



## PHILADELPHIA ELECTRIC COMPANY

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JOSEPH W. GALLAGHER  
MANAGER  
ELECTRIC PRODUCTION DEPARTMENT



March 1, 1982

Docket Nos. 50-277  
50-278

Mr. John F. Stolz  
Operating Reactors Branch #4  
Division of Licensing  
U.S. Nuclear Regulatory Commission  
Washington, DC 20555

Dear Mr. Stolz:

Your June 5, 1981 letter to Mr. E. G. Bauer forwarded the Safety Evaluation for the Environmental Qualification of Safety Related Electrical Equipment at Peach Bottom Atomic Power Station Units 2 and 3.

Item 3.1 of the safety evaluation, dealing with the completeness of Safety-Related Equipment, was not included with our 90 day response however it was indicated that this information would be provided by March 1, 1982.

In response to SER item 3.1, the following information is provided:

1. PBAPS - Unit 2 Equipment List (Attachment 1)
2. PBAPS - Unit 3 Equipment List (Attachment 2)
3. Deficiency Resolution Plan (Attachment 3)
4. Justification for Continued Operation (Attachment 4)
5. References (Attachment 5)

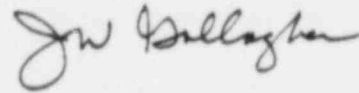
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*AOAG  
5/11  
Original  
Computer Printout  
To: BC*

6. System Component Evaluation Work Sheets (SCEWS). SCEWS for the oxygen analyzers (02E4963A,B,C,D and 02E5963A,B,C,D) shown on the equipment list, were submitted as part of our September 3, 1981 letter and are therefore not being resubmitted.

If there are any questions or we can provide any further information, do not hesitate to contact us.

Very truly yours,

A handwritten signature in cursive script, appearing to read "JW Gallagher".

JCN:kmw

Attachment

ATTACHMENT 1

Peach Bottom Atomic Power Station

Unit # 2

Class 1E Equipment List

System: Emergency Procedures

Item No.	Equip. ID No.	Generic Name	Location	
			Inside Pri.Cont.	Outside Pri.Cont. Room #
	02E4963A	Oxygen Analyzer		103
	02E4963B	Oxygen Analyzer		507
	02E4963C	Oxygen Analyzer		108
	02E4963D	Oxygen Analyzer		108
	PT-8102A,C	Press. Trans.		403
	PT-8102B,D	Press. Trans.		403
	PT-4952	Press. Trans.		103
	PT-4953	Press. Trans.		108
	LT-8123A	Level Trans.		9
	LT-8123B	Level Trans.		4
	TE-2501-36A	Temp. Elem.		202
	TE-2501-36B	Temp. Elem.		202
	LT-02-3-73A,B	Level Trans.		403
	LT-02-3-72C,D	Level Trans.		403
	PT-6-105	Press. Trans.		403
	TE-2442A,B	Temp. Elem.		1

ATTACHMENT 2

Peach Bottom Atomic Power Station

Unit # 3

Class 1E Equipment List

System: Emergency Procedures

Item No.	Equip. ID No.	Generic Name	Location	
			Inside Pri.Cont.	Outside Pri.Cont. Room #
	02E5963A	Oxygen Analyzer		157
	02E5963B	Oxygen Analyzer		519
	02E5963C	Oxygen Analyzer		160
	02E5963D	Oxygen Analyzer		160
	PT-9102A,C	Press. Trans.		444
	PT-9102B,D	Press. Trans.		444
	PT-5952	Press. Trans.		157
	PT-5953	Press. Trans.		160
	LT-9123A	Level Trans.		44
	LT-9123B	Level Trans.		40
	TE-3501-36A	Temp. Elem.		247
	TE-3501-36B	Temp. Elem.		247
	LT-02-3-73A	Level Trans.		250
	LT-02-3-73B	Level Trans.		257
	LT-02-3-72C	Level Trans.		444
	LT-02-3-72D	Level Trans.		257
	PT-6-105	Press. Trans.		257
	TE-3442A,B	Temp. Elem.		37

## ATTACHMENT 3

Deficiency Resolution PlanReplacement

<u>Unit</u>	<u>Plant I.D.</u>	<u>Description</u>
2, 3	PT-4952-4953 PT-5952,5953	These PT's will be replaced; a Purchase Order is expected to be issued by 7-82.
2, 3	TE-2501-36A,B TE-3501-36A,B	These TE's will be replaced; a Purchase Order is expected to be issued by 7-82.
3	LT-02-3-72C,D	These LT's will be replaced during the January 1983 Unit 3 outage.
2, 3	2-PT-6-105 3-PT-6-105	These PT's will be replaced; a Purchase Order is expected to be issued by 7-82.
2, 3	TE-2442A,B TE-3442A,B	These TE's will be replaced; a Purchase Order was issued 11-81.

ATTACHMENT 4

JUSTIFICATION FOR CONTINUED OPERATION

1. Pressure Transmitter PT-4952 located in room 103 and PT-4953 located in room 108 provide suppression pool air space pressure indication for operator information to initiate torus spray. Transmitters PT-8102A,B,C,D measure drywell pressure, provide indication for operator information and are environmentally qualified. The use of drywell pressure as an alternative indication for the operator to initiate torus spray is acceptable since downcomers connect the drywell to the torus and maintain a proportional pressure between these two compartments. The drywell pressure readings could be approximately 2.0 PSI greater than the actual pressure in the torus due to the water leg in the downcomer. Using drywell pressure indication could result in torus spray being initiated at 8 PSI as opposed to initiation at 10 PSI as stated in the emergency procedures. The premature torus spray operation is within the limits of the emergency procedures and poses no threat to the safe operation of the plant. Based on the foregoing, it can be concluded that information will be available for the operator to take the proper action as required by the emergency procedures.
2. Temperature Elements TE-2501-36A,B are located in the drywell and provide temperature indication for operator information. Redundant TE-2501-35A,B are located in the drywell and also provide temperature indication. The only non-metallic materials in the temperature elements, as shown on Thermo-Electric Engineering Drawings, are the connection head cover gasket which is asbestos and the ceramic terminal block in the connection head. Based on a review of these materials as listed in EPRI-NP-1558 Report and Standard Handbook for Electrical Engineers, it is concluded that asbestos and ceramics can withstand radiation levels in excess of 10 MR and are not adversely affected by the postulated high temperature operation. Based on the foregoing, it can be concluded that information will be available for the operator to take proper action as required by the emergency procedures.
3. Level Transmitters LT-02-3-72C,D and LT-02-3-73A,B are located in rooms 444, 257, 250 and 257 respectively and provide reactor water level indication for operator information. These instruments have been environmentally qualified and SCEWS were submitted to the NRC as part of the PECO 9-3-81 SER response. As an enhancement to the present level of qualification, the Rosemount 1151 level transmitters will be replaced with Rosemount 1153 Series B level transmitters. Unit 2 level transmitters (LT's) have been replaced while the unit 3 LT's remain to be replaced. These new transmitters have a post accident operability time of one year as opposed to the currently installed instrument post accident operability time of seven hours. The instruments currently installed in unit 3 are physically separated, redundant and qualified to temperature, pressure and radiation levels in excess of the postulated DBA conditions. Based

