SECURITY-RELATED INFORMATION
WITHHELD UNDER 5 USC SECTION 552(b)
(4) AND 5 USC SECTION 552(b)(7)(F)

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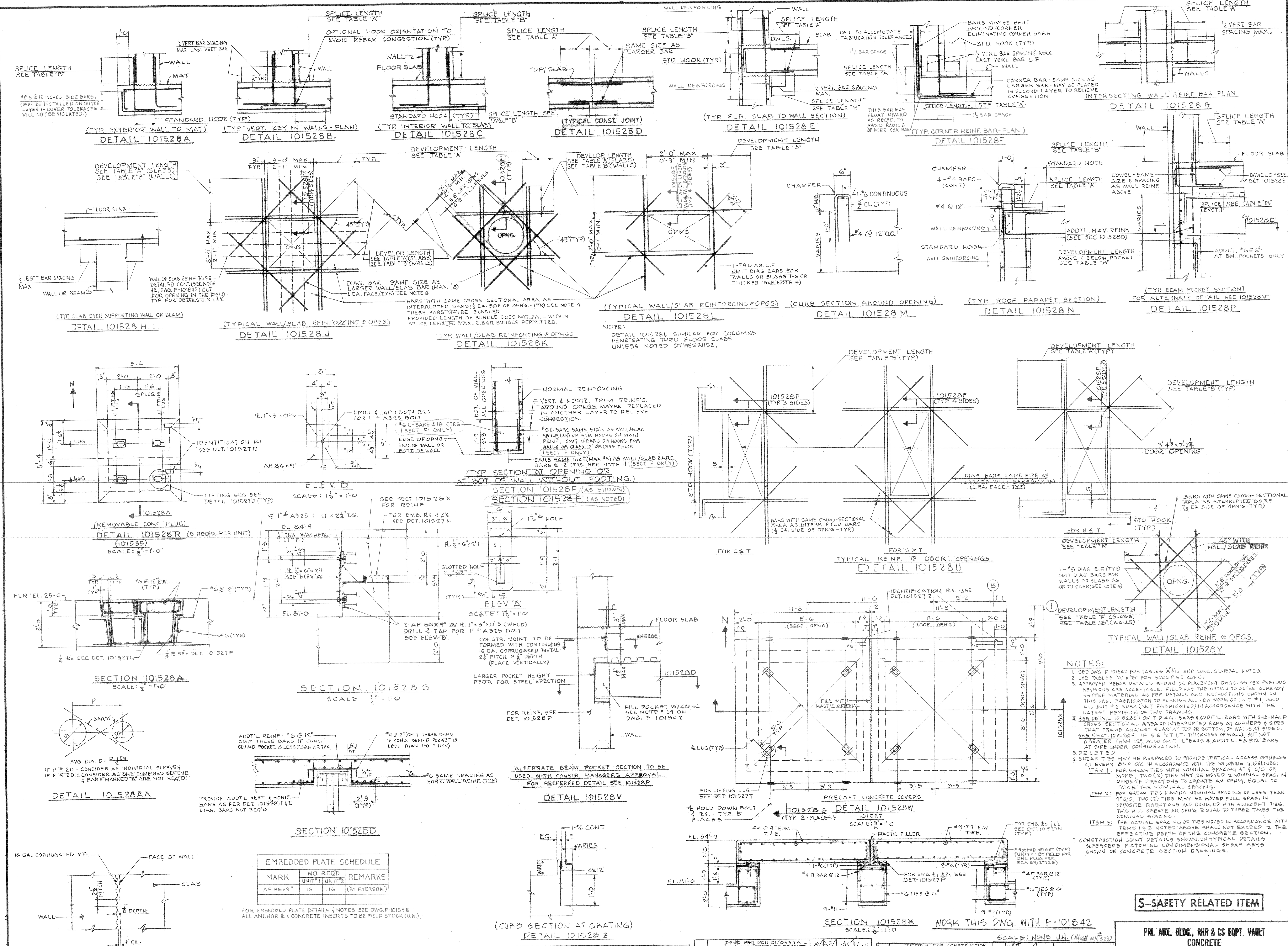
(4) AND 5 USC SECTION 552(b)(7)(F)



NOTES:

1. SEE DWG. F-101842 FOR TABLES "A" & "B" AND CONC. GENERAL NOTES.
2. USE TABLES "A" & "B" FOR 3000 P.S.I. CONC.
3. APPROVED REBAR DETAILS SHOWN ON PLACEMENT DWGS. AS PER PREVIOUS REVISIONS ARE ACCEPTABLE. FIELD HAS THE OPTION TO ALTER ALREADY SHIPPED MATERIAL AS PER DETAILS AND INSTRUCTIONS SHOWN ON THIS DWG. FABRICATOR TO FURNISH ALL NEW WORK OF UNIT #1, AND ALL UNIT #2 WORK (NOT FABRICATED) IN ACCORDANCE WITH THE LATEST REVISION OF THIS DRAWING.
4. SEE DETAIL 101528U: OMIT DIAG. BARS & ADDIT'L. BARS WITH ONE-HALF CROSS SECTIONAL AREA OF INTERRUPTED BARS AT CORNERS & SIDES THAT FRAME AGAINST SLAB AT TOP OR BOTTOM, OR WALLS AT SIDES.
   SEE SECT. 101528F: IF S ≤ 1/2 T (T = THICKNESS OF WALL), BUT NOT GREATER THAN 12", ALSO OMIT "U" BARS & ADDIT'L. #8 @ 12" BARS AT SIDE UNDER CONSIDERATION.
5. DELETED
6. SHEAR TIES MAY BE RESPACED TO PROVIDE VERTICAL ACCESS OPENINGS AT EVERY 8'-0" C/C IN ACCORDANCE WITH THE FOLLOWING GUIDELINES;
   ITEM 1: FOR SHEAR TIES WITH NOMINAL SPACING AT 9" C/C OR MORE, TWO (2) TIES MAY BE MOVED 1/2 NOMINAL SPAC. IN OPPOSITE DIRECTIONS TO CREATE AN OPN'G. EQUAL TO TWICE THE NOMINAL SPACING.
   ITEM 2: FOR SHEAR TIES HAVING NOMINAL SPACING OF LESS THAN 9" C/C, TWO (2) TIES MAY BE MOVED FULL SPAC. IN OPPOSITE DIRECTIONS AND BUNDLED WITH ADJACENT TIES. THIS WILL CREATE AN OPN'G. EQUAL TO THREE TIMES THE NOMINAL SPACING.
   ITEM 3: THE ACTUAL SPACING OF TIES MOVED IN ACCORDANCE WITH ITEMS 1 & 2 NOTED ABOVE SHALL NOT EXCEED 1/2 THE EFFECTIVE DEPTH OF THE CONCRETE SECTION.
7. CONSTRUCTION JOINT DETAILS SHOWN ON TYPICAL DETAILS SUPERCEDE PICTORIAL NONDIMENSIONAL SHEAR KEYS SHOWN ON CONCRETE SECTION DRAWINGS.

EMBEDDED PLATE SCHEDULE

MARK	NO. REQ'D UNIT 1	NO. REQ'D UNIT 2	REMARKS
AP 86x9"	16	16	(BY RYERSON)

FOR EMBEDDED PLATE DETAILS & NOTES SEE DWG. F-101698
ALL ANCHOR PL & CONCRETE INSERTS TO BE FIELD STOCK (U.N.)

S-SAFETY RELATED ITEM

WORK THIS DWG. WITH F-101842

SCALE: NONE U.N.

17		REV'D. DETS. J, K, L & SECT. F & ADDED SECT. F' PER ECA 59/3565B
16		REV'D. PER ECA 01/3484A
15		REV'D. DETAIL "P" PER ECA 59/2907B
14		REV'D. DETAIL "P" PER ECA 59/2907A
13		ADDED #9 BARS TO SECT. "X" PER ECA 59/2772B
12	4-13-82	REV'D. PER ECA 01/1554C, 01/1089A, 01/2621B, 01/3105A & 01/3115A.
11	1-7-82	REV'D. NOTE #4 PER ECA 01/...
10	5-14-81	REV'D. PER ECA 01/2124A, 01-2224A & 01/2543A
9	2-27-81	REV'D. LIFTING LUG REF. DET. & LOCATION IN DET. W
8	9-25-79	REV'D. DET'S. F, J, K, L, N, Y SECT. F & NOTE #4 ADDED DETAIL Z & NOTE 5
7	9-7-79	REV'D. PER DCN 01/0937A
6	3-1-79	BLDG. REV'D.
5	10-13-78	REV'D. HOLD ...
4	11-16-77	ISSUED FOR CONSTRUCTION
3	10-21-77	ISSUED FOR CONSTRUCTION REV'D. SECT. D & K; DELETED DET. 101528H
2	3-25-77	ISSUED FOR REBAR DET. & FAB. ADDED DET. "Z"
1		REVISED DETAILS TO CONFORM TO DWG. NO. F-101842
0	2-6-76	ISSUED FOR REBAR DETAILING & FAB.

PRI. AUX. BLDG., RHR & CS EQPT. VAULT
CONCRETE
DETAILS
PUBLIC SERVICE CO. OF NEW HAMPSHIRE
SEABROOK STATION
united engineers & constructors inc.

UNITS 1 AND 2 — 9763-F-101528

1 — AREA 030 PB

B-X-R-X-X-0

1-NHY-300219 SHEET 1 OF 5

BUILDING	OUTDOOR	CONTAINMENT							
AREA/ ELEVATION	-	INCORE INSTRU (-) 44'-9"		REACTOR AREA (-) 26'-0"		REFUEL'G CAVITY 0'0"		REGEN HX (-) 26'-0"	
ENVIRONMENTAL ZONE	-	CS-1		CS-2		CS-3		CS-4	
CONDITION	NORMAL	NORMAL 1	ABNORMAL 3	NORMAL 1	ABNORMAL 3	NORMAL 1	ABNORMAL 3	NORMAL 1	ABNORMAL 3
TEMPERATURE °F MAXIMUM	88 (7)	120	120	120	120	120	120	120	120
MINIMUM	0	50 (13)	—	50 (13)	—	50 (13)	—	50 (13)	—
PRESSURE (PSIG)		(60)(2)		(60)(2)		(60)(2)		(60)(2)	
MAXIMUM	-	1.5	—	1.5	—	1.5	—	1.5	—
NORMAL	0	0.5	—	0.5	—	0.5	—	0.5	—
MINIMUM	-	(-) 3.5 (1)	—	(-) 3.5 (1)	—	(-) 3.5 (1)	—	(-) 3.5 (1)	—
HUMIDITY (%) MAXIMUM	100	40	—	40	—	40	—	40	—
MINIMUM (12)	30	1.0	—	1.0	—	1.0	—	1.0	—
RADIATION (RADS) TOTAL INTEGRATED DOSE -(4)	1×10^3	(9)		(9)		(9)		(9)	
SPRAY (14)	SEASHORE LEVELS OF SALT WATER IN AIR	NONE							

BUILDING	CONTAINMENT									
AREA/ ELEVATION	VALVE ROOM (-) 26'-0"		EX LETDOWN HX (-) 26'-0"		RC DR TANK HX (-) 26'-0"		RC DR TANK (-) 26'-0"		STEAM GEN AREA (-) 26'-0"	
ENVIRONMENTAL ZONE	CS-5		CS-6		CS-7		CS-8		CS-9	
CONDITION	NORMAL 1	ABNORMAL 3	NORMAL 1	ABNORMAL 3	NORMAL 1	ABNORMAL 3	NORMAL 1	ABNORMAL 3	NORMAL 1	ABNORMAL 3
TEMPERATURE °F MAXIMUM	120	120	120	120	120	120	120	120	120	120
MINIMUM	50 (13)	—	50 (13)	—	50 (13)	—	50 (13)	—	50 (13)	—
PRESSURE (PSIG)	(60)(2)		(60)(2)		(60)(2)		(60)(2)		(60)(2)	
MAXIMUM	1.5	—	1.5	—	1.5	—	1.5	—	1.5	—
NORMAL	0.5	—	0.5	—	0.5	—	0.5	—	0.5	—
MINIMUM	(-) 3.5 (1)	—	(-) 3.5 (1)	—	(-) 3.5 (1)	—	(-) 3.5 (1)	—	(-) 3.5 (1)	—
HUMIDITY (%) MAXIMUM	40	—	40	—	40	—	40	—	40	—
MINIMUM (12)	1.0	—	1.0	—	1.0	—	1.0	—	1.0	—
RADIATION (RADS) TOTAL INTEGRATED DOSE -(4)	(9)		(9)		(9)		(9)		(9)	
SPRAY (14)	NONE									

