[illegible]

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 NOT BE REACHED AFTER SOME PERIOD OF TIME,
AND ONLY IF NO ACTION IS TAKEN TO PROVIDE HEATING TO THE AFFECTED AREA
6. THERMAL COMPROHENSION OF PRESSURE DEVIATION FROM NORMAL ATMOSPHERIC PRESSURE,
THE D.O. SHOULD START UNDER THESE CONDITIONS, HOWEVER,
OPERATION AT LOAD IS NOT REQUIRED BECAUSE THE DURATION OF THE PRESSURE
STANDARD IS ONLY 1.5 HOURS WHICH IS LESS THAN STARTING TIME OF THE DESSEL.
7. THE DESIGN BASIS AMBIENT TEMPERATURE RANGE OF 0 TO 88°F USED FOR EQUIPMENT LOCATED
WITHIN BUILDINGS IS TAKEN FROM ASHRAE 1057 "HANDBOOK OF FUNDAMENTALS", 98X OF THE

TEMPERATURE ANALYSES BEING THESE TWO CHARTS.

A STATISTICAL ANALYSIS OF RECORD TEMPERATURE CONDITIONS PREDICTS 100 YEAR MAXIMUM AVERAGE HIGHEST OUTDOOR TEMPERATURES OF 105°F AND 114°F RESPECTIVELY (PP50990, FSR SECTION 10.1.1). THE ANALYSIS OF RECORD TEMPERATURES OF THE BUILDINGS INDICATES THAT THE TEMPERATURES OF THE SAFETY-RELATED EQUIPMENT LOCATED INSIDE SELECTED BUILDINGS HAVE BEEN EVALUATED FOR SATISFACTORY PERFORMANCE UNDER 24-HOUR AVERAGE OUTDOOR TEMPERATURE CONDITIONS OF -10°F AND 89°F. THE ANALYSIS SUMMARIZING THE OPERATIONAL CAPABILITY OF THE MOOR EQUIPMENT FOR THESE EXTREME OUTDOOR TEMPERATURES WAS SUBMITTED TO THE NRC IN A LETTER BY PWSM DATED JUNE 24, 1983, TO MR. G.W. KNIGHTON (PWSM 83-001, PWSM 83-002, PWSM 83-003).

8. W.P.R. EVAPORATOR CUBICLES $T_{amb} = 120^{\circ}F$
 9. THE INTEGRATED DOSE, WHICH IS THE SUM OF THE FORTY YEAR NORMAL AND ACCIDENT (LOCAL) DOSES IS AS FOLLOWS:
 A. NORMAL FOR GENERAL AREA: $2.5X10^4$ RAD/GAMMA
 B. NORMAL FOR REACTOR COOLANT (RC) PIPING: $1.8X10^4$ RAD/GAMMA
 C. NORMAL FOR RC PIPING IN LINE INSTRUMENTATION: $3.1X10^4$ RAD/GAMMA
 D. NORMAL FOR REACTOR MISSILE SHELDS AND REACTOR SHELDS, AND AROUND RC PIPING PENETRATION IN PRIMARY SHELDS: $1.1X10^4$ RAD/GAMMA
 E. ACCIDENT-INTEGRATED DOSE AFTER ONE YEAR IN LOCK ENVIRONMENT:
 (WFOR COMPONENTS NOT SUBMERGED FOLLOWING LOCK)
 BETA DOSE = $9.8X10^3$ RAD/GAMMA DOSE = $1.4X10^4$ RAD/GAMMA.

10. FOR THE FOLLOWING AREAS USE AN INTEGRATED DOSE OF 3.4×10^5 RADS:
 A. SPENT RESIN SLUDGE TANK/TRANSFER PUMP AREA
 B. DEMINERALIZER CUBICLES
 (EXCEPT CS MIXED BED AND CATION WHICH ARE 8.5×10^5)
 C. FILTER CUBICLES

