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Millstone Unit 3

Cycle 6

Core Operating Limits Report

1.0 Core Operating Limits Report

This Core Operating Limits Report (COLR) for Millstone Unit No. 3, Cycle 6 has been prepared in accordance with the requirements of Technical Specification 6.9.1.6. The Technical Specifications affected by this report are listed below.

| | |
|-----------|---|
| 3/4.1.1.3 | Moderator Temperature Coefficient |
| 3/4.1.3.5 | Shutdown Rod Insertion Limit |
| 3/4.1.3.6 | Control Rod Insertion Limits (Four Loop and Three Loop) |
| 3/4.2.1.1 | Axial Flux Difference - Four Loop |
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| 3/4.1.2.1 | Heat Flux Hot Channel Factor - Four Loop |
| 3/4.1.2.2 | Heat Flux Hot Channel Factor - Three Loop |
| 3/4.2.3.1 | Nuclear Enthalpy Rise Hot Channel Factor - Four Loop |
| 3/4.2.3.2 | Nuclear Enthalpy Rise Hot Channel Factor - Three Loop |
| 3/4.3.1 | Table 4.3-1 Note 19, Shutdown Margin Monitor Setpoint |

2.0 Operating Limits

The cycle-specific parameter limits for the specifications listed in Section 1.0 are presented in the following subsections. These limits have been developed using the NRC-approved methodologies specified in Technical Specification 6.9.1.6.

2.1 Moderator Temperature Coefficient (Specification 3/4.1.1.3)

2.1.1 The Moderator Temperature Coefficient (MTC) limits are as follows:

- The BOL/ARO/0% - 70% RTP MTC shall be less positive than $+ 0.5 \times 10^{-4} \Delta k/k/^{\circ}F$. Above 70% RTP, the MTC limit is a linear ramp to $0 \Delta k/k/^{\circ}F$ at 100% RTP.
- The EOL/ARO/RTP MTC shall be less negative than $- 5.65 \times 10^{-4} \Delta k/k/^{\circ}F$.



2.1.2 The MTC surveillance limit is as follows:

- The 300 ppm/ARO/RTP MTC should be less negative than or equal to $-4.9 \times 10^{-4} \Delta k/k/^{\circ}F$.

where: BOL stands for Beginning Of Cycle Life
ARO stands for All Rods Out
HZP stands for Hot Zero Power
EOL stands for End Of Cycle Life
RTP stands for Rated Thermal Power

2.2 Shutdown Rod Insertion Limit (Specification 3/4.1.3.5)

- The shutdown rods shall be at least 222 steps withdrawn (inclusive).

2.3 Control Rod Insertion Limits (Specification 3/4.1.3.6)

- The control rod banks shall be limited in physical insertion as shown in Figure 1 for four-loop operation and Figure 2 for three-loop operation.

2.4 Axial Flux Difference (Four - Loop Operation) (Specification 3/4.2.1.1)

- 2.4.1 The Axial Flux Difference (AFD) limits are provided in Figure 3.
- 2.4.2 The AFD target band during base load operation is $\pm 5\%$.
- 2.4.3 The minimum allowable (nuclear design) power level for base load operation (APL^{ND}) is 80% of Rated Thermal Power.

2.5 Axial Flux Difference (Three - Loop Operation) (Specification 3/4.2.1.2)

- 2.5.1 The Axial Flux Difference (AFD) limits are provided in Figure 4.
- 2.5.2 The AFD target band during base load operation is $\pm 5\%$.
- 2.5.3 The minimum allowable (nuclear design) power level for base load operation (APL^{ND}) is 60% of Rated Thermal Power.

**2.6 Heat Flux Hot Channel Factor (Four-Loop Operation) - $F_Q(Z)$ (Specification 3/4.2.2.1)**

$$F_Q(Z) \leq \frac{F_{Q}^{RTP}}{P} * K(Z) \quad \text{for } P > 0.5$$

$$F_Q(Z) \leq \frac{F_{Q}^{RTP}}{0.5} * K(Z) \quad \text{for } P \leq 0.5$$

$$\text{where: } P = \frac{\text{Thermal Power}}{\text{Rated Thermal Power}}$$

2.6.1 $F_{Q}^{RTP} = 2.60$.