BUILDING	CONTAINMENT										
AREA/ ELEVATION	OUT SEC SHIELD WALL (-) 26'-0"		PRESSURIZER ROOM 0'-0"		OUT SEC SHIELD WALL 0'-0"		OPERATING FLOOR 25'-0"		INSIDE CONTAINMENT STRUCTURE AND PENETRATIONS WITHIN WALLS		
ENVIRONMENTAL ZONE	CS-10		CS-11		CS-12		CS-13		ALL ZONES		
CONDITION	NORMAL 1	ABNORMAL 3	NORMAL 1	ABNORMAL 3	NORMAL 1	ABNORMAL 3	NORMAL 1	ABNORMAL 3	ACCIDENT 1	ACCIDENT 2	ACCIDENT 8
TEMPERATURE °F MAXIMUM	120	120	120	120	120	120	120	120	273	364	120
MINIMUM	50 (13)	—	50 (13)	—	50 (13)	—	50 (13)	—	-	-	-
PRESSURE (PSIG)	(60)(2)		(60)(2)		(60)(2)		(60)(2)				
MAXIMUM	1.5	—	1.5	—	1.5	—	1.5	—	49.6	36.1	2
NORMAL	0.5	—	0.5	—	0.5	—	0.5	—	-	-	-
MINIMUM	(-) 3.5 (1)	—	(-) 3.5 (1)	—	(-) 3.5 (1)	—	(-) 3.5 (1)	—	-	-	-
HUMIDITY (%) MAXIMUM	40	—	40	—	40	—	40	—	STEAM/AIR MIXTURE SEE FIGURES 1 & 2		
MINIMUM (12)	1.0	—	1.0	—	1.0	—	1.0	—			
RADIATION (RADS) TOTAL INTEGRATED DOSE -(4)	(9)		(9)		(9)		(9)		(9)		
SPRAY (14)	NONE								BORIC ACID 1.2% WT PH 7.5-10.5 NaOH USED TO CONTROL PH		

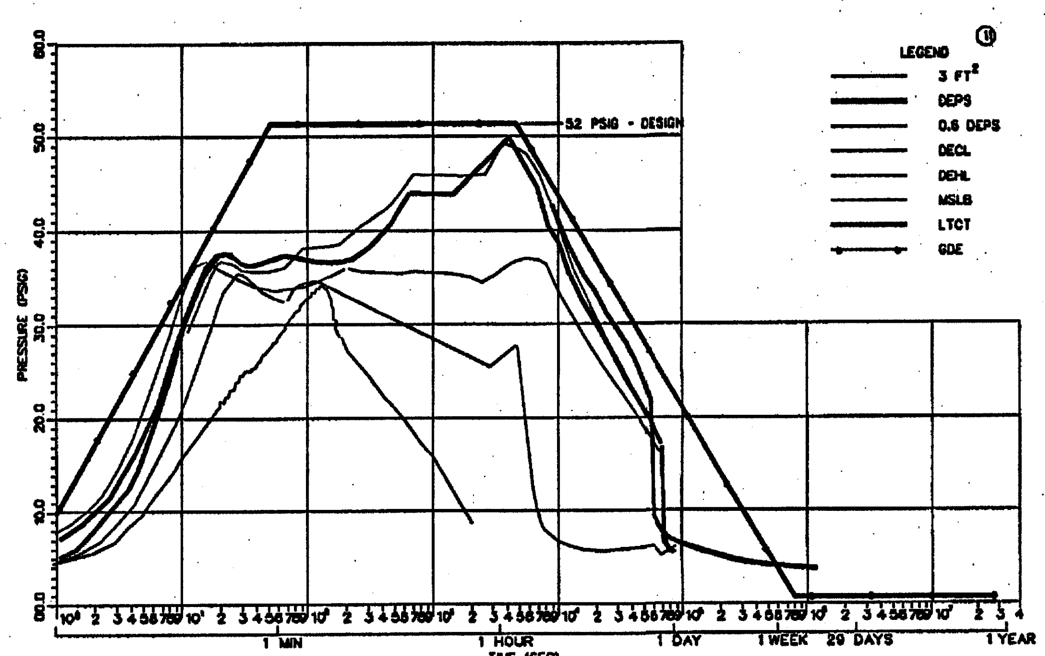


FIGURE 1 (3)
CONTAINMENT ACCIDENT DESIGN ENVELOPE
PRESSURE - TIME
SEE NOTE 24

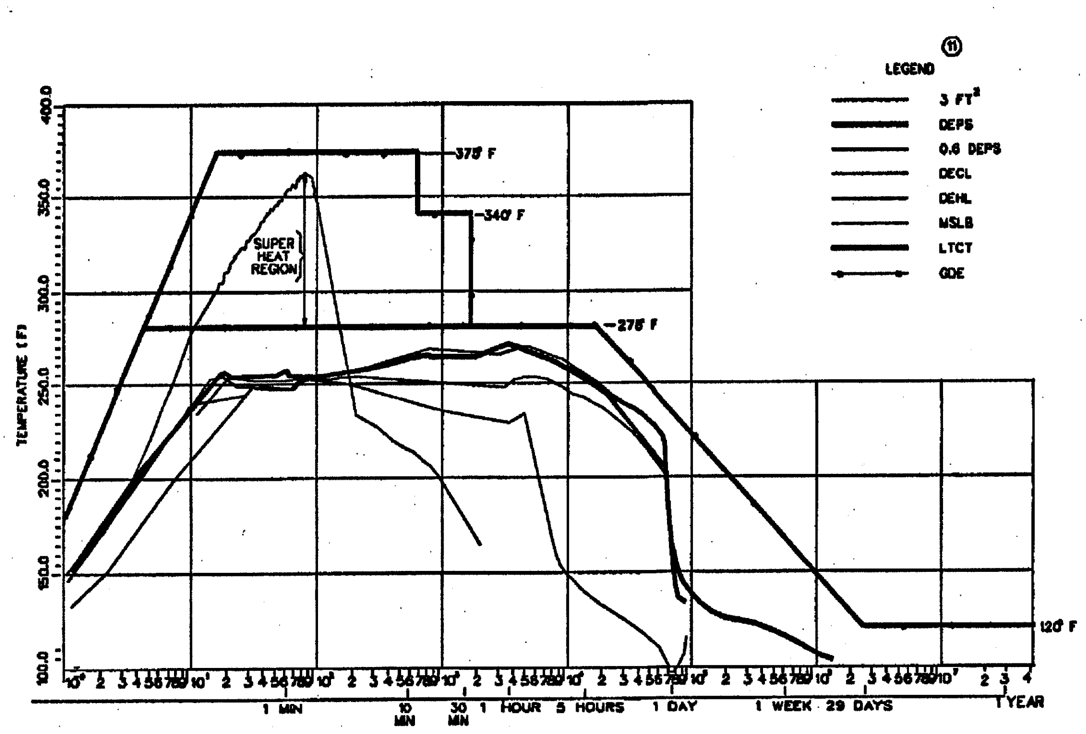


FIGURE 2 (3)
CONTAINMENT ACCIDENT DESIGN ENVELOPE
TEMPERATURE - TIME
SEE NOTE 24

NOTES ○

1. -3.5 PSIG IS RESULT OF INADVERTENT SPRAY ACTUATION WITH MINIMUM WATER TEMPERATURE
2. 60 PSIG TEST CONDITION SPECIFIED ENVELOPES THE INTEGRATED LEAK RATE TEST AS WELL AS THE STRUCTURAL INTEGRITY TEST. THIS IS REQUIRED TO BE SPECIFIED AS A NON-FUNCTIONAL REQUIREMENT, BUT MAY HAVE IMPACT ON EQUIPMENT INTEGRITY DURING TEST. TIME DURATION OF PRESSURIZATION AT THIS VALUE WILL RANGE FROM ONE DAY TO ONE WEEK FOR A TOTAL NUMBER OF 20 TIMES DURING A 40-YEAR LIFE OF PLANT.
3. FIGURE 1, THE PRESSURE DESIGN ENVELOPE, IS THE CONTAINMENT STRUCTURE DESIGN PRESSURE OF 52 PSIG WHICH IN ACCORDANCE WITH 10CFR50,GDC 50 INCLUDES A MARGIN ABOVE THE PEAK ACCIDENT PRESSURE OF 49.6 PSIG.

   FIGURE 2, THE TEMPERATURE DESIGN ENVELOPE INCLUDES AN INITIAL PEAK CORRESPONDING TO THE MAIN STEAM LINE BREAK DESIGN TEMPERATURE OF 375°F AND A LOCA DESIGN TEMPERATURE OF 276°F. THIS IS THE TEMPERATURE OF THE SATURATED STEAM/AIR MIXTURE AT 52 PSIG.

   THE DESIGN ENVELOPES IN BOTH CASES DO NOT INCLUDE MARGINS FOR EQUIPMENT QUALIFICATION AS REQUIRED BY IEEE 323.
4. TOTAL INTEGRATED DOSE IS THE SUM OF 40 YEARS NORMAL DOSE PLUS ONE YEAR POST ACCIDENT DOSE WHERE APPLICABLE
5. MINIMUM TEMPERATURE NOTED WILL ONLY BE REACHED AFTER SOME PERIOD OF TIME, AND ONLY IF NO ACTION IS TAKEN TO PROVIDE HEATING TO THE AFFECTED AREA.
6. A TORNADO CAN PRODUCE A -3 PSIG DEVIATION FROM NORMAL ATMOSPHERIC PRESSURE. THE D.G. SHOULD START UNDER THESE CONDITIONS. HOWEVER, OPERATION AT LOAD IS NOT REQUIRED BECAUSE THE DURATION OF THE PRESSURE TRANSIENT IS ONLY 1.5 SEC WHICH IS LESS THAN STARTING TIME OF THE DIESEL.
7. THE DESIGN BASIS AMBIENT TEMPERATURE RANGE OF 0 TO 88°F USED FOR EQUIPMENT LOCATED WITHIN BUILDINGS IS TAKEN FROM ASHRAE 1967 "HANDBOOK OF FUNDAMENTALS", 98% OF THE TEMPERATURE DATA LIES BETWEEN THESE TWO LIMITS.