11. DECL - DOUBLE ENDED COLD - LEG GULLIOTINE (MINIMUM SAFETY INJECTION)
DDEH - DOUBLE ENDED HOT - LEG GULLIOTINE (MINIMUM SAFETY INJECTION)
DDEH - DOUBLE ENDED PUMP SUCTION GULLIOTINE (MINIMUM/MAXIMUM SAFETY INJECTION)
3. 3. FFP PUMP SUCTION GULLIOTINE (MINIMUM SAFETY INJECTION)
VPS - MAIN STEAM LINE BREAK AT V22 POWER

12. MAXIMUM AND MINIMUM HUMIDITIES GIVEN FOR NORMAL CONDITIONS ARE COINCIDENT WITH MAXIMUM AND MINIMUM TEMPERATURES FOR NORMAL CONDITIONS. DURING NORMAL PLANT OPERATION, MOISTURE, HEAT, AND COOL DOWN REFINING, HUMIDITY SHOULD NOT EXCEED THE MAXIMUM NOTED IN THE TABLE. HUMIDITIES ARE NOT CONTROLLED EXCEPT IN THE FOLLOWING ENVIRONMENTAL ZONES:

CS-1 "MAN CONTROL ROOM"
CS-1A, B, C, D, E, F, G, "GENERAL AREAS"
CS-2 "COMPUTER ROOM"
OTHER AREA HUMIDITIES MAY REACH 95% RH DURING PLANT SHUTDOWN CONDITIONS
USE CALC WS-MSC-320

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 CRC WATER PUMP HOUSE PUMP ROOM IS SEASHORE LEVELS OF SALT WATER IN AIR. ALL OTHER AREAS/ZONES NOT APPLICABLE

15. INDICATES AREA PROVIDED W/SAFETY RELATED VENTILATION

16. FOLLOWING A FUEL HANDLING ACCIDENT THE 30 DAY INTEGRATED DOSE EXCEEDS 1×10^3 RADS IN A LOCALIZED AREA WITHIN APPROXIMATELY 10 FEET OF THE CHEMICAL VENTILATION FILTERS. THE MAXIMUM 30 DAY INTEGRATED DOSE IN CONTACT IS APPROXIMATELY 100 RADS PER HOUR. RADIATION LEVELS IN THE PUMP ROOM ARE

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-44A4B IS APPROXIMATELY 90° F (CALC 8.0147.13, REV 02 AND C-5-1-B7901 REV 03).
20. MAXIMUM SPACE TEMPERATURE FOLLOWING A LOCA WITH A MAXIMUM PCMW TEMPERATURE OF

21. 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 55'6" 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.

LOCATED IN THE CONTROL ROOM. THIS TEMPERATURE LIMIT IS ACCEPTABLE FOR HABITABILITY
(REF: EE-98019, REV. 2 AND C-S-1-91228)

24. PRESSURE AND TEMPERATURE TIME/HISTORIES ARE BASED ON THE ORIGINAL AND BOUNDING
CONTAMINANT ANALYSIS. A NEW GOTHIC BASED ANALYSIS WAS PERFORMED TO BASELINE THE
ORIGINAL ANALYSIS AND DETERMINE THE IMPACT OF THE ANALYZED CORE POWER LEVEL. 3659
THE TEMPERATURE TIME HISTORIES SHOWN IN THE PROFILE PLOTS

REMAN BOUNDING AT 3659 MW ANALYZED CORE POWER LEVEL EXCEPT FOR LONG TERM LOCA PRESSURE RESPONSE WHICH WAS EXCEEDED BY APPROXIMATELY 4.5 PSIS THIS IS ACCEPTABLE SINCE THE QUALIFICATION PEAK PRESSURE IS 56.7 PSIA AND PRESSURE EFFECTS ARE STRESS RELATED RATHER THAN AGE DEGRADATION RELATED. QUALIFICATION TO HIGH PRESSURE PEAK PRESSURES AND TO STRESS RATE STALLAGE REGION OF THE QUALIFICATION CURVED PRESSURE AND TEMPERATURE CURVES AT THE 3659 MW ANALYZED CORE POWER LEVEL VS. TIME MAY DIFFER SLIGHTLY FROM THE CURVES PRESENTED ABOVE REFER TO SEABROOK CALCULATIONS C-3-1-28002

AND 280037.