on the foregoing, it can be concluded that information will be available for the operator to take the proper action as required by the emergency procedures.

4. Pressure Transmitter PT-6-105 is located in room 403 and provides reactor pressure indication for operator information. PT-2-3-55A,B,C,D are also located in room 403, provide indication for operator information and are environmentally qualified. PT-6-105 will be replaced to enhance the present level of qualification. The new pressure transmitters will have a post accident operability time of one year as opposed to a 7-hour post accident operability time for the redundant instruments PT-2-3-55A,B,C,D. Pressure Transmitters PT-2-3-55A,B,C,D are qualified to temperature, pressure and radiation levels in excess of the postulated DBA conditions. Based on the foregoing, it can be concluded that information will be available for the operator to take the proper action as required by the emergency procedures.
5. Temperature Elements TE-2442A,B located in the torus provide suppression pool water temperature indication for operator information. The only non-metallic materials in the temperature elements, as documented by a telephone conversation with Decher Instrument Company, are the neoprene connection head cover gasket and the ceramic terminal block in the connection head. Based on a review of these materials as listed in EPRI-NP-2129 Report and Standard Handbook for Electrical Engineers, it is concluded that neoprene and ceramics can withstand radiation levels in excess of 1 MR and are not adversely affected by the postulated high temperature operation. Based on the foregoing, it can be concluded that information will be available for the operator to take proper action as required by the emergency procedures.



ATTACHMENT 5

REFERENCES

- 26. FSAR Fig. 14.6.10 and Fig. Q.5.5.6a
- 27. FSAR Fig. 14.6.11 and Fig. A.5.5.6b
- 28. Bechtel Power Corporation Study BLP-21921, 7-31-81
- 57. GECO licensing topical report - NEDO - 21617-A
- 76. Rosemount Analysis, 10-20-80
- 104. Rosemount Test Report 3788
- 129. Rosemount Qualification Report - 108026
- 130. GECO Test 22A7726, Rev. 0

WJC:VLB  
2-19-82  
1







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FACILITY: PBAPS UNIT: 2 DOCKET: 50-277 ITEM: PREPARED BY: W.J. CLUNE DATE: 02/01/82 REVISION DATE: 02-02-82  
REVIEWED BY: W.J. BOYER DATE: 02/01/82 FIELD VERIFIED DATE:  
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SYSTEM: NUCLEAR BOILER & RV INSTRUMENTATION ACC: SPEC: N/A LOCATION: ROOM 403  
PLANT ID: PT-6-105 DEMON: N/A RACK/PANEL: 2BC65  
COMPONENT: PRESSURE TRANSMITTER MODEL NO.: MAC556120EAAA1  
ASSOC COMP: ASSOC M/N: ASSOC. DWG: P&ID:M-352  
ASSOC COMP: ASSOC M/N: LOC:E-1168  
MANUFACTU: GENERAL ELECTRIC COMPANY SERIAL NO:  
ASSOC MANF: ASSOC S/N:  
ASSOC MANF: ASSOC S/N:  
SERVICE: EMERGENCY PROCEDURES  
TO MANUALLY INITIATE OPERATION OF HPCI, RCIC, MAIN TURBINE  
BYPASS VALVES ISOLATION CONDENSER OR SPV  
TO DEPRESSURIZE RV & MAINTAIN ADEQUATE CORE COOLING. FLOOD LEVEL ELEV.: 92.5  
FUNCTION: TO PROVIDE RV PRESSURE INDICATION ABOVE FLOOD LEVEL: YES  
TO PI-6-90B CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	101 DAYS		NONE				
TEMPERATURE (F)	173(F)		28				
PRESSURE (PSIA)	16.2(A)		28				
RELATIVE HUMIDITY (%)	100		28				
RADIATION	2.22E5		28				REMARKS:
AGING	NONE		NONE				

CHEMICAL SPRAY: N/A

REMARKS:

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FACILITY: PBAPS UNIT: 2 DOCKET: 50-2 7 ITEM: PREPARED BY: W.J. CLUNE DATE: 02/01/82 REVISION DATE: 02-02-82  
REVIEWED BY: W.J. BOYER DATE: 02/01/82 FIELD VERIFIED DATE:  
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SYSTEM: CONTAINMENT ATMOSPHERE DILUTION ACCY:SPEC: N/A LOCATION: ROOM 108  
PLANT ID: PT-4953 DEMON: N/A RACK/PANEL:  
COMPONENT: PRESSURE TRANSMITTER MODEL NO.: 1921  
ASSOC COMP: ASSOC M/N: ASSOC. DWG: P&ID:M-372  
ASSOC COMP: ASSOC M/N: LOC:E-1164  
MANUFACTUR: LEEDS & NORTHRUP CO. SERIAL NO:  
ASSOC MANF: ASSOC S/N:  
ASSOC MANF: ASSOC S/N:

SERVICE: EMERGENCY PROCEDURES  
TO MANUALLY INITIATE SUPPRESSION POOL SPRAY

FUNCTION: TO PROVIDE SUPPRESSION POOL AIRSPACE  
PRESSURE TO PI-4953

FLOOD LEVEL ELEV.: 92.5

ABOVE FLOOD LEVEL: YES

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	101 DAYS		NONE				
TEMPERATURE (F)	131(A)		28				
PRESSURE (PSIA)	16.7(A)		28				
RELATIVE HUMIDITY (%)	100		28				
RADIATION	2.99E6		28				REMARKS:
AGING	NONE		NONE				