   A STATISTICAL ANALYSIS OF REGIONAL EXTREME TEMPERATURE CONDITIONS PREDICTS 100 YEAR MAXIMUM AND MINIMUM HOURLY OUTDOOR TEMPERATURES OF 100.9°F AND -18.8°F RESPECTIVELY (FP59990, FSAR SECTION 2.3.2 1b). SAFETY-RELATED EQUIPMENT LOCATED INSIDE SELECTED BUILDINGS HAVE BEEN EVALUATED FOR SATISFACTORY PERFORMANCE UNDER 24-HOUR AVERAGE OUTDOOR TEMPERATURE CONDITIONS OF -16°F AND 89°F. THE ANALYSIS SUMMARIZING THE OPERATIONAL CAPABILITY OF THE INDOOR EQUIPMENT FOR THESE EXTREME OUTDOOR TEMPERATURES WAS SUBMITTED TO THE NRC IN A LETTER BY PSNH, DATED JUNE 24, 1983, TO MR. G.W. KNIGHTON FROM MR. JOHN DeVINCENTIS, YAEC.
8. W.P.B. EVAPORATOR CUBICLES T_{MAX} = 120°F
9. THE INTEGRATED DOSE, WHICH IS THE SUM OFTHE FORTY YEAR NORMAL AND ACCIDENT (LOCA) DOSES IS AS FOLLOWS:
   A. NORMAL FOR GENERAL AREA: $2X10^7$ RADS GAMMA
   B. NORMAL FOR REACTOR COOLANT (RC) PIPING: $1.8X10^8$ RADS GAMMA.
   C. NORMAL FOR RC PIPING IN LINE INSTRUMENTATION: $3X10^8$ RADS GAMMA.
   D. NORMAL FOR AREA BETWEEN MISSLE SHIELD AND REACTOR PRIMARY SHIELD, AND AROUND RC PIPING PENETRATION IN PRIMARY SHIELD: $1 X10^8$ RADS GAMMA
   E. ACCIDENT-INTEGRATED DOSE AFTER ONE YEAR IN LOCA ENVIRONMENT:
      (1) FOR COMPONENTS NOT SUBMERGED FOLLOWING LOCA: BETA DOSE = $9.9X10^7$ RADS; GAMMA DOSE = $1.4X10^7$ RADS.
      (2) FOR COMPONENTS SUBMERGED FOLLOWING LOCA: BETA DOSE = $4.1X10^7$ RADS; GAMMA DOSE = $3.5X10^7$ RADS.
10. FOR THE FOLLOWING AREAS USE AN INTEGRATED DOSE OF $3.4X10^8$ RADS:
    A. SPENT RESIN SLUICE TANK/TRANSFER PUMP AREA
    B. DEMINERALIZER CUBICLES (EXCEPT CS MIXED BED AND CATION WHICH ARE $8.5X10^8$)
    C. FILTER CUBICLES.
    D. WASTE SOLIDIFICATION HOPPER AREA
    E. DEGASIFIER AREA (WASTE PROCESS BUILDING)
11. DECL - DOUBLE ENDED COLD - LEG GUILLOTINE (MINIMUM SAFETY INJECTION)
    DEHL - DOUBLE ENDED HOT - LEG GUILLOTINE (MINIMUM SAFETY INJECTION)
    DEPS - DOUBLE ENDED PUMP SUCTION GUILLOTINE (MINIMUM/MAXIMUM SAFETY INJECTION)
    3 FT² - 3 FT² PUMP SUCTION SPLIT (MINIMUM SAFETY INJECTION)
    MSLB - MAIN STEAM LINE BREAK AT 102% POWER
    LTCT - LONG TERM CONTAINMENT TEMPERATURE/PRESSURRESPONSE TO DESIGN BASIS LOCA
    GDE - GENERAL DESIGN ENVELOPE
12. MAXIMUM AND MINIMUM HUMIDITIES GIVEN FOR NORMAL CONDITIONS ARE COINCIDENT WITH MAXIMUM AND MINIMUM TEMPERATURES FOR NORMAL CONDITIONS. DURING NORMAL PLANT OPERATION (100% POWER, HEAT-UP AND COOL DOWN, REFUELING AND SHUT DOWN), HUMIDITIES COULD EXCEED THE MAXIMUM NOTED IN THE TABLE. HUMIDITIES ARE NOT CONTROLLED EXCEPT IN THE FOLLOWING ENVIRONMENTAL ZONES:
    CB-1 "MAIN CONTROL ROOM"
    CB-1A, 1B, 1C, 1D, 1E, 1F, 1G, "GENERAL AREAS"
    CB-2 "COMPUTER ROOM"

    OTHER AREA HUMIDITES MAY REACH 95% RH DURING PLANT SHUTDOWN CONDITIONS (REF CALC MS-MISC-32)
13. MINIMUM TEMPERATURE APPLIES TO PLANT SHUTDOWN. MINIMUM TEMPERATURE DURING REFUELING OPERATION IS 74° F
14. SPRAY FOR ZONES SW-1, CT-2, CT-4 AND CIRC WATER PUMP HOUSE PUMP ROOM IS SEASHORE LEVELS OF SALT WATER IN AIR. ALL OTHER AREAS/ZONES NOT APPLICABLE
15. INDICATES AREA PROVIDED W/SAFTEY RELATED VENTILATION
16. FOLLOWING A FUEL HANDLING ACCIDENT THE 30 DAY INTERGRATED DOSE EXCEEDS $1 X 10^3$ RADS IN A LOCALIZED AREA WITHIN APPROXIMATELY 10 FEET OF THE CHARCOAL VENTILATION FILTERS. THE MAXIMUM 30 DAY INTERGRATED DOSE ON CONTACT IS APPROXIMATELY $2 X 10^4$ RADS. IT IS ASSUMED THAT THE CHARCOAL FILTERS CAN BE REPLACED WITHIN 30 DAYS. (REF CALC 4.4.14.97F, REV 0)
17. THESE ZONES ARE ANALYZED FOR NORMAL CONDITIONS ONLY.
18. PRESSURIZED ACCIDENT-RCS REMAINS PRESSURIZED FOLLOWING CORE DAMAGE.
19. THE YEARLY AVERAGE SPACE TEMPERATURE IN DB-4A&4B IS APPROXIMATELY 90° F (CALC 6.01.47.13, REV 02 AND C-S-1-87901 REV 01).
20. MAXIMUM SPACE TEMPERATURE FOLLOWING A LOCA WITH A MAXIMUM PCCW TEMPERATURE OF 126° F (REF.CALC.SET NO MSVCS-FAG-16, REV. 0).
21. INDICATES AREA PROVIDED WITH SAFETY-RELATED FILTRATION.
22. MINIMUM TEMPERATURE NOTED WILL ONLY BE ACHIEVED IF NO OPERATOR ACTION IS TAKEN. AS REQUIRED, FOLLOWING A PLANT SHUTDOWN, THIS AREA IS DESIGNED WITH PERMANENT ELECTRIC UNIT HEATERS WHICH WHEN MANUALLY ACTIVATED, WILL MAINTAIN THE AREA AT 40° F WITH A 0° F OUTSIDE AIR TEMPERATURE. IN ADDITION, THE VENTILATION LOUVERS AT ELEVATION 51'6" AND THE FAN INTAKE UNIT MUST BE COVERED WITH A FIRE RETARDANT PLASTIC OR OTHER TYPE FIRE RETARDANT BARRIER MATERIAL IN ORDER TO PREVENT AIR INFILTRATION.
23. 90° F IS THE LIMITING EQUIPMENT QUALIFICATION TEMPERATURE FOR CLASS 1E EQUIPMENT LOCATED IN THE CONTROL ROOM. THIS TEMPERATURE LIMIT IS ACCEPTABLE FOR HABITABILITY (REF: EE-98015, REV. 2 AND C-S-1-81028)
24. PRESSURE AND TEMPERATURE TIME/HISTORIES ARE BASED ON THE ORIGINAL AND BOUNDING CONTAINMENT ANALYSIS. A NEW GOTHIC BASED ANALYSIS WAS PERFORMED TO BASELINE THE ORIGINAL ANALYSIS AND DETERMINE THE IMPACT OF THE ANALYZED CORE POWER LEVEL OF 3659 MWT. THE TEMPERATURE AND PRESSURE PEAK VALUES SHOWN FOR THE EQ PROFILE CURVES REMAIN BOUNDING AT 3659 MWT ANALYZED CORE POWER LEVEL, EXCEPT FOR LONG TERM LOCA PRESSURE RESPONSE, WHICH WAS EXCEEDED BY APPROXIMATELY 4.5 PSI. THIS IS ACCEPTABLE SINCE THE QUALIFICATION PEAK PRESSURE IS 66.7 PSIA AND PRESSURE EFFECTS ARE STRESS RELATED RATHER THAN AGE DEGRADATION RELATED. QUALIFICATION TO HIGH PRESSURE PEAK ENSURES THAT THERE ARE NO STRESS RELATED COMPONENT FAILURES. THE ACTUAL CALCULATED PRESSURE AND TEMPERATURE CURVES AT THE 3659 MWT ANALYZED CORE POWER LEVEL VS. TIME MAY DIFFER SLIGHTLY FROM THE CURVES PRESENTED ABOVE (REFER TO SEABROOK CALCULATIONS C-S-1-28002 AND 28003).

GENERAL NOTES

A. IN AREAS WHERE SLIGHTLY POSITIVE (SLIGHT POS) OR SLIGHTLY NEGATIVE (SLIGHT NEG) PRESSURES ARE INDICATED, THE INFORMATION IS FOR DESIGN OF HVAC SYSTEMS AND IS NOT REQUIRED TO BE SPECIFIED IN EQUIPMENT SPECIFICATIONS, UNLESS THESE PRESSURES AFFECT THE DESIGN AND/OR OPERATION OF THIS EQUIPMENT.
B. ALL EQUIPMENT LOCATED EXTERNAL TO SECONDARY SHIELD WALL WITHIN CONTAINMENT, AND ALL EQUIPMENT LOCATED EXTERNAL TO CONTAINMENT WILL EXPERIENCE NEUTRON FLUX LESS THAN 10^{10} NVT AND THEREFORE NEUTRON EXPOSURE NEED NOT BE SPECIFIED FOR FERRITE COMPONENTS PURCHASED TO ASME CODE SECTION 3.
C. THIS DRAWING IS VALID ONLY FOR ENVIROMENTAL QUALIFICATION OF EQUIPMENT IMPORTANT TO SAFETY AND SHOULD NOT BE UTILIZED FOR ANY OTHER DESIGN PURPOSES.
D. FOR REFERENCE CALCULATIONS WHICH SERVE AS THE BASIS FOR THE NORMAL/ ABNORMAL/ACCIDENT CONDITIONS SHOWN ON THE SERVICE ENVIRONMENT CHART, SEE CALC SET NO 6.01.000, "DESIGN BASIS".
E. FOR ENVIRONMENTAL ZONE MAPS, SEE CALC SET NO 6.01.0000, "DESIGN BASIS"
F. CONDITIONS- ALL NORMAL, ABNORMAL AND ACCIDENT CONDITIONS LISTED BELOW OCCUR SIMULTANEOUSLY WITH THE DESIGN BASIS OUTDOOR AMBIENT TEMPERATURES AND HUMIDITIES. THE WORST NORMAL, ABNORMAL AND ACCIDENT CONDITIONS, AS APPLICABLE FOR EACH BUILDING ZONE, ARE TABULATED IN THE CHART.

   NORMAL 1 - THE MAXIMUM AND MINIMUM TEMPERATURES AND HUMIDITIES OCCURRING DURING 100% FULL POWER.

   NORMAL 2 - THE MAXIMUM AND MINIMUM TEMPERATURES AND HUMIDITIES OCCURRING DURING HEATUP AND COOLDOWN.

   ABNORMAL 1- THE MAXIMUM TEMPERATURE OCCURRING DURING DIESEL GENERATOR TESTING.

   ABNORMAL 2-THE MAXIMUM TEMPERATURE OCCURRING DURING TUNNEL HEAT TREATMENT.

   ABNORMAL 3- THE MAXIMUM TEMPERATURE OCCURRING DURING LOSS OF OFFSITE POWER (LOP) WITH THE PLANT AT 100% FULL POWER. THE DURATION OF THE LOP EVENT IS 2 HOURS AND WILL OCCUR ONCE DURING THE LIFE OF THE PLANT.

   ABNORMAL 4-THE MAXIMUM TEMPERATURE OCCURRING DURING REFUELING.

   ACCIDENT 1 - THE MAXIMUM TEMPERATURE, PRESSURE, HUMIDITY & RADIATION DOSE OCCURRING DURING A LOSS OF COOLANT ACCIDENT (LOCA) WITH A LOSS OF OFFSITE POWER. THE DURATION OF THE LOP IS 72 HOURS FOR ALL BUILDINGS OTHER THAN CONTAINMENT; FIGURES 1 AND 2 SHOULD BE USED FOR CONTAINMENT.

   ACCIDENT 2 - THE MAXIMUM TEMPERATURE, PRESSURE AND HUMIDITY OCCURRING DURING A MAIN STEAM LINE BREAK (MSLB) EITHER IN CONTAINMENT OR IN THE MAIN STEAM AND FEEDWATER PIPE CHASES.

