA 2E6 BETA	1.5E8 GAMMA >2E6 BETA	2,6,7,8	57,101	TEST/ANALY	NONE
LOCATION: @CV-31126 GRID 2.5/109/666 RX BLDG	AGING	4.4 YEARS	4.4 YEARS	8	57	TYPE TEST	NONE
FLOOD LEVEL ELEV: 600' ABOVE FLOOD LEVEL: YES	SUBMERGENCE	NOT REQUIRED	N/A	9	N/A	N/A	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY

NOTES:

33130
RBV

SYSTEM COMPONENT EVALUATION WORKSHEET

10/30/81
REVISED 11/02/81

UNIT: KEWAUNEE

DOCKET: 50-305

HARSH: YES (T,P,H,CS,R)

EQUIPMENT DESCRIPTION	PARAMETERS	ENVIRONMENT SPECIFICATION	ENVIRONMENT QUALIFICATION	DOCUMENTATION REF. * SPEC.	DOCUMENTATION REF. * QUALIF.	QUAL. METHOD	OUTSTANDING ITEMS
SYSTEM: REACTOR BUILDING VENTILATION	OPERATIONAL TIME	30 DAYS	30 DAYS	46	57	TYPE TEST	NONE
PLANT ID NO: 33131 COMPONENT: SOLENOID VALVE	TEMPERATURE DEG. F.	293	300	1	57	TYPE TEST	NONE
MANUFACTURER: ASCO	PRESSURE PSIA	60.7	84.7	2,3	57	TYPE TEST	NONE
MODEL NUMBER: NP8316E35E	RELATIVE HUMIDITY PCT	100%	100%	2	57	TYPE TEST	NONE
FUNCTION: VALVE CONTROL	CHEMICAL SPRAY	PH = 8.0 2324 PPM BA 30 WT% NAOH	PH = 10.5	4,5	57	TYPE TEST	NONE
SERVICE: CONTAINMENT ISOL. INSIDE VESSEL SUPPLY CV VENT SV	RADIATION RADS	5E7 GAMMA 2E6 BETA	1.5E8 GAMMA >2E6 BETA	2,6,7,8	57,101	TEST/ANALY	NONE
LOCATION: @CV-31126 GRID 2.5/109/666 RX BLDG	AGING	4.4 YEARS	4.4 YEARS	8	57	TYPE TEST	NONE
FLOOD LEVEL ELEV: 600' ABOVE FLOOD LEVEL: YES	SUBMERGENCE	NOT REQUIRED	N/A	9	N/A	N/A	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY

NOTES:

33131
3BV

SYSTEM COMPONENT EVALUATION WORKSHEET

10/30/81
REVISED 11/02/81

UNIT: KEWAUNEE

DOCKET: 50-305

HARSH: YES (T,P,H,CS,R)

EQUIPMENT DESCRIPTION	PARAMETERS	ENVIRONMENT SPECIFICATION	ENVIRONMENT QUALIFICATION	DOCUMENTATION REF. * SPEC.	DOCUMENTATION REF. * QUALIF.	QUAL. METHOD	OUTSTANDING ITEMS
SYSTEM: REACTOR BUILDING VENTILATION	OPERATIONAL TIME	30 DAYS	30 DAYS	46	57	TYPE TEST	NONE
PLANT ID NO: 33132	TEMPERATURE DEG. F.	293	300	1	57	TYPE TEST	NONE
COMPONENT: SOLENOID VALVE	PRESSURE PSIA	60.7	84.7	2,3	57	TYPE TEST	NONE
MANUFACTURER: ASCO							
MODEL NUMBER: NP8316E35E	RELATIVE HUMIDITY PCT	100%	100%	2	57	TYPE TEST	NONE
FUNCTION: VALVE CONTROL	CHEMICAL SPRAY	PH = 8.0 2324 PPM BA 30 WT% NAOH	PH = 10.5	4,5	57	TYPE TEST	NONE
SERVICE: CONTAINMENT ISOL. INSIDE VESSEL SUPPLY CV VENT SV	RADIATION RADS	5E7 GAMMA 2E6 BETA	1.5E8 GAMMA >2E6 BETA	2,6,7,8	57,101	TEST/ANALY	NONE
LOCATION: @CV-31126 GRID 2.5/109/666 RX BLDG	AGING	4.4 YEARS	4.4 YEARS	8	57	TYPE TEST	NONE
FLOOD LEVEL ELEV: 600' ABOVE FLOOD LEVEL: YES	SUBMERGENCE	NOT REQUIRED	N/A	9	N/A	N/A	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY

NOTES:

33132
RBV

SYSTEM COMPONENT EVALUATION WORKSHEET

10/30/81
REVISED 11/02/81

UNIT: KEWAUNEE

DOCKET: 50-305

HARSH: YES (T,P,H,CS,R)

EQUIPMENT DESCRIPTION	PARAMETERS	ENVIRONMENT SPECIFICATION	ENVIRONMENT QUALIFICATION	DOCUMENTATION REF. * SPEC.	DOCUMENTATION REF. * QUALIF.	QUAL. METHOD	OUTSTANDING ITEMS
SYSTEM: SECONDARY SAMP.	OPERATIONAL TIME	30 DAYS	NOTE A	46	NOTE A	NOTE A	NONE
PLANT ID NO: 33158 COMPONENT: SOLENOID VALVE	TEMPERATURE DEG. F.	293	NOTE A	1	NOTE A	NOTE A	NONE
MANUFACTURER: ASCO	PRESSURE PSIA	60.7	NOTE A	2,3	NOTE A	NOTE A	NONE
MODEL NUMBER: 8302C4	RELATIVE HUMIDITY PCT	100%	NOTE A	2	NOTE A	NOTE A	NONE
FUNCTION: VALVE CONTROL SV	CHEMICAL SPRAY	PH = 8.0 2324 PPM BA 30 WT% NAOH	NOTE A	4,5	NOTE A	NOTE A	NONE
SERVICE: S/G 1A SAMPLING ISOL SV	RADIATION RADS	5E7 GAMMA 2E6 BETA	NOTE A	2,6,7,8	NOTE A	NOTE A	NONE
LOCATION: @CV-31334 GRID 6/75/611 RX BLDG	AGING	NOTE A	NOTE A	NOTE A	NOTE A	NOTE A	NONE
FLOOD LEVEL ELEV: 600' ABOVE FLOOD LEVEL: YES	SUBMERGENCE	NOT REQUIRED	N/A	9	N/A	N/A	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY

NOTES:

A) SCHEDULED FOR REPLACEMENT WITH QUALIFIED SOLENOID VALVE.

33158
SS

SYSTEM COMPONENT EVALUATION WORKSHEET

10/30/81
REVISED 11/02/81

UNIT: KEWAUNEE

DOCKET: 50-305

HARSH: YES (T,P,H,CS,R,S)

EQUIPMENT DESCRIPTION	PARAMETERS	ENVIRONMENT SPECIFICATION	ENVIRONMENT QUALIFICATION	DOCUMENTATION REF. * SPEC.	DOCUMENTATION REF. * QUALIF.	QUAL. METHOD	OUTSTANDING ITEMS
SYSTEM: CHEMICAL & VOL. CONTROL	OPERATIONAL TIME	30 DAYS	NOTE A	46	NOTE A	NOTE A	NONE
PLANT ID NO: 33199	TEMPERATURE DEG. F.	293	NOTE A	1	NOTE A	NOTE A	NONE
COMPONENT: SOLENOID VALVE	PRESSURE PSIA	60.7	NOTE A	2, 3	NOTE A	NOTE A	NONE
MANUFACTURER: ASCO							
MODEL NUMBER: 831654	RELATIVE HUMIDITY PCT	100%	NOTE A	2	NOTE A	NOTE A	NONE
FUNCTION: CONTAINMENT ISOLATION	CHEMICAL SPRAY	PH = 8.0 2324 PPM BA 30 WT % NAOH	NOTE A	4, 5	NOTE A	NOTE A	NONE
SERVICE: REG HT EXGR OUTL LTDN ORIF STOP SV 1A	RADIATION RADS	5E7 GAMMA 2E6 BETA	NOTE A	2,6,7,8	NOTE A	NOTE A	NONE
LOCATION: @CV-31231 GRID 7/320/596 RX BLDG.	AGING	NOTE A	NOTE A	NOTE A	NOTE A	NOTE A	NONE
FLOOD LEVEL ELEV: 600' ABOVE FLOOD LEVEL: NO	SUBMERGENCE	REQUIRED	NOTE B	9	NOTE B	NOTE B	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY

NOTES:

A) SCHEDULED FOR REPLACEMENT WITH QUALIFIED SOLENOID VALVE.
B) SUBMERGENCE WILL CAUSE THE SOLENOID VALVE (33199) TO FAIL TO "VENT" POSITION THEREFORE CAUSING THE ASSOCIATED CONTROL VALVE (CV-31231) TO FAIL CLOSED WHICH IS THE DESIGN POSITION FOR THE ACCIDENT.

33199
CVC

SYSTEM COMPONENT EVALUATION WORKSHEET

10/30/81
REVISED 11/02/81

UNIT: KEWAUNEE

DOCKET: 50-305

HARSH: YES (T,P,H,CS,B,S)

EQUIPMENT DESCRIPTION	PARAMETERS	ENVIRONMENT SPECIFICATION	ENVIRONMENT QUALIFICATION	DOCUMENTATION REF. * SPEC.	DOCUMENTATION REF. * QUALIF.	QUAL. METHOD	OUTSTANDING ITEMS
SYSTEM: CHEMICAL & VOL. CONTROL	OPERATIONAL TIME	30 DAYS	NOTE A	46	NOTE A	NOTE A	NONE
PLANT ID NO: 33200 COMPONENT: SOLENOID VALVE	TEMPERATURE DEG. F.	293	NOTE A	1	NOTE A	NOTE A	NONE
MANUFACTURER: ASCO	PRESSURE PSIA	60.7	NOTE A	2, 3	NOTE A	NOTE A	NONE
MODEL NUMBER: 831654	RELATIVE HUMIDITY PCT	100%	NOTE A	2	NOTE A	NOTE A	NONE
FUNCTION: CONTAINMENT ISOLATION	CHEMICAL SPRAY	PH = 8.0 2324 PPM BA 30 WT % NAOH	NOTE A	4, 5	NOTE A	NOTE A	NONE
SERVICE: REG HT EXGR OUTL LTDN ORIF STOP SV 1B	RADIATION RADS	5E7 GAMMA 2E6 BETA	NOTE A >2E6 BETA	2, 6, 7, 8	NOTE A	NOTE A	NONE
LOCATION: @CV-31232 GRID 9/320/596 RX BLDG.	AGING	NOTE A	NOTE A	NOTE A	NOTE A	NOTE A	NONE
FLOOD LEVEL ELEV: 600' ABOVE FLOOD LEVEL: NO	SUBMERGENCE	REQUIRED	NOTE B	9	NOTE B	NOTE B	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY

NOTES:

A) SCHEDULED FOR REPLACEMENT WITH QUALIFIED SOLENOID VALVE.
B) SUBMERGENCE WILL CAUSE THE SOLENOID VALVE (33200) TO FAIL TO "VENT" POSITION THEREFORE CAUSING THE ASSOCIATED CONTROL VALVE (CV-31232) TO FAIL CLOSED WHICH IS THE DESIGN POSITION FOR THE ACCIDENT.

33200
CVC

SYSTEM COMPONENT EVALUATION WORKSHEET

10/30/81
REVISED 11/02/81

UNIT: KEWAUNEE

DOCKET: 50-305

HARSH: YES (T,P,H,CS,R,S)

EQUIPMENT DESCRIPTION	PARAMETERS	ENVIRONMENT SPECIFICATION	ENVIRONMENT QUALIFICATION	DOCUMENTATION REF. * SPEC.	DOCUMENTATION REF. * QUALIF.	QUAL. METHOD	OUTSTANDING ITEMS
SYSTEM: CHEMICAL & VOL. CONTROL	OPERATIONAL TIME	30 DAYS	NOTE A	46	NOTE A	NOTE A	NONE
PLANT ID NO: 33201	TEMPERATURE DEG. F.	293	NOTE A	1	NOTE A	NOTE A	NONE
COMPONENT: SOLENOID VALVE	PRESSURE PSIA	60.7	NOTE A	2, 3	NOTE A	NOTE A	NONE
MANUFACTURER: ASCO							
MODEL NUMBER: 831654	RELATIVE HUMIDITY PCT	100%	NOTE A	2	NOTE A	NOTE A	NONE
FUNCTION: CONTAINMENT ISOLATION	CHEMICAL SPRAY	PH = 8.0 2324 PPM BA 30 WT % NAOH	NOTE A	4, 5	NOTE A	NOTE A	NONE
SERVICE: REG HT EXGR OUTLT LTDN ORIF STOP SV 1A	RADIATION RADS	5E7 GAMMA 2E6 BETA	NOTE A >2E6 BETA	2, 6, 7, 8	NOTE A	NOTE A	NONE
LOCATION: @CV-31233 GRID 11/320/596 RX BLDG.	AGING	NOTE A	NOTE A	NOTE A	NOTE A	NOTE A	NONE
FLOOD LEVEL ELEV: 600' ABOVE FLOOD LEVEL: NO	SUBMERGENCE	REQUIRED	NOTE B	9	NOTE B	NOTE B	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY

NOTES:

A) SCHEDULED FOR REPLACEMENT WITH QUALIFIED SOLENOID VALVE.
B) SUBMERGENCE WILL CAUSE THE SOLENOID VALVE (33201) TO FAIL TO "VENT" POSITION THEREFORE CAUSING THE ASSOCIATED CONTROL VALVE (CV-31233) TO FAIL CLOSED WHICH IS THE DESIGN POSITION FOR THE ACCIDENT.

33201
CVC

SYSTEM COMPONENT EVALUATION WORKSHEET

10/30/81
REVISED 11/02/81

UNIT: KEWAUNEE

DOCKET: 50-305

HARSH: YES (T,P,H,CS,R)

EQUIPMENT DESCRIPTION	PARAMETERS	ENVIRONMENT SPECIFICATION	ENVIRONMENT QUALIFICATION	DOCUMENTATION REF. * SPEC.	DOCUMENTATION REF. * QUALIF.	QUAL. METHOD	OUTSTANDING ITEMS
SYSTEM: PRIMARY SAMPLING	OPERATIONAL TIME	30 DAYS	NOTE A	46	NOTE A	NOTE A	NONE
PLANT ID NO: 33274 COMPONENT: SOLENOID VALVE	TEMPERATURE DEG. F.	293	NOTE A	1	NOTE A	NOTE A	NONE
MANUFACTURER: ASCO	PRESSURE PSIA	60.7	NOTE A	2,3	NOTE A	NOTE A	NONE
MODEL NUMBER: 8316B54	RELATIVE HUMIDITY PCT	100%	NOTE A	2	NOTE A	NOTE A	NONE
FUNCTION: VALVE CONTROL SV	CHEMICAL SPRAY	PH = 8.0 2324 PPM BA 30 WT% NAOH	NOTE A	4,5	NOTE A	NOTE A	NONE
SERVICE: CNTMT. ISOL. PRZR STM SAMPLING ISOL CV SV	RADIATION RADS	5E7 GAMMA 2E6 BETA	NOTE A >2E6 BETA	2,6,7,8	NOTE A	NOTE A	NONE
LOCATION: @CV-31263 GRID 17 105 646 REAC. BLDG.	AGING	NOTE A	NOTE A	NOTE A	NOTE A	NOTE A	NONE
FLOOD LEVEL ELEV: 600 ABOVE FLOOD LEVEL: YES	SUBMERGENCE	NOT REQUIRED	N/A	9	N/A	N/A	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY

NOTES:

A) SCHEDULED FOR REPLACEMENT WITH QUALIFIED SOLENOID VALVE.

33274
PS

SYSTEM COMPONENT EVALUATION WORKSHEET

10/30/81
REVISED 11/02/81

UNIT: KEWAUNEE

DOCKET: 50-305

HARSH: YES (T,P,H,CS,R)

EQUIPMENT DESCRIPTION	PARAMETERS	ENVIRONMENT SPECIFICATION	ENVIRONMENT QUALIFICATION	DOCUMENTATION REF. * SPEC.	DOCUMENTATION REF. * QUALIF.	QUAL. METHOD	OUTSTANDING ITEMS
SYSTEM: MAIN STEAM	OPERATIONAL TIME	2 HOURS	NOTE A	70	NOTE A	NOTE A	NONE
PLANT ID NO: 23001 COMPONENT: DP TRANSMITTER	TEMPERATURE DEG. F.	293	NOTE A	1	NOTE A	NOTE A	NONE
MANUFACTURER: BARTON	PRESSURE PSIA	60.7	NOTE A	2,3	NOTE A	NOTE A	NONE
MODEL NUMBER: 384	RELATIVE HUMIDITY PCT	100%	NOTE A	2	NOTE A	NOTE A	NONE
FUNCTION: FLOW TRANSMITTER	CHEMICAL SPRAY	PH = 80 2324 PPM BA 30 WT% NAOH	NOTE A	4,5	NOTE A	NOTE A	NONE
SERVICE: MS FROM S/G 1A F XMTR	RADIATION RADS	5E7 GAMMA 2E6 BETA	NOTE A	2,6,7,8	NOTE A	NOTE A	NONE
LOCATION: ON W WALL GRID. 6.5/278/654 RX BLDG	AGING	NOTE A	NOTE A	NOTE A	NOTE A	NOTE A	NONE
FLOOD LEVEL ELEV: 600' ABOVE FLOOD LEVEL: YES	SUBMERGENCE	NOT REQUIRED	N/A	9	N/A	N/A	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY

NOTES:

A) TO BE REPLACED WITH QUALIFIED MODEL.

23001
MS

SYSTEM COMPONENT EVALUATION WORKSHEET

10/30/81
REVISED 11/02/81

UNIT: KEWAUNEE

DOCKET: 50-305

HARSH: YES (T,P,H,CS,R)

EQUIPMENT DESCRIPTION	PARAMETERS	ENVIRONMENT SPECIFICATION	ENVIRONMENT QUALIFICATION	DOCUMENTATION REF. * SPEC.	DOCUMENTATION REF. * QUALIF.	QUAL. METHOD	OUTSTANDING ITEMS
SYSTEM: MAIN STEAM	OPERATIONAL TIME	2 HOURS	NOTE A	70	NOTE A	NOTE A	NONE
PLANT ID NO: 23002 COMPONENT: DP TRANSMITTER	TEMPERATURE DEG. F.	293	NOTE A	1	NOTE A	NOTE A	NONE
MANUFACTURER: BARTON	PRESSURE PSIA	60.7	NOTE A	2,3	NOTE A	NOTE A	NONE
MODEL NUMBER: 384	RELATIVE HUMIDITY PCT	100%	NOTE A	2	NOTE A	NOTE A	NONE
FUNCTION: FLOW TRANSMITTER	CHEMICAL SPRAY	PH = 80 2324 PPM BA 30 WT% NAOH	NOTE A	4,5	NOTE A	NOTE A	NONE
SERVICE: MS FROM S/G 1B F XMTR	RADIATION RADS	5E7 GAMMA 2E6 BETA	NOTE A	2,6,7,8	NOTE A	NOTE A	NONE
LOCATION: ON SE WALL GRID. 16.5/112/654 RX BLDG	AGING	NOTE A	NOTE A	NOTE A	NOTE A	NOTE A	NONE
FLOOD LEVEL ELEV: 600' ABOVE FLOOD LEVEL: YES	SUBMERGENCE	NOT REQUIRED	N/A	9	N/A	N/A	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY

NOTES:

A) TO BE REPLACED WITH QUALIFIED MODEL.

23002
MS

SYSTEM COMPONENT EVALUATION WORKSHEET

10/30/81
REVISED 11/02/81

UNIT: KEWAUNEE

DOCKET: 50-305

HARSH: YES (T,P,H,CS,R)

EQUIPMENT DESCRIPTION	PARAMETERS	ENVIRONMENT SPECIFICATION	ENVIRONMENT QUALIFICATION	DOCUMENTATION REF. * SPEC.	DOCUMENTATION REF. * QUALIF.	QUAL. METHOD	OUTSTANDING ITEMS
SYSTEM: MAIN STEAM	OPERATIONAL TIME	2 HOURS	NOTE A	70	NOTE A	NOTE A	NONE
PLANT ID NO: 23005 COMPONENT: DP TRANSMITTER	TEMPERATURE DEG. F.	293	NOTE A	1	NOTE A	NOTE A	NONE
MANUFACTURER: BARTON	PRESSURE PSIA	60.7	NOTE A	2,3	NOTE A	NOTE A	NONE
MODEL NUMBER: 384	RELATIVE HUMIDITY PCT	100%	NOTE A	2	NOTE A	NOTE A	NONE
FUNCTION: FLOW TRANSMITTER	CHEMICAL SPRAY	PH = 80 2324 PPM BA 30 WT% NAOH	NOTE A	4,5	NOTE A	NOTE A	NONE
SERVICE: MS FROM S/G 1A F XMTR	RADIATION RADS	5E7 GAMMA 2E6 BETA	NOTE A	2,6,7,8	NOTE A	NOTE A	NONE
LOCATION: RACK @ S/G 1A GRID. 8/265/654 RX BLDG	AGING	NOTE A	NOTE A	NOTE A	NOTE A	NOTE A	NONE
FLOOD LEVEL ELEV: 600' ABOVE FLOOD LEVEL: YES	SUBMERGENCE	NOT REQUIRED	N/A	9	N/A	N/A	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY

NOTES:

A) TO BE REPLACED WITH QUALIFIED MODEL.

23005
MS

SYSTEM COMPONENT EVALUATION WORKSHEET

10/30/81
REVISED 11/02/81

UNIT: KEWAUNEE

DOCKET: 50-305

HARSH: YES (T,P,H,CS,R)

EQUIPMENT DESCRIPTION	PARAMETERS	ENVIRONMENT SPECIFICATION	ENVIRONMENT QUALIFICATION	DOCUMENTATION REF. * SPEC.	DOCUMENTATION REF. * QUALIF.	QUAL. METHOD	OUTSTANDING ITEMS
SYSTEM: MAIN STEAM	OPERATIONAL TIME	2 HOURS	NOTE A	70	NOTE A	NOTE A	NONE
PLANT ID NO: 23007 COMPONENT: DP TRANSMITTER	TEMPERATURE DEG. F.	293	NOTE A	1	NOTE A	NOTE A	NONE
	PRESSURE PSIA	60.7	NOTE A	2,3	NOTE A	NOTE A	NONE
MANUFACTURER: BARTON MODEL NUMBER: 384	RELATIVE HUMIDITY PCT	100%	NOTE A	2	NOTE A	NOTE A	NONE
FUNCTION: FLOW TRANSMITTER	CHEMICAL SPRAY	PH = 80 2324 PPM BA 30 WT% NAOH	NOTE A	4,5	NOTE A	NOTE A	NONE
SERVICE: MS FROM S/G 1B F XMTR	RADIATION RADS	5E7 GAMMA 2E6 BETA	NOTE A	2,6,7,8	NOTE A	NOTE A	NONE
LOCATION: ON SE WALL GRID. 16.5/115/654 RX BLDG	AGING	NOTE A	NOTE A	NOTE A	NOTE A	NOTE A	NONE
FLOOD LEVEL ELEV: 600' ABOVE FLOOD LEVEL: YES	SUBMERGENCE	NOT REQUIRED	N/A	9	N/A	N/A	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY

NOTES:

A) TO BE REPLACED WITH QUALIFIED MODEL.

23007
MS

SYSTEM COMPONENT EVALUATION WORKSHEET

10/30/81
REVISED 11/02/81

UNIT: KEWAUNEE

DOCKET: 50-305

HARSH: YES (T,P,H,CS,R)

EQUIPMENT DESCRIPTION	PARAMETERS	ENVIRONMENT SPECIFICATION	ENVIRONMENT QUALIFICATION	DOCUMENTATION REF. * SPEC.	DOCUMENTATION REF. * QUALIF.	QUAL. METHOD	OUTSTANDING ITEMS
SYSTEM: EMERGENCY PROCEDURES	OPERATIONAL TIME	30 MIN	NOTE A	2	NOTE A	NOTE A	NONE
PLANT ID NO: 24029	TEMPERATURE DEG. F.	293	NOTE A	1	NOTE A	NOTE A	NONE
COMPONENT: LEVEL TRANSMITTER	PRESSURE PSIA	60.7	NOTE A	2,3	NOTE A	NOTE A	NONE
MANUFACTURER: BARTON							
MODEL NUMBER: 384	RELATIVE HUMIDITY PCT	100%	NOTE A	2	NOTE A	NOTE A	NONE
FUNCTION: LEVEL INDICATION ON PRZR L COLD	CHEMICAL SPRAY	PH = 8.0 NAOH 30% WT. 2324 PPM BA	NOTE A	4,5	NOTE A	NOTE A	NONE
SERVICE: CONTROL ROOM INDICATION	RADIATION RADS	5E7 GAMMA 2E6 BETA	NOTE A	2,6,7,8	NOTE A	NOTE A	NONE
LOCATION: IN RACK 4 GRID 24/108/611 RX BLDG	AGING	NOTE A	NOTE A	NOTE A	NOTE A	NOTE A	NONE
FLOOD LEVEL ELEV: 600 ABOVE FLOOD LEVEL: YES	SUBMERGENCE	NOT REQUIRED	N/A	9	N/A	N/A	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY

NOTES:

A) STUDY IN PROGRESS BY ROBERTS ENGINEERING SERVICE.

24029
EP

SYSTEM COMPONENT EVALUATION WORKSHEET

10/30/81
REVISED 11/02/81

UNIT: KEWAUNEE

DOCKET: 50-305

HARSH: YES (T,P,H,CS,R)

EQUIPMENT DESCRIPTION	PARAMETERS	ENVIRONMENT SPECIFICATION	ENVIRONMENT QUALIFICATION	DOCUMENTATION REF. * SPEC.	DOCUMENTATION REF. * QUALIF.	QUAL. METHOD	OUTSTANDING ITEMS
SYSTEM: REACTOR COOLANT	OPERATIONAL TIME	30 MIN	NOTE A	2	NOTE A	NOTE A	NONE
PLANT ID NO: 24030# COMPONENT: LEVEL TRANSMITTER	TEMPERATURE DEG. F.	293	NOTE A	1	NOTE A	NOTE A	NONE
MANUFACTURER: BARTON	PRESSURE PSIA	60.7	NOTE A	2,3	NOTE A	NOTE A	NONE
MODEL NUMBER: 386/351	RELATIVE HUMIDITY PCT	100%	NOTE A	2	NOTE A	NOTE A	NONE
FUNCTION: LEVEL TRANSMITTER ON PRZR-1C	CHEMICAL SPRAY	PH = 8.0 NAOH 30% WT. 2324 PPM BA	NOTE A	4,5	NOTE A	NOTE A	NONE
SERVICE: PRESSURIZER LEVEL	RADIATION RADS	5E7 GAMMA 2E6 BETA	NOTE A	2,6,7,8	NOTE A	NOTE A	NONE
LOCATION: IN RACK 3 GRID 29/123/611 RX BLDG	AGING	NOTE A	NOTE A	NOTE A	NOTE A	NOTE A	NONE
FLOOD LEVEL ELEV: 600 ABOVE FLOOD LEVEL: YES	SUBMERGENCE	NOT REQUIRED	N/A	9	N/A	N/A	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY

NOTES:

A) TO BE REPLACED WITH QUALIFIED MODEL.

24030
RC

SYSTEM COMPONENT EVALUATION WORKSHEET

10/30/81
REVISED 11/02/81

UNIT: KEWAUNEE

DOCKET: 50-305

HARSH: YES (T,P,H,CS,R)

EQUIPMENT DESCRIPTION	PARAMETERS	ENVIRONMENT SPECIFICATION	ENVIRONMENT QUALIFICATION	DOCUMENTATION REF. * SPEC.	DOCUMENTATION REF. * QUALIF.	QUAL. METHOD	OUTSTANDING ITEMS
SYSTEM: REACTOR COOLANT	OPERATIONAL TIME	30 MIN	NOTE A	2	NOTE A	NOTE A	NONE
PLANT ID NO: 24031# COMPONENT: LEVEL TRANSMITTER	TEMPERATURE DEG. F.	293	NOTE A	1	NOTE A	NOTE A	NONE
MANUFACTURER: BARTON	PRESSURE PSIA	60.7	NOTE A	2,3	NOTE A	NOTE A	NONE
MODEL NUMBER: 386/351	RELATIVE HUMIDITY PCT	100%	NOTE A	2	NOTE A	NOTE A	NONE
FUNCTION: LEVEL TRANSMITTER CN PRZR-1B	CHEMICAL SPRAY	PH = 8.0 NAOH 30% WT. 2324 PPM BA	NOTE A	4,5	NOTE A	NOTE A	NONE
SERVICE: PRESSURIZER LEVEL	RADIATION RADS	5E7 GAMMA 2E6 BETA	NOTE A	2,6,7,8	NOTE A	NOTE A	NONE
LOCATION: IN RACK 2 GRID 13/112/611 RX BLDG	AGING	NOTE A	NOTE A	NOTE A	NOTE A	NOTE A	NONE
FLOOD LEVEL ELEV: 600 ABOVE FLOOD LEVEL: YES	SUBMERGENCE	NOT REQUIRED	N/A	9	N/A	N/A	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY

NOTES:

A) TO BE REPLACED WITH QUALIFIED MODEL.