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FACILITY: PBAPS UNIT: 2 DOCKET: 50-277 ITEM: PREPARED BY: W.J. CLUNE DATE: 02/01/82 REVISION DATE: 02-02-82  
REVIEWED BY: W.J. BOYER DATE: 02/01/82 FIELD VERIFIED DATE:  
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SYSTEM: DRYWELL COOLING ACCY:SPEC: N/A LOCATION: PRIMARY CONTAINMENT  
PLANT ID: TE-2501-36A,B DEMON: N/A RACK/PANEL:  
COMPONENT: TEMPERATURE ELEMENT MODEL NO.: TYPE-T, 11484-7  
ASSOC COMP: ASSOC M/N: ASSOC. DWG: P&ID:M-390  
ASSOC COMP: ASSOC M/N: LOC:E-1174  
MANUFACTU: THERMOELECTRIC SERIAL NO:  
ASSOC MANF: ASSOC S/N:  
ASSOC MANF: ASSOC S/N:

SERVICE: EMERGENCY PROCEDURES  
TO MANUALLY INITIATE CONTAINMENT SPRAY & CONTAINMENT COOLING  
TO MAINTAIN CONTAINMENT INTEGRITY & ADEQUATE CORE COOLING

FUNCTION: TO PROVIDE DRYWELL TEMPERATURE  
INDICATION TO TI-2501 AND TR4805

FLOOD LEVEL ELEV.: 123

ABOVE FLOOD LEVEL: YES

CHEMICAL SPRAY: DEMIN WATER

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	101 DAYS		NONE				
TEMPERATURE (F)	317		27				
PRESSURE (PSIA)	63.7		26				
RELATIVE HUMIDITY (%)	100		28				
RADIATION	6.24E7		28				REMARKS:
AGING	NONE		NONE				

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FACILITY: PBAPS UNIT: 2 DOCKET: 50-277 ITEM: PREPARED BY: W.J. CLUNE DATE: 02/01/82 REVISION DATE: 02-02-82  
REVIEWED BY: W.J. BOYER DATE: 02/01/82 FIELD VERIFIED DATE:  
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SYSTEM: HIGH PRESSURE COOLANT INJECTION (HPCI) ACCY:SPEC: N/A LOCATION: ROOM 9  
PLANT ID: LT-8123A DEMON: N/A RACK/PANEL:  
COMPONENT: LEVEL TRANSMITTER MODEL NO.: 764  
ASSOC COMP: ASSOC M/N: ASSOC. DWG: P&ID:M-365  
ASSOC COMP: ASSOC M/N: LOC:E-1162  
MANUFACTU: ITT BARTON SERIAL NO:  
ASSOC MANF: ASSOC S/N:  
ASSOC MANF: ASSOC S/N:  
SERVICE: EMERGENCY PROCEDURES  
TO MAINTAIN SUPPRESSION POOL WATER  
LEVEL WITHIN NORMAL OPERATING LIMITS

FUNCTION: TO PROVIDE SUPPRESSION POOL WATER  
LEVEL INDICATION TO LI-2914 AND LI-2914X

FLOOD LEVEL ELEV.: 92.5

ABOVE FLOOD LEVEL: YES

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	101 DAYS	180 DAYS	NONE	130	TEST	NONE	
TEMPERATURE (F)	126(A)	305	28	130	TEST	NONE	
PRESSURE (PSIA)	16.7(A)	16.7	28	130	TEST	NONE	
RELATIVE HUMIDITY (%)	100	100	28	130	TEST	NONE	
RADIATION	2.99E6	3.0E7	28	130	TEST	NONE	REMARKS:
AGING	NONE	10 YRS.	NONE	130	TEST	NONE	



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FACILITY: PBAPS UNIT: 2 DOCKET: 50-277 ITEM: PREPARED BY: W.J. CLUNE DATE: 02/01/82 REVISION DATE: 02-02-82  
REVIEWED BY: W.J. BOYER DATE: 02/01/82 FIELD VERIFIED DATE:  
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SYSTEM: HIGH PRESSURE COOLANT INJECTION (HPCI) ACCY:SPEC: N/A LOCATION: ROOM 4  
PLANT ID: LT-8123B DEMON: N/A RACK/PANEL:  
COMPONENT: LEVEL TRANSMITTER MODEL NO.: 764  
ASSOC COMP: ASSOC M/N: ASSOC. DWG: P&ID:M-365  
ASSOC COMP: ASSOC M/N: LOC:E-1161  
MANUFACTU: IYT BARTON SERIAL NO:  
ASSOC MANF: ASSOC S/N:  
ASSOC MANF: ASSOC S/N:  
SERVICE: EMERGENCY PROCEDURES  
TO MAINTAIN SUPPRESSION POOL WATER  
LEVEL WITH NORMAL OPERATING LIMITS