   ACCIDENT 3 - THE MAXIMUM TEMPERATURE, PRESSURE AND HUMIDITY OCCURRING DURING A HIGH ENERGY LINE BREAK (HELB) OUTSIDE CONTAINMENT.

   ACCIDENT 4 - THE MAXIMUM TEMPERATURE, PRESSURE AND HUMIDITY OCCURRING DURING A MODERATE ENERGY LINE BREAK (MELB).

   ACCIDENT 5 - THE MAXIMUM TEMPERATURE, PRESSURE AND HUMIDITY OCCURRING DURING A HOT WATER LINE BREAK (HWLB), HIGH ENERGY LINE.

   ACCIDENT 6 - THE MAXIMUM TEMPERATURE, PRESSURE AND HUMIDITY OCCURRING DURING 100% FULL POWER WITH A LOSS OF TUNNELS.

   ACCIDENT 7 - THE MAXIMUM TEMPERATURE, PRESSURE AND HUMIDITY OCCURRING DURING A LOSS OF COOLANT ACCIDENT WITH A LOSS OF TUNNELS.

   ACCIDENT 8 - THE MAXIMUM LONG TERM TEMPERATURE, PRESSURE AND HUMIDITY RESULTING FROM A DESIGN BASIS LOCA.

   ACCIDENT 9 - THE MAXIMUM TEMPERATURE OCCURRING DURING A SEISMIC EVENT WITH 100% FULL POWER OR A LOCA.

   ACCIDENT 10- THE MAXIMUM TEMPERATURE, PRESSURE AND HUMIDITY OCCURRING DURING A FUEL HANDLING ACCIDENT (FH ACCID).
G. MAXIMUM TEMPERATURE, PRESSURE AND HUMIDITY GIVEN FOR THE ACCIDENT CONDITIONS ARE COINCIDENT WITH THE WORST CASE ACCIDENT AS NOTED.
H. MINIMUM TEMPERATURES INDICATED ARE FOR ANY NORMAL MODE OF OPERATION (INCLUDING PLANT SHUTDOWN)
I. DASHED (-) LINE FOR RADIATION DOSE UNDER ACCIDENT CONDITIONS INDICATES THAT THE ACCIDENT DOSE IS NEGLIGIBLE.
J. DASHED (-) LINE FOR TEMPERATURE PRESSURE AND/OR RELATIVE HUMIDITY UNDER NORMAL, ABNORMAL AND/OR ACCIDENT COLUMNS INDICATES INFORMATION NOT REQUIRED UNDER THIS ANALYSIS.

NUCLEAR SAFETY RELATED

REV	DATE	DSGN	DRWN	CHKD	CE	LDE	DESCRIPTION
27	10/29/07	—	TPN	[signature]	[signature]	[signature]	INCORP DCR 07-008 DCN 00
26	4/29/05	—	SJT	DNQ	RRB	PJT	INCORP DCR 03-012 DCN 00
25	1/06/04	—	APL	APL	JC	PJT	INCORP MMOD 03-516 DCN 00
24	6/25/03	—	APL	APL	TWT	PJT	INCORP DCR 00-024 DCN 00
23	10/10/02	—	APL	APL	DJK	PJT	INCORP DCR 98-039 DCN 84
22	4/5/91	—	RMC	JM	APL	EJK	INCORP FCR 91-026
21	12/12/90	—	FCB	RMC	APL	EJK	INCORP DCR 89-048 CA08
20	10/30/89	—	JM	CCM	APL	PJT	SUPERCEDES UE&C DWG 9763-F-300219

FPL Energy-Seabrook Station

FPL Energy Seabrook Station

SERVICE
ENVIRONMENT CHART

1-NHY-300219 SHEET 1 OF 5

BUILDING	MAIN STEAM & FEEDWATER PIPE CHASES														
AREA/ ELEVATION	WEST PIPE CHASE 3'-0"			WEST PIPE CHASE 12'-0"			WEST PIPE CHASE 28'-0"			WEST PIPE CHASE STAIRWELL 3'-0"			PERSONNEL ACCESS HATCH 21'-0"		
ENVIRONMENTAL ZONE	PCW-1			PCW-2			PCW-3			PCW-4			PCW-5		
CONDITION	NORMAL 1	ABNORMAL 3	ACCIDENT 2	NORMAL 1	ABNORMAL 3	ACCIDENT 2	NORMAL 1	ABNORMAL 3	ACCIDENT 2	NORMAL 1	ABNORMAL 3	ACCIDENT 1	NORMAL 1	ABNORMAL 3	ACCIDENT 2
TEMPERATURE °F MAXIMUM	130	206	450	130	206	450	130	206	450	130	123	139	130	120	325
TEMPERATURE °F MINIMUM	0 (5)	—	—	0 (5)	—	—	0 (5)	—	—	28		—	50	—	—
PRESSURE (PSIG) MAXIMUM	SLIGHT POS	—	4.8	SLIGHT POS	—	4.8	SLIGHT POS	—	4.8	0	—	0	SLIGHT POS	—	4.8
PRESSURE (PSIG) NORMAL	SLIGHT POS	—	—	SLIGHT POS	—	—	SLIGHT POS	—	—	0	—	—	SLIGHT POS	—	—
PRESSURE (PSIG) MINIMUM	(-) 3	—	—	(-) 3	—	—	(-) 3	—	—	(-) 3	—	—	(-) 3	—	—
HUMIDITY (%) MAXIMUM (12)	30	—	100	30	—	100	30	—	100	30	—	20	30	—	100
HUMIDITY (%) MINIMUM (12)	5	—	—	5	—	—	5	—	—	8	—	—	3	—	—
RADIATION (RADS) TOTAL INTEGRATED DOSE -(4)	1×10^3		ACCIDENT 1: 9.8×10^4	1×10^3		ACCIDENT 1: 9.8×10^4	1×10^3		ACCIDENT 1: 9.8×10^4	1×10^3		ACCIDENT 1: 2.4×10^2	5.3×10^3		ACCIDENT 1: 6.5×10^4

BUILDING	MAIN STEAM & FEEDWATER PIPE CHASES														
AREA/ ELEVATION	EAST PIPE CHASE 3'-0"			EAST PIPE CHASE 12'-0"			EAST PIPE CHASE 28'-0"			PIPE TUNNEL 10'-0"			ELECTRICAL ROOM 3'-0"		
ENVIRONMENTAL ZONE	PCE-1			PCE-2			PCE-3			PCE-4			PCE-5 (15)		
CONDITION	NORMAL 1	ABNORMAL 3	ACCIDENT 2	NORMAL 1	ABNORMAL 3	ACCIDENT 2	NORMAL 1	ABNORMAL 3	ACCIDENT 2	NORMAL 1	ABNORMAL 3	ACCIDENT 2	NORMAL 1	ABNORMAL 3	ACCIDENT 1
TEMPERATURE °F MAXIMUM	130	185	450	130	185	450	130	185	450	130	243	450	104	104	130
TEMPERATURE °F MINIMUM	0 (22)	—	—	0 (22)	—	—	0 (22)	—	—	50	—	—	50	—	—
PRESSURE (PSIG) MAXIMUM	SLIGHT POS	—	4.8	SLIGHT POS	—	4.8	SLIGHT POS	—	4.8	0	—	4.8	SLIGHT NEG	—	0
PRESSURE (PSIG) NORMAL	SLIGHT POS	—	—	SLIGHT POS	—	—	SLIGHT POS	—	—	0	—	—	SLIGHT NEG	—	—
PRESSURE (PSIG) MINIMUM	(-) 3	—	—	(-) 3	—	—	(-) 3	—	—	(-) 3	—	—	(-) 3	—	—
HUMIDITY (%) MAXIMUM (12)	30	—	100	30	—	100	30	—	100	30	—	100	60	—	30
HUMIDITY (%) MINIMUM (12)	5	—	—	5	—	—	5	—	—	3	—	—	3	—	—
RADIATION (RADS) TOTAL INTEGRATED DOSE -(4)	1×10^3		ACCIDENT 1: 9.8×10^4	1×10^3		ACCIDENT 1: 9.8×10^4	1×10^3		ACCIDENT 1: 9.8×10^4	1×10^3		—	1×10^3		—

BUILDING	MAIN STEAM & FEEDWATER PIPE CHASES			MECHANICAL PENETRATION AREA (2)											
AREA/ ELEVATION	HYDROGEN ANALYZER ROOM 22'-0"			RADIOACTIVE TUNNEL (-) 34'-6"			RADIOACTIVE TUNNEL (-) 26'-6"			RADIOACTIVE TUNNEL (-) 34'-6"			RADIOACTIVE TUNNEL (-) 26'-6"		
ENVIRONMENTAL ZONE	PCE-6 (15)			MPA-1 (15)			MPA-2 (15)			MPA-3 (15)			MPA-5 (15)		
CONDITION	NORMAL 1	ABNORMAL 3	ACCIDENT 1	NORMAL 2	ABNORMAL 3	ACCIDENT 1	NORMAL 1	ABNORMAL 3	ACCIDENT 1	NORMAL 2	ABNORMAL 3	ACCIDENT 1	NORMAL 2	ABNORMAL 3	ACCIDENT 1
TEMPERATURE °F MAXIMUM	104	104	130	104	100	169	104	105	165	104	102	171	104	96	159
TEMPERATURE °F MINIMUM	50	—	—	50	—	— (20)	50	—	— (20)	50	—	— (20)	50	—	— (20)
PRESSURE (PSIG) MAXIMUM	SLIGHT NEG	—	0	SLIGHT POS	—	ACCIDENT 4: 1.0	SLIGHT POS	—	ACCIDENT 4: 1.0	SLIGHT POS	—	ACCIDENT 4: 1.0	0	—	ACCIDENT 4: 1.0
PRESSURE (PSIG) NORMAL	SLIGHT NEG	—	—	SLIGHT POS	—	—	SLIGHT POS	—	—	SLIGHT POS	—	—	0	—	—
PRESSURE (PSIG) MINIMUM	(-) 3	—	—	0	—	—	0	—	—	0	—	—	0	—	—
HUMIDITY (%) MAXIMUM (12)	60	—	30	60	—	ACCIDENT 4: 100	60	—	ACCIDENT 4: 100	60	—	ACCIDENT 4: 100	60	—	ACCIDENT 4: 100
HUMIDITY (%) MINIMUM (12)	3	—	—	3	—	—	3	—	—	3	—	—	3	—	—
RADIATION (RADS) TOTAL INTEGRATED DOSE -(4)	1×10^3		ACCIDENT 1: 8.6×10^3	3.4×10^7		9.0×10^7 (18)	3.4×10^7		3.4×10^7 (18)	3.4×10^7		4.7×10^7 (18)	3.4×10^7		2.6×10^7 (18)

BUILDING	MECHANICAL PENETRATION AREA (2)			DIESEL GENERATOR BUILDING								
AREA/ ELEVATION	NON-RADIOACTIVE TUNNEL (-) 8'-0"			MECHANICAL EQUIPMENT ROOM 51'-6"			AIR INTAKES 51'-6"					
ENVIRONMENTAL ZONE	MPA-4 (15)			DB-1 (15)			DB-2A (15)			DB-2B (15)		
CONDITION	NORMAL 2	ABNORMAL 3	ACCIDENT 1	NORMAL 1	ABNORMAL 3	ACCIDENT 1	NORMAL 1	ABNORMAL 3	ACCIDENT 1	NORMAL 1	ABNORMAL 3	ACCIDENT 1
TEMPERATURE °F MAXIMUM	104	97	140	104	89	89	104	114	114	104	114	114
TEMPERATURE °F MINIMUM	50	—	— (20)	0 (5)	—	—	0 (5)	—	—	0 (5)	—	—
PRESSURE (PSIG) MAXIMUM	0	—	ACCIDENT 4: 1.0	0	—	0	0	—	SLIGHT NEG	0	—	SLIGHT NEG
PRESSURE (PSIG) NORMAL	0	—	—	0	—	—	0	—	—	0	—	—
PRESSURE (PSIG) MINIMUM	0	—	—	(-) 3	—	—	(-) 3	—	—	(-) 3	—	—
HUMIDITY (%) MAXIMUM (12)	60	—	ACCIDENT 4: 100	60	—	97	60	—	45	60	—	45
HUMIDITY (%) MINIMUM (12)	3	—	—	30	—	—	30	—	—	30	—	—
RADIATION (RADS) TOTAL INTEGRATED DOSE -(4)	1×10^3		4.7×10^3 (18)	1×10^3		—	1×10^3		—	1×10^3		—