24031
RC

SYSTEM COMPONENT EVALUATION WORKSHEET

10/30/81
REVISED 11/02/81

UNIT: KEWAUNEE

DOCKET: 50-305

HARSH: YES (T,P,H,CS,R)

EQUIPMENT DESCRIPTION	PARAMETERS	ENVIRONMENT SPECIFICATION	ENVIRONMENT QUALIFICATION	DOCUMENTATION REF. * SPEC.	DOCUMENTATION REF. * QUALIF.	QUAL. METHOD	OUTSTANDING ITEMS
SYSTEM: REACTOR COOLANT	OPERATIONAL TIME	30 MIN	NOTE A	2	NOTE A	NOTE A	NONE
PLANT ID NO: 24032#	TEMPERATURE DEG. F.	293	NOTE A	1	NOTE A	NOTE A	NONE
COMPONENT: LEVEL TRANSMITTER	PRESSURE PSIA	60.7	NOTE A	2,3	NOTE A	NOTE A	NONE
MANUFACTURER: BARTON							
MODEL NUMBER: 386/351	RELATIVE HUMIDITY PCT	100%	NOTE A	2	NOTE A	NOTE A	NONE
FUNCTION: LEVEL TRANSMITTER ON PRZR-1A	CHEMICAL SPRAY	PH = 8.0 NAOH 30% WT. 2324 PPM BA	NOTE A	4,5	NOTE A	NOTE A	NONE
SERVICE: PRESSURIZER LEVEL	RADIATION RADS	5E7 GAMMA 2E6 BETA	NOTE A	2,6,7,8	NOTE A	NOTE A	NONE
LOCATION: IN RACK 1 GRID 17/98/611 RX BLDG	AGING	NOTE A	NOTE A	NOTE A	NOTE A	NOTE A	NONE
FLOOD LEVEL ELEV: 600 ABOVE FLOOD LEVEL: YES	SUBMERGENCE	NOT REQUIRED	N/A	9	N/A	N/A	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY

NOTES:

A) TO BE REPLACED WITH QUALIFIED MODEL.

24032
RC

SYSTEM COMPONENT EVALUATION WORKSHEET

10/30/81
REVISED 11/02/81

UNIT: KEWAUNEE

DOCKET: 50-305

HARSH: YES (T,P,H,CS,R)

EQUIPMENT DESCRIPTION	PARAMETERS	ENVIRONMENT SPECIFICATION	ENVIRONMENT QUALIFICATION	DOCUMENTATION REF. * SPEC.	DOCUMENTATION REF. * QUALIF.	QUAL. METHOD	OUTSTANDING ITEMS
SYSTEM: REACTOR BUILDING VENTILATION	OPERATIONAL TIME	30 DAYS	NOTE A	46	NOTE A	NOTE A	NONE
PLANT ID NO: 31124-L COMPONENT: LIMIT SWITCH	TEMPERATURE DEG. F.	293	NOTE A	1	NOTE A	NOTE A	NONE
MANUFACTURER: BETTIS	PRESSURE PSIA	60.7	NOTE A	2,3	NOTE A	NOTE A	NONE
MODEL NUMBER: RX-321	RELATIVE HUMIDITY PCT	100%	NOTE A	2	NOTE A	NOTE A	NONE
FUNCTION: CONTROL	CHEMICAL SPRAY	PH = 8.0 2324 PPM BA 30 WT% NAOH	NOTE A	4,5	NOTE A	NOTE A	NONE
SERVICE: CONTAINMENT ISOLATION INSIDE VESSEL EXH CV	RADIATION RADS	5E7 GAMMA 2E6 BETA	NOTE A	2,6,7,8	NOTE A	NOTE A	NONE
LOCATION: CN EXHT. LINE GRID. 2.5/103/666 RX BLDG.	AGING	NOTE A	NOTE A	NOTE A	NOTE A	NOTE A	NONE
FLOOD LEVEL ELEV: 600 ABOVE FLOOD LEVEL: YES	SUBMERGENCE	NOT REQUIRED	N/A	9	N/A	N/A	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY

NOTES:

A) TO BE REPLACED WITH QUALIFIED MODEL.

31124-L
RBV

SYSTEM COMPONENT EVALUATION WORKSHEET

10/30/81
REVISED 11/02/81

UNIT: KEWAUNEE

DOCKET: 50-305

HARSH: YES (T,P,H,CS,R)

EQUIPMENT DESCRIPTION	PARAMETERS	ENVIRONMENT SPECIFICATION	ENVIRONMENT QUALIFICATION	DOCUMENTATION REF. * SPEC.	DOCUMENTATION REF. * QUALIF.	QUAL. METHOD	OUTSTANDING ITEMS
SYSTEM: ACTIVE STATUS PANEL	OPERATIONAL TIME	30 DAYS	NOTE A	46	NOTE A	NOTE A	NONE
PLANT ID NO: 31124-L COMPONENT: LIMIT SWITCHES	TEMPERATURE DEG. F.	293	NOTE A	1	NOTE A	NOTE A	NONE
MANUFACTURER: BETTIS	PRESSURE PSIA	60.7	NOTE A	2,3	NOTE A	NOTE A	NONE
MODEL NUMBER: RX-321	RELATIVE HUMIDITY PCT	100%	NOTE A	2	NOTE A	NOTE A	NONE
FUNCTION: CNTMT ISOL VLV RBV 3	CHEMICAL SPRAY	PH = 8.0 NAOH 30% WT. 2324 PPM BA	NOTE A	4,5	NOTE A	NOTE A	NONE
SERVICE: CONTROL ROOM ANNUNCIATION	RADIATION RADS	5E7 GAMMA 2E6 BETA	NOTE A	2,6,7,8	NOTE A	NOTE A	NONE
LOCATION: GN EXHT LINE GRID 2.5/103/666 RX BLDG	AGING	NOTE A	NOTE A	NOTE A	NOTE A	NOTE A	NONE
FLOOD LEVEL ELEV: 600 ABOVE FLOOD LEVEL: YES	SUBMERGENCE	NOT REQUIRED	N/A	9	N/A	N/A	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY

NOTES:

A) TO BE REPLACED WITH QUALIFIED MODEL.

449110403
ASP

SYSTEM COMPONENT EVALUATION WORKSHEET

10/30/81
REVISED 11/02/81

UNIT: KEWAUNEE

DOCKET: 50-305

HARSH: YES (T,P,H,CS,R)

EQUIPMENT DESCRIPTION	PARAMETERS	ENVIRONMENT SPECIFICATION	ENVIRONMENT QUALIFICATION	DOCUMENTATION REF. * SPEC.	DOCUMENTATION REF. * QUALIF.	QUAL. METHOD	OUTSTANDING ITEMS
SYSTEM: REACTOR BUILDING VENTILATION	OPERATIONAL TIME	30 DAYS	NOTE A	46	NOTE A	NOTE A	NONE
PLANT ID NO: 31126-L COMPONENT: LIMIT SWITCH	TEMPERATURE DEG. F.	293	NOTE A	1	NOTE A	NOTE A	NONE
MANUFACTURER: BETTIS	PRESSURE PSIA	60.7	NOTE A	2,3	NOTE A	NOTE A	NONE
MODEL NUMBER: RX-321	RELATIVE HUMIDITY PCT	100%	NOTE A	2	NOTE A	NOTE A	NONE
FUNCTION: CONTROL	CHEMICAL SPRAY	PH = 8.0 2324 PPM BA 30 WT% NAOH	NOTE A	4,5	NOTE A	NOTE A	NONE
SERVICE: CONTAINMENT ISOL. INSIDE VESSEL SPLY CV	RADIATION RADS	5E7 GAMMA 2E6 BETA	NOTE A	2,6,7,8	NOTE A	NOTE A	NONE
LOCATION: ON SUPPLY LINE GRID 2.5/109/660 RX BLDG	AGING	NOTE A	NOTE A	NOTE A	NOTE A	NOTE A	NONE
FLOOD LEVEL ELEV: 600 ABOVE FLOOD LEVEL: YES	SUBMERGENCE	NOT REQUIRED	N/A	9	N/A	N/A	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY

NOTES:

A) TO BE REPLACED WITH QUALIFIED MODEL.

31126-L
RBV

SYSTEM COMPONENT EVALUATION WORKSHEET

10/30/81
REVISED 11/02/81

UNIT: KEWAUNEE

DOCKET: 50-305

HARSH: YES (T,P,H,CS,R)

EQUIPMENT DESCRIPTION	PARAMETERS	ENVIRONMENT SPECIFICATION	ENVIRONMENT QUALIFICATION	DOCUMENTATION REF. * SPEC.	DOCUMENTATION REF. * QUALIF.	QUAL. METHOD	OUTSTANDING ITEMS
SYSTEM: ACTIVE STATUS PANEL	OPERATIONAL TIME	30 DAYS	NOTE A	46	NOTE A	NOTE A	NONE
PLANT ID NO: 31126-L COMPONENT: LIMIT SWITCHES (2) ON VALVE OPERATORS	TEMPERATURE DEG. F.	293	NOTE A	1	NOTE A	NOTE A	NONE
MANUFACTURER: BETTIS	PRESSURE PSIA	60.7	NOTE A	2,3	NOTE A	NOTE A	NONE
MODEL NUMBER: BX-321	RELATIVE HUMIDITY PCT	100%	NOTE A	2	NOTE A	NOTE A	NONE
FUNCTION: CNTMT ISOL VLV RBV 2	CHEMICAL SPRAY	PH = 8.0 NAOH 30% WT. 2324 PPM BA	NOTE A	4,5	NOTE A	NOTE A	NONE
SERVICE: CONTROL ROOM ANNUNCIATION	RADIATION RADS	5E7 GAMMA 2E6 BETA	NOTE A	2,6,7,8	NOTE A	NOTE A	NONE
LOCATION: ON SUPPLY LINE GRID 2.5/109/660 RX BLDG	AGING	NOTE A	NOTE A	NOTE A	NOTE A	NOTE A	NONE
FLOOD LEVEL ELEV: 600 ABOVE FLOOD LEVEL: YES	SUBMERGENCE	NOT REQUIRED	N/A	9	N/A	N/A	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY

NOTES:

A) TO BE REPLACED WITH QUALIFIED MODEL.

449110402
ASP

SYSTEM COMPONENT EVALUATION WORKSHEET

10/30/81
REVISED 11/02/81

UNIT: KEWAUNEE

DOCKET: 50-305

HARSH: YES (T,P,H,CS,R,S)

EQUIPMENT DESCRIPTION	PARAMETERS	ENVIRONMENT SPECIFICATION	ENVIRONMENT QUALIFICATION	DOCUMENTATION REF. * SPEC.	DOCUMENTATION REF. * QUALIF.	QUAL. METHOD	OUTSTANDING ITEMS
SYSTEM: MISCELLANEOUS	OPERATIONAL TIME	1 YEAR	1 YEAR	35	93,94	TYPE TEST	NONE
PLANT ID NO: BIW-1 COMPONENT: CONTROL CABLE	TEMPERATURE DEG. F.	293	300	1	12	SIMULT	NONE
MANUFACTURER: BOSTON INSULATE WIRE	PRESSURE PSIA	60.7	65	2,3	12	SIMULT	NONE
MODEL NUMBER: BOSTRAD 7	RELATIVE HUMIDITY PCT	100%	100%	2	12	SIMULT	NONE
FUNCTION: ELECTRICAL POWER SERVICE:	CHEMICAL SPRAY	PH = 8.0 2324 PPM BA 30% WT NAOH	PH = 4.1-10.0	4,5	13,74	SEQUENT	NONE
	RADIATION RADS	5E7 GAMMA 2E6 BETA	1E8 GAMMA >2E6 BETA	2,6,7,8	13,74,101	TEST/ANALY	NONE
LOCATION: RX BLDG & AUX BLDG	AGING	40 YEARS	40 YEARS	2	12	SEPARATE	NONE
FLOOD LEVEL ELEV: 600 ABOVE FLOOD LEVEL: NO	SUBMERGENCE	REQUIRED	TESTED	9	12,74	SEPARATE	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY

NOTES:

SYSTEM COMPONENT EVALUATION WORKSHEET

10/30/81
REVISED 11/02/81

UNIT: KEWAUNEE

DOCKET: 50-305

HARSH: YES (T,P,H,CS,R,S)

EQUIPMENT DESCRIPTION	PARAMETERS	ENVIRONMENT SPECIFICATION	ENVIRONMENT QUALIFICATION	DOCUMENTATION REF. * SPEC.	DOCUMENTATION REF. * QUALIF.	QUAL. METHOD	OUTSTANDING ITEMS
SYSTEM: MISCELLANEOUS	OPERATIONAL TIME	1 YEAR	1 YEAR	35	16	SIMULT	NONE
PLANT ID NO: CHE-1 COMPONENT: LUBRICATION GREASE	TEMPERATURE DEG. F.	293	350	1	17	SEPARATE	NONE
MANUFACTURER: CHEVRON	PRESSURE PSIA	60.7	89.7	2,3	16	SIMULT	NONE
MODEL NUMBER: BRB-2 SRI-2	RELATIVE HUMIDITY PCT	100%	100%	2	16	SIMULT	NONE
FUNCTION: LUBRICATION	CHEMICAL SPRAY	PH = 8.0 2324 PPM BA 30% WT NAOH	PH = 9.5	4,5	16	SEPARATE	NONE
SERVICE: FAN MOTORS	RADIATION RADS	5E7 GAMMA 2E6 BETA	2E8 GAMMA >2E6 BETA	2,6,7,8	17,101	TEST/ANALY	NONE
LOCATION: RX BLDG	AGING	N/A	N/A	N/A	N/A	N/A	NONE
FLOOD LEVEL ELEV: 600 ABOVE FLOOD LEVEL: YES	SUBMERGENCE	NOT REQUIRED	N/A	9	N/A	N/A	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY

NOTES:

ENGINEERING EVALUATION(THIS GREASE IS USED IN THE CONTAINMENT FAN COIL UNITS AND THE DOME VENTILATION FANS (LISTED IN THE RBV SECTION) AND HAS BEEN QUALIFIED ALONG WITH THEM. AGING DOES NOT APPLY SINCE IT IS CHANGED ON A REGULAR BASIS.

CHE-1
MISC

SYSTEM COMPONENT EVALUATION WORKSHEET

10/30/81
REVISED 11/02/81

UNIT: KEWAUNEE

DOCKET: 50-305

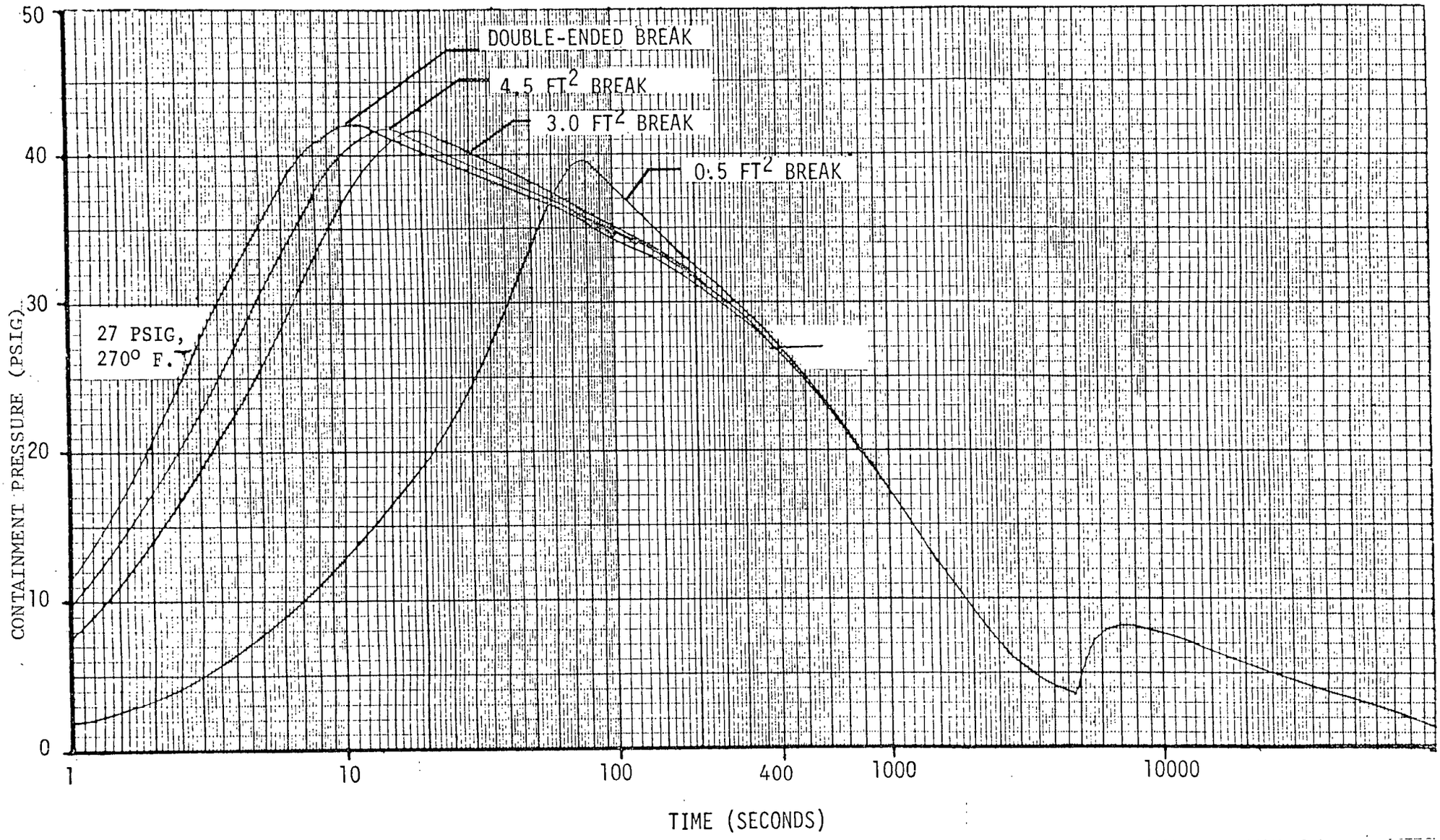
HARSH: YES (T,P,H,CS,R)

EQUIPMENT DESCRIPTION	PARAMETERS	ENVIRONMENT SPECIFICATION	ENVIRONMENT QUALIFICATION	DOCUMENTATION REF. * SPEC.	DOCUMENTATION REF. * QUALIF.	QUAL. METHOD	OUTSTANDING ITEMS
SYSTEM: MISCELLANEOUS	OPERATIONAL TIME	1 YEAR	NOTE A	45	NOTE A	NOTE A	NONE
PLANT ID NO: DGO-1 COMPONENT: ELEC. PENETRATION	TEMPERATURE DEG. F.	293	NOTE B	1	NOTE B	NOTE B	NONE
MANUFACTURER: D. G. O'BRIEN	PRESSURE PSIA	60.7	66.7	2,3	24	SIMULT	NONE
MODEL NUMBER: MVP (#15) K268 PO	RELATIVE HUMIDITY PCT	100%	100%	2	24	SIMULT	NONE
FUNCTION: ELEC. CONNECTIONS	CHEMICAL SPRAY	PH = 8.0 2324 PPM BA 30% WT NAOH	PH = 9.5	4,5	25	E.A.	NONE
SERVICE: VARIOUS	RADIATION RADS	5E7 GAMMA 2E6 BETA	3E8 GAMMA >2E6 BETA	2,6,7,8	26,101	TEST/ANALY	NONE
LOCATION: RX BLDG & AUX BLDG	AGING	40 YEARS	NOTE A	2	NOTE A	NOTE A	NONE
FLOOD LEVEL ELEV: 600 ABOVE FLOOD LEVEL: YES	SUBMERGENCE	NOT REQUIRED	N/A	9	N/A	N/A	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY

NOTES:

E.A. = ENGINEERING ANALYSIS.
A) STUDY IN PROGRESS BY EDS NUCLEAR, INC.
B) TESTED TO 270 F. THE ATTACHED SATURATION TEMPERATURE PROFILE EXCEEDS TEST TEMP. FOR LESS THAN 7 MINUTES.



CONTAINMENT PRESSURE TRANSIENT

SYSTEM COMPONENT EVALUATION WORKSHEET

10/30/81
REVISED 11/02/81

UNIT: KEWAUNEE

DOCKET: 50-305

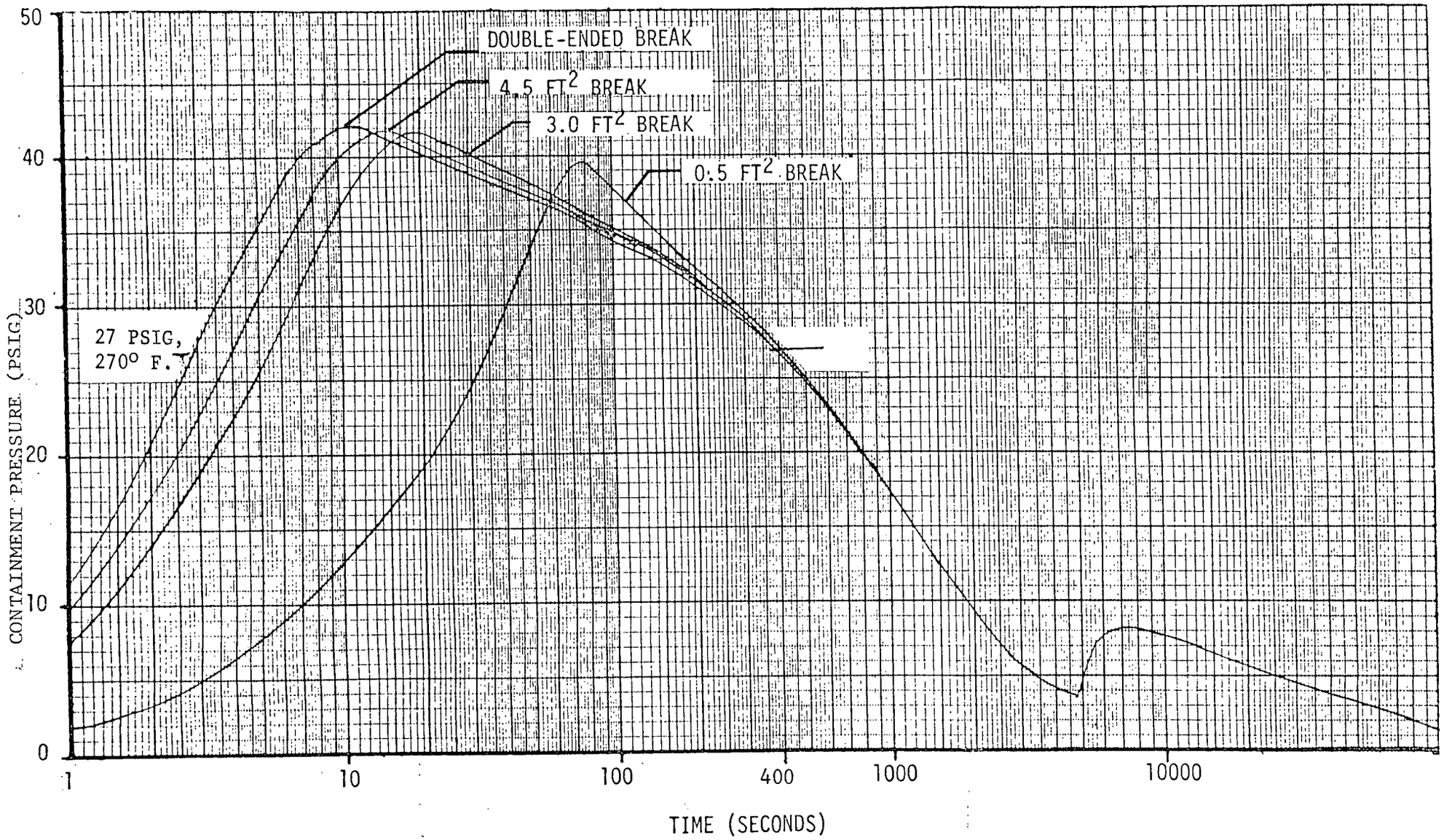
HARSH: YES (T,P,H,CS,R)

EQUIPMENT DESCRIPTION	PARAMETERS	ENVIRONMENT SPECIFICATION	ENVIRONMENT QUALIFICATION	DOCUMENTATION REF. * SPEC.	DOCUMENTATION REF. * QUALIF.	QUAL. METHOD	OUTSTANDING ITEMS
SYSTEM: MISCELLANEOUS	OPERATIONAL TIME	1 YEAR	NOTE A	45	NOTE A	NOTE A	NONE
PLANT ID NO: DGO-2 COMPONENT: ELEC. PENETRATION	TEMPERATURE DEG. F.	293	NOTE B	1	NOTE B	NOTE B	NONE
MANUFACTURER: D. G. O'BRIEN	PRESSURE PSIA	60.7	66.7	2,3	27	SIMULT	NONE
MODEL NUMBER: MVP (#16) K268 PO	RELATIVE HUMIDITY PCT	100%	100%	2	27	SIMULT	NONE
FUNCTION: ELEC. CONNECTIONS	CHEMICAL SPRAY	PH = 8.0 2324 PPM BA 30% WT NAOH	PH = 9.5	4,5	25	E.A.	NONE
SERVICE: VARIOUS	RADIATION RADS	5E7 GAMMA 2E6 BETA	3E8 GAMMA >2E6 BETA	2,6,7,8	26,101	TEST/ANALY	NONE
LOCATION: RX BLDG & AUX BLDG	AGING	40 YEARS	NOTE A	2	NOTE A	NOTE A	NONE
FLOOD LEVEL ELEV: 600 ABOVE FLOOD LEVEL: YES	SUBMERGENCE	NOT REQUIRED	N/A	9	N/A	N/A	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY

NOTES:

E.A. = ENGINEERING ANALYSIS.
A) STUDY IN PROGRESS BY EDS NUCLEAR, INC.
B) TESTED TO 270 F. THE ATTACHED SATURATION TEMPERATURE PROFILE EXCEEDS TEST TEMP. FOR LESS THAN 7 MINUTES.



CONTAINMENT PRESSURE TRANSIENT

SYSTEM COMPONENT EVALUATION WORKSHEET

10/30/81
REVISED 11/02/81

UNIT: KEWAUNEE

DOCKET: 50-305

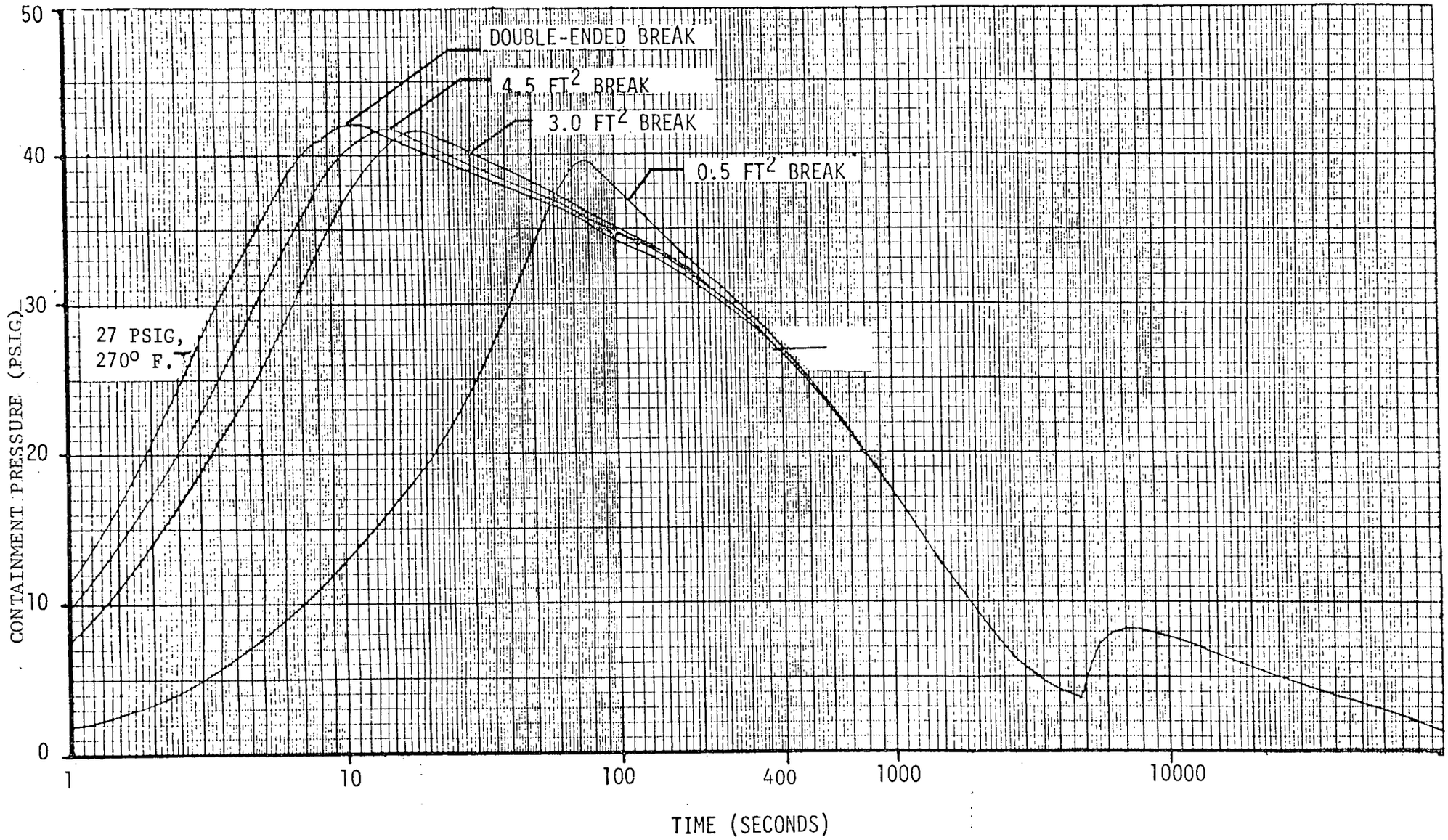
HARSH: YES (T,P,H,CS,R)

EQUIPMENT DESCRIPTION	PARAMETERS	ENVIRONMENT SPECIFICATION	ENVIRONMENT QUALIFICATION	DOCUMENTATION REF. * SPEC.	DOCUMENTATION REF. * QUALIF.	QUAL. METHOD	OUTSTANDING ITEMS
SYSTEM: MISCELLANEOUS	OPERATIONAL TIME	1 YEAR	NOTE A	45	NOTE A	NOTE A	NONE
PLANT ID NO: DGO-3 COMPONENT: ELEC. PENETRATION	TEMPERATURE DEG. F.	293	NOTE B	1	NOTE B	NOTE B	NONE
MANUFACTURER: D. G. O'BRIEN	PRESSURE PSIA	60.7	66.7	2,3	28	E.A.	NONE
MODEL NUMBER: CRDP (#18) K268 PO	RELATIVE HUMIDITY PCT	100%	100%	2	29	E.A.	NONE
FUNCTION: ELEC. CONNECTIONS	CHEMICAL SPRAY	PH = 8.0 2324 PPM BA 30% WT NAOH	PH = 9.5	4,5	30	E.A.	NONE
SERVICE: VARIOUS	RADIATION RADS	5E7 GAMMA 2E6 BETA	3E8 GAMMA >2E6 BETA	2,6,7,8	25,101	TEST/ANALY	NONE
LOCATION: RX BLDG & AUX BLDG	AGING	40 YEARS	NOTE A	2	NOTE A	NOTE A	NONE
FLOOD LEVEL ELEV: 600 ABOVE FLOOD LEVEL: YES	SUBMERGENCE	NOT REQUIRED	N/A	9	N/A	N/A	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY

NOTES:

E.A. = ENGINEERING ANALYSIS.
A) STUDY IN PROGRESS BY EDS NUCLEAR, INC.
B) TESTED TO 270 F. THE ATTACHED SATURATION TEMPERATURE PROFILE EXCEEDS TEST TEMP. FOR LESS THAN 7 MINUTES.



