



APPLICABLE TO:
PUBLICATION NO NEDO-24082
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TITLE LOCA ANALYSIS FOR PEACH
BOTTOM ATOMIC POWER STATION
UNIT 3
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ERRATA And ADDENDA SHEET

NO 3
DATE February 1981
NOTE: *Correct all copies of the applicable
publication as specified below.*

ITEM	REFERENCES (SECTION, PAGE PARAGRAPH, LINE)	INSTRUCTIONS (CORRECTIONS AND ADDITIONS)
1	Page 3-1/3-2	Replace with new page 3-1/3-2.
2	Page 4-12	Replace with new page 4-12.
3	Page 4-13	Replace with new page 4-13.
4	Page 4-14	Add new page 4-14.
CHANGE BARS IN RIGHT-HAND MARGIN INDICATE AREAS WHERE REPORT HAS BEEN REVISED.		

3. INPUT TO ANALYSIS

A list of the significant plant input parameters to the LOCA analysis is presented in Table 3-1.

Table 3-1
SIGNIFICANT INPUT PARAMETERS TO THE
LOSS-OF-COOLANT ACCIDENT ANALYSIS

Plant Parameters:

Core Thermal Power	3440 MWt, which corresponds to 105% of rated steam flow
Vessel Steam Output	14.05×10^6 lbm/h, which corresponds to 105% of rated steam flow
Vessel Steam Dome Pressure	1055 psia
Recirculation Line Break Area for Large Breaks - Discharge	1.9 ft ² (DBA)
- Suction	4.1 ft ² (DBA)
Number of Drilled Bundles	432

Fuel Parameters:

<u>Fuel Type</u>	<u>Fuel Bundle Geometry</u>	<u>Peak Technical Specification Linear Heat Generation Rate (kW/ft)</u>	<u>Design Axial Peaking Factor</u>	<u>Initial Minimum Critical Power Ratio*</u>
A. IC Type 2	7 x 7	18.5	1.5	1.2
B. IC Type 3	7 x 7	18.5	1.5	1.2
C. 8D274L	8 x 8	13.4	1.4	1.2
D. 8D274H	8 x 8	13.4	1.4	1.2
E. PTA260	8 x 8	13.4	1.4	1.2
F. 8DRB283	8 x 8R	13.4	1.4	1.2
G. P8DRB284H	8 x 8R	13.4	1.4	1.2
H. P8DRB299	8 x 8R	13.4	1.4	1.2

*To account for the 2% uncertainty in bundle power required by Appendix K, the SCAT calculation is performed with an MCPR of 1.18 (i.e., 1.2 divided by 1.02) for a bundle with an initial MCPR of 1.20.

Table 4-3f
 MAPLHGR VERSUS AVERAGE PLANAR EXPOSURE

Plant: PB-3Fuel Type: 8DRB283

<u>Average Planar Exposure (Mwd/t)</u>	<u>MAPLHGR (kW/ft)</u>	<u>PCT (°F)</u>	<u>Oxidation Fraction</u>
200	11.3	1823	0.007
1,000	11.4	1822	0.007
5,000	11.9	1884	0.009
10,000	12.1	1902	0.009
15,000	12.1	1917	0.010
20,000	11.9	1903	0.010
25,000	11.3	1844	0.008
30,000	11.1	1815	0.007
35,000	10.5	1744	0.005
40,000	9.8	1672	0.004

Table 4-3g
MAPLHGR VERSUS AVERAGE PLANAR EXPOSURE

Plant: PB-3Fuel Type: P8DRB284H

Average Planar Exposure (MWd/t)	MAPLHGR (kW/ft)	PCT (°F)	Oxidation Fraction
200	11.3	1812	0.007
1,000	11.3	1813	0.007
5,000	11.7	1858	0.008
10,000	12.1	1894	0.009
15,000	12.0	1897	0.009
20,000	11.6	1858	0.008
25,000	10.9	1777	0.006
30,000	10.2	1700	0.004
35,000	9.6	1630	0.003
40,000	9.0	1556	0.002

Table 4-3g

MAPLHGR VERSUS AVERAGE PLANAR EXPOSURE

Plant: PB-3Fuel Type: P8DRB299

<u>Average Planar Exposure (Mwd/t)</u>	<u>MAPLHGR (kW/ft)</u>	<u>PCT (°F)</u>	<u>Oxidation Fraction</u>
200	10.9	1768	0.006
1,000	11.0	1772	0.006
5,000	11.5	1817	0.007
10,000	12.2	1894	0.009
15,000	12.3	1923	0.010
20,000	12.1	1906	0.010
25,000	11.6	1856	0.008
30,000	10.9	1776	0.006
35,000	10.3	1703	0.004
40,000	9.6	1629	0.003