BUILDING	DIESEL GENERATOR BUILDING														
AREA/ ELEVATION	DAY TANK ROOMS 51'-6"						DIESEL GENERATOR ROOMS 21'-6"						TANK ROOMS (-) 16'-0"		
ENVIRONMENTAL ZONE	DB-3A (15)			DB-3B (15)			DB-4A (15)			DB-4B (15)			DB-5A (15)		
CONDITION	NORMAL 1	ABNORMAL 3	ACCIDENT 1	NORMAL 1	ABNORMAL 3	ACCIDENT 1	NORMAL 1	ABNORMAL 3	ACCIDENT 1	NORMAL 1	ABNORMAL 3	ACCIDENT 1	NORMAL 1	ABNORMAL 3	ACCIDENT 1
TEMPERATURE °F MAXIMUM	104	108	108	104	108	108	104 (19)	120	120	104 (19)	120	120	104	114	114
TEMPERATURE °F MINIMUM	50	—	—	50	—	—	50	—	—	50	—	—	43	—	—
PRESSURE (PSIG) MAXIMUM	0	—	0	0	—	0	SLIGHT POS	—	0	SLIGHT POS	—	0	0	—	0
PRESSURE (PSIG) NORMAL	SLIGHT NEG	—	—	SLIGHT NEG	—	—	0	—	—	0	—	—	0	—	—
PRESSURE (PSIG) MINIMUM	(-) 3	—	—	(-) 3	—	—	(-) 3	—	—	(-) 3	—	—	(-) 3	—	—
HUMIDITY (%) MAXIMUM (12)	60	—	55	60	—	55	60	—	38	60	—	38	60	—	45
HUMIDITY (%) MINIMUM (12)	3	—	—	3	—	—	3	—	—	3	—	—	5	—	—
RADIATION (RADS) TOTAL INTEGRATED DOSE -(4)	1×10^3		—	1×10^3		—	1×10^3		—	1×10^3		—	1×10^3		—

BUILDING	DIESEL GENERATOR BUILDING														
AREA/ ELEVATION	TANK ROOMS (-) 16'-0"			STAIRWELLS (-) 16'-0"						EXHAUST AREA FANS 51'-6"					
ENVIRONMENTAL ZONE	DB-5B (15)			DB-6A (15)			DB-6B (15)			DB-7A (15)			DB-7B (15)		
CONDITION	NORMAL 1	ABNORMAL 3	ACCIDENT 1	NORMAL 1	ABNORMAL 3	ACCIDENT 1	NORMAL 1	ABNORMAL 3	ACCIDENT 1	NORMAL 1	ABNORMAL 3	ACCIDENT 1	NORMAL 1	ABNORMAL 3	ACCIDENT 1
TEMPERATURE °F MAXIMUM	104	113	113	104	107	107	104	104	104	104	121	121	104	121	121
TEMPERATURE °F MINIMUM	43		—	50	—	—	50	—	—	0 (5)	—	—	0 (5)		—
PRESSURE (PSIG) MAXIMUM	0	—	0	0	—	0	0	—	0	0	—	0	0	—	0
PRESSURE (PSIG) NORMAL	0	—	—	0	—	—	0	—	—	0	—	—	0	—	—
PRESSURE (PSIG) MINIMUM	(-) 3	—	—	(-) 3	—	—	(-) 3	—	—	(-) 3	—	—	(-) 3	—	—
HUMIDITY (%) MAXIMUM (12)	60	—	45	60	—	55	60	—	60	60	—	38	60	—	38
HUMIDITY (%) MINIMUM (12)	5	—	—	3	—	—	3	—	—	30	—	—	30	—	—
RADIATION (RADS) TOTAL INTEGRATED DOSE -(4)	1×10^3		—	1×10^3		—	1×10^3		—	1×10^3		—	1×10^3		—

BUILDING	COOLING TOWER														
AREA/ ELEVATION	ELECTRICAL SWITCHGEAR ROOMS 22'-0"						MECHANICAL EQUIPMENT ROOM 46'-0"			PUMP ROOM 46'-0"			FAN/FILL AREA 50'-0"		
ENVIRONMENTAL ZONE	CT-1A (15)			CT-1B (15)			CT-3 (15)			CT-2			CT-4		
CONDITION	NORMAL 1	ABNORMAL 2	ACCIDENT 6	NORMAL 1	ABNORMAL 2	ACCIDENT 6	NORMAL 1	ABNORMAL 2	ACCIDENT 6	NORMAL 1	ABNORMAL 2	ACCIDENT 6	NORMAL 1	ABNORMAL 2	ACCIDENT 6
TEMPERATURE °F MAXIMUM	104	104	104	104	104	104	104	90	90	104	127	127	104	88	88
TEMPERATURE °F MINIMUM	50	—	—	50	—	—	0 (5)	—	—	0 (5)	—	—	0	—	—
PRESSURE (PSIG) MAXIMUM	SLIGHT POS	—	SLIGHT POS	SLIGHT POS	—	SLIGHT POS	0	—	0	0	—	0	0	—	0
PRESSURE (PSIG) NORMAL	SLIGHT POS	—	—	SLIGHT POS	—	—	SLIGHT NEG	—	—	SLIGHT NEG	—	—	0	—	—
PRESSURE (PSIG) MINIMUM	0	—	—	0	—	—	SLIGHT NEG	—	—	SLIGHT NEG	—	—	0	—	—
HUMIDITY (%) MAXIMUM (12)	60	—	93	60	—	93	60	—	35	60	—	35	60	—	100
HUMIDITY (%) MINIMUM (12)	2	—	—	2	—	—	30	—	—	30	—	—	30	—	—
RADIATION (RADS) TOTAL INTEGRATED DOSE -(4)	1×10^3		—	1×10^3		—	1×10^3		—	1×10^3		—	1×10^3		—
SPRAY	NONE									SEASHORE LEVELS OF SALT WATER IN AIR			SEASHORE LEVELS OF SALT WATER IN AIR		

BUILDING	SERVICE WATER PUMP HOUSE											
AREA/ ELEVATION	PUMP ROOM 21'-0"			ELECTRICAL CONTROL ROOMS 21'-0"						FAN ROOM 21'-0"		
ENVIRONMENTAL ZONE	SW-1 (15)			SW-2 (15)			SW-3 (15)			SW-4 (15)		
CONDITION	NORMAL 1	ABNORMAL 2	ACCIDENT 5	NORMAL 1	ABNORMAL 2	ACCIDENT 3	NORMAL 1	ABNORMAL 2	ACCIDENT 3	NORMAL 1	ABNORMAL 2	ACCIDENT 3
TEMPERATURE °F MAXIMUM	104	104	90	104	104	90	104	104	90	104	104	90
TEMPERATURE °F MINIMUM	50	—	—	50	—	—	50	—	—	0	—	—
PRESSURE (PSIG) MAXIMUM	0	—	SLIGHT POS	SLIGHT POS	—	SLIGHT POS	SLIGHT POS	—	SLIGHT POS	SLIGHT POS	—	SLIGHT POS
PRESSURE (PSIG) NORMAL	SLIGHT NEG	—	—	SLIGHT POS	—	—	SLIGHT POS	—	—	SLIGHT POS	—	—
PRESSURE (PSIG) MINIMUM	SLIGHT NEG	—	—	0	—	—	0	—	—	0	—	—
HUMIDITY (%) MAXIMUM (12)	60	—	100	60	—	90	60	—	90	60	—	90
HUMIDITY (%) MINIMUM (12)	3	—	—	3	—	—	3	—	—	30	—	—
RADIATION (RADS) TOTAL INTEGRATED DOSE -(4)	1×10^3		—	1×10^3		—	1×10^3		—	1×10^3		—
SPRAY	SEASHORE LEVELS OF SALT WATER IN AIR											

NOTE:
FOR NOTES AND GENERAL NOTES SEE THIS DRAWING SHEET 1 OF 5

NUCLEAR SAFETY RELATED

REV	DATE	DSGN	DRWN	CHKD	CE	LDE	DESCRIPTION
22	4-29-05	—	SJT	DMQ	RRB	PJT	INCORP DCR 03-012 DCN 00,DCN 05
21	12-12-90	—	FCB	PMB	APL	EJK	INCORP DCR 89-48 CA08
20	10/30/89	—	RMC	CCM	APL	PJT	SUPERCEDES UE&C DWG 9763-F-300219 INCORP DCR, 86-724, CA 0

New Hampshire Yankee

SEABROOK STATION

SERVICE ENVIRONMENT CHART

1-NHY 300219 SHEET 2 OF 5

BUILDING	PRIMARY AUXILIARY BUILDING														
AREA/ ELEVATION	HVAC EQUIPMENT ROOM 81'-0"			VALVE AISLE 53'-0"			SUPPLY FAN AREA 53'-0"			CHEMICAL VOLUME CONTROL TANK 53'-0"			EXHAUST FAN AREA 53'-0"		
ENVIRONMENTAL ZONE	PB-1			PB-2			PB-3			PB-4			PB-5		
CONDITION	NORMAL 1	ABNORMAL 3	ACCIDENT 1	NORMAL 1	ABNORMAL 3	ACCIDENT 3	NORMAL 1	ABNORMAL 3	ACCIDENT 3	NORMAL 1	ABNORMAL 3	ACCIDENT 3	NORMAL 1	ABNORMAL 3	ACCIDENT 3
TEMPERATURE °F MAXIMUM	104	106	106	104	113	158	104	113	158	104	119	158	104	116	165
MINIMUM	50	—	—	50	—	—	50	—	—	50	—	—	50	—	—
PRESSURE (PSIG) MAXIMUM	0	—	0	0	—	0.5	0	—	0.5	0	—	0.5	0	—	0.5
NORMAL	SLIGHT NEG	—	—	SLIGHT NEG	—	—	(-) 1.2" WG	—	—	SLIGHT NEG	—	—	(-) 1.1" WG	—	—
MINIMUM	(-) 3	—	—	SLIGHT NEG	—	—	(-) 1.2" WG	—	—	SLIGHT NEG	—	—	(-) 1.1" WG	—	—
HUMIDITY (%) MAXIMUM (12)	60	—	56	60	—	100	60	—	100	60	—	100	60	—	100
MINIMUM	3	—	—	3	—	—	3	—	—	3	—	—	3	—	—
RADIATION (RADS) TOTAL INTEGRATED DOSE - (4)	1×10^{3}		1.3×10^{5} (18)	3.4×10^{7}		2.5×10^{7} (18)	1×10^{3}		2.2×10^{2} (18)	3.4×10^{8}		5.4×10^{7} (18)	1×10^{3}		2.2×10^{2} (18)