CONTAINMENT PRESSURE TRANSIENT

SYSTEM COMPONENT EVALUATION WORKSHEET

10/30/81
REVISED 11/02/81

UNIT: KEWAUNEE

DOCKET: 50-305

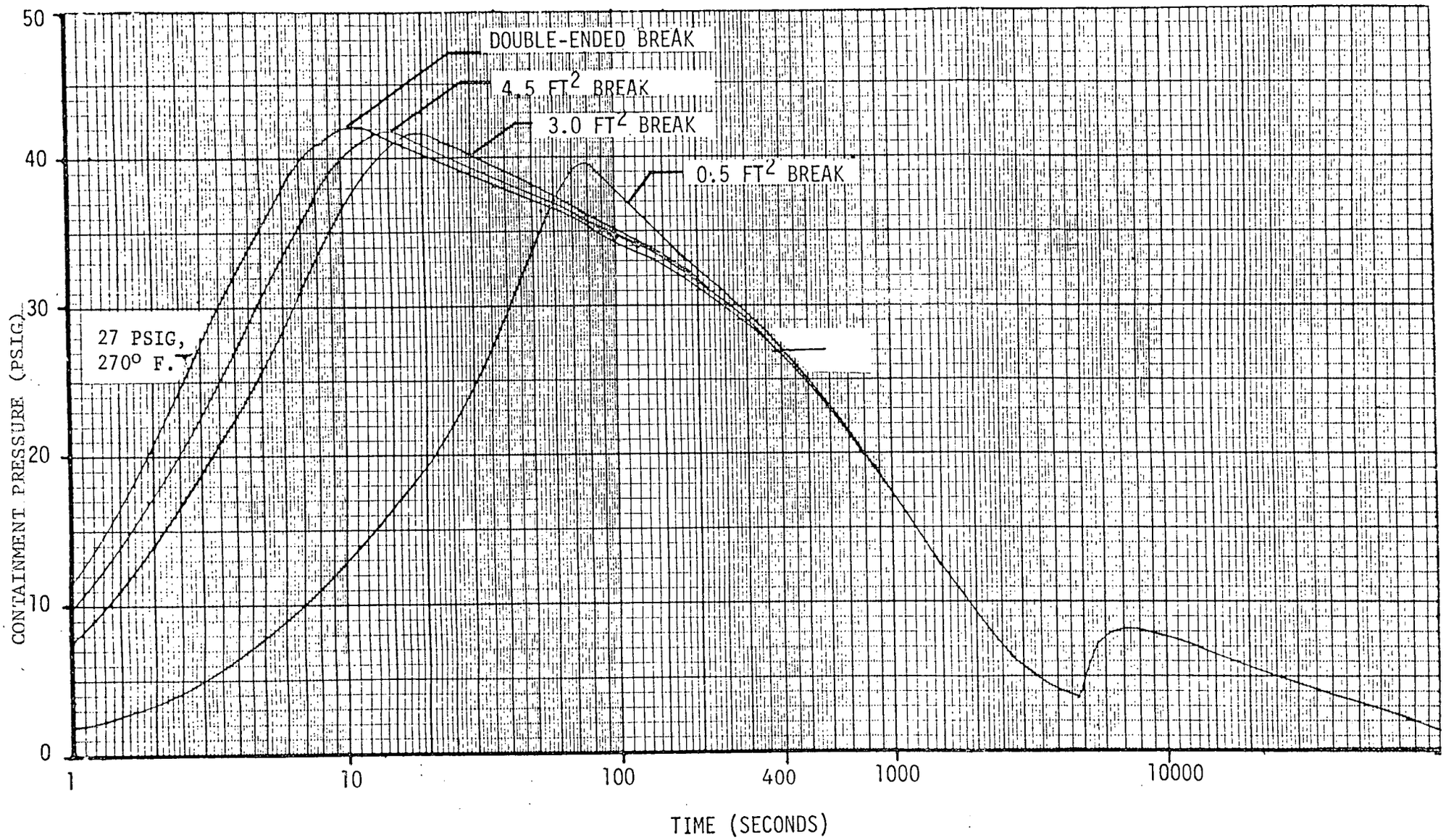
HARSH: YES (T,P,H,CS,R)

EQUIPMENT DESCRIPTION	PARAMETERS	ENVIRONMENT SPECIFICATION	ENVIRONMENT QUALIFICATION	DOCUMENTATION REF. * SPEC.	DOCUMENTATION REF. * QUALIF.	QUAL. METHOD	OUTSTANDING ITEMS
SYSTEM: MISCELLANEOUS	OPERATIONAL TIME	1 YEAR	NOTE A	45	NOTE A	NOTE A	NONE
PLANT ID NO: DGO-4 COMPONENT: ELEC. PENETRATION	TEMPERATURE DEG. F.	293	NOTE B	1	NOTE B	NOTE B	NONE
MANUFACTURER: D. G. O'BRIEN	PRESSURE PSIA	60.7	66.7	2,3	31	SIMULT	NONE
MODEL NUMBER: NIS (#19) K268 PO	RELATIVE HUMIDITY PCT	100%	100%	2	31	SIMULT	NONE
FUNCTION: ELEC. CONNECTIONS	CHEMICAL SPRAY	PH = 8.0 2324 PPM BA 30% WT NAOH	PH = 9.5	4,5	31	E.A.	NONE
SERVICE: VARIOUS	RADIATION RADS	5E7 GAMMA 2E6 BETA	3E8 GAMMA >2E6 BETA	2,6,7,8	25,101	TEST/ANALY	NONE
LOCATION: RX BLDG & AUX BLDG	AGING	40 YEARS	NOTE A	2	NOTE A	NOTE A	NONE
FLOOD LEVEL ELEV: 600 ABOVE FLOOD LEVEL: YES	SUBMERGENCE	NOT REQUIRED	N/A	9	N/A	N/A	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY

NOTES:

E.A. = ENGINEERING ANALYSIS.
A) STUDY IN PROGRESS BY EDS NUCLEAR, INC.
B) TESTED TO 270 F. THE ATTACHED SATURATION TEMPERATURE PROFILE EXCEEDS TEST TEMP. FOR LESS THAN 7 MINUTES.



CONTAINMENT PRESSURE TRANSIENT

SYSTEM COMPONENT EVALUATION WORKSHEET

10/30/81
REVISED 11/02/81

UNIT: KEWAUNEE

DOCKET: 50-305

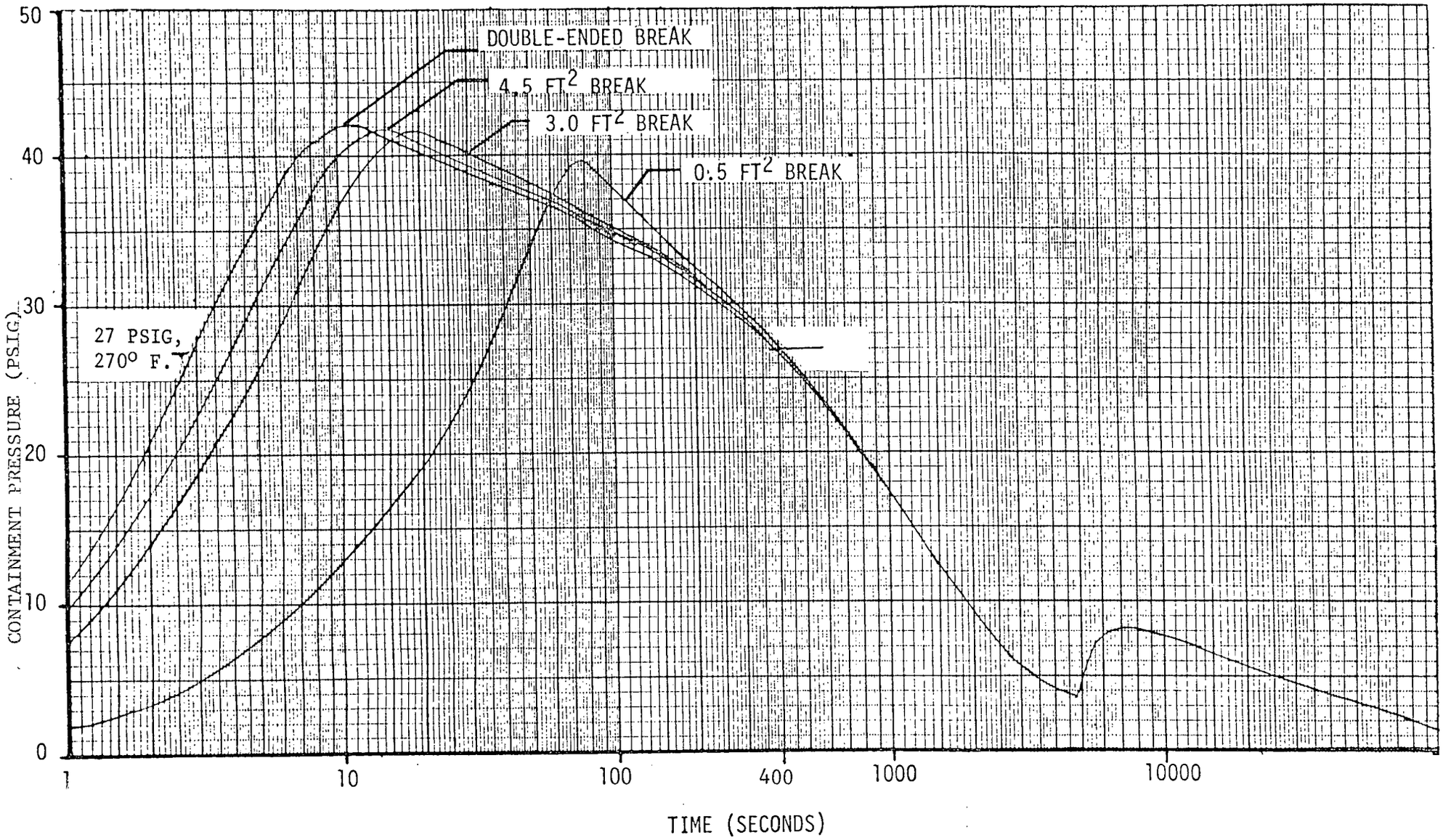
HARSH: YES (T,P,H,CS,R)

EQUIPMENT DESCRIPTION	PARAMETERS	ENVIRONMENT SPECIFICATION	ENVIRONMENT QUALIFICATION	DOCUMENTATION REF. * SPEC.	DOCUMENTATION REF. * QUALIF.	QUAL. METHOD	OUTSTANDING ITEMS
SYSTEM: MISCELLANEOUS	OPERATIONAL TIME	1 YEAR	NOTE A	45	NOTE A	NOTE A	NONE
PLANT ID NO: DGO-5 COMPONENT: ELEC. PENETRATION	TEMPERATURE DEG. F.	293	NOTE B	1	NOTE B	NOTE B	NONE
MANUFACTURER: D. G. O'BRIEN	PRESSURE PSIA	60.7	66.7	2,3	33	SIMULT	NONE
MODEL NUMBER: RM (#23) K268 PO	RELATIVE HUMIDITY PCT	100%	100%	2	33	SIMULT	NONE
FUNCTION: ELEC. CONNECTIONS	CHEMICAL SPRAY	PH = 8.0 2324 PPM BA 30% WT NAOH	PH = 9.5	4,5	25	E.A.	NONE
SERVICE: VARIOUS	RADIATION RADS	5E7 GAMMA 2E6 BETA	3E8 GAMMA >2E6 BETA	2,6,7,8	26,101	TEST/ANALY	NONE
LOCATION: RX BLDG & AUX BLDG	AGING	40 YEARS	NOTE A	2	NOTE A	NOTE A	NONE
FLOOD LEVEL ELEV: 600 ABOVE FLOOD LEVEL: YES	SUBMERGENCE	NOT REQUIRED	N/A	9	N/A	N/A	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY

NOTES:

E.A. = ENGINEERING ANALYSIS.
A) STUDY IN PROGRESS BY EDS NUCLEAR, INC.
B) TESTED TO 270 F. THE ATTACHED SATURATION TEMPERATURE PROFILE EXCEEDS TEST TEMP. FOR LESS THAN 7 MINUTES.



CONTAINMENT PRESSURE TRANSIENT

SYSTEM COMPONENT EVALUATION WORKSHEET

10/30/81
REVISED 11/02/81

UNIT: KEWAUNEE

DOCKET: 50-305

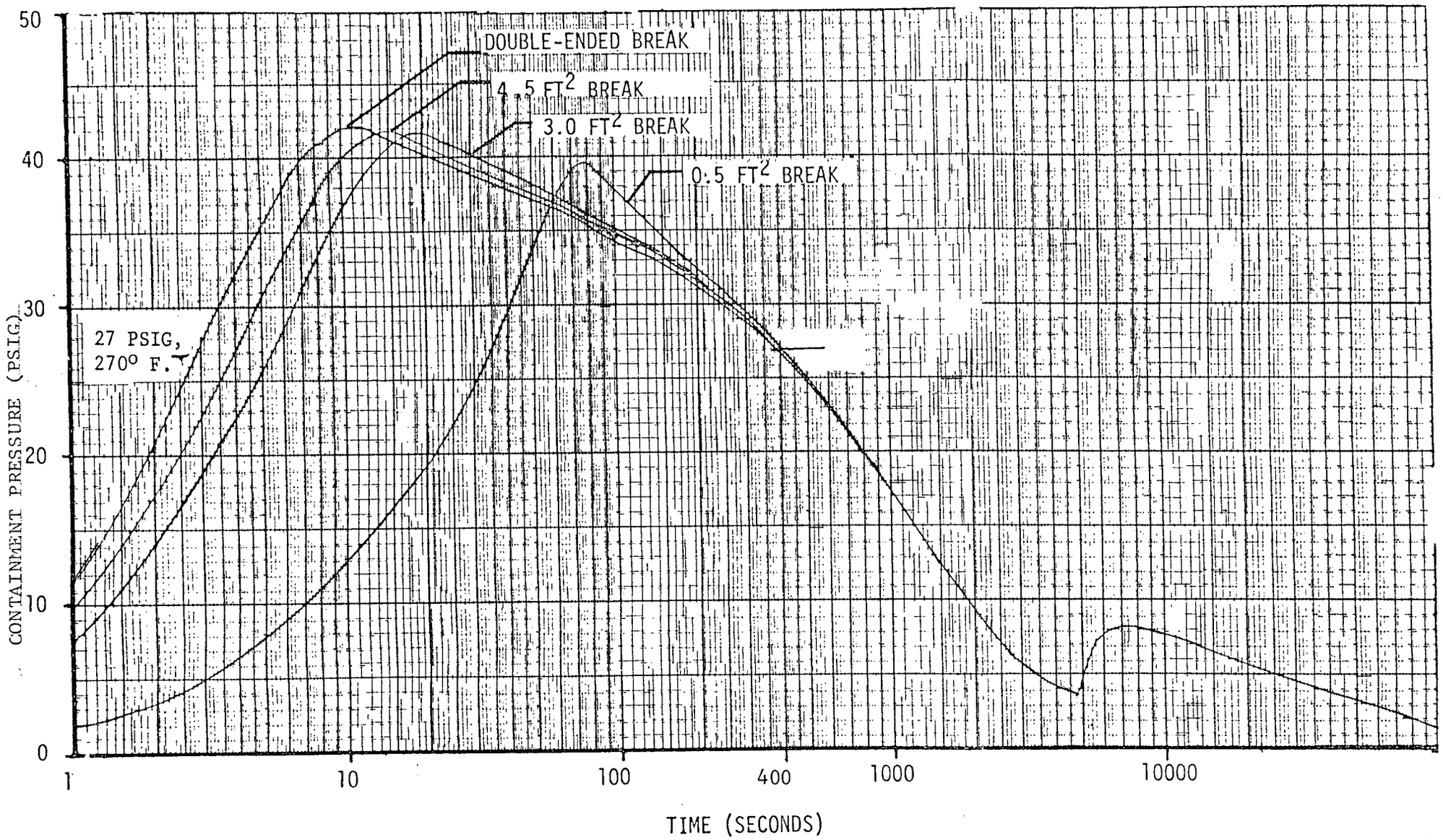
HARSH: YES (T,P,H,CS,R)

EQUIPMENT DESCRIPTION	PARAMETERS	ENVIRONMENT SPECIFICATION	ENVIRONMENT QUALIFICATION	DOCUMENTATION REF. * SPEC.	DOCUMENTATION REF. * QUALIF.	QUAL. METHOD	OUTSTANDING ITEMS
SYSTEM: MISCELLANEOUS	OPERATIONAL TIME	1 YEAR	NOTE A	45	NOTE A	NOTE A	NONE
PLANT ID NO: DGO-6 COMPONENT: ELEC. PENETRATION	TEMPERATURE DEG. F.	293	NOTE B	1	NOTE B	NOTE B	NONE
MANUFACTURER: D. G. O'BRIEN	PRESSURE PSIA	60.7	66.7	2,3	34	SIMULT	NONE
MODEL NUMBER: I&C (I&C) K268 PO	RELATIVE HUMIDITY PCT	100%	100%	2	34	SIMULT	NONE
FUNCTION: ELEC. CONNECTIONS	CHEMICAL SPRAY	PH = 8.0 2324 PPM BA 30% WT NAOH	PH = 9.5	4,5	25	E.A.	NONE
SERVICE: VARIOUS	RADIATION RADS	5E7 GAMMA 2E6 BETA	3E8 GAMMA >2E6 BETA	2,6,7,8	26,101	TEST/ANALY	NONE
LOCATION: RX BLDG & AUX BLDG	AGING	40 YEARS	NOTE A	2	NOTE A	NOTE A	NONE
FLOOD LEVEL ELEV: 600 ABOVE FLOOD LEVEL: YES	SUBMERGENCE	NOT REQUIRED	N/A	9	N/A	N/A	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY

NOTES:

E.A. = ENGINEERING ANALYSIS.
A) STUDY IN PROGRESS BY EDS NUCLEAR, INC.
B) TESTED TO 270 F. THE ATTACHED SATURATION TEMPERATURE PROFILE EXCEEDS TEST TEMP. FOR LESS THAN 7 MINUTES.



CONTAINMENT PRESSURE TRANSIENT

SYSTEM COMPONENT EVALUATION WORKSHEET

10/30/81
REVISED 11/02/81

UNIT: KEWAUNEE

DOCKET: 50-305

HARSH: YES (T,P,H,CS,R)

EQUIPMENT DESCRIPTION	PARAMETERS	ENVIRONMENT SPECIFICATION	ENVIRONMENT QUALIFICATION	DOCUMENTATION REF. * SPEC.	DOCUMENTATION REF. * QUALIF.	QUAL. METHOD	OUTSTANDING ITEMS
SYSTEM: EMERGENCY PROCEDURE	OPERATIONAL TIME	30 DAYS	120 DAYS	46	76	SIMULT	NONE
PLANT ID NO: 21038 COMPONENT: PRESSURE TRANSMITTER	TEMPERATURE DEG. F.	293	320	1	69,76	SIMULT	NONE
MANUFACTURER: FOXBORO	PRESSURE PSIA	60.7	80.7	2,3	69,76	SIMULT	NONE
MODEL NUMBER: E11GH-1NH 2	RELATIVE HUMIDITY PCT	100%	100%	2	69,76	SIMULT	NONE
FUNCTION: RX CLNT HOT LEG P XMTR	CHEMICAL SPRAY	PH = 8.0 NAOH = 30% WT. 2324 PPM BA	PH = 8.7 NAOH = 0.17% 3340 PPM BA	4,5	69,76	SIMULT	NONE
SERVICE: CONTROL ROOM ANNUNCIATION	RADIATION RADS	5E7 GAMMA 2E6 BETA	2E8 GAMMA >2E6 BETA	2,6,7,8	69,76,101	TEST/ANALY	NONE
LOCATION: CN RACK 11 GRID 14/300/611 RX BLDG	AGING	NOTE A	NOTE A	NOTE A	NOTE A	NOTE A	NONE
FLOOD LEVEL ELEV: 600 ABOVE FLOOD LEVEL: YES	SUBMERGENCE	NOT REQUIRED	N/A	9	N/A	N/A	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY

NOTES:

A) STUDY IN PROGRESS BY ROBERTS ENGINEERING SERVICES.

SYSTEM COMPONENT EVALUATION WORKSHEET

10/30/81
REVISED 11/02/81

UNIT: KEWAUNEE

DOCKET: 50-305

HARSH: YES (T,P,H,CS,R)

EQUIPMENT DESCRIPTION	PARAMETERS	ENVIRONMENT SPECIFICATION	ENVIRONMENT QUALIFICATION	DOCUMENTATION REF. * SPEC.	DOCUMENTATION REF. * QUALIF.	QUAL. METHOD	OUTSTANDING ITEMS
SYSTEM: EMERGENCY PROCEDURE	OPERATIONAL TIME	30 DAYS	120 DAYS	46	76	SIMULT	NONE
PLANT ID NO: 21077 COMPONENT: PRESSURE TRANSMITTER	TEMPERATURE DEG. F.	293	320	1	69,76	SIMULT	NONE
MANUFACTURER: FOXBORO	PRESSURE PSIA	60.7	80.7	2,3	69,76	SIMULT	NONE
MODEL NUMBER: E11GH-1NH 2	RELATIVE HUMIDITY PCT	100%	100%	2	69,76	SIMULT	NONE
FUNCTION: RC SYS HOT LEG P XMTR	CHEMICAL SPRAY	PH = 8.0 NAOH = 30% WT. 2324 PPM BA	PH = 8.7 NAOH = 0.17% 3340 PPM BA	4,5	69,76	SIMULT	NONE
SERVICE: CONTROL ROOM ANNUNCIATION	RADIATION RADS	5E7 GAMMA 2E6 BETA	2E8 GAMMA >2E6 BETA	2,6,7,8	69,76,101	TEST/ANALY	NONE
LOCATION: ON RACK 11 GRID 1.4/300/611 RX BLDG	AGING	NOTE A	NOTE A	NOTE A	NOTE A	NOTE A	NONE
FLOOD LEVEL ELEV: 600 ABOVE FLOOD LEVEL: YES	SUBMERGENCE	NOT REQUIRED	N/A	9	N/A	N/A	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY

NOTES:

A) STUDY IN PROGRESS BY ROBERTS ENGINEERING SERVICES.

21077
EP

SYSTEM COMPONENT EVALUATION WORKSHEET

10/30/81
REVISED 11/02/81

UNIT: KEWAUNEE

DOCKET: 50-305

HARSH: YES (T,P,H,CS,R)

EQUIPMENT DESCRIPTION	PARAMETERS	ENVIRONMENT SPECIFICATION	ENVIRONMENT QUALIFICATION	DOCUMENTATION REF. * SPEC.	DOCUMENTATION REF. * QUALIF.	QUAL. METHOD	OUTSTANDING ITEMS
SYSTEM: EMERGENCY PROCEDURES	OPERATIONAL TIME	30 MIN	120 DAYS	45	76	SIMULT	NONE
PLANT ID NO: 21078 COMPONENT: DIFFERENTIAL PRESSURE TRANSMITTER ON PRZR	TEMPERATURE DEG. F.	293	320	1	69,76	SIMULT	NONE
MANUFACTURER: FOXBORO	PRESSURE PSIA	60.7	80.7	2,3	69,76	SIMULT	NONE
MODEL NUMBER: E13DH-SAH1	RELATIVE HUMIDITY PCT	100%	100%	2	69,76	SIMULT	NONE
FUNCTION: PRZR DP XMTR	CHEMICAL SPRAY	PH = 8.0 NAOH 30% WT. 2324 PPM BA	PH = 8.7 NAOH = 0.17% 3340 PPM BA	4,5	69,76	SIMULT	NONE
SERVICE: CONTROL ROOM	RADIATION RADS	5E7 GAMMA 2E6 BETA	2E8 GAMMA >2E6 BETA	2,6,7,8	69,76,101	SEPARATE	NONE
LOCATION: IN RACK 3 GRID 29/123/611 RX BLDG	AGING	NOTE A	NOTE A	NOTE A	NOTE A	NOTE A	NONE
FLOOD LEVEL ELEV: 600 ABOVE FLOOD LEVEL: YES	SUBMERGENCE	NOT REQUIRED	N/A	9	N/A	N/A	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY

NOTES:

A) STUDY IN PROGRESS BY ROBERTS ENGINEERING SERVICE.

21078
EP

SYSTEM COMPONENT EVALUATION WORKSHEET

10/30/81
REVISED 11/02/81

UNIT: KEWAUNEE

DOCKET: 50-305

HARSH: YES (T,P,H,CS,R)

EQUIPMENT DESCRIPTION	PARAMETERS	ENVIRONMENT SPECIFICATION	ENVIRONMENT QUALIFICATION	DOCUMENTATION REF. * SPEC.	DOCUMENTATION REF. * QUALIF.	QUAL. METHOD	OUTSTANDING ITEMS
SYSTEM: REACTOR COOLANT	OPERATIONAL TIME	30 MIN	120 DAYS	2	76	SIMULT	NONE
PLANT ID NO: 21079# COMPONENT: PRESSURE TRANSMITTER	TEMPERATURE DEG. F.	293	320	1	69,76	SIMULT	NONE
MANUFACTURER: FOXBORO	PRESSURE PSIA	60.7	80.7	2,3	69,76	SIMULT	NONE
MODEL NUMBER: E11GM-SAE1/MCA	RELATIVE HUMIDITY PCT	100%	100%	2	69,76	SIMULT	NONE
FUNCTION: PRESSURE MEASUREMENT ON PRZR-1C	CHEMICAL SPRAY	PH = 8.0 NAOH 30% WT. 2324 PPM BA	PH = 8.7 NAOH = 0.17% 3340 PPM BA	4,5	69,76	SIMULT	NONE
SERVICE: PRZR P TRANSMITTER	RADIATION RADS	5E7 GAMMA 2E6 BETA	2E8 GAMMA >2E6 BETA	2,6,7,8	69,76,101	TEST/ANALY	NONE
LOCATION: IN BACK 3 GRID 29/123/611 RX BLDG	AGING	NOTE A	NOTE A	NOTE A	NOTE A	NOTE A	NONE
FLOOD LEVEL ELEV: 600 ABOVE FLOOD LEVEL: YES	SUBMERGENCE	NOT REQUIRED	N/A	9	N/A	N/A	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY

NOTES:

A) TO BE REPLACED WITH QUALIFIED MODEL.

21079
RC

SYSTEM COMPONENT EVALUATION WORKSHEET

10/30/81
REVISED 11/02/81

UNIT: KEWAUNEE

DOCKET: 50-305

HARSH: YES (T,P,H,CS,R)

EQUIPMENT DESCRIPTION	PARAMETERS	ENVIRONMENT SPECIFICATION	ENVIRONMENT QUALIFICATION	DOCUMENTATION REF. * SPEC.	DOCUMENTATION REF. * QUALIF.	QUAL. METHOD	OUTSTANDING ITEMS
SYSTEM: REACTOR COOLANT	OPERATIONAL TIME	30 MIN	120 DAYS	2	76	SIMULT	NONE
PLANT ID NO: 21080#	TEMPERATURE DEG. F.	293	320	1	69,76	SIMULT	NONE
COMPONENT: PRESSURE TRANSMITTER	PRESSURE PSIA	60.7	80.7	2,3	69,76	SIMULT	NONE
MANUFACTURER: FOXBORO							
MODEL NUMBER: E11GM-SAE1/MCA	RELATIVE HUMIDITY PCT	100%	100%	2	69,76	SIMULT	NONE
FUNCTION: PRESSURE MEASUREMENT ON PRZR-1B	CHEMICAL SPRAY	PH = 8.0 NAOH 30% WT. 2324 PPM BA	PH = 8.7 NAOH = 0.17% 3340 PPM BA	4,5	69,76	SIMULT	NONE
SERVICE: PRZR P TRANSMITTER	RADIATION RADS	5E7 GAMMA 2E6 BETA	2E8 GAMMA >2E6 BETA	2,6,7,8	69,76,101	TEST/ANALY	NONE
LOCATION: IN RACK 2 GRID 13/112/611 RX BLDG	AGING	NOTE A	NOTE A	NOTE A	NOTE A	NOTE A	NONE
FLOOD LEVEL ELEV: 600 ABOVE FLOOD LEVEL: YES	SUBMERGENCE	NOT REQUIRED	N/A	9	N/A	N/A	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY

NOTES:

A) TO BE REPLACED WITH QUALIFIED MODEL.