FUNCTION: TO PROVIDE SUPPRESSION POOL WATER  
LEVEL INDICATION TO LR-4805

FLOOD LEVEL ELEV.: 92.5

ABOVE FLOOD LEVEL: YES

CHEMICAL SPRAY: N/A

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PARAMETER ENVIRONMENT DOCUMENTATION REFERENCE QUALIFICATION INTERFACES:  
SPECIFICATION QUALIFICATION SPECIFICATION QUALIFICATION METHOD OUTSTANDING ITEMS  
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OPERATING TIME 101 DAYS 180 DAYS NONE 130 TEST NONE  
TEMPERATURE (F) 128(A) 305 28 130 TEST NONE  
PRESSURE (PSIA) 16.7(A) 16.7 28 130 TEST NONE  
RELATIVE HUMIDITY (%) 100 100 28 130 TEST NONE  
RADIATION 1.28E7 3.0E7 28 130 TEST NONE  
AGING NONE 10 YRS. NONE 130 TEST NONE  
REMARKS:  
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FACILITY: PBAPS UNIT: 2 DOCKET: 50-277 ITEM: PREPARED BY: W.J. CLUNE DATE: 02/01/82 REVISION DATE: 02-02-82  
REVIEWED BY: W.J. BOYER DATE: 02/01/82 FIELD VERIFIED DATE: 02-02-82  
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SYSTEM: RESIDUAL HEAT REMOVAL (RHR) ACCY:SPEC: N/A LOCATION: ROOM 403  
PLANT ID: PT-8102A,C DEMON: N/A RACK/PANEL: 2AC65  
COMPONENT: PRESSURE TRANSMITTER MODEL NO.: 1153-A  
ASSOC COMP: ASSOC M/N: ASSOC. DWG: P&ID:M-361  
ASSOC COMP: ASSOC M/N: LOC:E-1168  
MANUFACTU: ROSEMOUNT SERIAL NO:  
ASSOC MANF: ASSOC S/N:  
ASSOC MANF: ASSOC S/N:  
SERVICE: EMERGENCY PROCEDURES  
TO MANUALLY INITIATE SBTG OR DRYWELL SPRAY  
TO MAINTAIN CONTAINMENT INTEGRITY  
FLOOD LEVEL ELEV.: 92.5  
FUNCTION: TO PROVIDE DRYWELL PRESSURE INDICATION TO PR-8102A  
ABOVE FLOOD LEVEL: YES  
CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	101 DAYS	164 HRS.	NONE	104	TEST&ANAL.	NONE	
TEMPERATURE (F)	178(F)	1340	128	104	TEST	NONE	
PRESSURE (PSIA)	16.2(A)	1134.7	128	104	TEST	NONE	
RELATIVE HUMIDITY (%)	100	100	128	104	TEST	NONE	
RADIATION	2.22E7	4.4E7	128	104	TEST	NONE	REMARKS:
AGING	NONE		NONE				

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FACILITY: PBAPS UNIT: 2 DOCKET: 50-277 ITEM: PREPARED BY: W.J. CLUNE DATE: 02/01/82 REVISION DATE: 02-02-82  
REVIEWED BY: W.J. BOYER DATE: 02/01/82 FIELD VERIFIED DATE:  
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SYSTEM: RESIDUAL HEAT REMOVAL (RHR) ACCY:SPEC: N/A LOCATION: ROOM 403  
PLANT ID: PT-8102B,D DEMON: N/A RACK/PANEL: 28C65  
COMPONENT: PRESSURE TRANSMITTER MODEL NO.: 1153-A  
ASSOC COMP: ASSOC M/N: ASSOC. DWG: PAID:M-361  
ASSOC COMP: ASSOC M/N: LOC:E-1168  
MANUFACTU: ROSEMOUNT SERIAL NO:  
ASSOC MANF: ASSOC S/N:  
ASSOC MANF: ASSOC S/N:  
SERVICE: EMERGENCY PROCEDURES  
TO MANUALLY INITIATE SGBT OR DRYWELL  
TO MAINTAIN CONTAINMENT INTEGRITY  
FLOOD LEVEL ELEV.: 92.5  
FUNCTION: TO PROVIDE DRYWELL PRESSURE  
INDICATION TO PR-8102B ABOVE FLOOD LEVEL: YES  
CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	101 DAYS	64 HRS.	NONE	104	TEST&ANAL.	NONE	
TEMPERATURE (F)	178(F)	340	28	104	TEST	NONE	
PRESSURE (PSIA)	16.2(A)	134.7	28	104	TEST	NONE	
RELATIVE HUMIDITY (%)	100	100	28	104	TEST	NONE	
RADIATION	2.22E7	4.4E7	28	104	TEST	NONE	REMARKS:
AGING	NONE		NONE		TEST		

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FACILITY: PBAPS UNIT: 2 DOCKET: 50-277 ITEM: PREPARED BY: W.J. CLUNE DATE: 02/01/82 REVISION DATE: 02-02-82  
REVIEWED BY: W.J. BOYER DATE: 02/01/82 FIELD VERIFIED DATE:  
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SYSTEM: RESIDUAL HEAT REMOVAL (RHR) ACCY:SPEC: N/A LOCATION: ROOM 1  
PLANT ID: TE-2442A,B DEMON: N/A RACK/PANEL:  
COMPONENT: TEMPERATURE ELEMENT MODEL NO.: TYPE-T  
ASSOC COMP: ASSOC M/N: ASSOC. DWG: P&ID:M-361  
ASSOC COMP: ASSOC M/N: LOC:E-1162

MANUFACTU: DECKER INSTRUMENTS  
ASSOC MANF:  
ASSOC MANF:

SERIAL NO:  
ASSOC S/N:  
ASSOC S/N:

SERVICE: EMERGENCY PROCEDURES  
TO MANUALLY CLOSE ANY SRV, OPERATE SUPPRESSION POOL COOLING OR  
SCRAM REACTOR TO MAINTAIN CONTAINMENT INTEGRITY  
& ADEQUATE CORE COOLING.

FLOOD LEVEL ELEV.: 92.5

FUNCTION: TO PROVIDE SUPPRESSION POOL TEMPERATURE  
INDICATION TO TI-2442A,B

ABOVE FLOOD LEVEL: YES

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	101 DAYS		NONE				
TEMPERATURE (F)	215(B)		28				
PRESSURE (PSIA)	16.7(A)		28				
RELATIVE HUMIDITY (%)	100		28				
RADIATION	3.3E7		28				REMARKS:
AGING	NONE		NONE				

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FACILITY: PBAPS UNIT: 3 DOCKET: 50-278 ITEM: PREPARED BY: W.J. CLUNE DATE: 02/01/82 REVISION DATE: 02-02-82  
REVIEWED BY: W.J. BOYER DATE: 02/01/82 FIELD VERIFIED DATE:  
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SYSTEM: CONTAINMENT ATMOSPHERE DILUTION ACCY:SPEC: N/A LOCATION: ROOM 157  
PLANT ID: PT-5952 DEMON: N/A RACK/PANEL:  
COMPONENT: PRESSURE TRANSMITTERS MODEL NO.: 1921  
ASSOC COMP: ASSOC M/N: ASSOC. DWG: P&ID:M-372  
ASSOC COMP: ASSOC M/N: LOC:E-1163  
MANUFACTUR: LEEDS & NORTHRUP CO. SERIAL NO:  
ASSOC MANF: ASSOC S/N:  
ASSOC MANF: ASSOC S/N:

SERVICE: EMERGENCY PROCEDURES  
TO MANUALLY INITIATE SUPPRESSION POOL SPRAY

FLOOD LEVEL ELEV.: 92.5

FUNCTION: TO PROVIDE SUPPRESSION POOL AIRSPACE  
PRESSURE TO PI-5952

ABOVE FLOOD LEVEL: YES

CHEMICAL SPRAY: N/A

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PARAMETER | ENVIRONMENT | DOCUMENTATION REFERENCE | QUALIFICATION | INTERFACES:  
| SPECIFICATION | QUALIFICATION | SPECIFICATION | QUALIFICATION | METHOD | OUTSTANDING ITEMS |  
-----  
OPERATING TIME | 101 DAYS | | NONE | | | |  
-----  
TEMPERATURE (F) | 128(A) | | 28 | | | |  
-----  
PRESSURE (PSIA) | 16.7(A) | | 28 | | | |  
-----  
RELATIVE HUMIDITY (%) | 100 | | 28 | | | |  
-----  
RADIATION | 3.35E7 | | 28 | | | |  
-----  
AGING | NONE | | NONE | | | |  
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REMARKS:  
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 FACILITY: PBAPS UNIT: 3 DOCKET: 0-278 ITEM: PREPARED BY: W.J. CLUNE DATE: 02/02/82 REVISION DATE: 02-02-82  
 REVIEWED BY: W.J. BOYER DATE: 02/02/82 FIELD VERIFIED DATE:  
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SYSTEM: CONTAINMENT ATMOSPHERE DILUTION ACCY:SPEC: N/A LOCATION: ROOM 160  
 PLANT ID: PT-5953 DEMON: N/A RACK/PANEL:  
 COMPONENT: PRESSURE TRANSMITTER MODEL NO.: 1921  
 ASSOC COMP: ASSOC M/N: ASSOC. DWG: P&ID:M-372  
 ASSOC COMP: ASSOC M/N: LOC:E-1164  
 MANUFACTU: LEEDS & NORTHRUP CO. SERIAL NO:  
 ASSOC MANF: ASSOC S/N:  
 ASSOC MANF: ASSOC S/N:  
 SERVICE: EMERGENCY PROCEDURES  
 TO MANUALLY INITIATE SUPPRESSION POOL SPRAY

FUNCTION: TO PROVIDE SUPPRESSION POOL AIRSPACE FLOOD LEVEL ELEV.: 92.5  
 PRESSURE TO PT-5953 ABOVE FLOOD LEVEL: YES  
 CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	101 DAYS		NONE				
TEMPERATURE (F)	131(A)		28				
PRESSURE (PSIA)	16.7(A)		28				
RELATIVE HUMIDITY (%)	100		28				
RADIATION	2.99E6		28				REMARKS:
AGING	NONE		NONE				

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FACILITY: PBAPS UNIT: 3 DOCKET: 50-278 ITEM: PREPARED BY: W.J. CLUNE DATE: 02/01/82 REVISION DATE: 02-02-82  
REVIEWED BY: W.J. BOYER DATE: 02/01/82 FIELD VERIFIED DATE:  
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SYSTEM: DRYWELL COOLING ACCY:SPEC: N/A LOCATION: PRIMARY CONTAINMENT  
PLANT ID: TE-3501-36A,B DEMON: N/A RACK/PANEL:  
COMPONENT: TEMPERATURE ELEMENT MODEL NO.: TYPE-T, 11484-7  
ASSOC COMP: ASSOC M/N: ASSOC. DWG: PAID:M-390  
ASSOC COMP: ASSOC M/N: LOC:E-1174  
MANUFACTU: THERMOELECTRIC SERIAL NO:  
ASSOC MANF: ASSOC S/N:  
ASSOC MANF: ASSOC S/N:

SERVICE: EMERGENCY PROCEDURES  
TO MANUALLY INITIATE CONTAINMENT SPRAY & CONTAINMENT COOLING  
TO MAINTAIN CONTAINMENT INTEGRITY & ADEQUATE CORE COOLING

FUNCTION: TO PROVIDE DRYWELL TEMPERATURE  
INDICATION TO TI-3501 AND TR5805

FLOOD LEVEL ELEV.: 123

ABOVE FLOOD LEVEL: YES

CHEMICAL SPRAY: DEMIN WATER

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	101 DAYS		NONE				
TEMPERATURE (F)	317		27				
PRESSURE (PSIA)	163.7		26				
RELATIVE HUMIDITY (%)	100		28				
RADIATION	16.24E7		28				REMARKS:
AGING	NONE		NONE				



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FACILITY: PBAPS UNIT: 3 DOCKET: 50-278 ITEM: PREPARED BY: W.J. CLUNE DATE: 02/01/82 REVISION DATE: 02-02-82  
REVIEWED BY: W.J. BOYER DATE: 02/01/82 FIELD VERIFIED DATE:  
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SYSTEM: HIGH PRESSURE COOLANT INJECTION (HPCI) ACCY:SPEC: N/A LOCATION: ROOM 44  
PLANT ID: LY-9123A DEMON: N/A RACK/PANEL:  
COMPONENT: LEVEL TRANSMITTER MODEL NO.: 764  
ASSOC COMP: ASSOC M/N: ASSOC. DWG: P&ID:M-365  
ASSOC COMP: ASSOC M/N: LOC:E-1162  
MANUFACT: ITT BARTON SERIAL NO:  
ASSOC MANF: ASSOC S/N:  
ASSOC MANF: ASSOC S/N:

SERVICE: EMERGENCY PROCEDURES  
TO MAINTAIN SUPPRESSION POOL WATER  
LEVEL WITHIN NORMAL OPERATING LIMITS

FLOOD LEVEL ELEV.: 92.5

FUNCTION: TO PROVIDE SUPPRESSION POOL WATER  
LEVEL INDICATION TO LI-3914 AND LI-3914X

ABOVE FLOOD LEVEL: YES

CHEMICAL SPRAY: N/A

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PARAMETER ENVIRONMENT DOCUMENTATION REFERENCE QUALIFICATION INTERFACES:  
SPECIFICATION QUALIFICATION SPECIFICATION QUALIFICATION METHOD OUTSTANDING ITEMS  
-----  
OPERATING TIME 101 DAYS 100 DAYS NONE 130 TEST NONE  
TEMPERATURE (F) 126(A) 305 28 130 TEST NONE  
PRESSURE (PSIA) 16.7(A) 16.7 28 130 TEST NONE  
RELATIVE HUMIDITY (%) 100 100 28 130 TEST NONE  
RADIATION 2.99E6 3.0E7 28 130 TEST NONE REMARKS:  
AGING NONE 10 YRS. NONE 130 TEST NONE  
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FACILITY: PBAPS UNIT: 3 DOCKET: 50-278 ITEM: PREPARED BY: W.J. CLUNE DATE: 02/01/82 REVISION DATE: 02-02-82  
REVIEWED BY: W.J. BOYER DATE: 02/01/82 FIELD VERIFIED DATE:  
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SYSTEM: HIGH PRESSURE COOLANT INJECTION (HPCI) ACCY:SPEC: N/A LOCATION: ROOM 40  
PLANT ID: LT-9123B DEMON: N/A RACK/PANEL:  
COMPONENT: LEVEL TRANSMITTER MODEL NO.: 764  
ASSOC COMP: ASSOC M/N: ASSOC. DWG: P&ID:M-365  
ASSOC COMP: ASSOC M/N: LOC:E-1161  
MANUFACTU: ITT BARTON SERIAL NO:  
ASSOC MANF: ASSOC S/N:  
ASSOC MANF: ASSOC S/N:  
SERVICE: EMERGENCY PROCEDURES  
TO MAINTAIN SUPPRESSION POOL WATER  
LEVEL WITH NORMAL OPERATING LIMITS

FLOOD LEVEL ELEV.: 92.5

FUNCTION: TO PROVIDE SUPPRESSION POOL WATER  
LEVEL INDICATION TO LR-5805

ABOVE FLOOD LEVEL: YES

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	101 DAYS	180 DAYS	NONE	130	TEST	NONE	
TEMPERATURE (F)	128(A)	305	28	130	TEST	NONE	
PRESSURE (PSIA)	16.7(A)	16.7	28	130	TEST	NONE	
RELATIVE HUMIDITY (%)	100	100	28	130	TEST	NONE	
RADIATION	1.28E7	3.0E7	28	130	TEST	NONE	REMARKS:
AGING	NONE	10 YRS.	NONE	130	TEST	NONE	

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FACILITY: PBAPS UNIT: 3 DOCKET: 50-278 ITEM: PREPARED BY: W.J. CLUNE DATE: 02/10/82 REVISION DATE: 02-11-82  
REVIEWED BY: W.J. BOYER DATE: 02/10/82 FIELD VERIFIED DATE:  
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SYSTEM: NUCLEAR BOILER & RV INSTRUMENTATION ACCY:SPEC: N/A LOCATION: ROOM 444  
PLANT ID: LT-02-3- 2C DEMON: N/A RACK/PANEL: 3AC65

COMPONENT: LEVEL TRANSMITTER MODEL NO.: 1151 DP  
ASSOC COMP: ASSOC M/N: ASSOC. DWG: P&ID:M-352  
ASSOC COMP: ASSOC M/N: LOC:E-1238

MANUFACTU: ROSEMOUNT SERIAL NO:  
ASSOC MANF: ASSOC S/N:  
ASSOC MANF: ASSOC S/N:

SERVICE: EMERGENCY PROCEDURES  
TO MANUALLY INITIATE RCIC, H/CI, CS OR LPCI  
AS REQUIRED TO MAINTAIN  
RV WATER LEVEL.

FLOOD LEVEL ELEV.: 92.5

FUNCTION: REACTOR WATER LEVEL HPCI SYSTEM INITIATION  
AND RV LEVEL INDICATION TO LR-724

ABOVE FLOOD LEVEL: YES

CHEMICAL SPRAY: N/A

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PARAMETER | ENVIRONMENT | DOCUMENTATION REFERENCE | QUALIFICATION | INTERFACES:  
SPECIFICATION | QUALIFICATION | SPECIFICATION | QUALIFICATION | METHOD | OUTSTANDING ITEMS  
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OPERATING TIME | 101 DAYS | 7 HRS. | NONE | 57 | TEST | |  
TEMPERATURE (F) | 178(F) | 303 | 28 | 57 | TEST | NONE  
PRESSURE (PSIA) | 16.2(A) | 74.7 | 28 | 57 | TEST | NONE  
RELATIVE HUMIDITY (%) | 100 | 100 | 28 | 57 | TEST | NONE  
RADIATION | 2.2E5 | 5.0E6 | 28 | 57 | TEST | NONE  
AGING | NONE | 8 YRS. | NONE | 76 | TEST&ANAL. | NONE  
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REMARKS:

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FACILITY: PBAPS UNIT: 3 DOCKET: 50-278 ITEM: PREPARED BY: W.J. CLUNE DATE: 02/10/82 REVISION DATE: 02-11-82  
REVIEWED BY: W.J. BOYER DATE: 02/10/82 FIELD VERIFIED DATE:  
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SYSTEM: NUCLEAR BOILER & RV INSTRUMENTATION ACCY:SPEC: N/A LOCATION: ROOM 257  
PLANT ID: LT-02-3-720 DEMON: N/A RACK/PANEL: 3BC65

COMPONENT: LEVEL TRANSMITTER MODEL NO.: 1151 DP  
ASSOC COMP: ASSOC M/N: ASSOC. JWG: P&ID:M-352  
ASSOC COMP: ASSOC M/N: LOC:E-1236

MANUFACTU: ROSEMOUNT SERIAL NO:  
ASSOC MANF: ASSOC S/N:  
ASSOC MANF: ASSOC S/N:

SERVICE: EMERGENCY PROCEDURES  
TO MANUALLY INITIATE RCIC, HPCI, CS OR LPCI  
AS REQUIRED TO MAINTAIN  
RV WATER LEVEL.