BUILDING	PRIMARY AUXILIARY BUILDING														
AREA/ ELEVATION	PAB HEAT EQUIPMENT AREA 53'-0"			BORIC ACID STORAGE AREA 53'-0"			COMPONENT COOLING HX 53'-0"			BORIC ACID TANK ROOM 25'-0"			SAMPLE HX ROOM 25'-0"		
ENVIRONMENTAL ZONE	PB-6			PB-7			PB-8			PB-9			PB-10		
CONDITION	NORMAL 1	ABNORMAL 3	ACCIDENT 3	NORMAL 1	ABNORMAL 3	ACCIDENT 3	NORMAL 2	ABNORMAL 3	ACCIDENT 3	NORMAL 1	ABNORMAL 3	ACCIDENT 1	NORMAL 1	ABNORMAL 3	ACCIDENT 1
TEMPERATURE °F MAXIMUM	104	107	158	104	107	158	104	125	165	104	124	132	104	164	176
MINIMUM	50	—	—	45	—	—	50	—	—	65	—	—	60	—	—
PRESSURE (PSIG) MAXIMUM	0	—	0.5	SLIGHT POS	—	0.5	0	—	0.5	SLIGHT POS	—	ACCIDENT 3 0.4	0	—	ACCIDENT 3 0.4
NORMAL	SLIGHT NEG	—	—	SLIGHT POS	—	—	SLIGHT NEG	—	—	SLIGHT POS	—	—	SLIGHT NEG	—	—
MINIMUM	SLIGHT NEG	—	—	0	—	—	SLIGHT NEG	—	—	0	—	—	SLIGHT NEG	—	—
HUMIDITY (%) MAXIMUM (12)	60	—	100	60	—	100	60	—	100	60	—	ACCIDENT 3 100	60	—	ACCIDENT 3 100
MINIMUM	3	—	—	2	—	—	3	—	—	2	—	—	2	—	—
RADIATION (RADS) TOTAL INTEGRATED DOSE - (4)	1×10^{3}		—	1×10^{3}		—	1×10^{3}		—	1×10^{3}		7.0×10^{2} (18)	3.4×10^{7}		2.5×10^{7} (18)

BUILDING	PRIMARY AUXILIARY BUILDING														
AREA/ ELEVATION	PCCW PUMP AREA 25'-0"			LETDOWN DEGAS AREA 25'-0"			RAACT PIPE TR AREA "A" 7'-0"			REACTOR MAKE-UP WATER PUMP 7'-0"			CHARGING PUMP CONTROL ACCESS CORR 7'-0"		
ENVIRONMENTAL ZONE	PB-11 (15)			PB-12			PB-13			PB-14			PB-14A		
CONDITION	NORMAL 2	ABNORMAL 3	ACCIDENT 1	NORMAL 2	ABNORMAL 3	ACCIDENT 1	NORMAL 1	ABNORMAL 3	ACCIDENT 3	NORMAL 1	ABNORMAL 3	ACCIDENT 1	NORMAL 1	ABNORMAL 3	ACCIDENT 3
TEMPERATURE °F MAXIMUM	104	118	130	104	124	140	104	118	163	104	129	163	104	116	163
MINIMUM	60	—	—	60	—	—	50	—	—	50	—	—	50	—	—
PRESSURE (PSIG) MAXIMUM	0	—	ACCIDENT 3 0.4	SLIGHT POS	—	ACCIDENT 3 0.4	SLIGHT POS	—	0.4	SLIGHT POS	—	ACCIDENT 3 0.4	0	—	0.4
NORMAL	SLIGHT NEG	—	—	SLIGHT POS	—	—	SLIGHT POS	—	—	SLIGHT POS	—	—	0	—	—
MINIMUM	SLIGHT NEG	—	—	0	—	—	0	—	—	0	—	—	0	—	—
HUMIDITY (%) MAXIMUM (12)	60	—	ACCIDENT 3 100	60	—	ACCIDENT 3 100	60	—	100	60	—	ACCIDENT 3 100	60	—	100
MINIMUM	2	—	—	2	—	—	3	—	—	3	—	—	3	—	—
RADIATION (RADS) TOTAL INTEGRATED DOSE - (4)	4.7×10^{6}		2.3×10^{5} (18)	1×10^{3}		7.0×10^{2} (18)	3.4×10^{7}		2.5×10^{7} (18)	3.5×10^{4}		—	3.5×10^{4}		8.5×10^{5} (18)

BUILDING	PRIMARY AUXILIARY BUILDING														
AREA/ ELEVATION	LETDOWN DEGAS ROOM 7'-0"			SEAL SUPPLY TANK 25'-0"			LETDOWN DEGAS RECIRC PUMPS 7'-0"			CHILLER PUMP AREA 7'-0"			VALVE MAINTENANCE PLATFORM 7'-0"		
ENVIRONMENTAL ZONE	PB-15A			PB-15B			PB-15C			PB-16			PB-17		
CONDITION	NORMAL 1	ABNORMAL 3	ACCIDENT 3	NORMAL 1	ABNORMAL 3	ACCIDENT 3	NORMAL 1	ABNORMAL 3	ACCIDENT 3	NORMAL 2	ABNORMAL 3	ACCIDENT 1	NORMAL 1	ABNORMAL 3	ACCIDENT 1
TEMPERATURE °F MAXIMUM	104	121	300	104	127	300	104	119	300	104	129	160	104	144	198
MINIMUM	50	—	—	50	—	—	50	—	—	50	—	—	50	—	—
PRESSURE (PSIG) MAXIMUM	0	—	0.4	0	—	0.4	0	—	0.4	SLIGHT POS	—	ACCIDENT 3 0.4	0	—	ACCIDENT 3 0.4
NORMAL	SLIGHT NEG	—	—	SLIGHT NEG	—	—	SLIGHT NEG	—	—	SLIGHT POS	—	—	SLIGHT NEG	—	—
MINIMUM	SLIGHT NEG	—	—	SLIGHT NEG	—	—	SLIGHT NEG	—	—	0	—	—	SLIGHT NEG	—	—
HUMIDITY (%) MAXIMUM (12)	60	—	100	60	—	100	60	—	100	60	—	ACCIDENT 3 100	60	—	ACCIDENT 3 100
MINIMUM	3	—	—	3	—	—	3	—	—	3	—	—	3	—	—
RADIATION (RADS) TOTAL INTEGRATED DOSE - (4)	3.4×10^{8}		—	1×10^{3}		7.0×10^{2} (18)	3.4×10^{7}		—	1.43×10^{6}		2.9×10^{5} (18)	3.4×10^{7}		2.9×10^{7} (18)

BUILDING	PRIMARY AUXILIARY BUILDING														
AREA/ ELEVATION	HX/FILTER CUBICLES 7'-0"			REGEN DEMIN CUBICLES 7'-0"			CHARGING PUMP ROOMS 7'-0"			DEGAS COND RECEIVER (-) 6'-0"			RAACT PIPE AREA & AREA "A" (-) 6'-0"		
ENVIRONMENTAL ZONE	PB-18			PB-19			PB-20 (A,B,C)			PB-21			PB-22		
CONDITION	NORMAL 2	ABNORMAL 3	ACCIDENT 3	NORMAL 1	ABNORMAL 3	ACCIDENT 1	NORMAL 1	ABNORMAL 3	ACCIDENT 1	NORMAL 1	ABNORMAL 3	ACCIDENT 1	NORMAL 1	ABNORMAL 3	ACCIDENT 3
TEMPERATURE °F MAXIMUM	104	124	185	125	148	193	104	106	144	104	150	225	104	151	220
MINIMUM	50	—	—	50	—	—	50		— (20)	50	—	—	50	—	—
PRESSURE (PSIG) MAXIMUM	0	—	0.4	0	—	ACCIDENT 3 0.4	0	—	ACCIDENT 4 1.0	SLIGHT POS	—	ACCIDENT 3 0.4	0	—	0.4
NORMAL	SLIGHT NEG	—	—	0	—	—	0	—	—	SLIGHT POS	—	—	SLIGHT NEG	—	—
MINIMUM	SLIGHT NEG	—	—	0	—	—	0	—	—	0	—	—	SLIGHT NEG	—	—
HUMIDITY (%) MAXIMUM (12)	60	—	100	34	—	ACCIDENT 3 100	60	—	ACCIDENT 4 100	60	—	ACCIDENT 3 100	60	—	100
MINIMUM	3	—	—	3	—	—	3	—	—	3	—	—	3	—	—
RADIATION (RADS) TOTAL INTEGRATED DOSE - (4)	3.4×10^{8}		—	3.4×10^{8} (10B)		—	4.7×10^{6}		3.5×10^{7} (18)	3.4×10^{7}		4.1×10^{7} (18)	3.4×10^{7}		2.6×10^{7} (18)

BUILDING	PRIMARY AUXILIARY BUILDING														
AREA/ ELEVATION	REACTOR PIPE TUNNEL (-) 26'-0"			COND RECIEVER PUMP ROOM (-) 26'-0"			ELECTRICAL PIPE CHASE (-) 26'-0"			STAIRWELL NO 2 (-) 26'-0"			STAIRWELL NO 1 7'-0"		
ENVIRONMENTAL ZONE	PB-23			PB-24			PB-25			PB-26			PB-27		
CONDITION	NORMAL 2	ABNORMAL 3	ACCIDENT 3	NORMAL 1	ABNORMAL 3	ACCIDENT 3	NORMAL 1	ABNORMAL 3	ACCIDENT 3	NORMAL 1	ABNORMAL 3	ACCIDENT 3	NORMAL 1	ABNORMAL 3	ACCIDENT 3
TEMPERATURE °F MAXIMUM	104	152	220	104	126	220	104	134	220	104	119	220	104	107	163
MINIMUM	50	—	—	50	—	—	50	—	—	50	—	—	50	—	—
PRESSURE (PSIG) MAXIMUM	SLIGHT POS	—	0.4	SLIGHT POS	—	0.4	0	—	0.4	0	—	0.4	0	—	0.4
NORMAL	SLIGHT POS	—	—	SLIGHT POS	—	—	0	—	—	0	—	—	0	—	—
MINIMUM	0	—	—	0	—	—	0	—	—	0	—	—	0	—	—
HUMIDITY (%) MAXIMUM (12)	60	—	100	60	—	100	60	—	100	60	—	100	60	—	100
MINIMUM	3	—	—	3	—	—	3	—	—	3	—	—	3	—	—
RADIATION (RADS) TOTAL INTEGRATED DOSE - (4)	3.4×10^{7}		2.6×10^{7} (18)	3.4×10^{7}		3.1×10^{7} (18)	1×10^{3}		3.7×10^{8} (18)	3.4×10^{7}		2.6×10^{7} (18)	1×10^{3}		—

BUILDING	PRIMARY AUXILIARY BUILDING												FUEL STORAGE BUILDING		
AREA/ ELEVATION	RAD MON AND WPB ACCESS AREA 25'-0"/53'-0"			HVAC PLENUM 39'-0"			RADIOACTIVE PIPE CHASE 23'-0"			SAMPLE HX ROOM 2'-0"			SPENT FUEL PUMP AREA 7'-0"		
ENVIRONMENTAL ZONE	PB-28			PB-29			PB-17A			PB-19A			FSB-1 (2)		
CONDITION	NORMAL 1	ABNORMAL 3	ACCIDENT 3	NORMAL 1	ABNORMAL 3	ACCIDENT 1	NORMAL 2	ABNORMAL 3	ACCIDENT 3	NORMAL 1	ABNORMAL 3	ACCIDENT 1	NORMAL 1	ABNORMAL 3	ACCIDENT 1
TEMPERATURE °F MAXIMUM	104	116	175	104	117	122	104	134	180	104	197	187	104	137	186
MINIMUM	50	—	—	0	—	—	50	—	—	50	—	—	60	—	—
PRESSURE (PSIG) MAXIMUM	0	—	0.05	0	—	0	0	—	0.4	0	—	ACCIDENT 3 0.4	0	—	ACCIDENT 5 SLIGHT POS
NORMAL	SLIGHT NEG	—	—	SLIGHT NEG	—	—	SLIGHT NEG	—	—	SLIGHT NEG	—	—	SLIGHT NEG	—	—
MINIMUM	SLIGHT NEG	—	—	SLIGHT NEG	—	—	SLIGHT NEG	—	—	SLIGHT NEG	—	—	(-) 3	—	—
HUMIDITY (%) MAXIMUM (12)	60	—	100	60	—	37	60	—	100	45	—	ACCIDENT 3 100	60	—	ACCIDENT 5 100
MINIMUM	3	—	—	30	—	—	2	—	—	3	—	—	2	—	—
RADIATION (RADS) TOTAL INTEGRATED DOSE - (4)	1×10^{3}		—	1×10^{3}		—	2×10^{7}		2.9×10^{7} (18)	2×10^{7}		2.5×10^{7} (18)	1×10^{3}		—