A. IN AREAS WHERE SLIGHTLY POSITIVE (SLIGHT POSIT) OR SLIGHTLY NEGATIVE (SLIGHT NEG) PRESSURES ARE ENCOUNTERED, THE DESIGNER SHALL CONSIDER THE EFFECTS OF THESE PRESSURES AND THE EFFECTS OF OPERATIONS IN THE SUBSEQUENT ANALYSIS UNLESS THESE PRESSURES AFFECT THE DESIGN AND/OR ANALYSIS.

B. ALL EQUIPMENT LOCATED EXTERIOR TO SECONDARY SHIELD WALL WITHIN CONTAINMENT, INCLUDING BUT NOT LIMITED TO, EXHAUST FANS, SHALL BE CONSIDERED IN THE ANALYSIS. EQUIPMENT PLACES THAT DO NOT HAVE AND THEREFORE NEUTRON EXPOSURES NEED NOT BE SPECIFIED IN THE ANALYSIS. COMPONENTS PURCHASED FROM THE SUPPLIER SHALL BE SPECIFIED IN THE ANALYSIS.

C. THE DRAWING IS VALID ONLY FOR ENVIRONMENTAL QUALIFICATION OF EQUIPMENT LOCATED WITHIN THE SECONDARY SHIELD WALL AND SHOULD NOT BE USED FOR OTHER PURPOSES.

D. FOR REFERENCE CALCULATIONS WHICH SERVE AS THE BASIS FOR THE NORMAL, ACCIDENT, AND EARTHQUAKE CONDITION DESIGN, THE DESIGNER SHALL USE THE FOLLOWING:

- 1. ENVIRONMENTAL DESIGN WINDS: SEE CALL SET NO. 6.0, "DESIGN WINDS."
- 2. CONDITIONS ALL NORMAL, ACCIDENT, AND EARTHQUAKE CONDITIONS LISTED BELOW OCCUR CONCURRENTLY AND ANALOGOUS TO THE DESIGN WINDS.

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, IDLE 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

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

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

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

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 BASED LOSS OF TUNNELS.

ACCIDENT 9 - THE MAXIMUM LONG TERM TEMPERATURE, PRESSURE AND HUMIDITY RESULTING FROM A DESIGN BASED LOSS OF TUNNELS.

ACCIDENT 9- THE MAXIMUM TEMPERATURE OCCURRING DURING A SERVIC EVENT WITH
TOOK FULL POWER OR A LOCA

ACCIDENT 10- THE MAXIMUM TEMPERATURE, PRESSURE AND HUMIDITY OCCURRING DURING
A FUEL HANDLING ACCIDENT (FH ACCD).

G. MAXIMUM TEMPERATURE, PRESSURE AND HUMIDITY GIVEN FOR THE ACCIDENT CONDITIONS
ARE COINCIDENT WITH THE WORST CASE ACCIDENT AS NOTED.

- H. MINIMUM TEMPERATURE INDICATES 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 CONDITIONS INDICATES INFORMATION NOT REQUIRED UNDER THIS ANALYSIS.

NUCLEAR SAFETY

27	10/29/07	---	TPN	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
28	4/28/08	---	SJT	DNQ	RRE	PJT

25	1/06/04	---	APL	APL	JO	PJT
24	8/25/03	---	APL	APL	TWT	PJT
23	10/10/02	---	APL	APL	BJK	PJT

22	4/5/91	---	RMC	JM	APL	EJK
21	12/12/90	---	FCB	RMC	APL	EJK
20	10/30/88	---	JM	CDM	APL	PJT

REV	DATE	DSGN	DRWN	CHKD	CE	LDE
FPL Energy-Seab						




ENVIRONMENTAL PROTECTION AGENCY

	FPL Energy Seabrook Station	1-NHY-3
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1. *Journal of the American Medical Association*, 1997; 277: 1033-1036.

FPL Energy-Seabrook Station	
	SERVICE

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BUILDING	MAIN STEAM & FEEDWATER PIPE CHASES																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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SERVICE ENVIRONMENT CHART

1-NHY 300219 SHEET 3 OF 5

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* PER CALCULATION C-S-1-28008 REV 0

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1-NHY-300219 SHEET 5 OF 5

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

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