21080
RC

SYSTEM COMPONENT EVALUATION WORKSHEET

10/30/81
REVISED 11/02/81

UNIT: KEWAUNEE

DOCKET: 50-305

HARSH: YES (T,P,H,CS,R)

EQUIPMENT DESCRIPTION	PARAMETERS	ENVIRONMENT SPECIFICATION	ENVIRONMENT QUALIFICATION	DOCUMENTATION REF. * SPEC.	DOCUMENTATION REF. * QUALIF.	QUAL. METHOD	OUTSTANDING ITEMS
SYSTEM: REACTOR COOLANT	OPERATIONAL TIME	30 MIN	120 DAYS	2	76	SIMULT	NONE
PLANT ID NO: 21081#	TEMPERATURE DEG. F.	293	320	1	69,76	SIMULT	NONE
COMPONENT: PRESSURE TRANSMITTER	PRESSURE PSIA	60.7	80.7	2,3	69,76	SIMULT	NONE
MANUFACTURER: FOXBORO							
MODEL NUMBER: E11GM-SAE1/MCA	RELATIVE HUMIDITY PCT	100%	100%	2	69,76	SIMULT	NONE
FUNCTION: PRESSURE MEASUREMENT ON PRZR-1A	CHEMICAL SPRAY	PH = 8.0 NAOH 30% WT. 2324 PPM BA	PH = 8.7 NAOH = 0.17% 3340 PPM BA	4,5	69,76	SIMULT	NONE
SERVICE: PRZR P TRANSMITTER	RADIATION RADS	5E7 GAMMA 2E6 BETA	2E8 GAMMA >2E6 BETA	2,6,7,8	69,76,101	TEST/ANALY	NONE
LOCATION: IN BACK 1 GRID 17/98/611 RX BLDG	AGING	NOTE A	NOTE A	NOTE A	NOTE A	NOTE A	NONE
FLOOD LEVEL ELEV: 600 ABOVE FLOOD LEVEL: YES	SUBMERGENCE	NOT REQUIRED	N/A	9	N/A	N/A	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY

NOTES:

A) TO BE REPLACED WITH QUALIFIED MODEL.

21081
RC

SYSTEM COMPONENT EVALUATION WORKSHEET

10/30/81
REVISED 11/02/81

UNIT: KEWAUNEE

DOCKET: 50-305

HARSH: YES (T,P,H,CS,R)

EQUIPMENT DESCRIPTION	PARAMETERS	ENVIRONMENT SPECIFICATION	ENVIRONMENT QUALIFICATION	DOCUMENTATION REF. * SPEC.	DOCUMENTATION REF. * QUALIF.	QUAL. METHOD	OUTSTANDING ITEMS
SYSTEM: REACTOR COOLANT	OPERATIONAL TIME	30 MIN	120 DAYS	2	76	SIMULT	NONE
PLANT ID NO: 21082#	TEMPERATURE DEG. F.	293	320	1	69,76	SIMULT	NONE
COMPONENT: PRESSURE TRANSMITTER	PRESSURE PSIA	60.7	80.7	2,3	69,76	SIMULT	NONE
MANUFACTURER: FOXBORO							
MODEL NUMBER: E11GM-SAE1/MCA	RELATIVE HUMIDITY PCT	100%	100%	2	69,76	SIMULT	NONE
FUNCTION: PRESSURE MEASUREMENT ON PRZR-1D	CHEMICAL SPRAY	PH = 8.0 NAOH 30% WT. 2324 PPM BA	PH = 8.7 NAOH = 0.17% 3340 PPM BA	4,5	69,76	SIMULT	NONE
SERVICE: PRZR P TRANSMITTER	RADIATION RADS	5E7 GAMMA 2E6 BETA	2E8 GAMMA >2E6 BETA	2,6,7,8	69,76,101	TEST/ANALY	NONE
LOCATION: IN RACK A GRID 24/108/611 RX BLDG	AGING	NOTE A	NOTE A	NOTE A	NOTE A	NOTE A	NONE
FLOOD LEVEL ELEV: 600 ABOVE FLOOD LEVEL: YES	SUBMERGENCE	NOT REQUIRED	N/A	9	N/A	N/A	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY

NOTES:

A) TO BE REPLACED WITH QUALIFIED MODEL.

21082
RC

SYSTEM COMPONENT EVALUATION WORKSHEET

10/30/81
REVISED 11/02/81

UNIT: KEWAUNEE

DOCKET: 50-305

HARSH: YES (T,P,H,CS,B)

EQUIPMENT DESCRIPTION	PARAMETERS	ENVIRONMENT SPECIFICATION	ENVIRONMENT QUALIFICATION	DOCUMENTATION REF. * SPEC.	DOCUMENTATION REF. * QUALIF.	QUAL. METHOD	OUTSTANDING ITEMS
SYSTEM: MAIN STEAM	OPERATIONAL TIME	30 DAYS	120 DAYS	46	76	SIMULT TST	NONE
PLANT ID NO: 24042 COMPONENT: DP TRANSMITTER	TEMPERATURE DEG. F.	293	320	1	69,76	SIMULT	NONE
MANUFACTURER: FOXBORO	PRESSURE PSIA	60.7	80.7	2,3	69,76	SIMULT	NONE
MODEL NUMBER: E13DH-SAM1	RELATIVE HUMIDITY PCT	100%	100%	2	69,76	SIMULT	NONE
FUNCTION: LEVEL TRANSMITTER	CHEMICAL SPRAY	PH = 80 2324 PPM BA 30 WT% NAOH	3,340 PPM BA PH = 8.7 NAOH = 0.17%	4,5	69,76	SIMULT	NONE
SERVICE: S/G 1A L XMTR	RADIATION RADS	5E7 GAMMA 2E6 BETA	2E8 GAMMA >2E6 BETA	2,6,7,8	69,76,101	TEST/ANALY	NONE
LOCATION: ON W WALL GRID. 6.5/278/611 RX BLDG	AGING	NOTE A	NOTE A	NOTE A	NOTE A	NOTE A	NONE
FLOOD LEVEL ELEV: 600' ABOVE FLOOD LEVEL: YES	SUBMERGENCE	NOT REQUIRED	N/A	9	N/A	N/A	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY

NOTES:

A) TO BE REPLACED WITH QUALIFIED MODEL.

24042
MS

SYSTEM COMPONENT EVALUATION WORKSHEET

10/30/81
REVISED 11/02/81

UNIT: KEWAUNEE

DOCKET: 50-305

HARSH: YES (T,P,H,CS,R)

EQUIPMENT DESCRIPTION	PARAMETERS	ENVIRONMENT SPECIFICATION	ENVIRONMENT QUALIFICATION	DOCUMENTATION REF. * SPEC.	DOCUMENTATION REF. * QUALIF.	QUAL. METHOD	OUTSTANDING ITEMS
SYSTEM: MAIN STEAM	OPERATIONAL TIME	30 DAYS	120 DAYS	46	76	SIMULT TST	NONE
PLANT ID NO: 24043 COMPONENT: DP TRANSMITTER	TEMPERATURE DEG. F.	293	320	1	69,76	SIMULT	NONE
MANUFACTURER: FOXBORO	PRESSURE PSIA	60.7	80.7	2,3	69,76	SIMULT	NONE
MODEL NUMBER: E13DH-SAM1	RELATIVE HUMIDITY PCT	100%	100%	2	69,76	SIMULT	NONE
FUNCTION: LEVEL TRANSMITTER	CHEMICAL SPRAY	PH = 80 2324 PPM BA 30 WT% NAOH	3,340 PPM BA PH = 8.7 NAOH = 0.17%	4,5	69,76	SIMULT	NONE
SERVICE: S/G 1A L XMTR	RADIATION RADS	5E7 GAMMA 2E6 BETA	2E8 GAMMA >2E6 BETA	2,6,7,8	69,76,101	TEST/ANALY	NONE
LOCATION: ON W WALL GRID. 6.5/279/611 RX BLDG	AGING	NOTE A	NOTE A	NOTE A	NOTE A	NOTE A	NONE
FLOOD LEVEL ELEV: 600' ABOVE FLOOD LEVEL: YES	SUBMERGENCE	NOT REQUIRED	N/A	9	N/A	N/A	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY

NOTES:

A) TO BE REPLACED WITH QUALIFIED MODEL.

24043
MS

SYSTEM COMPONENT EVALUATION WORKSHEET

10/30/81
REVISED 11/02/81

UNIT: KEWAUNEE

DOCKET: 50-305

HARSH: YES (T,P,H,CS,R)

EQUIPMENT DESCRIPTION	PARAMETERS	ENVIRONMENT SPECIFICATION	ENVIRONMENT QUALIFICATION	DOCUMENTATION REF. * SPEC.	DOCUMENTATION REF. * QUALIF.	QUAL. METHOD	OUTSTANDING ITEMS
SYSTEM: MAIN STEAM	OPERATIONAL TIME	30 DAYS	120 DAYS	46	76	SIMULT TST	NONE
PLANT ID NO: 24044 COMPONENT: DP TRANSMITTER	TEMPERATURE DEG. F.	293	320	1	69,76	SIMULT	NONE
	PRESSURE PSIA	60.7	80.7	2,3	69,76	SIMULT	NONE
MANUFACTURER: FOXBORO MODEL NUMBER: E13DH-SAM1	RELATIVE HUMIDITY PCT	100%	100%	2	69,76	SIMULT	NONE
FUNCTION: LEVEL TRANSMITTER	CHEMICAL SPRAY	PH = 80 2324 PPM BA 30 WT% NAOH	PH = 8.7 3340 PPM BA NAOH = 0.17%	4,5	69,76	SIMULT	NONE
SERVICE: S/G 1A L XMTR	RADIATION RADS	5E7 GAMMA 2E6 BETA	2E8 GAMMA >2E6 BETA	2,6,7,8	69,76,101	TEST/ANALY	NONE
LOCATION: ON RACK 13 GRID. 6/282/611 RX BLDG	AGING	NOTE A	NOTE A	NOTE A	NOTE A	NOTE A	NONE
FLOOD LEVEL ELEV: 600' ABOVE FLOOD LEVEL: YES	SUBMERGENCE	NOT REQUIRED	N/A	9	N/A	N/A	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY

NOTES:

A) TO BE REPLACED WITH QUALIFIED MODEL.

24044
MS

SYSTEM COMPONENT EVALUATION WORKSHEET

10/30/81
REVISED 11/02/81

UNIT: KEWAUNEE

DOCKET: 50-305

HARSH: YES (T,P,H,CS,R)

EQUIPMENT DESCRIPTION	PARAMETERS	ENVIRONMENT SPECIFICATION	ENVIRONMENT QUALIFICATION	DOCUMENTATION REF. * SPEC.	DOCUMENTATION REF. * QUALIF.	QUAL. METHOD	OUTSTANDING ITEMS
SYSTEM: MAIN STEAM	OPERATIONAL TIME	30 DAYS	120 DAYS	46	76	SIMULT TST	NONE
PLANT ID NO: 24046 CONPONENT: DP TRANSMITTER	TEMPERATURE DEG. F.	293	320	1	69,76	SIMULT	NONE
MANUFACTURER: FOXBORO	PRESSURE PSIA	60.7	80.7	2,3	69,76	SIMULT	NONE
MODEL NUMBER: E13DH-SAM1	RELATIVE HUMIDITY PCT	100%	100%	2	69,76	SIMULT	NONE
FUNCTION: LEVEL TRANSMITTER	CHEMICAL SPRAY	PH = 80 2324 PPM BA 30 WT% NAOH	PH = 8.7 3340 PPM BA NAOH = 0.17%	4,5	69,76	SIMULT	NONE
SERVICE: S/G 1B L XMTR	RADIATION RADS	5E7 GAMMA 2E6 BETA	2E8 GAMMA >2E6 BETA	2,6,7,8	69,76,101	TEST/ANALY	NONE
LOCATION: ON RACK 4 GRID. 24/108/611 RX BLDG	AGING	NOTE A	NOTE A	NOTE A	NOTE A	NOTE A	NONE
FLOOD LEVEL ELEV: 600' ABOVE FLOOD LEVEL: YES	SUBMERGENCE	NOT REQUIRED	N/A	9	N/A	N/A	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY

NOTES:

A) TO BE REPLACED WITH QUALIFIED MODEL.

24046
MS

SYSTEM COMPONENT EVALUATION WORKSHEET

10/30/81
REVISED 11/02/81

UNIT: KEWAUNEE

DOCKET: 50-305

HARSH: YES (T,P,H,CS,R)

EQUIPMENT DESCRIPTION	PARAMETERS	ENVIRONMENT SPECIFICATION	ENVIRONMENT QUALIFICATION	DOCUMENTATION REF. * SPEC.	DOCUMENTATION REF. * QUALIF.	QUAL. METHOD	OUTSTANDING ITEMS
SYSTEM: MAIN STEAM	OPERATIONAL TIME	30 DAYS	120 DAYS	46	76	SIMULT TST	NONE
PLANT ID NO: 24047 COMPONENT: DP TRANSMITTER	TEMPERATURE DEG. F.	293	320	1	69,76	SIMULT	NONE
MANUFACTURER: FOXBORO	PRESSURE PSIA	60.7	80.7	2,3	69,76	SIMULT	NONE
MODEL NUMBER: E13DH-SAM1	RELATIVE HUMIDITY PCT	100%	100%	2	69,76	SIMULT	NONE
FUNCTION: LEVEL TRANSMITTER	CHEMICAL SPRAY	PH = 80 2324 PPM BA 30 WT% NAOH	PH = 8.7 3340 PPM BA NAOH = 0.17%	4,5	69,76	SIMULT	NONE
SERVICE: S/G 1B L XMTR	RADIATION RADS	5E7 GAMMA 2E6 BETA	2E8 GAMMA >2E6 BETA	2,6,7,8	69,76,101	TEST/ANALY	NONE
LOCATION: ON BACK 1 GRID. 17/98/611 RX BLDG	AGING	NOTE A	NOTE A	NOTE A	NOTE A	NOTE A	NONE
FLOOD LEVEL ELEV: 600' ABOVE FLOOD LEVEL: YES	SUBMERGENCE	NOT REQUIRED	N/A	9	N/A	N/A	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY

NOTES:

A) TO BE REPLACED WITH QUALIFIED MODEL.

24047
MS

SYSTEM COMPONENT EVALUATION WORKSHEET

10/30/81
REVISED 11/02/81

UNIT: KEWAUNEE

DOCKET: 50-305

HARSH: YES (T,P,H,CS,R)

EQUIPMENT DESCRIPTION	PARAMETERS	ENVIRONMENT SPECIFICATION	ENVIRONMENT QUALIFICATION	DOCUMENTATION REF. * SPEC.	DOCUMENTATION REF. * QUALIF.	QUAL. METHOD	OUTSTANDING ITEMS
SYSTEM: MAIN STEAM	OPERATIONAL TIME	30 DAYS	120 DAYS	46	76	SIMULT TST	NONE
PLANT ID NO: 24048 COMPONENT: DP TRANSMITTER	TEMPERATURE DEG. F.	293	320	1	69,76	SIMULT	NONE
	PRESSURE PSIA	60.7	80.7	2,3	69,76	SIMULT	NONE
MANUFACTURER: FOXBORO MODEL NUMBER: E13DH-SAM1	RELATIVE HUMIDITY PCT	100%	100%	2	69,76	SIMULT	NONE
FUNCTION: LEVEL TRANSMITTER	CHEMICAL SPRAY	PH = 80 2324 PPM BA 30 WT% NAOH	PH = 8.7 3340 PPM BA NAOH = 0.17%	2,6	69,76	SIMULT	NONE
SERVICE: S/G 1B L XMTR	RADIATION RADS	5E7 GAMMA 2E6 BETA	2E8 GAMMA >2E6 BETA	2,6,7,8	69,76,101	TEST/ANALY	NONE
LOCATION: CN RACK GRID. 16/78/611 RX BLDG	AGING	NOTE A	NOTE A	NOTE A	NOTE A	NOTE A	NONE
FLOOD LEVEL ELEV: 600' ABOVE FLOOD LEVEL: YES	SUBMERGENCE	NOT REQUIRED	N/A	9	N/A	N/A	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY

NOTES:

A) TO BE REPLACED WITH QUALIFIED MODEL.

24048
MS

SYSTEM COMPONENT EVALUATION WORKSHEET

UNIT: KEWAUNEE

11/02/81
REVISED 11/02/81

DOCKET: 50-305

HARSH: YES (T,P,H,CS,R)

EQUIPMENT DESCRIPTION	PARAMETERS	ENVIRONMENT SPECIFICATION	ENVIRONMENT QUALIFICATION	DOCUMENTATION REF. * SPEC.	DOCUMENTATION REF. * QUALIF.	QUAL. METHOD	OUTSTANDING ITEMS
SYSTEM: MISCELLANEOUS	OPERATIONAL TIME	N/A	N/A	N/A	N/A	N/A	NONE
PLANT ID NO: GEN-1 COMPONENT: EPOXY COATING	TEMPERATURE DEG. F.	293	500 NOTE A	1	21	TYPE	NONE
MANUFACTURER: GENERAL ELECTRIC	PRESSURE PSIA	N/A	N/A	N/A	N/A	N/A	NONE
MODEL NUMBER: 74010/74010A	RELATIVE HUMIDITY PCT	100%	100% NOTE A	2	22	TYPE	NONE
FUNCTION: MOISTURE PROOFING	CHEMICAL SPRAY	PH = 8.0 2324 PPM BA 30% WT NAOH	PH = 9.5 NOTE A	4,5	22	TYPE	NONE
SERVICE: TERMINAL STRIPS	RADIATION RADS	5E7 GAMMA 2E6 BETA	1E9 GAMMA >2E6 BETA NOTE A	2,6,7,8	23,101	TEST/ANALY	NONE
LOCATION: RX BLDG	AGING	NOTE A	NOTE A	NOTE A	NOTE A	NOTE A	NONE
FLOOD LEVEL ELEV: 600 ABOVE FLOOD LEVEL: YES	SUBMERGENCE	NOT REQUIRED	N/A	9	N/A	N/A	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY

NOTES:

A) TERMINAL BLOCKS ARE QUALIFIED WITHOUT MOISTURE PROOFING EPOXY COATING VIA TESTING. HENCEFORTH, THIS WORKSHEET WILL BE DELETED FROM EQUIPMENT QUALIFICATION WORKSHEETS.

GEN-1
MISC

SYSTEM COMPONENT EVALUATION WORKSHEET

10/30/81
REVISED 11/02/81

UNIT: KEWAUNEE

DOCKET: 50-305

HARSH: YES (T,P,H,CS,R)

EQUIPMENT DESCRIPTION	PARAMETERS	ENVIRONMENT SPECIFICATION	ENVIRONMENT QUALIFICATION	DOCUMENTATION REF. * SPEC.	DOCUMENTATION REF. * QUALIF.	QUAL. METHOD	OUTSTANDING ITEMS
SYSTEM: MISCELLANEOUS	OPERATIONAL TIME	1 YEAR	1 YEAR	35	75	SIMULT/EA	NONE
PLANT ID NO: GEN-2 COMPONENT: TERMINAL STRIPS	TEMPERATURE DEG. F.	293	NOTE A	1	75	SIMULT/EA	NONE
MANUFACTURER: GENERAL ELECTRIC	PRESSURE PSIA	60.7	54.7	2,3	75	SIMULT/EA	NONE
MODEL NUMBER: EB5	RELATIVE HUMIDITY PCT	100%	100%	2	75	SIMULT/EA	NONE
FUNCTION: TERMINATIONS	CHEMICAL SPRAY	PH = 8.0 2324 PPM BA 30% WT NAOH	PH = 8.0 2340 PPM BA	4,5	75	SIMULT/EA	NONE
SERVICE: VARIOUS	RADIATION RADS	5E7 GAMMA 2E6 BETA	7E7 GAMMA >2E6 BETA	2,6,7,8	75,101	TEST/ANALY	NONE
LOCATION: RX BLDG	AGING	40 YEARS	40 YEARS	2	75	SEQUEN/EA	NONE
FLOOD LEVEL ELEV: 600 ABOVE FLOOD LEVEL: YES	SUBMERGENCE	NOT REQUIRED	N/A	9	N/A	N/A	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY

NOTES:

E.A. = ENGINEERING ANALYSIS.
A) TESTED TO 286 F. THE ATTACHED SATURATION TEMPERATURE PROFILE EXCEEDS TEST TEMP. FOR LESS THAN 1 MINUTE.

SYSTEM COMPONENT EVALUATION WORKSHEET

10/30/81
REVISED 11/02/81

UNIT: KEWAUNEE

DOCKET: 50-305

HARSH: YES (T,P,H,CS,R,S)

EQUIPMENT DESCRIPTION	PARAMETERS	ENVIRONMENT SPECIFICATION	ENVIRONMENT QUALIFICATION	DOCUMENTATION REF. * SPEC.	DOCUMENTATION REF. * QUALIF.	QUAL. METHOD	OUTSTANDING ITEMS
SYSTEM: MISCELLANEOUS	OPERATIONAL TIME	1 YEAR	1 YEAR	35	95,96	SIM/ANAL	NONE
PLANT ID NO: KER-1 COMPONENT: CABLE	TEMPERATURE DEG. F.	293	325	1	14	SIMULT	NONE
MANUFACTURER: KERITE	PRESSURE PSIA	60.7	96.7	2,3	14	SIMULT	NONE
MODEL NUMBER: FR INSUL/HTK INSUL	RELATIVE HUMIDITY PCT	100%	100%	2	15	SIMULT	NONE
FUNCTION: ELECTRICAL POWER	CHEMICAL SPRAY	PH = 8.0 2324 PPM BA 30% WT NAOH	PH = 9.5	4,5	14	SIMULT	NONE
SERVICE:	RADIATION RADS	5E7 GAMMA 2E6 BETA	1E8 GAMMA >2E6 BETA	2,6,7,8	14,101	TEST/ANALY	NONE
LOCATION: RX BLDG & AUX BLDG	AGING	40 YEARS	40 YEARS	2	15	SEPARATE	NONE
FLOOD LEVEL ELEV: 600 ABOVE FLOOD LEVEL: YES/NO	SUBMERGENCE	REQUIRED	24 HOURS	9	97	SEPARATE	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY

NOTES:

SYSTEM COMPONENT EVALUATION WORKSHEET

10/30/81
REVISED 11/02/81

UNIT: KEWAUNEE

DOCKET: 50-305

HARSH: YES (T,P,H,CS,R)

EQUIPMENT DESCRIPTION	PARAMETERS	ENVIRONMENT SPECIFICATION	ENVIRONMENT QUALIFICATION	DOCUMENTATION REF.* SPEC.	DOCUMENTATION REF.* QUALIF.	QUAL. METHOD	OUTSTANDING ITEMS
SYSTEM: MISCELLANEOUS	OPERATIONAL TIME	1 YEAR	1 YEAR	35	95,96	SIM/EVAL	NONE
PLANT ID NO: KER-2 COMPONENT: CABLE SPLICE AND TERMINATION KITS	TEMPERATURE DEG. F.	293	325	1	14	SIMULT	NONE
MANUFACTURER: KERITE	PRESSURE PSIA	60.7	96.7	2,3	14	SIMULT	NONE
MODEL NUMBER: SEE NOTE A	RELATIVE HUMIDITY PCT	100%	100%	2	15	SIMULT	NONE
FUNCTION: SPLICE PLUS TERMINATIONS	CHEMICAL SPRAY	PH = 8.0 2324 PPM BA 30% WT NAOH	PH = 9.25	4,5	14	SIMULT	NONE
SERVICE: VARIOUS	RADIATION RADS	5E7 GAMMA 2E6 BETA	1E8 GAMMA >2E6 BETA	2,6,7,8	14,101	TEST/ANALY	NONE
LOCATION: RX BLDG & AUX BLDG	AGING	40 YEARS	40 YEARS	2	15	SEPARATE	NONE
FLOOD LEVEL ELEV: 600 ABOVE FLOOD LEVEL: YES	SUBMERGENCE	NOT REQUIRED	N/A	9	N/A	N/A	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY

NOTES:

A) KERITE KIT NO'S: S-1087, S-1088, S-1089, S-1090, S-1091, D-T-2006, D-T-2007, D-T-2001, D-T-2002, D-S-1001, D-S-1002.

KER-2
MISC

SYSTEM COMPONENT EVALUATION WORKSHEET

10/30/81
REVISED 11/02/81

UNIT: KEWAUNEE

DOCKET: 50-305

HARSH: YES (T,P,H,CS,R,S)

EQUIPMENT DESCRIPTION	PARAMETERS	ENVIRONMENT SPECIFICATION	ENVIRONMENT QUALIFICATION	DOCUMENTATION REF.* SPEC.	DOCUMENTATION REF.* QUALIF.	QUAL. METHOD	OUTSTANDING ITEMS
SYSTEM: MAIN STEAM	OPERATIONAL TIME	30 DAYS	1 YEAR	46	52	TYPE TEST	NONE
PLANT ID NO: 32077 COMPONENT: MOTOR OPERATOR	TEMPERATURE DEG. F.	293	295	1	64	SIMULT	NONE
MANUFACTURER: LIMITORQUE	PRESSURE PSIA	60.7	74.7	2,3	64	N/A	NONE
MODEL NUMBER: SMB-000	RELATIVE HUMIDITY PCT	100%	100%	2	64	N/A	NONE
FUNCTION: VALVE OPERATOR	CHEMICAL SPRAY	PH=8.0 2324 PPM BA 30 WT% NAOH	3,000 PPM BA PH = 10.5 .59% WT NAOH	4,5	100	N/A	NONE
SERVICE: SG 1A BD ISOL MV (BT-2A)	RADIATION RADS	5E7 GAMMA 2E6 BETA	2E8 GAMMA >2E6 BETA	2,6,7,8	64,101	TEST/ANALY	NONE
LOCATION: NE OF SG 1A GRID 17/294/594 RX BLDG.	AGING	40 YEARS	40 YEARS	4	52	TYPE TEST	NONE
FLOOD LEVEL ELEV: N/A ABOVE FLOOD LEVEL: N/A	SUBMERGENCE	REQUIRED	NOTE A	9	NOTE A	NOTE A	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY

NOTES:

A) THE VALVE RESPONSE IS RAPID ENOUGH TO INSURE ITS FUNCTION IS PERFORMED BEFORE SUBMERGENCE HAS RENDERED IT INOPERABLE.

32077
MS

SYSTEM COMPONENT EVALUATION WORKSHEET

10/30/81
REVISED 11/02/81

UNIT: KEWAUNEE

DOCKET: 50-305

HARSH: YES (T,P,H,SC,R,A)

EQUIPMENT DESCRIPTION	PARAMETERS	ENVIRONMENT SPECIFICATION	ENVIRONMENT QUALIFICATION	DOCUMENTATION REF.* SPEC.	DOCUMENTATION REF.* QUALIF.	QUAL. METHOD	OUTSTANDING ITEMS
SYSTEM: ACTIVE STATUS PANEL MS	OPERATIONAL TIME	30 DAYS	1 YEAR	46	52	TYPE TEST	NONE
PLANT ID NO: 32077-A COMPONENT: AUX CONTACT IN MOTOR OPERATOR	TEMPERATURE DEG. F.	293	295	8	64	SIMULT	NONE
MANUFACTURER: LIMITORQUE	PRESSURE PSIA	60.7	74.7	2,3	64	SIMULT	NONE
MODEL NUMBER: SMB-000	RELATIVE HUMIDITY PCT	100%	100%	2	64	SIMULT	NONE
FUNCTION: SG1A BD ISOL VLV BT 2A	CHEMICAL SPRAY	PH = 8.0 NAOH 30% WT. 2324 PPM BA	PH = 10.5	4,5	64	SIMULT	NONE
SERVICE: CONTROL ROOM ANNUNCIATION	RADIATION RADS	5E7 GAMMA 2E6 BETA	2E8 GAMMA >2E6 BETA	2,6,7,8	64,101	TEST/ANALY	NONE
LOCATION: NE SIDE OF SG1A GRID 17/294/594 RX BLDG	AGING	40 YEARS	40 YEARS	4	52	TYPE TEST	NONE
FLOOD LEVEL ELEV: 600 ABOVE FLOOD LEVEL: NO	SUBMERGENCE	REQUIRED	NOTE A	9	NOTE A	NOTE A	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY

NOTES:

A) THE VALVE RESPONSE IS RAPID ENOUGH TO INSURE ITS FUNCTION IS PERFORMED BEFORE SUBMERGENCE HAS RENDERED IT INOPERABLE.

449110201
ASP

SYSTEM COMPONENT EVALUATION WORKSHEET

10/30/81
REVISED 11/02/81

UNIT: KEWAUNEE

DOCKET: 50-305

HARSH: YES (T,P,H,CS,R,S,)

EQUIPMENT DESCRIPTION	PARAMETERS	ENVIRONMENT SPECIFICATION	ENVIRONMENT QUALIFICATION	DOCUMENTATION REF. * SPEC.	DOCUMENTATION REF. * QUALIF.	QUAL. METHOD	OUTSTANDING ITEMS
SYSTEM: MAIN STEAM	OPERATIONAL TIME	30 DAYS	1 YEAR	46	52	TYPE TEST	NONE
PLANT ID NO: 32079 COMPONENT: MOTOR OPERATOR	TEMPERATURE DEG. F.	293	295	1	64	SIMULT	NONE
MANUFACTURER: LIMITORQUE	PRESSURE PSIA	60.7	74.7	2,3	64	SIMULT	NONE
MODEL NUMBER: SMB-000	RELATIVE HUMIDITY PCT	100%	100%	2	64	SIMULT	NONE
FUNCTION: VALVE OPERATOR	CHEMICAL SPRAY	PH = 80 2324 PPM BA 30 WT% NAOH	3,000 PPM BA PH = 10.5 .59% WT NAOH	4,5	100	SIMULT	NONE
SERVICE: SG 1B BD ISOL MV (BT-2B)	RADIATION RADS	5E7 GAMMA 2E6 BETA	2E8 GAMMA >2E6 BETA	2,6,7,8	64,101	TEST/ANALY	NONE
LOCATION: S OF SG 1B GRID 30/105/594 RX BLDG	AGING	40 YEARS	40 YEARS	4	52	SEPARATE	NONE
FLOOD LEVEL ELEV: 600' ABOVE FLOOD LEVEL: NO	SUBMERGENCE	REQUIRED	NOTE A	9	NOTE A	NOTE A	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY

NOTES:

A) THE VALVE RESPONSE IS RAPID ENOUGH TO INSURE ITS FUNCTION IS PERFORMED BEFORE SUBMERGENCE HAS RENDERED IT INOPERABLE.