BUILDING	FUEL STORAGE BUILDING												CONTAINMENT ENCLOSURE		
AREA/ ELEVATION	FUEL POOL AREA 7'-0"			SPENT FUEL STORAGE 25'-0"			SPENT FUEL HX 21'-6"			FILTER ROOM 64'-0"			FAN AREA 21'-0"		
ENVIRONMENTAL ZONE	FSB-2 (2)			FSB-3 (2)			FSB-4 (2)			FSB-5 (2)			CE-1 (15) (2)		
CONDITION	NORMAL 1	ABNORMAL 3	ACCIDENT 1	NORMAL 1	ABNORMAL 3	ACCIDENT 1	NORMAL 1	ABNORMAL 3	ACCIDENT 1	NORMAL 1	ABNORMAL 3	ACCIDENT 1	NORMAL 2	ABNORMAL 3	ACCIDENT 1
TEMPERATURE °F MAXIMUM	104	104	138	104	104	138	104	104	138	104	104	138	104	98	150
MINIMUM	60	—	—	60	—	—	60	—	—	60	—	—	50	—	— (20)
PRESSURE (PSIG) MAXIMUM	0	—	ACCIDENT 5 SLIGHT POS	0	—	ACCIDENT 5 SLIGHT POS	0	—	ACCIDENT 5 SLIGHT POS	0	—	ACCIDENT 5 SLIGHT POS	0	—	ACCIDENT 4 1.0
NORMAL	SLIGHT NEG	—	—	SLIGHT NEG	—	—	SLIGHT NEG	—	—	SLIGHT NEG	—	—	SLIGHT NEG	—	—
MINIMUM	(-) 3	—	—	(-) 3	—	—	(-) 3	—	—	(-) 3	—	—	SLIGHT NEG	—	—
HUMIDITY (%) MAXIMUM (12)	60	—	ACCIDENT 5 100	60	—	ACCIDENT 5 100	60	—	ACCIDENT 5 100	60	—	ACCIDENT 5 100	60	—	ACCIDENT 3 100
MINIMUM	2	—	—	2	—	—	2	—	—	2	—	—	3	—	—
RADIATION (RADS) TOTAL INTEGRATED DOSE - (4)	1×10^{3}		—	1×10^{3}		—	1×10^{3}		—	1×10^{3}		(18)	* 1×10^{3}		ACCIDENT 1 4.3×10^{6}

NOTE: FOR NOTES AND GENERAL NOTES SEE THIS DRAWING SHEET 1 OF 5

* PER CALCULATION C-S-1-28006 REV 0

NUCLEAR SAFETY RELATED

REV	DATE	DSGN	DRWN	CHKD	CE	LDE	DESCRIPTION
21	4-29-05	—	SJT	DMG	RRB	PJT	INCORP DCR 03-012 DCN 00 & DCN 03
20	10/30/89	—	RMC	CCM	APL	PJT	SUPERCEDES UE&C DWG 9763-F-300219 INCORP DCR(S) 86-675, CA 0, 86-724, CA 0

New Hampshire Yankee

SEABROOK STATION

SERVICE ENVIRONMENT CHART

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BUILDING	EQUIPMENT VAULTS (2)														
AREA/ ELEVATION	CBS VAULTS (-)61'-0"			CBS VAULTS (-)61'-0"			CBS VAULTS (-)31'-10"			CBS VAULTS (-)31'-10"			RHR VAULTS (-)61'-0"		
ENVIRONMENTAL ZONE	EV-1A (15)			EV-1B (15)			EV-2A (15)			EV-2B (15)			EV-3A (15)		
CONDITION	NORMAL 2	ABNORMAL 3	ACCIDENT 4	NORMAL 2	ABNORMAL 3	ACCIDENT 4	NORMAL 2	ABNORMAL 3	ACCIDENT 4	NORMAL 2	ABNORMAL 3	ACCIDENT 4	NORMAL 2	ABNORMAL 3	ACCIDENT 4
TEMPERATURE (°F) MAXIMUM	104	92	109	104	92	109	104	93	109	104	93	109	104	92	109
MINIMUM	50	—	—	50	—	—	50	—	—	50	—	—	50	—	—
PRESSURE (PSIG) MAXIMUM	SLIGHT POS	—	1.01	SLIGHT POS	—	1.01	0	—	1.01	0	—	1.01	0	—	1.00
NORMAL	SLIGHT POS	—	—	SLIGHT POS	—	—	SLIGHT NEG	—	—	SLIGHT NEG	—	—	SLIGHT NEG	—	—
MINIMUM	0	—	—	0	—	—	SLIGHT NEG	—	—	SLIGHT NEG	—	—	SLIGHT NEG	—	—
HUMIDITY (%) MAXIMUM (12)	60	—	100	60	—	100	60	—	100	60	—	100	60	—	100
MINIMUM	3	—	—	3	—	—	3	—	—	3	—	—	3	—	—
RADIATION (RADS) TOTAL INTEGRATED DOSE - (4)	4.7 x 10^{6}		ACCIDENT 1: 1.2 x 10^{7}	4.7 x 10^{6}		ACCIDENT 1: 1.2 x 10^{7}	4.7 x 10^{6}		ACCIDENT 1: 7.0 x 10^{6}	4.7 x 10^{6}		ACCIDENT 1: 7.0 x 10^{6}	4.7 x 10^{6}		5.6 x 10^{7} (18)

BUILDING	EQUIPMENT VAULTS (2)														
AREA/ ELEVATION	RHR VAULTS (-)61'-0"			RHR VAULTS (-)50'-0"			RHR VAULTS (-)50'-0"			RHR VAULTS (-)31'-10"			RHR VAULTS (-)31'-10"		
ENVIRONMENTAL ZONE	EV-3B (15)			EV-4A (15)			EV-4B (15)			EV-5A (15)			EV-5B (15)		
CONDITION	NORMAL 2	ABNORMAL 3	ACCIDENT 4	NORMAL 2	ABNORMAL 3	ACCIDENT 4	NORMAL 2	ABNORMAL 3	ACCIDENT 4	NORMAL 2	ABNORMAL 3	ACCIDENT 4	NORMAL 2	ABNORMAL 3	ACCIDENT 4
TEMPERATURE (°F) MAXIMUM	104	92	109	104	93	109	104	92	109	104	93	109	104	93	109
MINIMUM	50	—	—	50	—	—	50	—	—	50	—	—	50	—	—
PRESSURE (PSIG) MAXIMUM	0	—	1.00	0	—	1.00	0	—	1.00	0	—	1.00	0	—	1.00
NORMAL	SLIGHT NEG	—	—	SLIGHT NEG	—	—	SLIGHT NEG	—	—	SLIGHT NEG	—	—	SLIGHT NEG	—	—
MINIMUM	SLIGHT NEG	—	—	SLIGHT NEG	—	—	SLIGHT NEG	—	—	SLIGHT NEG	—	—	SLIGHT NEG	—	—
HUMIDITY (%) MAXIMUM (12)	60	—	100	60	—	100	60	—	100	60	—	100	60	—	100
MINIMUM	3	—	—	3	—	—	3	—	—	3	—	—	3	—	—
RADIATION (RADS) TOTAL INTEGRATED DOSE - (4)	4.7 x 10^{6}		5.6 x 10^{7} (18)	4.7 x 10^{6}		3.0 x 10^{7} (18)	4.7 x 10^{6}		3.6 x 10^{7} (18)	4.7 x 10^{6}		7.2 x 10^{7} (18)	4.7 x 10^{6}		7.2 x 10^{7} (18)

BUILDING	EQUIPMENT VAULTS (2)						ELECTRICAL TUNNELS								
AREA/ ELEVATION	STAIRWELLS (-)61'-0"						CONTROL BUILDING TO PAB 30'-6"			TRAIN A 0'-0"			TRAIN B (-)20'-0"		
ENVIRONMENTAL ZONE	EV-6A			EV-6B			ET-1			ET-2A			ET-2B		
CONDITION	NORMAL 2	ABNORMAL 3	ACCIDENT 1	NORMAL 2	ABNORMAL 3	ACCIDENT 4	NORMAL 1	ABNORMAL 3	ACCIDENT 1	NORMAL 1	ABNORMAL 3	ACCIDENT 1	NORMAL 1	ABNORMAL 3	ACCIDENT 1
TEMPERATURE (°F) MAXIMUM	104	114	197	104	117	109	104	125	143	104	105	105	104	112	121
MINIMUM	50	—	—	50	—	—	10	—	—	50	—	—	50	—	—
PRESSURE (PSIG) MAXIMUM	0	—	ACCIDENT 4: 1.00	0	—	1.00	0	—	0	0	—	SLIGHT POS	0	—	SLIGHT POS
NORMAL	0	—	—	0	—	—	0	—	—	0	—	—	0	—	—
MINIMUM	0	—	—	0	—	—	0	—	—	0	—	—	0	—	—
HUMIDITY (%) MAXIMUM (12)	60	—	ACCIDENT 4: 100	60	—	100	60	—	20	60	—	50	60	—	35
MINIMUM	3	—	—	3	—	—	5	—	—	3	—	—	3	—	—
RADIATION (RADS) TOTAL INTEGRATED DOSE - (4)	4.7 x 10^{6}		7.2 x 10^{7} (18)	4.7 x 10^{6}		7.2 x 10^{7} (18)	1 x 10^{3}		—	1 x 10^{3}		—	1 x 10^{3}		—

BUILDING	ELECTRICAL TUNNELS									ELECTRICAL PENETRATION AREA					
AREA/ ELEVATION	TRAIN A AIRLOCK 0'-0"			TRAIN B AIRLOCK (-)20'-0"			DUCT BANK PENETRATION (-)26'-0"			TRAIN A 0'-0"			TRAIN B (-)26'-0"		
ENVIRONMENTAL ZONE	ET-4A			ET-4B			ET-5B			ET-3A			ET-3B		
CONDITION	NORMAL 1	ABNORMAL 3	ACCIDENT 1	NORMAL 1	ABNORMAL 3	ACCIDENT 1	NORMAL 1	ABNORMAL 3	ACCIDENT 1	NORMAL 1	ABNORMAL 3	ACCIDENT 9	NORMAL 1	ABNORMAL 3	ACCIDENT 9
TEMPERATURE (°F) MAXIMUM	100	111	112	85	111	115	104	104	105	100	113	113	85	111	111
MINIMUM	50	—	—	50	—	—	50	—	—	50	—	—	50	—	—
PRESSURE (PSIG) MAXIMUM	SLIGHT POS	—	SLIGHT POS	SLIGHT POS	—	SLIGHT POS	0	—	—	0	—	—	0	—	—
NORMAL	0	—	—	0	—	—	SLIGHT NEG	—	—	SLIGHT NEG	—	—	SLIGHT NEG	—	—
MINIMUM	0	—	—	0	—	—	SLIGHT NEG	—	(-) 0.25" WG	SLIGHT NEG	—	(-) 0.25" WG	SLIGHT NEG	—	(-) 0.25" WG
HUMIDITY (%) MAXIMUM (12)	60	—	40	60	—	45	60	—	50	35	—	40	24	—	50
MINIMUM	3	—	—	3	—	—	3	—	—	3	—	—	3	—	—
RADIATION (RADS) TOTAL INTEGRATED DOSE - (4)	1 x 10^{3}		—	1 x 10^{3}		—	1 x 10^{3}		—	1 x 10^{3}		ACCIDENT 1: 8.5 x 10^{3}	1 x 10^{3}		ACCIDENT 1: 4.1 x 10^{4}