FLOOD LEVEL ELEV.: 92.5

FUNCTION: REACTOR WATER LEVEL HPCI SYSTEM INITIATION  
AND RV LEVEL INDICATION TO LR 728

ABOVE FLOOD LEVEL: YES

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	101 DAYS	7 HRS.	NONE	57	TEST		
TEMPERATURE (F)	207(A)	303	28	57	TEST	NONE	
PRESSURE (PSIA)	16.7(A)	74.7	28	57	TEST	NONE	
RELATIVE HUMIDITY (%)	100	100	28	57	TEST	NONE	
RADIATION	6.49E4	5.0E6	28	57	TEST	NONE	REMARKS:
AGING	NONE	8 YRS.	NONE	76	TEST&ANAL.	NONE	

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FACILITY: PRAPS UNIT: 3 DOCKET: 50-278 ITEM: PREPARED BY: W.J. CLUNE DATE: 02/10/82 REVISION DATE: 02-11-82  
REVIEWED BY: W.J. BOYER DATE: 02/10/82 FIELD VERIFIED DATE:  
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SYSTEM: NUCLEAR BOILER & RV INSTRUMENTATION ACCY:SPEC: N/A LOCATION: ROOM 250  
PLANT ID: LT-02-3-73A DEMON: N/A RACK/PANEL: C91A  
COMPONENT: LEVEL TRANSMITTER MODEL NO.: 1151 DP  
ASSOC COMP: ASSOC M/N: ASSOC. DWG: P&ID:M-352  
ASSOC COMP: ASSOC M/N: LOC:E-1236  
MANUFACTU: ROSEMOUNT SERIAL NO:  
ASSOC MANF: ASSOC S/N:  
ASSOC MANF: ASSOC S/N:  
SERVICE: EMERGENCY PROCEDURES  
TO MANUALLY INITIATE RCIC, HPCI, CS OR LPCI  
AS REQUIRED TO MAINTAIN RV WATER LEVEL

FUNCTION: PROVIDE SIGNAL TO LIS-02-3-73A  
AND RV LEVEL INDICATION TO LR 724

FLOOD LEVEL ELEV.: 92.5

ABOVE FLOOD LEVEL: YES

CHEMICAL SPRAY: N/A

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PARAMETER ENVIRONMENT DOCUMENTATION REFERENCE QUALIFICATION INTERFACES:  
SPECIFICATION QUALIFICATION SPECIFICATION QUALIFICATION METHOD OUTSTANDING ITEMS  
-----  
OPERATING TIME 101 DAYS 7 HRS. NONE 57 TEST  
TEMPERATURE (F) 207(A) 303 28 57 TEST NONE  
PRESSURE (PSIA) 16.7(A) 74.7 28 57 TEST NONE  
RELATIVE HUMIDITY (%) 100 100 28 57 TEST NONE  
RADIATION 6.49E4 5.0E6 28 57 TEST NONE REMARKS:  
AGING NONE 8 YRS. NONE 76 TEST&ANAL. NONE  
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FACILITY: PBAPS UNIT: 3 DOCK: 50-278 ITEM: PREPARED BY: W.J. CLUNE DATE: 02/10/82 REVISION DATE: 02-11-82  
REVIEWED BY: W.J. BOYER DATE: 02/10/82 FIELD VERIFIED DATE:  
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SYSTEM: NUCLEAR BOILER & RV INSTRUMENTATION ACCY:SPEC: N/A LOCATION: ROOM 257  
PLANT ID: LT-02-3-73B DEMON: N/A RACK/PANEL: C91B  
COMPONENT: LEVEL TRANSMITTER MODEL NO.: 1151 DP  
ASSOC COMP: ASSOC M/N: ASSOC. DWG: P&ID:M-352  
ASSOC COMP: ASSOC M/N: LOC:E-1236  
MANUFACT: ROSEMOUNT SERIAL NO:  
ASSOC MANF: ASSOC S/N:  
ASSOC MANF: ASSOC S/N:

SERVICE: EMERGENCY PROCEDURES  
TO MANUALLY INITIATE RCIC, HPCI, CS OR LPCI  
AS REQUIRED TO MAINTAIN RV WATER LEVEL.

FUNCTION: PROVIDE SIGNAL TO LIS-02-3-73B  
AND RV LEVEL INDICATION TO LR 72B

FLOOD LEVEL ELEV.: 92.5

ABOVE FLOOD LEVEL: YES

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	101 DAYS	7 HRS.	NONE	57	TEST		
TEMPERATURE (F)	207(A)	303	28	57	TEST	NONE	
PRESSURE (PSIA)	16.7(A)	74.7	28	57	TEST	NONE	
RELATIVE HUMIDITY (%)	100	100	28	57	TEST	NONE	
RADIATION	6.49E4	5.0E6	28	57	TEST	NONE	REMARKS:
AGING	NONE	8 YRS.	NONE	76	TEST&ANAL.	NONE	

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FACILITY: PDAPS UNIT: 3 DOCKET: 50-278 ITEM: PREPARED BY: W.J. CLUNE DATE: 02/10/82 REVISION DATE: 02-11-82  
REVIEWED BY: W.J. BOYER DATE: 02/10/82 FIELD VERIFIED DATE:  
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SYSTEM: NUCLEAR BOILER & RV INSTRUMENTATION ACCY:SPEC: N/A LOCATION: ROOM 257  
PLANT ID: PT-6-105 DEMON: N/A RACK/PANEL: 3BC65

COMPONENT: PRESSURE TRANSMITTER MODEL NO.: MAC556120EAAA1  
ASSOC COMP: ASSOC M/N: ASSOC. DWG: P&ID:M-352  
ASSOC COMP: ASSOC M/N: LOC:E-1236

MANUFACTU: GENERAL ELECTRIC COMPANY SERIAL NO:  
ASSOC MANF: ASSOC S/N:  
ASSOC MANF: ASSOC S/N:  
SERVICE: EMERGENCY PROCEDURES  
TO MANUALLY INITIATE OPERATION OF HPCI, RCIC, MAIN TURBINE  
BYPASS VALVES ISOLATION CONDENSER OR  
SRV TO DEPRESSURIZE RV & MAINTAIN ADEQUATE CORE COOLING.