32079
MS

SYSTEM COMPONENT EVALUATION WORKSHEET

10/30/81
REVISED 11/02/81

UNIT: KEWAUNEE

DOCKET: 50-305

HARSH: YES (T,P,H,R,S,CS)

EQUIPMENT DESCRIPTION	PARAMETERS	ENVIRONMENT SPECIFICATION	ENVIRONMENT QUALIFICATION	DOCUMENTATION REF. * SPEC.	DOCUMENTATION REF. * QUALIF.	QUAL. METHOD	OUTSTANDING ITEMS
SYSTEM: ACTIVE STATUS PANEL MS	OPERATIONAL TIME	30 DAYS	1 YEAR	46	52	TYPE TEST	NONE
PLANT ID NO: 32079-A COMPONENT: AUX CONTACT IN MOTOR OPERATOR	TEMPERATURE DEG. F.	293	295	1	64	SIMULT	NONE
MANUFACTURER: LIMITORQUE	PRESSURE PSIA	60.7	74.7	2,3	64	SIMULT	NONE
MODEL NUMBER: SMB-000	RELATIVE HUMIDITY PCT	100%	100%	2	64	SIMULT	NONE
FUNCTION: SG1A BD ISOL VLV BT 2B	CHEMICAL SPRAY	PH = 8.0 NAOH 30% WT. 2324 PPM BA	PH = 10.5	4,5	64	SIMULT	NONE
SERVICE: CONTROL ROOM ANNUNCIATION	RADIATION RADS	5E7 GAMMA 2E6 BETA	2E8 GAMMA >2E6 BETA	2,6,7,8	64,101	TEST/ANALY	NONE
LOCATION: S. SIDE OF SG1B GRID 30/105/599 RX BLDG	AGING	40 YEARS	40 YEARS	4	52	TYPE TEST	NONE
FLOOD LEVEL ELEV: 600 ABOVE FLOOD LEVEL: NO	SUBMERGENCE	REQUIRED	NOTE A	9	NOTE A	NOTE A	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY

NOTES:

A) THE VALVE RESPONSE IS RAPID ENOUGH TO INSURE ITS FUNCTION IS PERFORMED BEFORE SUBMERGENCE HAS RENDERED IT INOPERABLE.

449110203
ASP

SYSTEM COMPONENT EVALUATION WORKSHEET

10/30/81
REVISED 11/02/81

UNIT: KEWAUNEE

DOCKET: 50-305

HARSH: YES (T,P,CS,R,S)

EQUIPMENT DESCRIPTION	PARAMETERS	ENVIRONMENT SPECIFICATION	ENVIRONMENT QUALIFICATION	DOCUMENTATION REF. * SPEC.	DOCUMENTATION REF. * QUALIF.	QUAL. METHOD	OUTSTANDING ITEMS
SYSTEM: SAFETY INJECTION	OPERATIONAL TIME	24 HOURS	1 YEAR	67	49	ANALYSIS	NONE
PLANT ID NO: 32091 COMPONENT: MOTOR OPERATOR	TEMPERATURE DEG. F.	293	295	1	64	SIMULT.	NONE
	PRESSURE PSIA	60.7	74.7	2,3	64	SIMULT	NONE
MANUFACTURER: LIMITORQUE MODEL NUMBER: SMB-3	RELATIVE HUMIDITY PCT	100%	100%	2	64	SIMULT	NONE
FUNCTION: VALVE OPERATOR	CHEMICAL SPRAY	PH = 8.0 NAOH 30% WT 2324 PPM BA	PH = 10.5 NAOH .59% WT 3000 PPM BA	4.5	64	SIMULT	NONE
SERVICE: SI ACC 1A DISCH. ISOL.	RADIATION RADS	5E7 GAMMA 2E6 BETA	2E8 GAMMA >2E6 BETA	2,6,7,8	64,101	TEST/ANALY	NONE
LOCATION: GRID 10/235/594 RX BLDG	AGING	40 YEARS	40 YEARS	4	52	TYPE TEST	NONE
FLOOD LEVEL ELEV: 600 ABOVE FLOOD LEVEL: NO	SUBMERGENCE	REQUIRED	NOTE A	9	NOTE A	NOTE A	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY

NOTES:

A) THIS VALVE IS REQUIRED TO BE LOCKED OPEN WHEN THERE IS >1000 PSIG RCS PRESSURE, PER TECH. SPECS.

SYSTEM COMPONENT EVALUATION WORKSHEET

10/30/81
REVISED 11/02/81

UNIT: KEWAUNEE

DOCKET: 50-305

HARSH: YES (T,P,H,CS,R)

EQUIPMENT DESCRIPTION	PARAMETERS	ENVIRONMENT SPECIFICATION	ENVIRONMENT QUALIFICATION	DOCUMENTATION REF. * SPEC.	DOCUMENTATION REF. * QUALIF.	QUAL. METHOD	OUTSTANDING ITEMS
SYSTEM: SAFETY INJECTION	OPERATIONAL TIME	30 DAYS	1 YEAR	47	49	ANALYSIS	NONE
PLANT ID NO: 32092 COMPONENT: MOTOR	TEMPERATURE DEG. F.	293	295	1	64	SIMULT	NONE
MANUFACTURER: LIMITORQUE	PRESSURE PSIA	60.7	74.7	2,3	64	SIMULT.	NONE
MODEL NUMBER: SMB-00	RELATIVE HUMIDITY PCT	100%	100%	2	64	SIMULT.	NONE
FUNCTION: VALVE OPERATOR	CHEMICAL SPRAY	PH = 8.0 2324 PPM BA 30 WT% NAOH	PH = 10.5 3000 PPM BA .59% WT NAOH	4,5	64	SIMULT.	NONE
SERVICE: SI LP A COLD LEG ISOL MV	RADIATION RADS	5E7 GAMMA 2E6 BETA	2E8 GAMMA >2E6 BETA	2,6,7,8	64,101	TEST/ANALY	NONE
LOCATION: NR RC PMP 1A GRID 33/257/600 RX BLDG	AGING	40 YEARS	40 YEARS	4	52	TYPE TEST	NONE
FLOOD LEVEL ELEV: 600 ABOVE FLOOD LEVEL: YES	SUBMERGENCE	NOT REQUIRED	N/A	9	N/A	N/A	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY

NOTES:

32092
SI

SYSTEM COMPONENT EVALUATION WORKSHEET

10/30/81
REVISED 11/02/81

UNIT: KEWAUNEE

DOCKET: 50-305

HARSH: YES (T,P,H,CS,R)

EQUIPMENT DESCRIPTION	PARAMETERS	ENVIRONMENT SPECIFICATION	ENVIRONMENT QUALIFICATION	DOCUMENTATION REF.* SPEC.	DOCUMENTATION REF.* QUALIF.	QUAL. METHOD	OUTSTANDING ITEMS
SYSTEM: EMERGENCY PROCEDURE SI	OPERATIONAL TIME	30 DAYS	1 YEAR	47	49	ANALYSIS	NONE
PLANT ID NO: 32092-A COMPONENT: AUX CONTACTS IN VALVE OPERATOR	TEMPERATURE DEG. F.	293	295	1	64	SIMULT	NONE
MANUFACTURER: LIMITORQUE	PRESSURE PSIA	60.7	74.7	2,3	64	SIMULT	NONE
MODEL NUMBER: SMB-00	RELATIVE HUMIDITY PCT	100%	100%	2	64	SIMULT	NONE
FUNCTION: SI LP A COLD LEG ISOL MV	CHEMICAL SPRAY	PH = 8.0 NAOH = 30% WT. 2324 PPM BA	PH = 10.5	4,5	87	SIMULT	NONE
SERVICE: CONTROL ROOM ANNUNCIATION	RADIATION RADS	5E7 GAMMA 2E6 BETA	2E8 GAMMA >2E6 BETA	2,6,7,8	64,101	TEST/ANALY	NONE
LOCATION: NR RCP1A GRID 33/257/600 RX BLDG	AGING	40 YEARS	40 YEARS	4	52	TYPE TEST	NONE
FLOOD LEVEL ELEV: 600 ABOVE FLOOD LEVEL: YES	SUBMERGENCE	NOT REQUIRED	N/A	9	N/A	N/A	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY

NOTES:

32092-A
EP

SYSTEM COMPONENT EVALUATION WORKSHEET

10/30/81
REVISED 11/02/81

UNIT: KEWAUNEE

DOCKET: 50-305

HARSH: YES (T,P,H,CS,R)

EQUIPMENT DESCRIPTION	PARAMETERS	ENVIRONMENT SPECIFICATION	ENVIRONMENT QUALIFICATION	DOCUMENTATION REF. * SPEC.	DOCUMENTATION REF. * QUALIF.	QUAL. METHOD	OUTSTANDING ITEMS
SYSTEM: SAFETY INJECTION	OPERATIONAL TIME	30 DAYS	1 YEAR	47	49	ANALYSIS	NONE
PLANT ID NO: 32093 COMPONENT: MOTOR	TEMPERATURE DEG. F.	293	295	1	64	SIMULT	NONE
	PRESSURE PSIA	60.7	74.7	2,3	64	SIMULT.	NONE
MANUFACTURER: LIMITORQUE MODEL NUMBER: SMB-00	RELATIVE HUMIDITY PCT	100%	100%	2	64	SIMULT.	NONE
FUNCTION: VALVE OPERATOR	CHEMICAL SPRAY	PH = 8.0 2324 PPM BA 30 WT% NAOH	PH = 10.5 3000 PPM BA .59% WT NAOH	4,5	64	SIMULT.	NONE
SERVICE: SI LP B RX VESSEL ISOL MV	RADIATION RADS	5E7 GAMMA 2E6 BETA	2E8 GAMMA >2E6 BETA	2,6,7,8	64,101	TEST/ANALY	NONE
LOCATION: NR S/G 1A GRID 15/25/608 RX BLDG	AGING	40 YEARS	40 YEARS	4	52	TYPE TEST	NONE
FLOOD LEVEL ELEV: 600 ABOVE FLOOD LEVEL: YES	SUBMERGENCE	NOT REQUIRED	N/A	9	N/A	N/A	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY

NOTES:

SYSTEM COMPONENT EVALUATION WORKSHEET

10/30/81
REVISED 11/02/81

UNIT: KEWAUNEE

DOCKET: 50-305

HARSH: YES (T,P,H,CS,R)

EQUIPMENT DESCRIPTION	PARAMETERS	ENVIRONMENT SPECIFICATION	ENVIRONMENT QUALIFICATION	DOCUMENTATION REF.* SPEC.	DOCUMENTATION REF.* QUALIF.	QUAL. METHOD	OUTSTANDING ITEMS
SYSTEM: SAFETY INJECTION	OPERATIONAL TIME	24 HOURS	1 YEAR	67	49	ANALYSIS	NONE
PLANT ID NO: 32096 COMPONENT: MOTOR	TEMPERATURE DEG. F.	293	295	1	64	SIMULT.	NONE
MANUFACTURER: LIMITORQUE	PRESSURE PSIA	60.7	74.7	2,3	64	SIMULT	NONE
MODEL NUMBER: SMB-3	RELATIVE HUMIDITY PCT	100%	100%	2	64	SIMULT	NONE
FUNCTION: VALVE OPERATOR	CHEMICAL SPRAY	PH = 8.0 NAOH 30% WT 2324 PPM BA	PH = 10.5 NAOH .59% WT 3000 PPM BA	4.5	64	SIMULT	NONE
SERVICE: SI ACC. 1B DICH. ISOL.	RADIATION RADS	5E7 GAMMA 2E6 BETA	2E8 GAMMA >2E6 BETA	2,6,7,8	64,101	TEST/ANALY	NONE
LOCATION: GRID 24/6/608 RX BLDG	AGING	40 YEARS	40 YEARS	4	52	TYPE TEST	NONE
FLOOD LEVEL ELEV: 600 ABOVE FLOOD LEVEL: YES	SUBMERGENCE	NOT REQUIRED	N/A	9	N/A	N/A	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY

NOTES:

THIS VALVE IS REQUIRED TO BE LOCKED OPEN WHEN THERE IS >1000 PSIG RCS PRESSURE, PER TECH. SPECS.

32096
SI

SYSTEM COMPONENT EVALUATION WORKSHEET

10/30/81
REVISED 11/02/81

UNIT: KEWAUNEE

DOCKET: 50-305

HARSH: YES (T,P,H,CS,R)

EQUIPMENT DESCRIPTION	PARAMETERS	ENVIRONMENT SPECIFICATION	ENVIRONMENT QUALIFICATION	DOCUMENTATION REF. * SPEC.	DOCUMENTATION REF. * QUALIF.	QUAL. METHOD	OUTSTANDING ITEMS
SYSTEM: SAFETY INJECTION	OPERATIONAL TIME	30 DAYS	1 YEAR	47	49	ANALYSIS	NONE
PLANT ID NO: 32097 COMPONENT: MOTOR	TEMPERATURE DEG. F.	293	295	1	64	SIMULT	NONE
MANUFACTURER: LIMITORQUE	PRESSURE PSIA	60.7	74.7	2,3	64	SIMULT.	NONE
MODEL NUMBER: SMB-00	RELATIVE HUMIDITY PCT	100%	100%	2	64	SIMULT.	NONE
FUNCTION: VALVE OPERATOR	CHEMICAL SPRAY	PH = 8.0 2324 PPM BA 30 WT% NAOH	PH = 10.5 3000 PPM BA .59% WT NAOH	4,5	64	SIMULT.	NONE
SERVICE: SI HP B COLD LEG ISOL MV	RADIATION RADS	5E7 GAMMA 2E6 BETA	2E8 GAMMA >2E6 BETA	2,6,7,8	64,101	TEST/ANALY	NONE
LOCATION: NR RC PMP 1B GRID 30/25/600 RX BLDG	AGING	40 YEARS	40 YEARS	4	52	TYPE TEST	NONE
FLOOD LEVEL ELEV: 600 ABOVE FLOOD LEVEL: YES	SUBMERGENCE	NOT REQUIRED	N/A	9	N/A	N/A	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY

NOTES:

32097
SI

SYSTEM COMPONENT EVALUATION WORKSHEET

10/30/81
REVISED 11/02/81

UNIT: KEWAUNEE

DOCKET: 50-305

HARSH: YES (T,P,H,CS,R)

EQUIPMENT DESCRIPTION	PARAMETERS	ENVIRONMENT SPECIFICATION	ENVIRONMENT QUALIFICATION	DOCUMENTATION REF. * SPEC.	DOCUMENTATION REF. * QUALIF.	QUAL. METHOD	OUTSTANDING ITEMS
SYSTEM: EMERGENCY PROCEDURE SI	OPERATIONAL TIME	30 DAYS	1 YEAR	47	49	ANALYSIS	NONE
PLANT ID NO: 32097-A COMPONENT: AUX CONTACTS IN VALVE OPERATOR	TEMPERATURE DEG. F.	293	295	1	64	SIMULT	NONE
MANUFACTURER: LIMITORQUE	PRESSURE PSIA	60.7	74.7	2,3	64	SIMULT	NONE
MODEL NUMBER: SMB-00	RELATIVE HUMIDITY PCT	100%	100%	2	64	SIMULT	NONE
FUNCTION: SI LP B COLD LEG ISOL MV	CHEMICAL SPRAY	PH = 8.0 NAOH = 30% WT. 2324 PPM BA	PH = 10.5 NAOH = 50% 3000 PPM BA	4,5	87	SIMULT	NONE
SERVICE: CONTROL ROOM ANNUNCIATION	RADIATION RADS	5E7 GAMMA 2E6 BETA	2E8 GAMMA >2E6 BETA	2,6,7,8	64,101	TEST/ANALY	NONE
LOCATION: NR RCP 1B GRID 30/25/600 RX BLDG	AGING	40 YEARS	40 YEARS	4	52	TYPE TEST	NONE
FLOOD LEVEL ELEV: 600 ABOVE FLOOD LEVEL: YES	SUBMERGENCE	NOT REQUIRED	N/A	9	N/A	N/A	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY

NOTES:

32097-A
EP

SYSTEM COMPONENT EVALUATION WORKSHEET

10/30/81
REVISED 11/02/81

UNIT: KEWAUNEE

DOCKET: 50-305

HARSH: YES (T,P,H,CS,R)

EQUIPMENT DESCRIPTION	PARAMETERS	ENVIRONMENT SPECIFICATION	ENVIRONMENT QUALIFICATION	DOCUMENTATION REF. * SPEC.	DOCUMENTATION REF. * QUALIF.	QUAL. METHOD	OUTSTANDING ITEMS
SYSTEM: SAFETY INJECTION	OPERATIONAL TIME	30 DAYS	1 YEAR	47	49	ANALYSIS	NONE
PLANT ID NO: 32098 COMPONENT: MOTOR	TEMPERATURE DEG. F.	293	295	1	64	SIMULT	NONE
MANUFACTURER: LIMITORQUE	PRESSURE PSIA	60.7	74.7	2,3	64	SIMULT.	NONE
MODEL NUMBER: SMB-00	RELATIVE HUMIDITY PCT	100%	100%	2	64	SIMULT.	NONE
FUNCTION: VALVE OPERATOR	CHEMICAL SPRAY	PH = 8.0 2324 PPM BA 30 WT% NAOH	PH = 10.5 3000 PPM BA .59% WT NAOH	4,5	64	SIMULT.	NONE
SERVICE: SI LPB RX VESSEL ISOL MV	RADIATION RADS	5E7 GAMMA 2E6 BETA	2E8 GAMMA >2E6 BETA	2,6,7,8	64,101	TEST/ANALY	NONE
LOCATION: NR S/G 1B GRID 30/60/600 RX BLDG	AGING	40 YEARS	40 YEARS	4	52	TYPE TEST	NONE
FLOOD LEVEL ELEV: 600 ABOVE FLOOD LEVEL: YES	SUBMERGENCE	NOT REQUIRED	N/A	9	N/A	N/A	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY

NOTES:

32098
SI

SYSTEM COMPONENT EVALUATION WORKSHEET

10/30/81
REVISED 11/02/81

UNIT: KEWAUNEE

DOCKET: 50-305

HARSH: YES (T,P,H,CS,R)

EQUIPMENT DESCRIPTION	PARAMETERS	ENVIRONMENT SPECIFICATION	ENVIRONMENT QUALIFICATION	DOCUMENTATION REF.* SPEC.	DOCUMENTATION REF.* QUALIF.	QUAL. METHOD	OUTSTANDING ITEMS
SYSTEM: SAFETY INJECTION	OPERATIONAL TIME	30 DAYS	1 YEAR	47	49	ANALYSIS	NONE
PLANT ID NO: 32100 COMPONENT: MOTOR	TEMPERATURE DEG. F.	293	295	1	64	SIMULT	NONE
	PRESSURE PSIA	60.7	74.7	2,3	64	SIMULT.	NONE
MANUFACTURER: LIMITORQUE MODEL NUMBER: SMB-1	RELATIVE HUMIDITY PCT	100%	100%	2	64	SIMULT.	NONE
FUNCTION: VALVE OPERATOR	CHEMICAL SPRAY	PH = 8.0 2324 PPM BA 30 WT% NAOH	PH = 10.5 3000 PPM BA .59% WT NAOH	4,5	64	SIMULT.	NONE
SERVICE: SI TO RX VESSEL ISOL MV	RADIATION RADS	5E7 GAMMA 2E6 BETA	2E8 GAMMA >2E6 BETA	2,6,7,8	64,101	TEST/ANALY	NONE
LOCATION: NR ACC 1B GRID 14/30/608 RX BLDG	AGING	40 YEARS	40 YEARS	4	52	TYPE TEST	NONE
FLOOD LEVEL ELEV: 600 ABOVE FLOOD LEVEL: YES	SUBMERGENCE	NOT REQUIRED	N/A	9	N/A	N/A	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY

NOTES:

32100
SI

SYSTEM COMPONENT EVALUATION WORKSHEET

10/30/81
REVISED 11/02/81

UNIT: KEWAUNEE

DOCKET: 50-305

HARSH: YES (T,P,H,C,J,B)

EQUIPMENT DESCRIPTION	PARAMETERS	ENVIRONMENT SPECIFICATION	ENVIRONMENT QUALIFICATION	DOCUMENTATION REF.* SPEC.	DOCUMENTATION REF.* QUALIF.	QUAL. METHOD	OUTSTANDING ITEMS
SYSTEM: ACTIVE STATUS PANEL SI	OPERATIONAL TIME	30 DAYS	1 YEAR	47	49	ANALYSIS	NONE
PLANT ID NO: 32100-A COMPONENT: AUX CONTACT IN MOTOR OPERATOR	TEMPERATURE DEG. F.	293	295	1	64	SIMULT	NONE
	PRESSURE PSIA	60.7	74.7	2,3	64	N/A	NONE
MANUFACTURER: LIMITORQUE MODEL NUMBER: SMB-1	RELATIVE HUMIDITY PCT	100%	100%	2	64	N/A	NONE
FUNCTION: SI TO RX VLV SI 302A	CHEMICAL SPRAY	PH = 8.0 NAOH 30% WT. 2324 PPM BA	PH = 10.5	4,5	64	N/A	NONE
SERVICE: CONTROL ROOM ANNUNCIATION	RADIATION RADS	5E7 GAMMA 2E6 BETA	2E8 GAMMA >2E6 BETA	2,6,7,8	64,101	TEST/ANALY	NONE
LOCATION: RID / /608 RX BLDG	AGING	40 YEARS	40 YEARS	4	52	TYPE TEST	NONE
FLOOD LEVEL ELEV: 600 ABOVE FLOOD LEVEL: YES	SUBMERGENCE	NOT REQUIRED	N/A	9	N/A	N/A	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY

NOTES:

449101101
ASP

SYSTEM COMPONENT EVALUATION WORKSHEET

10/30/81
REVISED 11/02/81

UNIT: KEWAUNEE

DOCKET: 50-305

HARSH: YES (T,P,H,CS,R)

EQUIPMENT DESCRIPTION	PARAMETERS	ENVIRONMENT SPECIFICATION	ENVIRONMENT QUALIFICATION	DOCUMENTATION REF.* SPEC.	DOCUMENTATION REF.* QUALIF.	QUAL. METHOD	OUTSTANDING ITEMS
SYSTEM: SAFETY INJECTION	OPERATIONAL TIME	30 DAYS	1 YEAR	47	49	ANALYSIS	NONE
PLANT ID NO: 32101 COMPONENT: MOTOR	TEMPERATURE DEG. F.	293	295	1	64	SIMULT	NONE
MANUFACTURER: LIMITORQUE	PRESSURE PSIA	60.7	74.7	2,3	64	SIMULT.	NONE
MODEL NUMBER: SMB-1	RELATIVE HUMIDITY PCT	100%	100%	2	64	SIMULT.	NONE
FUNCTION: VALVE OPERATOR	CHEMICAL SPRAY	PH = 8.0 2324 PPM BA 30 WT% NAOH	PH = 10.5 3000 PPM BA .59% WT NAOH	4,5	64	SIMULT.	NONE
SERVICE: SI TO RX VESSEL ISOL MV 1B	RADIATION RADS	5E7 GAMMA 2E6 BETA	2E8 GAMMA >2E6 BETA	2,6,7,8	64,101	TEST/ANALY	NONE
LOCATION: NR S/G 1B GRID 15/80/608 RX BLDG	AGING	40 YEARS	40 YEARS	4	52	TYPE TEST	NONE
FLOOD LEVEL ELEV: 600 ABOVE FLOOD LEVEL: YES	SUBMERGENCE	NOT REQUIRED	N/A	9	N/A	N/A	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY

NOTES:

32101
SI

SYSTEM COMPONENT EVALUATION WORKSHEET

10/30/81
REVISED 11/02/81

UNIT: KEWAUNEE

DOCKET: 50-305

HARSH: YES (T,P,H,CS,R)

EQUIPMENT DESCRIPTION	PARAMETERS	ENVIRONMENT SPECIFICATION	ENVIRONMENT QUALIFICATION	DOCUMENTATION REF. * SPEC.	DOCUMENTATION REF. * QUALIF.	QUAL. METHOD	OUTSTANDING ITEMS
SYSTEM: ACTIVE STATUS PANEL SI	OPERATIONAL TIME	30 DAYS	1 YEAR	47	49	ANALYSIS	NONE
PLANT ID NO: 32101-A	TEMPERATURE DEG. F.	293	295	1	64	SIMULT	NONE
COMPONENT: AUX CONTACT IN MOTOR OPERATOR	PRESSURE PSIA	60.7	74.7	2,3	64	N/A	NONE
MANUFACTURER: LIMITORQUE							
MODEL NUMBER: SMB-1	RELATIVE HUMIDITY PCT	100%	100%	2	64	N/A	NONE
FUNCTION: SI TO RX VLV SI 302B	CHEMICAL SPRAY	PH = 8.0 NAOH 30% WT. 2324 PPM BA	PH = 10.5 NAOH 50% WT. 3000 PPM BA	4,5	64	N/A	NONE
SERVICE: CONTROL ROOM ANNUNCIATION	RADIATION RADS	5E7 GAMMA 2E6 BETA	2E8 GAMMA >2E6 BETA	2,6,7,8	64,101	TEST/ANALY	NONE
LOCATION: NR STM GEN 1B GRID 15/80/608 RX BLDG	AGING	40 YEARS	40 YEARS	4	52	TYPE TEST	NONE
FLOOD LEVEL ELEV: 600 ABOVE FLOOD LEVEL: YES	SUBMERGENCE	NOT REQUIRED	N/A	9	N/A	N/A	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY

NOTES:

449101102
ASP

SYSTEM COMPONENT EVALUATION WORKSHEET

10/30/81
REVISED 11/02/81

UNIT: KEWAUNEE

DOCKET: 50-305

HARSH: YES (T,P,H,CS,R)

EQUIPMENT DESCRIPTION	PARAMETERS	ENVIRONMENT SPECIFICATION	ENVIRONMENT QUALIFICATION	DOCUMENTATION REF. * SPEC.	DOCUMENTATION REF. * QUALIF.	QUAL. METHOD	OUTSTANDING ITEMS
SYSTEM: ACTIVE STATUS PANEL	OPERATIONAL TIME	30 DAYS	1 YR. NOTE A	47	49	ANALYSIS	NONE
PLANT ID NO: 32124-A COMPONENT: AUX CONTACT IN MOTOR OPERATOR	TEMPERATURE DEG. F.	293	295	1	64	SIMULT	NONE
MANUFACTURER: LIMITORQUE	PRESSURE PSIA	60.7	74.7	2,3	64	SIMULT	NONE
MODEL NUMBER: SMB-00	RELATIVE HUMIDITY PCT	100%	100%	2	64	SIMULT	NONE
FUNCTION: SL WTR LEAKOFF MV CL	CHEMICAL SPRAY	PH = 8.0 NAOH 30% WT. 2324 PPM BA	PH = 10.5	4,5	64	SIMULT	NONE
SERVICE: CONTROL ROOM ANNUNCIATION	RADIATION RADS	5E7 GAMMA 2E6 BETA	2E8 GAMMA >2E6 BETA	2,6,7,8	64,101	TEST/ANALY	NONE
LOCATION: NW OF RCP 1E GRID 1/3/613 RX BLDG	AGING	40 YEARS	40 YEARS	4	52	TYPE TEST	NONE
FLOOD LEVEL ELEV: 600 ABOVE FLOOD LEVEL: YES	SUBMERGENCE	NOT REQUIRED	N/A	9	N/A	N/A	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY

NOTES:

A) FOR TEMPERATURE 152 F AND PRESSURE 5 PSIG.