BUILDING	CONTROL BUILDING														
AREA/ ELEVATION	MAIN CONTROL ROOM 75'-0"			GENERAL AREAS 75'-0"			COMPUTER ROOM 75'-0"			HVAC ROOM 75'-0"			CABLE SPREADING ROOM 50'-0"		
ENVIRONMENTAL ZONE	CB-1 (15) (23)			CB-1A,1B,1C,1D,1E,1F,1G (15) (23)			CB-2			CB-3 (15)			CB-4		
CONDITION	NORMAL 1	ABNORMAL 3	ACCIDENT 1	NORMAL 1	ABNORMAL 3	ACCIDENT 1	NORMAL 1	ABNORMAL	ACCIDENT	NORMAL 1	ABNORMAL 3	ACCIDENT 1	NORMAL 1	ABNORMAL 3	ACCIDENT 1
TEMPERATURE (°F) MAXIMUM	75	75	75	75	75	75	72	—	—	84	84	84	104	95	95
MINIMUM	70	—	—	70	—	—	65	—	—	72	—	—	55	—	—
PRESSURE (PSIG) MAXIMUM	SLIGHT POS	—	SLIGHT POS	SLIGHT POS	—	SLIGHT POS	SLIGHT POS	—	—	SLIGHT POS	—	SLIGHT POS	0	—	0
NORMAL	SLIGHT POS	—	—	SLIGHT POS	—	—	SLIGHT POS	—	—	SLIGHT POS	—	—	0	—	—
MINIMUM	SLIGHT POS	—	—	SLIGHT POS	—	—	SLIGHT POS	—	—	SLIGHT POS	—	—	0	—	—
HUMIDITY (%) MAXIMUM (12)	60	—	60	60	—	60	60	—	—	30	—	30	60	—	60
MINIMUM	30	—	—	30	—	—	30	—	—	30	—	—	3	—	—
RADIATION (RADS) TOTAL INTEGRATED DOSE - (4)	1 x 10^{3}		—	1 x 10^{3}		—	1 x 10^{3}		—	1 x 10^{3}		—	1 x 10^{3}		—

BUILDING	CONTROL BUILDING														
AREA/ ELEVATION	MECHANICAL EQUIPMENT ROOM 50'-0"						TRAIN A SWITCHGEAR ROOM 21'-6"			TRAIN B SWITCHGEAR ROOM 21'-6"					
ENVIRONMENTAL ZONE	CB-5A (15)			CB-5B (15)			CB-6A (15)			CB-6B (15)					
CONDITION	NORMAL 1	ABNORMAL 3	ACCIDENT 1	NORMAL 1	ABNORMAL 3	ACCIDENT 1	NORMAL 1	ABNORMAL 3	ACCIDENT 1	NORMAL 1	ABNORMAL 3	ACCIDENT 1			
TEMPERATURE (°F) MAXIMUM	89	89	89	89	89	89	104	104	104	104	104	104			
MINIMUM	55	—	—	55	—	—	55	—	—	55	—	—			
PRESSURE (PSIG) MAXIMUM	SLIGHT NEG	—	SLIGHT NEG	SLIGHT NEG	—	SLIGHT NEG	SLIGHT POS	—	SLIGHT POS	SLIGHT POS	—	SLIGHT POS			
NORMAL	SLIGHT NEG	—	—	SLIGHT NEG	—	—	SLIGHT POS	—	—	SLIGHT POS	—	—			
MINIMUM	SLIGHT NEG	—	—	SLIGHT NEG	—	—	0	—	—	0	—	—			
HUMIDITY (%) MAXIMUM (12)	50	—	50	50	—	50	60	—	60	60	—	60			
MINIMUM	3	—	—	3	—	—	3	—	—	3	—	—			
RADIATION (RADS) TOTAL INTEGRATED DOSE - (4)	1 x 10^{3}		—	1 x 10^{3}		—	1 x 10^{3}		—	1 x 10^{3}		—			

BUILDING	CONTROL BUILDING														
AREA/ ELEVATION	BATTERY ROOMS 21'-6"												MG SETS 21'-6"		
ENVIRONMENTAL ZONE	CB-7A (15)			CB-7B (15)			CB-8A (15)			CB-8B (15)			CB-9,10 (15)		
CONDITION	NORMAL 1	ABNORMAL 3	ACCIDENT 1	NORMAL 1	ABNORMAL 3	ACCIDENT 1	NORMAL 1	ABNORMAL 3	ACCIDENT 1	NORMAL 1	ABNORMAL 3	ACCIDENT 1	NORMAL 1	ABNORMAL 3	ACCIDENT 1
TEMPERATURE (°F) MAXIMUM	97	97	97	97	97	97	97	97	97	97	97	97	104	104	104
MINIMUM	65	—	—	60	—	—	65	—	—	60	—	—	55	—	—
PRESSURE (PSIG) MAXIMUM	SLIGHT NEG	—	SLIGHT NEG	SLIGHT NEG	—	SLIGHT NEG	SLIGHT NEG	—	SLIGHT NEG	SLIGHT NEG	—	SLIGHT NEG	0	—	0
NORMAL	SLIGHT NEG	—	—	SLIGHT NEG	—	—	SLIGHT NEG	—	—	SLIGHT NEG	—	—	0	—	—
MINIMUM	SLIGHT NEG	—	—	SLIGHT NEG	—	—	SLIGHT NEG	—	—	SLIGHT NEG	—	—	0	—	—
HUMIDITY (%) MAXIMUM (12)	50	—	50	50	—	50	50	—	50	50	—	50	60	—	60
MINIMUM	2	—	—	2	—	—	2	—	—	2	—	—	3	—	—
RADIATION (RADS) TOTAL INTEGRATED DOSE - (4)	1 x 10^{3}		—	1 x 10^{3}		—	1 x 10^{3}		—	1 x 10^{3}		—	1 x 10^{3}		—

BUILDING	TANK FARM						AIR INTAKE			EMERGENCY FEEDWATER PUMP BUILDING					
AREA/ ELEVATION	REFUELING WATER STORAGE 20'-0"			REACTOR MAKE-UP STORAGE 20'-0"			CONTROL BUILDING VENT MAKE-UP AIR INTAKE-UNIT 1 11'-6"			PUMP HOUSE 27'-0"			STAIRWELL (-) 26'-0"		
ENVIRONMENTAL ZONE	TF-1			TF-2			MUA-1			EFW-1 (15)			EFW-2		
CONDITION	NORMAL 1	ABNORMAL 3	ACCIDENT 3	NORMAL 1	ABNORMAL 3	ACCIDENT 3	NORMAL 1	ABNORMAL	ACCIDENT	NORMAL 1	ABNORMAL	ACCIDENT 1	NORMAL 1	ABNORMAL	ACCIDENT 1
TEMPERATURE (°F) MAXIMUM	104	109	290	104	109	290	104	—	—	104	—	104	104	—	104
MINIMUM	0 (5)	—	—	0 (5)	—	—	40	—	—	40	—	—	50	—	—
PRESSURE (PSIG) MAXIMUM	0	—	1.1	0	—	1.1	0	—	—	SLIGHT POS	—	ACCIDENT 5: SLIGHT POS	0	—	ACCIDENT 5: SLIGHT POS
NORMAL	SLIGHT NEG	—	—	SLIGHT NEG	—	—	0	—	—	SLIGHT POS	—	—	SLIGHT NEG	—	—
MINIMUM	(-) 3	—	—	(-) 3	—	—	0	—	—	0	—	—	SLIGHT NEG	—	—
HUMIDITY (%) MAXIMUM (12)	60	—	100	60	—	100	60	—	—	60	—	ACCIDENT 5: 100	60	—	ACCIDENT 5: 100
MINIMUM	3	—	—	3	—	—	5	—	—	2	—	—	3	—	—
RADIATION (RADS) TOTAL INTEGRATED DOSE - (4)	3.9 x 10^{4}		—	3.9 x 10^{4}		—	1 x 10^{3}		—	1 x 10^{3}		—	1 x 10^{3}		—

NOTE:
FOR NOTES AND GENERAL NOTES SEE THIS DRAWING SHEET 1 OF 5

NUCLEAR SAFETY RELATED

REV	DATE	DSGN	DRWN	CHKD	CE	LDE	DESCRIPTION
24	4-29-05	—	SJT	DMQ	RRB	PJT	INCORPORATED DCR 03-012 DCN 00
23	10-10-02	—	APL	APL	CMF	PJT	INCORPORATED DCR 98-039 REV. 0
22	10/23/97	—	RMC	APL	APL	CWE	REISSUED DUE TO CADD DRAFTING ERROR
21	9/4/97	—	RMC	APL	APL	CWE	INCORPORATED MMOD 90-654 CA 0
20	10/30/89	—	RMC	CCM	APL	PJT	SUPERCEDES UE&C DWG 9763-F-300219 INCORP DCR(S) 86-709, CA 22, 86-724, CA 0

FPL Energy-Seabrook Station

FPL Energy Seabrook Station

SERVICE ENVIRONMENT CHART

1-NHY 300219 SHEET 4 OF 5

10/07/02

BUILDING	MECHANICAL PENETRATION AREA	AIR INTAKE	COOLING TOWER (UNIT 2)				ELECTRICAL TUNNEL	MAIN STEAM & FEEDWATER PIPE CHASES			
AREA/ ELEVATION	RADIOACTIVE TUNNEL (-) 34'-6"	CONTROL BUILDING VENT MAKE-UP AIR INTAKE-UNIT 2 11'-6"	PUMP ROOM 46'-0"	MECHANICAL EQUIPMENT ROOM 48'-0"	ELECTRICAL SWITCHGEAR ROOMS 22'-0"		ELECTRICAL TRAY AREA 0'-0"	EAST PIPE CHASE STAIRWELL 3'-0"	EAST PIPE CHASE CABLE TUNNEL 8'-2"	EAST PIPE CHASE ELECTRICAL TRAY AREA 3'-0"	EAST PIPE CHASE ELECTRICAL TRAY AREA 3'-0"
ENVIRONMENTAL ZONE	MPA-6 (17)	MUA-2 (17)	CT-5 (17)	CT-6 (17)	CT-7A (17)	CT-7B (17)	ET-5A (17)	PCE-7 (17)	PCE-8 (17)	PCE-9 (17)	PCE-10 (17)
CONDITION	NORMAL 2	NORMAL 1	NORMAL 1	NORMAL 1	NORMAL 1	NORMAL 1	NORMAL 1	NORMAL 1	NORMAL 1	NORMAL 1	NORMAL 1
TEMPERATURE °F											
MAXIMUM	172	104	104	104	104	104	118	130	130	144	130
MINIMUM	50	40	0 (5)	0 (5)	0 (5)	0 (5)	50	0 (5)	0 (5)	0 (5)	0 (5)
PRESSURE (PSIG)											
MAXIMUM	SLIGHT POS	0	0	0	0	0	SLIGHT POS	SLIGHT POS	0	SLIGHT POS	0
NORMAL	SLIGHT POS	0	0	0	0	0	SLIGHT POS	SLIGHT POS	0	SLIGHT POS	0
MINIMUM	0	0	0	0	0	0	0	0	0	0	0
HUMIDITY (%)											
MAXIMUM (12)	11	60	60	60	60	60	43	30	30	20	30
MINIMUM (12)	3	5	30	30	30	30	3	30	30	30	30
RADIATION (RADS) NORMAL INTEGRATED DOSE	3.4×10^7 *	1×10^3 *	1×10^3 *	1×10^3 *	1×10^3 *	1×10^3 *	1×10^3 *	1×10^3 *	1×10^3 *	1×10^3 *	1×10^3 *

* PER CALCULATION C-S-1-28006 REV 0

NOTE:
FOR NOTES AND GENERAL NOTES SEE THIS DRAWING SHEET 1 OF 5

NUCLEAR SAFETY RELATED

REV	DATE	DSGN	DRWN	CHKD	CE	LDE	DESCRIPTION
21	4-25-91	—	SJT	DMQ	CEB	RST	INCORP DCR 03-012 DCN 00
20	10/30/89	—	JM	CCM	APL	PJT	SUPERCEDES UE&C DWG 9763-F-300219

New Hampshire Yankee

SEABROOK STATION

SERVICE ENVIRONMENT CHART

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10/26/89

SECURITY-RELATED INFORMATION
WITHHELD UNDER 5 USC SECTION 552(b)
(4) AND 5 USC SECTION 552(b)(7)(F)

SECURITY-RELATED INFORMATION
WITHHELD UNDER 5 USC SECTION 552(b)
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