FLOOD LEVEL ELEV.: 92.5

FUNCTION: TO PROVIDE RV PRESSURE INDICATION  
TO PI-6-90B

ABOVE FLOOD LEVEL: YES

CHEMICAL SPRAY: N/A

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PARAMETER ENVIRONMENT DOCUMENTATION REFERENCE QUALIFICATION INTERFACES:  
SPECIFICATION QUALIFICATION SPECIFICATION QUALIFICATION METHOD OUTSTANDING ITEMS  
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OPERATING TIME 101 DAYS NONE  
TEMPERATURE (F) 207(A) 28  
PRESSURE (PSIA) 16.7(A) 28  
RELATIVE HUMIDITY (%) 100 28  
RADIATION 6.49E4 28  
AGING NONE NONE  
REMARKS:  
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FACILITY: PBAPS UNIT: 3 DOCKET: 50-278 ITEM: PREPARED BY: W.J. CLUNE DATE: 02/01/82 REVISION DATE: 02-02-82  
REVIEWED BY: W.J. BOYER DATE: 02/01/82 FIELD VERIFIED DATE:  
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SYSTEM: RESIDUAL HEAT REMOVAL (RHR) ACCY:SPEC: N/A LOCATION: ROOM 444  
PLANT ID: PT-9102A,C DEMON: N/A RACK/PANEL:  
COMPONENT: PRESSURE TRANSMITTER MODEL NO.: 1153-A  
ASSOC COMP: ASSOC M/N: ASSOC. DWG: P&ID:M-361  
ASSOC COMP: ASSOC M/N: LOC:E-1168  
MANUFACTU: ROSEMOUNT SERIAL NO:  
ASSOC MANF: ASSOC S/N:  
ASSOC MANF: ASSOC S/N:  
SERVICE: EMERGENCY PROCEDURES  
TO MANUALLY INITIATE SSGT OR DRYWELL SPRAY  
TO MAINTAIN CONTAINMENT INTEGRITY

FUNCTION: TO PROVIDE DRYWELL PRESSURE INDICATION TO PR-9102A

FLOOD LEVEL ELEV.: 92.5

ABOVE FLOOD LEVEL: YES

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	101 DAYS	164 HRS.	NONE	104	TEST&ANAL.	NONE	
TEMPERATURE (F)	178(F)	340	28	104	TEST	NONE	
PRESSURE (PSIA)	16.2(A)	134.7	28	104	TEST	NONE	
RELATIVE HUMIDITY (%)	100	100	28	104	TEST	NONE	
RADIATION	2.22E7	4.4E7	28	104	TEST	NONE	REMARKS:
AGING	NONE		NONE				

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FACILITY: PBAPS UNIT: 3 DOCKET: 50-278 ITEM: PREPARED BY: W.J. CLUNE DATE: 02/01/82 REVISION DATE: 02-02-82  
REVIEWED BY: W.J. BOYER DATE: 02/01/82 FIELD VERIFIED DATE:  
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SYSTEM: RESIDUAL HEAT REMOVAL (RHR) ACCY:SPEC: N/A LOCATION: ROOM 444  
PLANT ID: PT-9102B,D DEMON: N/A RACK/PANEL:  
COMPONENT: PRESSURE TRANSMITTER MODEL NO.: 1153-A  
ASSOC COMP: ASSOC M/N: ASSOC. DWG: P&ID:M-361  
ASSOC COMP: ASSOC M/N: LOC:E-1168  
MANUFACT: ROSEMOUNT SERIAL NO:  
ASSOC MANF: ASSOC S/N:  
ASSOC MANF: ASSOC S/N:  
SERVICE: EMERGENCY PROCEDURES  
TO MANUALLY INITIATE SBT OR DRYWELL SPRAY  
TO MAINTAIN CONTAINMENT INTEGRITY

FUNCTION: TO PROVIDE DRYWELL PRESSURE INDICATION TO PR-9102B  
FLOOD LEVEL ELEV.: 92.5  
ABOVE FLOOD LEVEL: YES  
CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	101 DAYS	164 HRS.	NONE	104	TEST&ANAL.	NONE	
TEMPERATURE (F)	178(F)	1340	128	104	TEST	NONE	
PRESSURE (PSIA)	116.2(A)	1134.7	128	104	TEST	NONE	
RELATIVE HUMIDITY (%)	1100	1100	128	104	TEST	NONE	
RADIATION	12.22E7	14.4E7	128	104	TEST	NONE	REMARKS:
AGING	NONE		NONE		TEST		

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FACILITY: PBAPS UNIT: 3 DOCKET: 50-278 ITEM: PREPARED BY: W.J. CLUNE DATE: 02/01/82 REVISION DATE: 02-02-82  
REVIEWED BY: W.J. BOYER DATE: 02/01/82 FIELD VERIFIED DATE:  
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SYSTEM: RESIDUAL HEAT REMOVAL (RHR) ACCY:SPEC: N/A LOCATION: ROOM 37  
PLANT ID: TE-3442A,B DEMON: N/A RACK/PANEL:  
COMPONENT: TEMPERATURE ELEMENT MODEL NO.: TYPE-T  
ASSOC COMP: ASSOC M/N: ASSOC. DWG: P&ID:M-361  
ASSOC COMP: ASSOC M/N: LOC:E-1162  
MANUFACTU: DECKER INSTRUMENTS SERIAL NO:  
ASSOC MANF: ASSOC S/N:  
ASSOC MANF: ASSOC S/N:

SERVICE: EMERGENCY PROCEDURES  
TO MANUALLY CLOSE ANY SRV, OPERATE SUPPRESSION POOL COOLING  
OR SCRAM REACTOR TO MAINTAIN  
CONTAINMENT INTEGRITY & ADEQUATE CORE COOLING.

FLOOD LEVEL ELEV.: 92.5

FUNCTION: TO PROVIDE SUPPRESSION POOL TEMPERATURE  
INDICATION TO TI-3442A,B

ABOVE FLOOD LEVEL: YES

CHEMICAL SPRAY: N/A

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PARAMETER ENVIRONMENT DOCUMENTATION REFERENCE QUALIFICATION INTERFACES:  
SPECIFICATION QUALIFICATION SPECIFICATION QUALIFICATION METHOD OUTSTANDING ITEMS  
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OPERATING TIME 101 DAYS NONE  
TEMPERATURE (F) 215(B) 28  
PRESSURE (PSIA) 16.7(A) 28  
RELATIVE HUMIDITY (%) 100 28  
RADIATION 3.3E7 28  
AGING NONE NONE  
REMARKS:  
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