449110604
ASP

SYSTEM COMPONENT EVALUATION WORKSHEET

10/30/81
REVISED 11/02/81

UNIT: KEWAUNEE

DOCKET: 50-305

HARSH: YES (T,P,H,CS,R)

EQUIPMENT DESCRIPTION	PARAMETERS	ENVIRONMENT SPECIFICATION	ENVIRONMENT QUALIFICATION	DOCUMENTATION REF. * SPEC.	DOCUMENTATION REF. * QUALIF.	QUAL. METHOD	OUTSTANDING ITEMS
SYSTEM: CHEMICAL & VOL. CONTROL	OPERATIONAL TIME	30 MIN.	1 YEAR	47	49	ANALYSIS	NONE
PLANT ID NO: 32124#	TEMPERATURE DEG. F.	293	295	1	64	SIMULT.	NONE
COMPONENT: MOTOR	PRESSURE PSIA	60.7	74.7	2, 3	64	SIMULT.	NONE
MANUFACTURER: LIMITORQUE							
MODEL NUMBER: SMB-00X	RELATIVE HUMIDITY PCT	100%	100%	2	64	SIMULT	NONE
FUNCTION: VALVE OPERATOR	CHEMICAL SPRAY	PH = 8.0 2324 PPM BA 30 WT % NAOH	PH = 10.5	4, 5	64	SIMULT	NONE
SERVICE: SEAL WATER LEAKOFF SHUT OFF MV	RADIATION RADS	5E7 GAMMA 2E6 BETA	2E8 GAMMA >2E6 BETA	2,6,7,8	64,101	TEST/ANALY	NONE
LOCATION: GRID 1/3/613 RX BLDG.	AGING	40 YEARS	40 YEARS	4	52	TYPE TEST	NONE
FLOOD LEVEL ELEV: 600' ABOVE FLOOD LEVEL: YES	SUBMERGENCE	NOT REQUIRED	N/A	9	N/A	N/A	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY

NOTES:

32124
CVC

SYSTEM COMPONENT EVALUATION WORKSHEET

10/30/81
REVISED 11/02/81

UNIT: KEWAUNEE

DOCKET: 50-305

HARSH: YES (T,P,H,CS,R)

EQUIPMENT DESCRIPTION	PARAMETERS	ENVIRONMENT SPECIFICATION	ENVIRONMENT QUALIFICATION	DOCUMENTATION REF. * SPEC.	DOCUMENTATION REF. * QUALIF.	QUAL. METHOD	OUTSTANDING ITEMS
SYSTEM: POST LOCA H2	OPERATIONAL TIME	60 DAYS	1 YEAR	86	19	TYPE TEST	NONE
PLANT ID NO: 32145 COMPONENT: MV	TEMPERATURE DEG. F.	293	295	1	64	SIMULT	NONE
	PRESSURE PSIA	60.7	74.7 A	2,3	64	SIMULT	NONE
MANUFACTURER: LIMITORQUE MODEL NUMBER: SMB-000	RELATIVE HUMIDITY PCT	100%	100%	2	64	SIMULT	NONE
FUNCTION: VALVE OPERATOR	CHEMICAL SPRAY	PH = 80 2324 PPM BA 30 WT% NAOH	PH = 10.5 3,000 PPM BA .59% WT NAOH	4,5	100	SIMULT	NONE
SERVICE: POST LOCA HYDRO VENT ISOLATION 1A MV	RADIATION RADS	5E7 GAMMA 2E6 BETA	2E8 GAMMA >2E6 BETA	2,6,7,8	64,101	TEST/ANALY	NONE
LOCATION: GRID 2/116/630 RX BLDG.	AGING	40 YEARS	40 YEARS	4	52	TYPE TEST	NONE
FLOOD LEVEL ELEV: 600' ABOVE FLOOD LEVEL: YES	SUBMERGENCE	NOT REQUIRED	N/A	9	N/A	N/A	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY

NOTES:

SYSTEM COMPONENT EVALUATION WORKSHEET

10/30/81
REVISED 11/02/81

UNIT: KEWAUNEE

DOCKET: 50-305

HARSH: YES (T,P,H,CS,R)

EQUIPMENT DESCRIPTION	PARAMETERS	ENVIRONMENT SPECIFICATION	ENVIRONMENT QUALIFICATION	DOCUMENTATION REF. * SPEC.	DOCUMENTATION REF. * QUALIF.	QUAL. METHOD	OUTSTANDING ITEMS
SYSTEM: POST LOCA H2	OPERATIONAL TIME	60 DAYS	1 YEAR	86	52	TYPE TEST	NONE
PLANT ID NO: 32146 COMPONENT: MV	TEMPERATURE DEG. F.	293	295	1	64	SIMULT	NONE
	PRESSURE PSIA	60.7	74.7 A	2,3	64	SIMULT	NONE
MANUFACTURER: LIMITORQUE MODEL NUMBER: SMB-000	RELATIVE HUMIDITY PCT	100%	100%	2	64	SIMULT	NONE
FUNCTION: VALVE OPERATOR	CHEMICAL SPRAY	PH = 80 2324 PPM BA 30 WT% NAOH	PH = 10.5 3,000 PPM BA .59% WT NAOH	4,5	100	SIMULT	NONE
SERVICE: POST LOCA HYDRO VENT ISOLATION 1B MV	RADIATION RADS	5E7 GAMMA 2E6 BETA	2E8 GAMMA >2E6 BETA	2,6,7,8	64,101	TEST/ANALY	NONE
LOCATION: GRID 2/260/628 RX BLDG.	AGING	40 YEARS	40 YEARS	4	52	TYPE TEST	NONE
FLOOD LEVEL ELEV: 600' ABOVE FLOOD LEVEL: YES	SUBMERGENCE	NOT REQUIRED	N/A	9	N/A	N/A	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY.

NOTES:

SYSTEM COMPONENT EVALUATION WORKSHEET

10/30/81
REVISED 11/02/81

UNIT: KEWAUNEE

DOCKET: 50-305

HARSH: YES (T,P,H,CS,B,S)

EQUIPMENT DESCRIPTION	PARAMETERS	ENVIRONMENT SPECIFICATION	ENVIRONMENT QUALIFICATION	DOCUMENTATION REF. * SPEC.	DOCUMENTATION REF. * QUALIF.	QUAL. METHOD	OUTSTANDING ITEMS
SYSTEM: RESIDUAL HEAT REMOVAL SYSTEM	OPERATIONAL TIME	2 HOURS	4 HOURS	35	79	SIMULT	NONE
PLANT ID NO: 16695 COMPONENT: LEVL INDICATOR/ALARM	TEMPERATURE DEG. F.	293	NOTE B	1	NOTE B	NOTE B	NONE
MANUFACTURER: MAGNETROL	PRESSURE PSIA	60.7	114.7	2,3	79	SIMULT	NONE
MODEL NUMBER: A-153 FEPTDM	RELATIVE HUMIDITY PCT	100%	100%	2	79	SIMULT	NONE
FUNCTION: ALARM	CHEMICAL SPRAY	PH = 8.0 2324 PPM BA NAOH 30WT%	PH = 9.5	4,5	79	SEQUENT	NONE
SERVICE: RHR SUMP B LVL B-1 LA	RADIATION RADS	7.2E6 GAMMA (A) 2E6 BETA	1.4E7 GAMMA >2E6 BETA	78,8	80,101	TEST/ANALY	NONE
LOCATION: TOP OF SUMP B GRID 16.5/10/595 RX BLDG	AGING	NOTE B	NOTE B	NOTE B	NOTE B	NOTE B	NONE
FLOOD LEVEL ELEV: 600 ABOVE FLOOD LEVEL: NO	SUBMERGENCE	REQUIRED	YES	9	79	SEPARATE	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY

NOTES:

A) FSAR SEC. 7.5 STATES THAT 3.6E6 RADS IS THE MAXIMUM HOURLY DOSE IN THE CONTAINMENT. FOR TWO HOURS THE DOSE IS <7.2E6 RADS.
B) STUDY IN PROGRESS BY EDS NUCLEAR, INC.

16695
RHR

SYSTEM COMPONENT EVALUATION WORKSHEET

10/30/81
REVISED 11/02/81

UNIT: KEWAUNEE

DOCKET: 50-305

HARSH: YES (T,P,H,CS,R,S)

EQUIPMENT DESCRIPTION	PARAMETERS	ENVIRONMENT SPECIFICATION	ENVIRONMENT QUALIFICATION	DOCUMENTATION REF. * SPEC.	DOCUMENTATION REF. * QUALIF.	QUAL. METHOD	OUTSTANDING ITEMS
SYSTEM: RESIDUAL HEAT REMOVAL SYSTEM	OPERATIONAL TIME	2 HOURS	4 HOURS	35	79	SIMULT	NONE
PLANT ID NO: 16696	TEMPERATURE DEG. F.	293	NOTE B	1	NOTE B	NOTE B	NONE
COMPONENT: LEVEL INDICATOR/ ALARM	PRESSURE PSIA	60.7	114.7	2,3	79	SIMULT	NONE
MANUFACTURER: MAGNETROL							
MODEL NUMBER: A-153 FEPTDM	RELATIVE HUMIDITY PCT	100%	100%	2	79	SIMULT	NONE
FUNCTION: ALARM	CHEMICAL SPRAY	PH = 8.0 2324 PPM BA NAOH 30WT%	PH = 9.5	4,5	79	SEQUENT	NONE
SERVICE: RHR SUMP B LVL B-2 LA	RADIATION RADS	7.2E6 GAMMA (A) 2E6 BETA	1.4E7 GAMMA >2E6 BETA	78,8	80,101	TEST/ANALY	NONE
LOCATION: TOP OF SUMP B GRID 16.5/23/595 RX BLDG	AGING	NOTE B	NOTE B	NOTE B	NOTE B	NOTE B	NONE
FLOOD LEVEL ELEV: 600 ABOVE FLOOD LEVEL: NO	SUBMERGENCE	REQUIRED	YES	9	79	SEPARATE	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY

NOTES:

A) FSAR. 7.5 STATES THAT <6E6 RADS IS MAX. HOURLY DOSE IN CONTAINMENT. FOR TWO HOURS, THE DOSE IS <7.2E6 RADS.
B) STUDY IN PROGRESS BY EDS NUCLEAR, INC.

16696
RHR

SYSTEM COMPONENT EVALUATION WORKSHEET

10/30/81
REVISED 11/02/81

UNIT: KEWAUNEE

DOCKET: 50-305

HARSH: YES (T,P,H,CS,B)

EQUIPMENT DESCRIPTION	PARAMETERS	ENVIRONMENT SPECIFICATION	ENVIRONMENT QUALIFICATION	DOCUMENTATION REF. * SPEC.	DOCUMENTATION REF. * QUALIF.	QUAL. METHOD	OUTSTANDING ITEMS
SYSTEM: EMERGENCY PROCEDURES	OPERATIONAL TIME	30 DAYS	NOTE A	87	NOTE A	NOTE A	NONE
PLANT ID NO: 31111-L COMPONENT: LIMIT SWITCH	TEMPERATURE DEG. F.	293	NOTE A	1	NOTE A	NOTE A	NONE
MANUFACTURER: NAMCO	PRESSURE PSIA	60.7	NOTE A	23	NOTE A	NOTE A	NONE
MODEL NUMBER: D-2400X	RELATIVE HUMIDITY PCT	100%	NOTE A	23	NOTE A	NOTE A	NONE
FUNCTION: POSITION INDICATION ON PRZR SPRAY FROM COLD LEG LOOP B CV	CHEMICAL SPRAY	PH = 8.0 NAOH 30% WT. 2324 PPM BA	NOTE A	41	NOTE A	NOTE A	NONE
SERVICE: CONTROL ROOM INDICATION	RADIATION RADS	5E7 GAMMA 2E6 BETA	NOTE A	2,6,7,8	NOTE A	NOTE A	NONE
LOCATION: NR RC PMP GRID 36/30/627 RX BLDG	AGING	40 YEARS	NOTE A	8	NOTE A	NOTE A	NONE
FLOOD LEVEL ELEV: 600 ABOVE FLOOD LEVEL: YES	SUBMERGENCE	NOT REQUIRED	N/A	9	N/A	N/A	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY

NOTES:

A) TO BE REPLACED WITH NAMCO EA-180 DURING NEXT REFUELING.

SYSTEM COMPONENT EVALUATION WORKSHEET

UNIT: KEWAUNEE

10/30/81
REVISED 11/02/81

DOCKET: 50-305

HARSH: YES (T,P,H,CS,R)

EQUIPMENT DESCRIPTION	PARAMETERS	ENVIRONMENT SPECIFICATION	ENVIRONMENT QUALIFICATION	DOCUMENTATION REF. * SPEC.	DOCUMENTATION REF. * QUALIF.	QUAL. METHOD	OUTSTANDING ITEMS
SYSTEM: EMERGENCY PROCEDURES	OPERATIONAL TIME	30 DAYS	NOTE A	87	NOTE A	NOTE A	NONE
PLANT ID NO: 31112-L COMPONENT: LIMIT SWITCH	TEMPERATURE DEG. F.	293	NOTE A	1	NOTE A	NOTE A	NONE
MANUFACTURER: NAMCO	PRESSURE PSIA	60.7	NOTE A	23	NOTE A	NOTE A	NONE
MODEL NUMBER: D-2400X	RELATIVE HUMIDITY PCT	100%	NOTE A	23	NOTE A	NOTE A	NONE
FUNCTION: POSITION INDICATION ON PRZR SPRAY FROM COLD LEG LOOP A CV SERVICE: CONTROL ROOM INDICATION	CHEMICAL SPRAY	PH = 8.0 NAOH 30% WT. 2324 PPM BA	NOTE A	45	NOTE A	NOTE A	NONE
	RADIATION RADS	5E7 GAMMA 2E6 BETA	NOTE A	2,6,7,8	NOTE A	NOTE A	NONE
LOCATION: NR RC PMP GRID 33/237/617 RX BLDG	AGING	40 YEARS	NOTE A	8	NOTE A	NOTE A	NONE
FLOOD LEVEL ELEV: 600 ABOVE FLOOD LEVEL: YES	SUBMERGENCE	NOT REQUIRED	N/A	9	N/A	N/A	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY

NOTES:

A) TO BE REPLACED WITH NAMCO EA-180 DURING NEXT REFUELING.

31112-L
EP

SYSTEM COMPONENT EVALUATION WORKSHEET

11/02/81
REVISED 11/02/81

UNIT: KEWAUNEE

DOCKET: 50-305

HARSH: YES (T,P,H,CS,R,S)

EQUIPMENT DESCRIPTION	PARAMETERS	ENVIRONMENT SPECIFICATION	ENVIRONMENT QUALIFICATION	DOCUMENTATION REF. * SPEC.	DOCUMENTATION REF. * QUALIF.	QUAL. METHOD	OUTSTANDING ITEMS
SYSTEM: CHEMICAL & VOL. CONTROL	OPERATIONAL TIME	30 DAYS	30 DAYS	87	50	TYPE TEST	NONE
PLANT ID NO: 31231-L COMPONENT: LIMIT SWITCH	TEMPERATURE DEG. F.	293	340	1	50	TYPE TEST	NONE
	PRESSURE PSIA	60.7	84.7	2, 3	50	TYPE TEST	NONE
MANUFACTURER: NAMCO MODEL NUMBER: EA-180	RELATIVE HUMIDITY PCT	100%	100%	2	50	TYPE TEST	NONE
FUNCTION: CONTROL	CHEMICAL SPRAY	PH = 8.0 2324 PPM BA 30 WT % NAOH	PH = 10.5	4, 5	50	TYPE TEST	NONE
SERVICE: CONTAINMENT ISOLATION VALVE	RADIATION RADS	5E7 GAMMA 2E6 BETA	2.04E8 GAMMA >2E6 BETA	2,6,7,8	50,101	TEST/ANALY	NONE
LOCATION: 596' RX BLDG	AGING	40 YEARS	40 YEARS	8	50	TYPE TEST	NONE
FLOOD LEVEL ELEV: 600' ABOVE FLOOD LEVEL: NO	SUBMERGENCE	REQUIRED	NOTE A	9	NOTE A	NOTE A	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY

NOTES:

A) CONAX FITTINGS TO SEAL THE SWITCH WILL BE INSTALLED DURING THE FIRST OUTAGE OF SUFFICIENT DURATION AFTER RECEIPT OF EQUIPMENT.

31231-L
CVC

SYSTEM COMPONENT EVALUATION WORKSHEET

10/30/81
REVISED 11/02/81

UNIT: KEWAUNEE

DOCKET: 50-305

HARSH: YES (T,P,H,CS,R,S)

EQUIPMENT DESCRIPTION	PARAMETERS	ENVIRONMENT SPECIFICATION	ENVIRONMENT QUALIFICATION	DOCUMENTATION REF. * SPEC.	DOCUMENTATION REF. * QUALIF.	QUAL. METHOD	OUTSTANDING ITEMS
SYSTEM: ACTIVE STATUS PANEL	OPERATIONAL TIME	30 DAYS	30 DAYS	87	50	TYPE TEST	NONE
PLANT ID NO: 31231-L COMPONENT: LIMIT SWITCHES	TEMPERATURE DEG. F.	293	340	1	50	TYPE TEST	NONE
MANUFACTURER: NAMCO	PRESSURE PSIA	60.7	84.7	2,3	50	TYPE TEST	NONE
MODEL NUMBER: EA 180	RELATIVE HUMIDITY PCT	100%	100%	2	50	TYPE TEST	NONE
FUNCTION: LDN ORIF 1A CV CL	CHEMICAL SPRAY	PH = 8.0 NAOH 30% WT. 2324 PPM BA	PH = 10.5	4,5	50	TYPE TEST	NONE
SERVICE: CONTROL ROOM ANNUNCIATION	RADIATION RADS	5E7 GAMMA 2E6 BETA	2.04E8 GAMMA >2E6 BETA	2,6,7,8	50,101	TEST/ANALY	NONE
LOCATION: AT REGEN HTEX GRID 7/320/596 RX BLDG	AGING	40 YEARS	40 YEARS	8	50	TYPE TEST	NONE
FLOOD LEVEL ELEV: 600 ABOVE FLOOD LEVEL: NO	SUBMERGENCE	REQUIRED	NOTE A	9	NOTE A	NOTE A	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY

NOTES:

A) CONAX FITTINGS TO SEAL SWITCH WILL BE INSTALLED DURING THE FIRST OUTAGE OF SUFFICIENT DURATION AFTER RECEIPT OF EQUIPMENT.

449110601
ASP

SYSTEM COMPONENT EVALUATION WORKSHEET

10/30/81
REVISED 11/02/81

UNIT: KEWAUNEE

DOCKET: 50-305

HARSH: YES (T,P,H,CS,R,S)

EQUIPMENT DESCRIPTION	PARAMETERS	ENVIRONMENT SPECIFICATION	ENVIRONMENT QUALIFICATION	DOCUMENTATION REF. * SPEC.	DOCUMENTATION REF. * QUALIF.	QUAL. METHOD	OUTSTANDING ITEMS
SYSTEM: CHEMICAL & VOL. CONTROL	OPERATIONAL TIME	30 DAYS	30 DAYS	46	50	TYPE TEST	NONE
PLANT ID NO: 31232-L COMPONENT: LIMIT SWITCH	TEMPERATURE DEG. F.	293	340	1	50	TYPE TEST	NONE
MANUFACTURER: NAMCO	PRESSURE PSIA	60.7	84.7	2, 3	50	TYPE TEST	NONE
MODEL NUMBER: EA-180	RELATIVE HUMIDITY PCT	100%	100%	2	50	TYPE TEST	NONE
FUNCTION: CONTROL	CHEMICAL SPRAY	PH = 8.0 2324 PPM BA 30 WT % NAOH	PH = 10.5	4, 5	50	TYPE TEST	NONE
SERVICE: CONTAINMENT ISOLATION VALVE	RADIATION RADS	5E7 GAMMA 2E6 BETA	2.04E8 GAMMA >2E6 BETA	2,6,8	50,101	TEST/ANALY	NONE
LOCATION: 596' RX BLDG	AGING	40 YEARS	40 YEARS	2	50	TYPE TEST	NONE
FLOOD LEVEL ELEV: 600' ABOVE FLOOD LEVEL: NO	SUBMERGENCE	REQUIRED	NOTE A	9	NOTE A	NOTE A	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY

NOTES:

A) CONAX FITTINGS TO SEAL THE SWITCH WILL BE INSTALLED DURING THE FIRST OUTAGE OF SUFFICIENT DURATION AFTER RECEIPT OF EQUIPMENT.

31232-L
CVC

SYSTEM COMPONENT EVALUATION WORKSHEET

10/30/81
REVISED 11/02/81

UNIT: KEWAUNEE

DOCKET: 50-305

HARSH: YES (T,P,H,CS,R,S)

EQUIPMENT DESCRIPTION	PARAMETERS	ENVIRONMENT SPECIFICATION	ENVIRONMENT QUALIFICATION	DOCUMENTATION REF. * SPEC.	DOCUMENTATION REF. * QUALIF.	QUAL. METHOD	OUTSTANDING ITEMS
SYSTEM: ACTIVE STATUS PANEL	OPERATIONAL TIME	30 DAYS	30 DAYS	87	50	TYPE TEST	NONE
PLANT ID NO: 31232-L COMPONENT: LIMIT SWITCHES	TEMPERATURE DEG. F.	293	340	1	50	TYPE TEST	NONE
MANUFACTURER: NAMCO	PRESSURE PSIA	60.7	84.7	2,3	50	TYPE TEST	NONE
MODEL NUMBER: EA 180	RELATIVE HUMIDITY PCT	100%	100%	2	50	TYPE TEST	NONE
FUNCTION: LDN ORIF 1B CV CL	CHEMICAL SPRAY	PH = 8.0 NAOH 30% WT. 2324 PPM BA	PH = 10.5	4,5	50	TYPE TEST	NONE
SERVICE: CONTROL ROOM ANNUNCIATION	RADIATION RADS	5E7 GAMMA 2E6 BETA	2.04E8 GAMMA >2E6 BETA	2,6,7,8	50,101	TEST/ANALY	NONE
LOCATION: AT REGEN HTEX GRID 9/320/596 RX BLDG	AGING	40 YEARS	40 YEARS	8	50	TYPE TEST	NONE
FLOOD LEVEL ELEV: 600 ABOVE FLOOD LEVEL: NO	SUBMERGENCE	REQUIRED	NOTE A	9	50	TYPE TEST	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY

NOTES:

A) CONAX FITTINGS TO SEAL SWITCH WILL BE INSTALLED DURING THE FIRST OUTAGE OF SUFFICIENT DURATION AFTER RECEIPT OF EQUIPMENT.

449110602
ASP

SYSTEM COMPONENT EVALUATION WORKSHEET

10/30/81
REVISED 11/02/81

UNIT: KEWAUNEE

DOCKET: 50-305

HARSH: YES (T,P,H,CS,R,S)

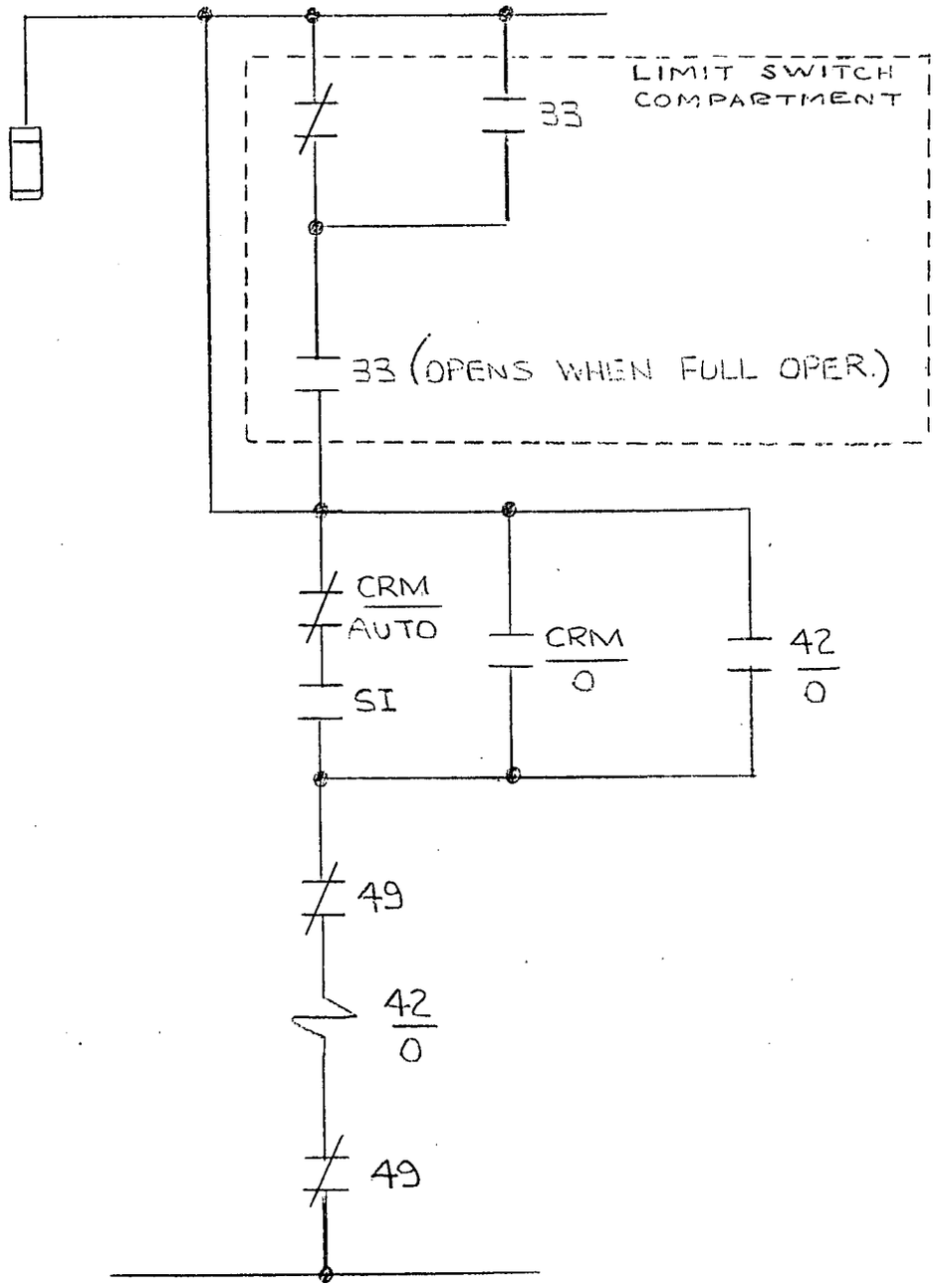
EQUIPMENT DESCRIPTION	PARAMETERS	ENVIRONMENT SPECIFICATION	ENVIRONMENT QUALIFICATION	DOCUMENTATION REF. * SPEC.	DOCUMENTATION REF. * QUALIF.	QUAL. METHOD	OUTSTANDING ITEMS
SYSTEM: CHEMICAL & VOL. CONTROL	OPERATIONAL TIME	30 DAYS	30 DAYS	87	50	TYPE TEST	NONE
PLANT ID NO: 31233-L COMPONENT: LIMIT SWITCH	TEMPERATURE DEG. F.	293	340	1	50	TYPE TEST	NONE
MANUFACTURER: NAMCO	PRESSURE PSIA	60.7	84.7	2, 3	50	TYPE TEST	NONE
MODEL NUMBER: EA-180	RELATIVE HUMIDITY PCT	100%	100%	2	50	TYPE TEST	NONE
FUNCTION: CONTROL	CHEMICAL SPRAY	PH = 8.0 2324 PPM BA 30 WT % NAOH	PH = 10.5	4, 5	50	TYPE TEST	NONE
SERVICE: CONTAINMENT ISOLATION VALVE	RADIATION RADS	5E7 GAMMA 2E6 BETA	2.04E8 GAMMA >2E6 BETA	2,6,7,8	50,101	TEST/ANALY	NONE
LOCATION: 596' RX BLDG	AGING	40 YEARS	40 YEARS	2	50	TYPE TEST	NONE
FLOOD LEVEL ELEV: 600' ABOVE FLOOD LEVEL: NO	SUBMERGENCE	REQUIRED	NOTE A	NOTE B	NOTE A	NOTE A	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY

NOTES:

A) CONAX FITTINGS TO SEAL THE SWITCH WILL BE INSTALLED DURING THE FIRST OUTAGE OF SUFFICIENTDURATION AFTER RECEIPT OF EQUIPMENT.
B) IF AN ADVERSE ENVIRONMENT RENDERS THE SWITCH INOPERABLE (I.E. SUBMERGENCY SHORTS THE SWITCH) THE ASSOCIATED CONTROL VALVE WILL FALL CLOSED AND REMAIN IN THAT POSTION DUE TO TO THE LOCK+IN FEATURE SHOWN ON THE ATTACHED SCHEMATIC.

31233-L
CVC



PLANT ID No. 31233

SYSTEM COMPONENT EVALUATION WORKSHEET

11/02/81
REVISED 11/02/81

UNIT: KEWAUNEE

DOCKET: 50-305

HARSH: YES (T,P,H,CS,R)

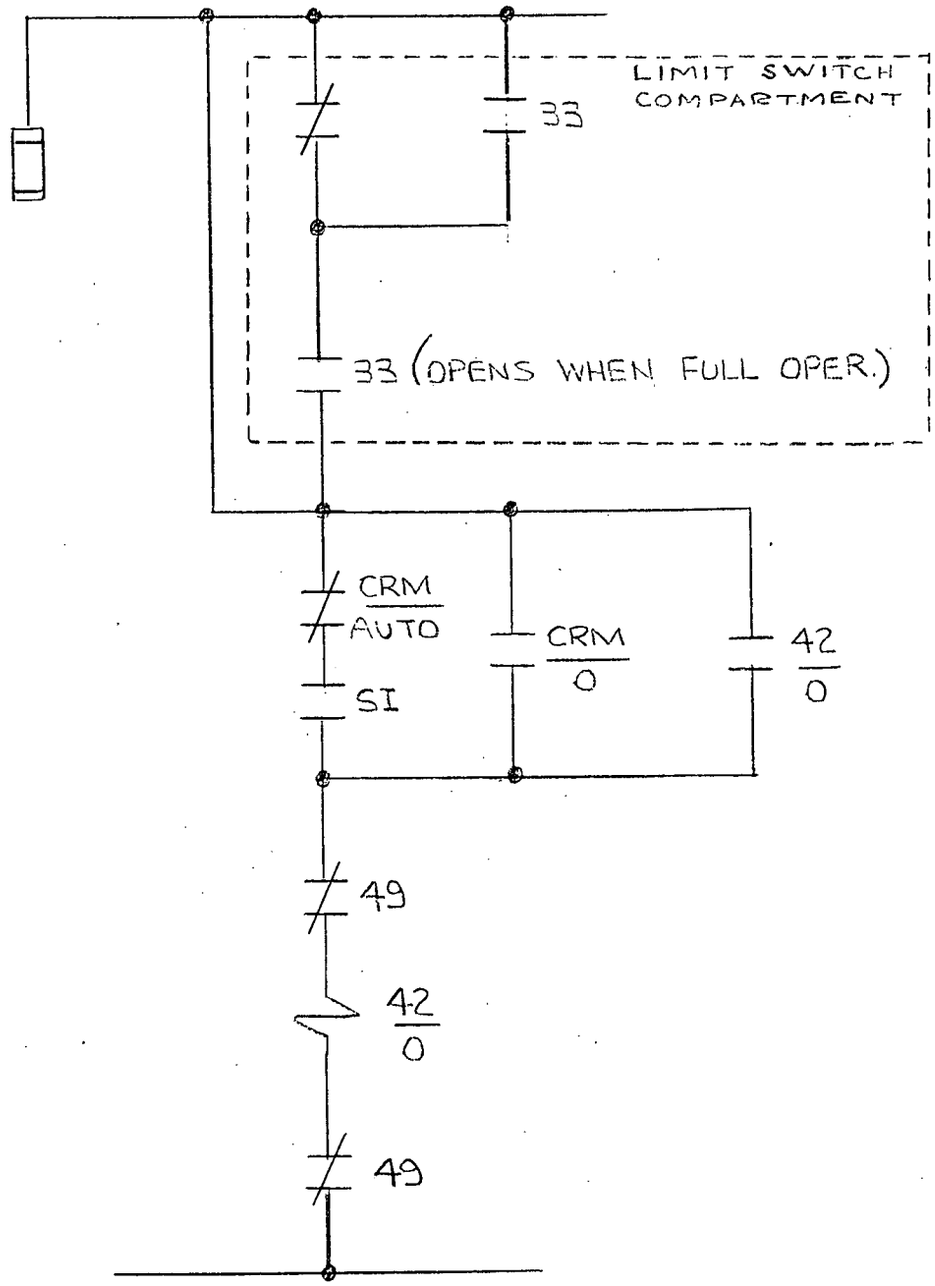
EQUIPMENT DESCRIPTION	PARAMETERS	ENVIRONMENT SPECIFICATION	ENVIRONMENT QUALIFICATION	DOCUMENTATION REF. * SPEC.	DOCUMENTATION REF. * QUALIF.	QUAL. METHOD	OUTSTANDING ITEMS
SYSTEM: ACTIVE STATUS PANEL	OPERATIONAL TIME	30 DAYS	30 DAYS	87	50	TYPE TEST	NONE
PLANT ID NO: 31233-L COMPONENT: LIMIT SWITCHES	TEMPERATURE DEG. F.	293	340	1	50	TYPE TEST	NONE
MANUFACTURER: NAMCO	PRESSURE PSIA	60.7	84.7	2,3	50	TYPE TEST	NONE
MODEL NUMBER: EA 180	RELATIVE HUMIDITY PCT	100%	100%	2	50	TYPE TEST	NONE
FUNCTION: LDN ORIF 1C CV CL	CHEMICAL SPRAY	PH = 8.0 NAOH 30% WT. 2324 PPM BA	PH = 10.5	4,5	50	TYPE TEST	NONE
SERVICE: CONTROL ROOM ANNUNCIATION	RADIATION RADS	5E7 GAMMA 2E6 BETA	2.04E8 GAMMA >2E6 BETA	2,6,7,8	50,101	TEST/ANALY	NONE
LOCATION: AT REGEN HTEX GRID 11/320/596 RX BLDG	AGING	40 YEARS	40 YEARS	8	50	TYPE TEST	NONE
FLOOD LEVEL ELEV: 600 ABOVE FLOOD LEVEL: NO	SUBMERGENCE	REQUIRED	NOTE A	NOTE B	NOTE A	NOTE A	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY

NOTES:

A) CONAX FITTINGS TO SEAL THE SWITCH WILL BE INSTALLED DURING THE FIRST OUTAGE OF SUFFICIENT DURATION AFTER RECEIPT OF EQUIPMENT.
B) IF AN ADVERSE ENVIRONMENT RENDERS THE SWITCH INOPERABLE (I.E. SUBMERGENCE SHORTS THE SWITCH) THE ASSOCIATED CONTROL VALVE WILL FALL CLOSED AND REMAIN IN THAT POSITION DUE TO THE LOCK-IN FEATURE SHOWN ON THE ATTACHED SCHEMATIC.

449110603
ASP



PLANT ID No. 31233

SYSTEM COMPONENT EVALUATION WORKSHEET

10/30/81
REVISED 11/02/81

UNIT: KEWAUNEE

DOCKET: 50-305

HARSH: YES (T,P,H,CS,R)

EQUIPMENT DESCRIPTION	PARAMETERS	ENVIRONMENT SPECIFICATION	ENVIRONMENT QUALIFICATION	DOCUMENTATION REF. * SPEC.	DOCUMENTATION REF. * QUALIF.	QUAL. METHOD	OUTSTANDING ITEMS
SYSTEM: PRIMARY SAMPLING	OPERATIONAL TIME	30 DAYS	30 DAYS	87	50	TYPE TEST	NONE
PLANT ID NO: 31263-L# COMPONENT: LIMIT SWITCHES	TEMPERATURE DEG. F.	293	340	1	50	TYPE TEST	NONE
MANUFACTURER: NAMCO	PRESSURE PSIA	60.7	84.7	2,3	50	TYPE TEST	NONE
MODEL NUMBER: EA 180	RELATIVE HUMIDITY PCT	100%	100%	2	50	TYPE TEST	NONE
FUNCTION: PRZR STM SAMPLING ISOL CV	CHEMICAL SPRAY	PH = 8.0 NAOH 30% WT. 2324 PPM BA	PH = 10.5	4,5	50	TYPE TEST	NONE
SERVICE: CONTROL ROOM INDICATION	RADIATION RADS	5E7 GAMMA 2E6 BETA	2.04E8 GAMMA >2E6 BETA	2,6,7,8	50,101	TEST/ANALY	NONE
LOCATION: NR PRZR GRID 17/105/646 RX BLDG	AGING	40 YEARS	40 YEARS	2	50	TYPE TEST	NONE
FLOOD LEVEL ELEV: 600 ABOVE FLOOD LEVEL: YES	SUBMERGENCE	NOT REQUIRED	N/A	9	N/A	N/A	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY

NOTES:

31263-L
PS

SYSTEM COMPONENT EVALUATION WORKSHEET

10/30/81
REVISED 11/02/81

UNIT: KEWAUNEE

DOCKET: 50-305

HARSH: YES (T,P,H,CS,B)

EQUIPMENT DESCRIPTION	PARAMETERS	ENVIRONMENT SPECIFICATION	ENVIRONMENT QUALIFICATION	DOCUMENTATION REF. * SPEC.	DOCUMENTATION REF. * QUALIF.	QUAL. METHOD	OUTSTANDING ITEMS
SYSTEM: PRIMARY SAMPLING	OPERATIONAL TIME	30 DAYS	30 DAYS	87	50	TYPE TEST	NONE
PLANT ID NO: 31264-L# COMPONENT: LIMIT SWITCHES	TEMPERATURE DEG. F.	293	340	1	50	TYPE TEST	NONE
MANUFACTURER: NAMCO	PRESSURE PSIA	60.7	84.7	2,3	50	TYPE TEST	NONE
MODEL NUMBER: EA 180	RELATIVE HUMIDITY PCT	100%	100%	2	50	TYPE TEST	NONE
FUNCTION: POSITION INDICATION ON PRZR LIQ SAMPLE ISOL CV SERVICE: CONTROL ROOM INDICATION	CHEMICAL SPRAY	PH = 8.0 NAOH 30% WT. 2324 PPM BA	PH = 10.5	4,5	50	TYPE TEST	NONE
	RADIATION RADS	5E7 GAMMA 2E6 BETA	2.04E8 GAMMA >2E6 BETA	2,6,7,8	50,101	TEST/ANALY	NONE
LOCATION: NR PRZR GRID 23/122/631 RX BLDG	AGING	40 YEARS	40 YEARS	2	50	TYPE TEST	NONE
FLOOD LEVEL ELEV: 600 ABOVE FLOOD LEVEL: YES	SUBMERGENCE	NOT REQUIRED	N/A	9	N/A	N/A	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY

NOTES:

31264-L
PS

SYSTEM COMPONENT EVALUATION WORKSHEET

10/30/81
REVISED 11/02/81

UNIT: KEWAUNEE

DOCKET: 50-305

HARSH: YES (T,P,H,CS,R)

EQUIPMENT DESCRIPTION	PARAMETERS	ENVIRONMENT SPECIFICATION	ENVIRONMENT QUALIFICATION	DOCUMENTATION REF. * SPEC.	DOCUMENTATION REF. * QUALIF.	QUAL. METHOD	OUTSTANDING ITEMS
SYSTEM: EMERGENCY PROCEDURE	OPERATIONAL TIME	30 DAYS	NOTE A	87	NOTE A	NOTE A	NONE
PLANT ID NO: 31265-L COMPONENT: LIMIT SWITCHES	TEMPERATURE DEG. F.	293	NOTE A	1	NOTE A	NOTE A	NONE
MANUFACTURER: NAMCO	PRESSURE PSIA	60.7	NOTE A	23	NOTE A	NOTE A	NONE
MODEL NUMBER: D-2400	RELATIVE HUMIDITY PCT	100%	NOTE A	23	NOTE A	NOTE A	NONE
FUNCTION: POSITION INDICATION ON RC HOT LEG SAMPLE ISOL CV SERVICE: CONTROL ROOM INDICATION	CHEMICAL SPRAY	PH = 8.0 NAOH 30% WT. 2324 PPM BA	NOTE A	4,5	NOTE A	NOTE A	NONE
	RADIATION RADS	5E7 GAMMA 2E6 BETA	NOTE A	2,6,7,8	NOTE A	NOTE A	NONE
LOCATION: NR S/G 1B GRID 34/58/624 RX BLDG	AGING	40 YEARS	NOTE A	8	NOTE A	NOTE A	NONE
FLOOD LEVEL ELEV: 600 ABOVE FLOOD LEVEL: YES	SUBMERGENCE	NOT REQUIRED	N/A	9	N/A	N/A	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY

NOTES:

A) TO BE REPLACED WITH NAMCO EA-180 DURING NEXT REFUELING.

SYSTEM COMPONENT EVALUATION WORKSHEET

10/30/81
REVISED 11/02/81

UNIT: KEWAUNEE

DOCKET: 50-305

HARSH:

EQUIPMENT DESCRIPTION	PARAMETERS	ENVIRONMENT SPECIFICATION	ENVIRONMENT QUALIFICATION	DOCUMENTATION REF.* SPEC.	DOCUMENTATION REF.* QUALIF.	QUAL. METHOD	OUTSTANDING ITEMS
SYSTEM: SECONDARY SAMP.	OPERATIONAL TIME	30 DAYS	30 DAYS	87	50	TYPE TEST	NONE
PLANT ID NO: 31270-L COMPONENT: LIMIT SWITCHES	TEMPERATURE DEG. F.	293	340	1	50	TYPE TEST	NONE
MANUFACTURER: NAMCO	PRESSURE PSIA	60.7	84.7	2,3	50	TYPE TEST	NONE
MODEL NUMBER: EA-180	RELATIVE HUMIDITY PCT	100%	100%	2	50	TYPE TEST	NONE
FUNCTION: CONTROL	CHEMICAL SPRAY	PH = 8.0 2324 PPM BA 30 WT% NAOH	PH = 10.5	4,5	50	TYPE TEST	NONE
SERVICE: CNTMT ISOL S/G 1B SAMPLING STOP CV	RADIATION RADS	5E7 GAMMA 2E6 BETA	2.04E8 GAMMA >2E6 BETA	2,6,8	50,101	TEST/ANALY	NONE
LOCATION: GRID 6/75/611 RX BLDG	AGING	40 YEARS	40 YEARS	2	50	TYPE TEST	NONE
FLOOD LEVEL ELEV: 600' ABOVE FLOOD LEVEL: YES	SUBMERGENCE	NOT REQUIRED	N/A	9	N/A	N/A	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY

NOTES:

31270-L
SS

SYSTEM COMPONENT EVALUATION WORKSHEET

10/30/81
REVISED 11/02/81

UNIT: KEWAUNEE

DOCKET: 50-305

HARSH: YES (T,P,H,CS,R)

EQUIPMENT DESCRIPTION	PARAMETERS	ENVIRONMENT SPECIFICATION	ENVIRONMENT QUALIFICATION	DOCUMENTATION REF. * SPEC.	DOCUMENTATION REF. * QUALIF.	QUAL. METHOD	OUTSTANDING ITEMS
SYSTEM: ACTIVE STATUS PANEL	OPERATIONAL TIME	30 DAYS	30 DAYS	87	50	TYPE TEST	NONE
PLANT ID NO: 31270-L COMPONENT: LIMIT SWITCHES	TEMPERATURE DEG. F.	293	340	2	50	TYPE TEST	NONE
	PRESSURE PSIA	60.7	84.7	2	50	TYPE TEST	NONE
MANUFACTURER: NAMCO MODEL NUMBER: EA 180	RELATIVE HUMIDITY PCT	100%	100%	2	50	TYPE TEST	NONE
FUNCTION: SG1B SAMPL VLV BT 31B	CHEMICAL SPRAY	PH = 8.0 NAOH 30% WT. 2324 PPM BA	PH = 10.5	4	50	TYPE TEST	NONE
SERVICE: CONTROL ROOM ANNUNCIATION	RADIATION RADS	5E7 GAMMA 2E6 BETA	2.04E8 GAMMA >2E6 BETA	2,6,7,8	50,101	TEST/ANALY	NONE
LOCATION: IN RX BLDG GRID 6/75/611 RX BLDG	AGING	40 YEARS	40 YEARS	2	50	TYPE TEST	NONE
FLOOD LEVEL ELEV: 600 ABOVE FLOOD LEVEL: YES	SUBMERGENCE	NOT REQUIRED	N/A	9	N/A	N/A	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY

NOTES:

449110303
ASP

SYSTEM COMPONENT EVALUATION WORKSHEET

10/30/81
REVISED 11/02/81

UNIT: KEWAUNEE

DOCKET: 50-305

HARSH: YES (T,P,H,CS,R)

EQUIPMENT DESCRIPTION	PARAMETERS	ENVIRONMENT SPECIFICATION	ENVIRONMENT QUALIFICATION	DOCUMENTATION REF. * SPEC.	DOCUMENTATION REF. * QUALIF.	QUAL. METHOD	OUTSTANDING ITEMS
SYSTEM: SECONDARY SAMP.	OPERATIONAL TIME	30 DAYS	30 DAYS	87	50	TYPE TEST	NONE
PLANT ID NO: 31334-L COMPONENT: LIMIT SWITCH	TEMPERATURE DEG. F.	293	340	2	50	TYPE TEST	NONE
MANUFACTURER: NAMCO	PRESSURE PSIA	60.7	84.7	2,3	50	TYPE TEST	NONE
MODEL NUMBER: EA-180	RELATIVE HUMIDITY PCT	100%	100%	2	50	TYPE TEST	NONE
FUNCTION: CONTROL	CHEMICAL SPRAY	PH = 8.0 2324 PPM BA 30 WT% NACH	PH = 10.5	4,5	50	TYPE TEST	NONE
SERVICE: CNTMT ISOL S/G 1A SAMPLING STOP CV	RADIATION RADS	5E7 GAMMA 2E6 BETA	2.04E8 GAMMA >2E6 BETA	2,6,7,8	50,101	TEST/ANALY	NONE
LOCATION: GRID 6/75/611 RX BLDG	AGING	40 YEARS	40 YEARS	8	50	TYPE TEST	NONE
FLOOD LEVEL ELEV: ABOVE FLOOD LEVEL:	SUBMERGENCE	NOT REQUIRED	N/A	9	N/A	N/A	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY

NOTES:

31334-L
SS

SYSTEM COMPONENT EVALUATION WORKSHEET

10/30/81
REVISED 11/02/81

UNIT: KEWAUNEE

DOCKET: 50-305

HARSH: YES (T,P,H,CS,R)

EQUIPMENT DESCRIPTION	PARAMETERS	ENVIRONMENT SPECIFICATION	ENVIRONMENT QUALIFICATION	DOCUMENTATION REF. * SPEC.	DOCUMENTATION REF. * QUALIF.	QUAL. METHOD	OUTSTANDING ITEMS
SYSTEM: ACTIVE STATUS PANEL	OPERATIONAL TIME	30 DAYS	30 DAYS	87	50	TYPE TEST	NONE
PLANT ID NO: 31334-L COMPONENT: LIMIT SWITCHES	TEMPERATURE DEG. F.	293	340	1	50	TYPE TEST	NONE
MANUFACTURER: NAMCO	PRESSURE PSIA	60.7	84.7	2,3	50	TYPE TEST	NONE
MODEL NUMBER: EA 180	RELATIVE HUMIDITY PCT	100%	100%	2	50	TYPE TEST	NONE
FUNCTION: SG1A SAMPL VLV BT 31A	CHEMICAL SPRAY	PH = 8.0 NAOH 30% WT. 2324 PPM BA	PH = 10.5	4,5	50	TYPE TEST	NONE
SERVICE: CONTROL ROOM ANNUNCIATION	RADIATION RADS	5E7 GAMMA 2E6 BETA	2.04E8 GAMMA >2E6 BETA	2,6,7,8	50,101	TEST/ANALY	NONE
LOCATION: GRID 6/75/611 RX BLDG	AGING	40 YEARS	40 YEARS	8	50	TYPE TEST	NONE
FLOOD LEVEL ELEV: 600 ABOVE FLOOD LEVEL: YES	SUBMERGENCE	NOT REQUIRED	N/A	9	N/A	N/A	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY

NOTES:

449110301
ASP

SYSTEM COMPONENT EVALUATION WORKSHEET

10/30/81
REVISED 11/02/81

UNIT: KEWAUNEE

DOCKET: 50-305

HARSH: YES (T,P,H,CS,R)

EQUIPMENT DESCRIPTION	PARAMETERS	ENVIRONMENT SPECIFICATION	ENVIRONMENT QUALIFICATION	DOCUMENTATION REF. * SPEC.	DOCUMENTATION REF. * QUALIF.	QUAL. METHOD	OUTSTANDING ITEMS
SYSTEM: MISCELLANEOUS	OPERATIONAL TIME	1 YEAR	1 YEAR	35	19	SIMULT	NONE
PLANT ID NO: NEB-1 COMPONENT: GREASE	TEMPERATURE DEG. F.	293	325	1	18	SIMULT	NONE
MANUFACTURER: NEBULA	PRESSURE PSIA	60.7	90	2,3	18	SIMULT	NONE
MODEL NUMBER: E550-EP-1	RELATIVE HUMIDITY PCT	100%	100%	2	18	SIMULT	NONE
FUNCTION: LUBRICATION	CHEMICAL SPRAY	PH = 8.0 2324 PPM BA 30% WT NAOH	PH = 9.25	4,5	20	SIMULT	NONE
SERVICE: LIMITORQUE GEARS MOTOR BEARINGS (MOV'S)	RADIATION RADS	5E7 GAMMA 2E6 BETA	1.5E8 GAMMA >2E6 BETA	2,6,7,8	18,101	TEST/ANALY	NONE
LOCATION: RX BLDG	AGING	N/A	N/A	N/A	N/A	N/A	NONE
FLOOD LEVEL ELEV: 600 ABOVE FLOOD LEVEL: YES	SUBMERGENCE	NOT REQUIRED	N/A	9	N/A	N/A	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY

NOTES:

ENGINEERING EVALUATION: THIS GREASE IS USED IN LIMITORQUE MOTOR OPERATORS AND HAS BEEN QUALIFIED ALONG WITH THEM. AGING DOES NOT APPLY SINCE IT IS CHANGED ON A REGULAR BASIS.

SYSTEM COMPONENT EVALUATION WORKSHEET

10/30/81
REVISED 11/02/81

UNIT: KEWAUNEE

DOCKET: 50-305

HARSH: YES (T,P,H,CS,R,S)

EQUIPMENT DESCRIPTION	PARAMETERS	ENVIRONMENT SPECIFICATION	ENVIRONMENT QUALIFICATION	DOCUMENTATION REF. * SPEC.	DOCUMENTATION REF. * QUALIF.	QUAL. METHOD	OUTSTANDING ITEMS
SYSTEM: MISCELLANEOUS	OPERATIONAL TIME	1 YEAR	1 YEAR	35	91,92	TEST/ANALY	NONE
PLANT ID NO: OKO-1 COMPONENT: CABLE	TEMPERATURE DEG. F.	293	346	1	10,91	SIMULT	NONE
MANUFACTURER: OKONITE	PRESSURE PSIA	60.7	127.7	2,3	10,91	SIMULT	NONE
MODEL NUMBER: OKONITE-OKOPRENE	RELATIVE HUMIDITY PCT	100%	100%	2	10,91	SIMULT	NONE
FUNCTION: ELECTRICAL POWER	CHEMICAL SPRAY	PH = 8.0 2324 PPM BA 30% WT NAOH	PH = 9.5 NOTE A	4,5	11,91	SIMULT	NONE
SERVICE:	RADIATION RADS	5E7 GAMMA 2E6 BETA	2E8 GAMMA >2E6 BETA	2,6,7,8	10,91,92 101	TEST/ANALY	NONE
LOCATION: RX BLDG & AUX BLDG	AGING	40 YEARS	40 YEARS	2	10,91,92	TEST/ANAL	NONE
FLOOD LEVEL ELEV: 600 ABOVE FLOOD LEVEL: NO	SUBMERGENCE	REQUIRED	NOTE B	9	91	SEQUENTIAL	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY

NOTES:

A) 10,000 PPM BA, SODIUM THIOSULFATE % WT., KOH 4 PPM, NOAH .1% WT.
B) 18 MONTHS IN 90 C. WATER WHILE ENERGIZED.

SYSTEM COMPONENT EVALUATION WORKSHEET

11/02/81
REVISED 11/02/81

UNIT: KEWAUNEE

DOCKET: 50-305

HARSH: YES (T,P,H,CS,R)

EQUIPMENT DESCRIPTION	PARAMETERS	ENVIRONMENT SPECIFICATION	ENVIRONMENT QUALIFICATION	DOCUMENTATION REF. * SPEC.	DOCUMENTATION REF. * QUALIF.	QUAL. METHOD	OUTSTANDING ITEMS
SYSTEM: MISCELLANEOUS	OPERATIONAL TIME	1 YEAR NOTE A	3 MONTHS NOTE A	35	98,99	TYPE TEST	NONE
PLANT ID NO: OKO-2 COMPONENT: CABLE SPLICE AND TERMINATION KITS	TEMPERATURE DEG. F.	293	346	1	10	SIMULT	NONE
MANUFACTURER: OKONITE	PRESSURE PSIA	60.7	127.7	2,3	10	SIMULT	NONE
MODEL NUMBER: T-95	RELATIVE HUMIDITY PCT	100%	100%	2	10	SIMULT	NONE
FUNCTION: SPLICE PLUS TERMINATIONS	CHEMICAL SPRAY	PH = 8.0 2324 PPM BA 30% WT NAOH	PH = 9.5 NOTE B	4,5	11,91	SIMULT	NONE
SERVICE: VARIOUS	RADIATION RADS	5E7 GAMMA 2E6 BETA	2E8 GAMMA >2E6 BETA	2,6,7,8	10 101	TEST/ANALY	NONE
LOCATION: RX BLDG & AUX BLDG	AGING	40 YEARS	40 YEARS	8	98	TYPE TEST	NONE
FLOOD LEVEL ELEV: 600 ABOVE FLOOD LEVEL: YES	SUBMERGENCE	REQUIRED	6 MONTHS	9	98	TYPE TEST	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY

NOTES:

A) THE SPECIFICATION AND QUALIFICATION OPERATING TIMES ARE CURRENTLY UNDERGOING REVIEW.
B) 10,000 PPM BA, SODIUM THIOSULFATE % WT., KOH 4 PPM, NOAH - 1% WT.

SYSTEM COMPONENT EVALUATION WORKSHEET

10/30/81
REVISED 11/02/81

UNIT: KEWAUNEE

DOCKET: 50-305

HARSH: YES (T,P,H,CS,R)

EQUIPMENT DESCRIPTION	PARAMETERS	ENVIRONMENT SPECIFICATION	ENVIRONMENT QUALIFICATION	DOCUMENTATION REF. * SPEC.	DOCUMENTATION REF. * QUALIF.	QUAL. METHOD	OUTSTANDING ITEMS
SYSTEM: REACTOR BUILDING VENTILATION	OPERATIONAL TIME	2 MONTHS	1 YEAR	2	16	SIMULT	NONE
PLANT ID NO: 1-120 COMPONENT: MOTOR	TEMPERATURE DEG. F.	293	300	1	16	SIMULT	NONE
MANUFACTURER: RELIANCE	PRESSURE PSIA	60.7	89.7	2,3	16	SIMULT	NONE
MODEL NUMBER: TYPE N	RELATIVE HUMIDITY PCT	100%	100%	2	16	SIMULT	NONE
FUNCTION: FAN DRIVER	CHEMICAL SPRAY	PH = 8.0 2324 PPM BA 30 WT% NAOH	PH = 9.5	4,5	16	SIMULT	NONE
SERVICE: CONTAINMENT FAN COIL UNIT 1A	RADIATION RADS	5E7 GAMMA 2E6 BETA	1.9E8 GAMMA >2E6 BETA	2,6,7,8	16,101	TEST/ANALY	NONE
LOCATION: GRID /150/635 RX BLDG	AGING	40 YEARS	40 YEARS	8	16	SEPARATE	NONE
FLOOD LEVEL ELEV: 600'0" ABOVE FLOOD LEVEL: YES	SUBMERGENCE	NOT REQUIRED	N/A	9	N/A	N/A	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY

NOTES:

1-120
RBV

SYSTEM COMPONENT EVALUATION WORKSHEET

10/30/81
REVISED 11/02/81

UNIT: KEWAUNEE

DOCKET: 50-305

HARSH: YES (T,P,H,CS,R)

EQUIPMENT DESCRIPTION	PARAMETERS	ENVIRONMENT SPECIFICATION	ENVIRONMENT QUALIFICATION	DOCUMENTATION REF. * SPEC.	DOCUMENTATION REF. * QUALIF.	QUAL. METHOD	OUTSTANDING ITEMS
SYSTEM: REACTOR BUILDING VENTILATION	OPERATIONAL TIME	2 MONTHS	1 YEAR	2	16	SIMULT	NONE
PLANT ID NO: 1-121 COMPONENT: MOTOR	TEMPERATURE DEG. F.	293	300	1	16	SIMULT	NONE
MANUFACTURER: RELIANCE	PRESSURE PSIA	60.7	89.7	2,3	16	SIMULT	NONE
MODEL NUMBER: TYPE N	RELATIVE HUMIDITY PCT	100%	100%	2	16	SIMULT	NONE
FUNCTION: FAN DRIVER	CHEMICAL SPRAY	PH = 8.0 2324 PPM BA 30 WT% NAOH	PH = 9.5	4,5	16	SEPARATE	NONE
SERVICE: CONTAINMENT FAN COIL UNIT 1A	RADIATION RADS	5E7 GAMMA 2E6 BETA	1.9E8 GAMMA >2E6 BETA	2,6,7,8	16,101	TEST/ANALY	NONE
LOCATION: GRID./270/606 RX BLDG.	AGING	40 YEARS	40 YEARS	8	16	SEPARATE	NONE
FLOOD LEVEL ELEV: 600'0" ABOVE FLOOD LEVEL: YES	SUBMERGENCE	NOT REQUIRED	N/A	9	N/A	N/A	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY

NOTES:

1-121
RBV

SYSTEM COMPONENT EVALUATION WORKSHEET

10/30/81
REVISED 11/02/81

UNIT: KEWAUNEE

DOCKET: 50-305

HARSH: YES (T,P,H,CS,R)

EQUIPMENT DESCRIPTION	PARAMETERS	ENVIRONMENT SPECIFICATION	ENVIRONMENT QUALIFICATION	DOCUMENTATION REF. * SPEC.	DOCUMENTATION REF. * QUALIF.	QUAL. METHOD	OUTSTANDING ITEMS
SYSTEM: REACTOR BUILDING VENTILATION	OPERATIONAL TIME	2 MONTHS	1 YEAR	2	16	SIMULT	NONE
PLANT ID NO: 1-156 COMPONENT: MOTOR	TEMPERATURE DEG. F.	293	300	1	16	SIMULT	NONE
MANUFACTURER: RELIANCE	PRESSURE PSIA	60.7	89.7	2,3	16	SIMULT	NONE
MODEL NUMBER: TYPE N	RELATIVE HUMIDITY PCT	100%	100%	2	16	SIMULT	NONE
FUNCTION: FAN DRIVER	CHEMICAL SPRAY	PH = 8.0 2324 PPM BA 30 WT% NAOH	PH = 9.5	4,5	16	SEPARATE	NONE
SERVICE: CONTAINMENT FAN COIL UNIT 1B	RADIATION RADS	5E7 GAMMA 2E6 BETA	1.9E8 GAMMA >2E6 BETA	2,6,7,8	16,101	TEST/ANALY	NONE
LOCATION: GRID./130/606 RX BLDG.	AGING	40 YEARS	40 YEARS	8	16	SEPARATE	NONE
FLOOD LEVEL ELEV: 600'0" ABOVE FLOOD LEVEL: YES	SUBMERGENCE	NOT REQUIRED	N/A	9	N/A	N/A	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY

NOTES:

1-156
RBV

SYSTEM COMPONENT EVALUATION WORKSHEET

10/30/81
REVISED 11/02/81

UNIT: KEWAUNEE

DOCKET: 50-305

HARSH: YES (T,P,H,CS,R)

EQUIPMENT DESCRIPTION	PARAMETERS	ENVIRONMENT SPECIFICATION	ENVIRONMENT QUALIFICATION	DOCUMENTATION REF. * SPEC.	DOCUMENTATION REF. * QUALIF.	QUAL. METHOD	OUTSTANDING ITEMS
SYSTEM: REACTOR BUILDING VENTILATION	OPERATIONAL TIME	2 MONTHS	1 YEAR	2	16	SIMULT	NONE
PLANT ID NO: 1-157	TEMPERATURE DEG. F.	293	300	1	16	SIMULT	NONE
COMPONENT: MOTOR	PRESSURE PSIA	60.7	89.7	2,3	16	SIMULT	NONE
MANUFACTURER: RELIANCE							
MODEL NUMBER: TYPE N	RELATIVE HUMIDITY PCT	100%	100%	2	16	SIMULT	NONE
FUNCTION: FAN DRIVER	CHEMICAL SPRAY	PH = 8.0 2324 PPM BA 30 WT% NAOH	PH = 9.5	4,5	16	SEPARATE	NONE
SERVICE: CONTAINMENT FAN COIL UNIT 1D	RADIATION RADS	5E7 GAMMA 2E6 BETA	1.9E8 GAMMA >2E6 BETA	2,6,7,8	16,101	TEST/ANALY	NONE
LOCATION: GRID./310/606 RX BLDG.	AGING	40 YEARS	40 YEARS	8	16	SEPARATE	NONE
FLOOD LEVEL ELEV: 600'0" ABOVE FLOOD LEVEL: YES	SUBMERGENCE	NOT REQUIRED	N/A	9	N/A	N/A	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY

NOTES:

SYSTEM COMPONENT EVALUATION WORKSHEET

10/30/81
REVISED 11/02/81

UNIT: KEWAUNEE

DOCKET: 50-305

HARSH: YES (T,P,H,CS,B)

EQUIPMENT DESCRIPTION	PARAMETERS	ENVIRONMENT SPECIFICATION	ENVIRONMENT QUALIFICATION	DOCUMENTATION REF. * SPEC.	DOCUMENTATION REF. * QUALIF.	QUAL. METHOD	OUTSTANDING ITEMS
SYSTEM: REACTOR BUILDING VENTILATION	OPERATIONAL TIME	1 YEAR	1 YEAR	2	16	SIMULT	NONE
PLANT ID NO: 1-583 COMPONENT: MOTOR	TEMPERATURE DEG. F.	293	300	1	16	SIMULT	NONE
MANUFACTURER: RELIANCE	PRESSURE PSIA	60.7	89.7	2,3	16	SIMULT	NONE
MODEL NUMBER: TYPE N	RELATIVE HUMIDITY PCT	100%	100%	2	16	SIMULT	NONE
FUNCTION: FAN DRIVER	CHEMICAL SPRAY	PH = 8.0 2324 PPM BA 30 WT% NAOH	PH = 9.5	4,5	16	SEPARATE	NONE
SERVICE: CONTAINMENT DOME VENTILATION FAN 1A	RADIATION RADS	5E7 GAMMA 2E6 BETA	1.9E8 GAMMA >2E6 BETA	2,6,7,8	16,101	TEST/ANALY	NONE
LOCATION: GRID./170/649 RX BLDG.	AGING	40 YEARS	40 YEARS	8	16	SEPARATE	NONE
FLOOD LEVEL ELEV: 600'0" ABOVE FLOOD LEVEL: YES	SUBMERGENCE	NOT REQUIRED	N/A	9	N/A	N/A	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY

NOTES:

1-583
RBV

SYSTEM COMPONENT EVALUATION WORKSHEET

10/30/81
REVISED 11/02/81

UNIT: KEWAUNEE

DOCKET: 50-305

HARSH: YES (T,P,H,CS,R)

EQUIPMENT DESCRIPTION	PARAMETERS	ENVIRONMENT SPECIFICATION	ENVIRONMENT QUALIFICATION	DOCUMENTATION REF. * SPEC.	DOCUMENTATION REF. * QUALIF.	QUAL. METHOD	OUTSTANDING ITEMS
SYSTEM: REACTOR BUILDING VENTILATION	OPERATIONAL TIME	1 YEAR	1 YEAR	2	16	SIMULT	NONE
PLANT ID NO: 1-584 COMPONENT: MOTOR	TEMPERATURE DEG. F.	293	300	1	16	SIMULT	NONE
MANUFACTURER: RELIANCE	PRESSURE PSIA	60.7	89.7	2,3	16	SIMULT	NONE
MODEL NUMBER: TYPE N	RELATIVE HUMIDITY PCT	100%	100%	2	16	SIMULT	NONE
FUNCTION: FAN DRIVER	CHEMICAL SPRAY	PH = 8.0 2324 PPM BA 30 WT% NAOH	PH = 9.5	4,5	16	SEPARATE	NONE
SERVICE: CONTAINMENT DOME VENTILATION FAN 1B	RADIATION RADS	5E7 GAMMA 2E6 BETA	1.9E8 GAMMA >2E6 BETA	2,6,7,8	16,101	TEST/ANALY	NONE
LOCATION: GRID./350/649 RX BLDG.	AGING	40 YEARS	40 YEARS	8	16	SEPARATE	NONE
FLOOD LEVEL ELEV: 600'0" ABOVE FLOOD LEVEL: YES	SUBMERGENCE	NOT REQUIRED	N/A	9	N/A	N/A	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY

NOTES:

1-584
RBV

SYSTEM COMPONENT EVALUATION WORKSHEET

10/30/81
REVISED 11/02/81

UNIT: KEWAUNEE

DOCKET: 50-305

HARSH: YES (T,P,H,CS,R)

EQUIPMENT DESCRIPTION	PARAMETERS	ENVIRONMENT SPECIFICATION	ENVIRONMENT QUALIFICATION	DOCUMENTATION REF. * SPEC.	DOCUMENTATION REF. * QUALIF.	QUAL. METHOD	OUTSTANDING ITEMS
SYSTEM: REACTOR COOLANT	OPERATIONAL TIME	2 HOURS	6 DAYS	35	76	TYPE TEST	NONE
PLANT ID NO: 15061 COMPONENT: RTD	TEMPERATURE DEG. F.	239	320	1	76	TYPE TEST	NONE
MANUFACTURER: SOSTMAN CO.	PRESSURE PSIA	60.7	90	2,3	76	TYPE TEST	NONE
MODEL NUMBER: 11834B-1	RELATIVE HUMIDITY PCT	100%	100%	2	76	TYPE TEST	NONE
FUNCTION: TEMP. ELEMENT	CHEMICAL SPRAY	PH = 8.0 2324 PPM BA 30 WT% NAOH	1.146 WT% BORIC ACID 0.17% NAOH	4,5	76	TYPE TEST	NONE
SERVICE: RC COLD/HOT LEG TEMPERATURE	RADIATION RADS	5E7 GAMMA 2E6 BETA	1E8 GAMMA >2E6 BETA	2,6,7,8	76,101	TEST/ANALY	NONE
LOCATION: GRID 32/261/619 RX BLDG	AGING	NOTE A	NOTE A	NOTE A	NOTE A	NOTE A	NONE
FLOOD LEVEL ELEV: 600 ABOVE FLOOD LEVEL: YES	SUBMERGENCE	NOT REQUIRED	N/A	9	N/A	N/A	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY

NOTES:

A) STUDY IN PROGRESS BY EDS NUCLEAR, INC.

SYSTEM COMPONENT EVALUATION WORKSHEET

10/30/81
REVISED 11/02/81

UNIT: KEWAUNEE

DOCKET: 50-305

HARSH: YES (T,P,H,CS,R)

EQUIPMENT DESCRIPTION	PARAMETERS	ENVIRONMENT SPECIFICATION	ENVIRONMENT QUALIFICATION	DOCUMENTATION REF. * SPEC.	DOCUMENTATION REF. * QUALIF.	QUAL. METHOD	OUTSTANDING ITEMS
SYSTEM: REACTOR COOLANT	OPERATIONAL TIME	2 HOURS	6 DAYS	35	76	TYPE TEST	NONE
PLANT ID NO: 15062 COMPONENT: RTD	TEMPERATURE DEG. F.	293	320	1	76	TYPE TEST	NONE
MANUFACTURER: SOSTMAN CO.	PRESSURE PSIA	60.7	90	2,3	76	TYPE TEST	NONE
MODEL NUMBER: 11834B-1	RELATIVE HUMIDITY PCT	100%	100%	2	76	TYPE TEST	NONE
FUNCTION: TEMP. ELEMENT	CHEMICAL SPRAY	PH = 8.0 2324 PPM BA 30 WT% NAOH	1.146 WT% BORIC ACID 0.17% NAOH	4,5	76	TYPE TEST	NONE
SERVICE: RC COLD/HOT LEG TEMPERATURE	RADIATION RADS	5E7 GAMMA 2E6 BETA	1E8 GAMMA >2E6 BETA	2,6,7,8	76,101	TEST/ANALY	NONE
LOCATION: GRID 32/261/619 RX BLDG	AGING	NOTE A	NOTE A	NOTE A	NOTE A	NOTE A	NONE
FLOOD LEVEL ELEV: 600 ABOVE FLOOD LEVEL: YES	SUBMERGENCE	NOT REQUIRED	N/A	9	N/A	N/A	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY

NOTES:

A) STUDY IN PROGRESS BY EDS NUCLEAR, INC.

15062
RC

SYSTEM COMPONENT EVALUATION WORKSHEET

10/30/81
REVISED 11/02/81

UNIT: KEWAUNEE

DOCKET: 50-305

HARSH: YES (T,P,H,CS,R)

EQUIPMENT DESCRIPTION	PARAMETERS	ENVIRONMENT SPECIFICATION	ENVIRONMENT QUALIFICATION	DOCUMENTATION REF. * SPEC.	DOCUMENTATION REF. * QUALIF.	QUAL. METHOD	OUTSTANDING ITEMS
SYSTEM: REACTOR COOLANT	OPERATIONAL TIME	2 HOURS	6 DAYS	35	76	TYPE TEST	NONE
PLANT ID NO: 15066 COMPONENT: RTD	TEMPERATURE DEG. F.	293	320	1	76	TYPE TEST	NONE
MANUFACTURER: SOSTMAN CO.	PRESSURE PSIA	60.7	90.0	2,3	76	TYPE TEST	NONE
MODEL NUMBER: 11834B-1	RELATIVE HUMIDITY PCT	100%	100%	2	76	TYPE TEST	NONE
FUNCTION: TEMP. ELEMENT	CHEMICAL SPRAY	PH = 8.0 2324 PPM BA 30 WT% NAOH	1.146 WT% BORIC ACID 0.17% NAOH	4,5	76	TYPE TEST	NONE
SERVICE: RC COLD/HOT LEG TEMPERATURE	RADIATION RADS	5E7 GAMMA 2E6 BETA	1E8 GAMMA >2E6 BETA	2,6,7,8	76,101	TEST/ANALY	NONE
LOCATION: GRID 29/253/620 RX BLDG	AGING	NOTE A	NOTE A	NOTE A	NOTE A	NOTE A	NONE
FLOOD LEVEL ELEV: 600 ABOVE FLOOD LEVEL: YES	SUBMERGENCE	NOT REQUIRED	N/A	9	N/A	N/A	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY

NOTES:

A) STUDY IN PROGRESS BY EDS NUCLEAR, INC.

15066
RC

SYSTEM COMPONENT EVALUATION WORKSHEET

10/30/81
REVISED 11/02/81

UNIT: KEWAUNEE

DOCKET: 50-305

HARSH: YES (T,P,H,CS,R)

EQUIPMENT DESCRIPTION	PARAMETERS	ENVIRONMENT SPECIFICATION	ENVIRONMENT QUALIFICATION	DOCUMENTATION REF. * SPEC.	DOCUMENTATION REF. * QUALIF.	QUAL. METHOD	OUTSTANDING ITEMS
SYSTEM: REACTOR COOLANT	OPERATIONAL TIME	2 HOURS	6 DAYS	35	76	TYPE TEST	NONE
PLANT ID NO: 15067 COMPONENT: RTD	TEMPERATURE DEG. F.	293	320	1	76	TYPE TEST	NONE
MANUFACTURER: SOSTMAN CO.	PRESSURE PSIA	60.7	90.0	2,3	76	TYPE TEST	NONE
MODEL NUMBER: 11834B-1	RELATIVE HUMIDITY PCT	100%	100%	2	76	TYPE TEST	NONE
FUNCTION: TEMP. ELEMENT	CHEMICAL SPRAY	PH = 8.0 2324 PPM BA 30 WT% NAOH	1.146 WT% BORIC ACID 0.17% NAOH	4,5	76	TYPE TEST	NONE
SERVICE: RC COLD/HOT LEG TEMPERATURE	RADIATION RADS	5E7 GAMMA 2E6 BETA	1E8 GAMMA >2E6 BETA	2,6,7,8	76,101	TEST/ANALY	NONE
LOCATION: GRID 29/253/620 RX BLDG	AGING	NOTE A	NOTE A	NOTE A	NOTE A	NOTE A	NONE
FLOOD LEVEL ELEV: 600 ABOVE FLOOD LEVEL: YES	SUBMERGENCE	NOT REQUIRED	N/A	9	N/A	N/A	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY

NOTES:

A) STUDY IN PROGRESS BY EDS NUCLEAR, INC.

SYSTEM COMPONENT EVALUATION WORKSHEET

10/30/81
REVISED 11/02/81

UNIT: KEWAUNEE

DOCKET: 50-305

HARSH: YES (T,P,H,CS,R)

EQUIPMENT DESCRIPTION	PARAMETERS	ENVIRONMENT SPECIFICATION	ENVIRONMENT QUALIFICATION	DOCUMENTATION REF. * SPEC.	DOCUMENTATION REF. * QUALIF.	QUAL. METHOD	OUTSTANDING ITEMS
SYSTEM: REACTOR COOLANT	OPERATIONAL TIME	2 HOURS	6 DAYS	35	76	TYPE TEST	NONE
PLANT ID NO: 15071 COMPONENT: RTD	TEMPERATURE DEG. F.	293	320	1	76	TYPE TEST	NONE
MANUFACTURER: SOSTMAN CO.	PRESSURE PSIA	60.7	90.0	2,3	76	TYPE TEST	NONE
MODEL NUMBER: 11834B-1	RELATIVE HUMIDITY PCT	100%	100%	2	76	TYPE TEST	NONE
FUNCTION: TEMP. ELEMENT	CHEMICAL SPRAY	PH = 8.0 2324 PPM BA 30 WT% NAOH	1.146 WT% BORIC ACID 0.17% NAOH	4,5	76	TYPE TEST	NONE
SERVICE: RC COLD/HOT LEG TEMPERATURE	RADIATION RADS	5E7 GAMMA 2E6 BETA	1E8 GAMMA >2E6 BETA	2,6,7,8	76,101	TEST/ANALY	NONE
LOCATION: GRID 38/54/619 RX BLDG	AGING	NOTE A	NOTE A	NOTE A	NOTE A	NOTE A	NONE
FLOOD LEVEL ELEV: 600 ABOVE FLOOD LEVEL: YES	SUBMERGENCE	NOT REQUIRED	N/A	9	N/A	N/A	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY

NOTES:

A) STUDY IN PROGRESS BY EDS NUCLEAR, INC.

15071
RC

SYSTEM COMPONENT EVALUATION WORKSHEET

10/30/81
REVISED 11/02/81

UNIT: KEWAUNEE

DOCKET: 50-305

HARSH: YES (T,P,H,CS,R)

EQUIPMENT DESCRIPTION	PARAMETERS	ENVIRONMENT SPECIFICATION	ENVIRONMENT QUALIFICATION	DOCUMENTATION REF. * SPEC.	DOCUMENTATION REF. * QUALIF.	QUAL. METHOD	OUTSTANDING ITEMS
SYSTEM: REACTOR COOLANT	OPERATIONAL TIME	2 HOURS	6 DAYS	35	76	TYPE TEST	NONE
PLANT ID NO: 15072 COMPONENT: RTD	TEMPERATURE DEG. F.	293	320	1	76	TYPE TEST	NONE
MANUFACTURER: SOSTMAN CO.	PRESSURE PSIA	60.7	90.0	2,3	76	TYPE TEST	NONE
MODEL NUMBER: 11834B-1	RELATIVE HUMIDITY PCT	100%	100%	2	76	TYPE TEST	NONE
FUNCTION: TEMP. ELEMENT	CHEMICAL SPRAY	PH = 8.0 2324 PPM BA 30 WT% NAOH	1.146 WT% BORIC ACID 0.17% NAOH	4,5	76	TYPE TEST	NONE
SERVICE: RC COLD/HOT LEG TEMPERATURE	RADIATION RADS	5E7 GAMMA 2E6 BETA	1E8 GAMMA >2E6 BETA	2,6,7,8	76,101	TEST/ANALY	NONE
LOCATION: GRID 38/54/619 RX BLDG	AGING	NOTE A	NOTE A	NOTE A	NOTE A	NOTE A	NONE
FLOOD LEVEL ELEV: 600 ABOVE FLOOD LEVEL: YES	SUBMERGENCE	NOT REQUIRED	N/A	9	N/A	N/A	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY

NOTES:

A) STUDY IN PROGRESS BY EDS NUCLEAR, INC.

15072
RC

SYSTEM COMPONENT EVALUATION WORKSHEET

10/30/81
REVISED 11/02/81

UNIT: KEWAUNEE

DOCKET: 50-305

HARSH: YES (T,P,H,CS,R)

EQUIPMENT DESCRIPTION	PARAMETERS	ENVIRONMENT SPECIFICATION	ENVIRONMENT QUALIFICATION	DOCUMENTATION REF. * SPEC.	DOCUMENTATION REF. * QUALIF.	QUAL. METHOD	OUTSTANDING ITEMS
SYSTEM: REACTOR COOLANT	OPERATIONAL TIME	2 HOURS	6 DAYS	35	76	TYPE TEST	NONE
PLANT ID NO: 15076 COMPONENT: RTD	TEMPERATURE DEG. F.	293	320	1	76	TYPE TEST	NONE
MANUFACTURER: SOSTMAN CO.	PRESSURE PSIA	60.7	90.0	2,3	76	TYPE TEST	NONE
MODEL NUMBER: 11834B-1	RELATIVE HUMIDITY PCT	100%	100%	2	76	TYPE TEST	NONE
FUNCTION: TEMP. ELEMENT	CHEMICAL SPRAY	PH = 8.0 2324 PPM BA 30 WT% NAOH	1.146 WT% BORIC ACID 0.17% NAOH	4,5	76	TYPE TEST	NONE
SERVICE: RC COLD/HOT LEG TEMPERATURE	RADIATION RADS	5E7 GAMMA 2E6 BETA	1E8 GAMMA >2E6 BETA	2,6,7,8	76,101	TEST/ANALY	NONE
LOCATION: GRID 34/51/618 RX BLDG	AGING	NOTE A	NOTE A	NOTE A	NOTE A	NOTE A	NONE
FLOOD LEVEL ELEV: 600 ABOVE FLOOD LEVEL: YES	SUBMERGENCE	NOT REQUIRED	N/A	9	N/A	N/A	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY

NOTES:

A) STUDY IN PROGRESS BY EDS NUCLEAR, INC.

SYSTEM COMPONENT EVALUATION WORKSHEET

UNIT: KEWAUNEE

10/30/81
REVISED 11/02/81

DOCKET: 50-305

HARSH: YES (T,P,H,CS,R)

EQUIPMENT DESCRIPTION	PARAMETERS	ENVIRONMENT SPECIFICATION	ENVIRONMENT QUALIFICATION	DOCUMENTATION REF. * SPEC.	DOCUMENTATION REF. * QUALIF.	QUAL. METHOD	OUTSTANDING ITEMS
SYSTEM: REACTOR COOLANT	OPERATIONAL TIME	2 HOURS	6 DAYS	35	76	TYPE TEST	NONE
PLANT ID NO: 15077 COMPONENT: RTD	TEMPERATURE DEG. F.	293	320	1	76	TYPE TEST	NONE
MANUFACTURER: SOSTMAN CO.	PRESSURE PSIA	60.7	90.0	2,3	76	TYPE TEST	NONE
MODEL NUMBER: 11834B-1	RELATIVE HUMIDITY PCT	100%	100%	2	76	TYPE TEST	NONE
FUNCTION: TEMP. ELEMENT	CHEMICAL SPRAY	PH = 8.0 30 WT% NAOH	1.146 WT% BORIC ACID 0.17% NAOH	4,5	76	TYPE TEST	NONE
SERVICE: RC COLD/HOT LEG TEMPERATURE	RADIATION RADS	5E7 GAMMA 2E6 BETA	1E8 GAMMA >2E6 BETA	2,6,7,8	76,101	TEST/ANALY	NONE
LOCATION: GRID 34/51/618 RX BLDG	AGING	NOTE A	NOTE A	NOTE A	NOTE A	NOTE A	NONE
FLOOD LEVEL ELEV: 600 ABOVE FLOOD LEVEL: YES	SUBMERGENCE	NOT REQUIRED	N/A	9	N/A	N/A	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY

NOTES:

A) STUDY IN PROGRESS BY EDS NUCLEAR, INC.

15077
RC

SYSTEM COMPONENT EVALUATION WORKSHEET

10/30/81
REVISED 11/02/81

UNIT: KEWAUNEE

DOCKET: 50-305

HARSH: YES (T,P,H,CS,B)

EQUIPMENT DESCRIPTION	PARAMETERS	ENVIRONMENT SPECIFICATION	ENVIRONMENT QUALIFICATION	DOCUMENTATION REF. * SPEC.	DOCUMENTATION REF. * QUALIF.	QUAL. METHOD	OUTSTANDING ITEMS
SYSTEM: PRIMARY SAMPLING	OPERATIONAL TIME	30 DAYS	6.2 YEARS	46	81	TYPE TEST	NONE
PLANT ID NO: 33092 COMPONENT: SOLENOID VALVE	TEMPERATURE DEG. F.	293	346	1	81	TYPE TEST	NONE
MANUFACTURER: VALCOR	PRESSURE PSIA	60.7	127.7	2,3	81	TYPE TEST	NONE
MODEL NUMBER: V52630-5292-17	RELATIVE HUMIDITY PCT	100%	100%	2	81	TYPE TEST	NONE
FUNCTION: VALVE ACTUATOR	CHEMICAL SPRAY	PH = 8.0 2324 PPM BA 30 WT% NAOH	PH = 10.5	4,5	81	TYPE TEST	NONE
SERVICE: CNTMT. ISOL. RC HOT LEG SAMPLING ISOL CV SV	RADIATION RADS	5E7 GAMMA 2E6 BETA	2E8 GAMMA >2E6 BETA	2,6,8	81,101	TEST/ANALY	NONE
LOCATION: @CV-31265 GRID 34/58/624 RX. BLDG.	AGING	40 YEARS	40 YEARS	8	81	TYPE TEST	NONE
FLOOD LEVEL ELEV: 600 ABOVE FLOOD LEVEL: YES	SUBMERGENCE	NOT REQUIRED	N/A	9	N/A	N/A	NONE

* DOCUMENTATION REFERENCES:
SEE THE ENCLOSED BIBLIOGRAPY

NOTES:

33092
PS

BIBLIOGRAPY

Attachment to Nov. 2, 1981 Submittal

1) Letter to E. R. Mathews of WPSC from S. A. Varga of the NRC dated 6/18/81, enclosure 1 (SER)

2) FSAR Section 7.5

3) FSAR Section 14.3.4

4) FSAR Questions and Answers Supplement, Question 6.13.1

5) Letter to M. E. Stern of WPSC from C. E. Agan of Fluor Power Services, dated 2/3/78, along with attached test reports

6) Letter to C. A. Schrock of WPSC from C. E. Agan of Fluor Power Services, dated 3/13/81, and attached tables

7) Letter to C. A. Schrock of WPSC from C. E. Agan of Fluor Power Services, dated 7/17/81

8) Letter to E. R. Mathews of WPSC from J. G. Keppler of the NRC, dated 1/16/80, enclosure 4 (IE Bulletin No.79-01B-DOR Guidelines)

9) Letter to R. A. Purple of the NRC from E. W. James of WPSC, dated 2/20/76

10) Pioneer Service and Engineering Company, Vendor Certification and Testing

11) The Okonite Company, Prototype Test, November 12, 1970

12) BIW Bostard Cables Report No. B901

13) BIW Report No. B904 - July 15, 1970

14) Final Report F-C2737 The Franklin Institute Research Laboratories Misc. Certification

15) WCAP - 7410 - Vol. II Westinghouse, Section 6

16) Qualification Test - Joy Axivance/Reliance Electric Motor Company, April 29, 1969 - PO K-161, Section 6

17) Chevron Oil Company Letter, 3/14/73

18) Limitorque Corp. Letter, 2/6/74

19) WCAP 7410-L, Final Report F-C2232-01

20) WCAP 7410-L, Section 1: Post Accident Environmental Conditions

21) G. E., H. C. Lauroesch Correspondence to J. King; Power Systems, August 7, 1978

22) G. E., "Insulating Materials Product Data, 74010A Epoxy Resin plus 74010 Epoxy Catalyst" March 24, 1964, and effect of radiation on materials.

23) Letter from G. E. to A. Smith of NSP, dated 11/21/78, plus attachment

24) D. G. O'Brien Report #C19QA053 W/EA letter dated 2/4/72

25) PO K268 Book 5 KP-S-4641 Letter dated 6/20/78

26) PO K268 Book 5 ER 192 dated 2/21/72

27) D. G. O'Brien Report #C19QA059 W/EA letter dated 3/2/72

28) PS&E Engineering Acceptance CRDP Prototype S/N PR-7

29) D. G. O'Brien Report #C19QA057

30) K268 Book 5 Letter dated 4/20/72

31) D. G. O'Brien Report #C19QA049, W/Engr. Acceptance - NIS Prototype Letter dated 4/4/72 from PS&E

32) Not used

33) D. G. O'Brien Report #C19QA062 W/EA, letter dated 5/17/72

34) D. G. O'Brien Report #C19QA054 W/EA, letter dated 1/28/72

35) Based on maximum required operating time of associated components

36) Based on maximum post-accident temperature in the auxiliary building

37) System Description No. 17 - Auxiliary Bldg. Ventilation (ACA)

38) System Description No. 14 - Auxiliary Bldg. Special Ventilation (ASV)

39) Letter to C. A. Schrock of WPSC from C. E. Agan of FPS dated 3/16/81

40) System Description No. 25 - Control Room Air Conditioning (ACC)

41) "Design Review of Post-Accident Plant Shielding and Equipment Radiation Qualification" prepared by FPS under Project No. 23-7127-053, dated 2/13/81, updated by a letter to K. H. Weinhauer of WPSC from C. E. Agan of FPS, dated 3/30/81

42) FIRL Report #F-C3271, February, 1972

43) FSAR Section 2

44) System Description No. 16 - Turbine Bldg. and Screen House Ventilation (TAV)

45) Based on maximum required operating time of other systems

46) Based on maximum required operating time

47) Conservative estimate for maximum time to receipt of containment isolation

48) Westinghouse Shop Order 220, Specification 676258

49) Letter dated May, 1973, from Limitorque to Pioneer Service Engineering Corporation

50) Acme Cleveland Development Company Test Plan 8-31-77

51) WCAP 7744, Vol. 1, Sect. 5: Valve Motor Operators

52) WCAP 7410-L, Vol. 1, Sect. 5: Valve Motor Operators & APP. D

53) FSAR - Appendix H, Section 3

54) FSAR figures H.3-4, H.3-5

55) Conservative Estimate for maximum time to receipt of auto closure signal

56) See item 4

57) Letter of May, 1978, Automatic Switch Co. and test report #AQS21678/TR REV. A.

58) WPS Purchase Order PO 158

59) Fluor Power Services letter, FPS-5859, Dec. 31, 1980

60) Pratt Co. letter, 8/20/79

61) Conservative estimate for required availability of containment spray

62) Not used

63) Joy Manufacturing Report X-411

64) Limitorque Qualification Type Test Report, 12/9/75

65) Conservative estimate for maximum alignment to final valve alignment

66) Conservative estimate for maximum time for ECCS switchover to recirc

67) Conservative estimate for required availability of SI system

68) Johnson Service Co. letter to Mr. Bill Morini of WPS, 8/30/73

69) WCAP 8541, Seismic & Environmental Testing of Foxboro Transmitters, July, 1975

70) FSAR table 6.2-13

71) WCAP 7410-L Topical Report of Environmental Testing of Engineering Safety Features Related Equipment

72) Square D Company, Environmental Qualification Report No. 108-1.02-LIA

73) Based on reasonable time for operator action to trip feedwater pump

74) BIW Report 903A

75) EQF-8, GE Terminal Boards Qualification Report, dated 12/24/80

76) WCAP 9157 Environmental Qualification of Safety Related Class 1E Process Instrumentation topical report

77) WCAP 7744, Environmental Testing topical report

78) Purchase Order K-272 specifications

79) Acton Environmental Testing Corporation Test Report No. 9306 and Supplement.

80) Letter dated 7/24/72, from Magnetrol

81) QR 52600-5940-2, Rev. B, 9/26/80 (Valcor)

82) PO K-05555

83) ITT Barton Product Catalog, Section 6

84) EQF-18, Rotron Electrical Motors Qualification Report, dated 12/24/80

85) Based on maximum required operating time of components cooled by fan coil units.

86) FSAR Table 14.3-13 (Venting Requirements and Venting Doses Without Pressure Increase)

87) Conservative estimate for the required indication period for the accident duration.

88) ACME-Cleveland test report of Namco Limit Switch, Model EA-170, dated March 17, 1978.

89) Barton Test Report R3-288A-1, October, 1979

90) Barton Test Report RI-289A-8, Rev. 2, 9/13/81

91) Class IE Cables for Nuclear Generating Stations IEE Trans. on Power Apparatus and Systems PAS-03 (61), August, 1974.

92) EDS Qualification of Electrical Cable, Calculation File No. 0910-205-Okonite-01.

93) FIRL Report #F-C3125; September, 1971

94) EDS Calculation File No. 0910-205-BIW-01

95) EDS Calculation File No. 0910-205-Kerite

96) FIRL Report #F-C2737, April 15, 1970

97) Kerite Company Report KPT-LWC-1 of April 13, 1977 (confidential and proprietary to the Kerite Company)

98) Okonite Company Test Procedure sent to Mr. Albrect-NSP on April 20, 1978

99) Okonite Company letter to NSP (A. Smith) 8/31/78

100) Limitorque Nuclear Qualification Report B0058

101) Letter to C. A. Schrock of WPS, from D. F. Wheeler of FPS, dated 10/12/81.

102) Limitorque Nuclear Qualification Report B0003