2.6.2 $K(Z)$ is provided in Figure 5.

2.6.3 $W(Z)$ values are provided in Table 1. A 2% factor shall be used for Surveillance Requirement 3/4.2.2.1.2.

2.6.4 $W(Z)_{BL}$ values for base load operation are provided in Table 2.

2.7 Heat Flux Hot Channel Factor Surveillance (Four-Loop Operation) - $F_Q(Z)$ (Specification 3/4.2.2.1.2)

$$F_Q^M(Z) \leq \frac{F_{Q}^{RTP}}{P * W(Z)} * K(Z) \quad \text{for } P > 0.5$$

$$F_Q^M(Z) \leq \frac{F_{Q}^{RTP}}{0.5 * W(Z)} * K(Z) \quad \text{for } P \leq 0.5$$

$$\text{where: } P = \frac{\text{Thermal Power}}{\text{Rated Thermal Power}}$$

2.8 Heat Flux Hot Channel Factor (Three-Loop Operation) - $F_Q(Z)$ (Specification 3/4.2.2.2)

$$F_Q(Z) \leq \frac{F_{Q}^{RTP}}{P} * K(Z) \quad \text{for } P > 0.375$$

$$F_Q(Z) \leq \frac{F_{Q}^{RTP}}{0.375} * K(Z) \quad \text{for } P \leq 0.375$$

$$\text{where: } P = \frac{\text{Thermal Power}}{\text{Rated Thermal Power}}$$

2.8.1 $F_{Q}^{RTP} = 2.25$.

2.8.2 $K(Z)$ is provided in Figure 5.



2.8.3 W(Z) values are provided in Table 3. The following 2% factor shall be applicable for Surveillance Requirement 3/4.2.2.2.2 after receiving NRC SER approval for Reference 6 of the RSE.

A 2% factor shall be used for Surveillance Requirement 3/4.2.2.2.2. The F_Q margin decrease per 31 Effective Full Power Days (EFPD) was predicted to be greater than 2% for cycle burnups greater than 300 MWD/MTU and less than 3800 MWD/MTU. This decrease in margin in excess of 2% has been incorporated into the W(Z) function in Table 3.

2.8.4 W(Z)_{BL} values for base load operation are provided in Table 2.

2.9 Heat Flux Hot Channel Factor Surveillance (Three-Loop Operation) - $F_Q(Z)$
(Specification 3/4.2.2.2.2)

$$F_Q^M(Z) \leq \frac{F_Q^{RTP}}{P * W(Z)} * K(Z) \quad \text{for } P > 0.375$$

$$F_Q^M(Z) \leq \frac{F_Q^{RTP}}{0.375 * W(Z)} * K(Z) \quad \text{for } P \leq 0.375$$

$$\text{where: } P = \frac{\text{Thermal Power}}{\text{Rated Thermal Power}}$$

2.10 Nuclear Enthalpy Rise Hot Channel Factor (Four-Loop Operation) - $F_{\Delta H}^N$
(Specification 3/4.2.3.1)

$$F_{\Delta H}^N \leq F_{\Delta H}^{RTP} * (1 + PF_{\Delta H} * [1 - P])$$

$$\text{where: } P = \frac{\text{Thermal Power}}{\text{Rated Thermal Power}}$$

2.10.1 $F_{\Delta H}^{RTP} = 1.54.$

2.10.2 $PF_{\Delta H} = 0.3.$



2.11 Nuclear Enthalpy Rise Hot Channel Factor (Three-Loop Operation) - $F_{\Delta H}^N$
(Specification 3/4.2.3.2)

$$F_{\Delta H}^N \leq F_{\Delta H}^{RTP} * (1 + PF_{\Delta H} * [1 - P])$$

$$\text{where: } P = \frac{\text{Thermal Power}}{\text{Rated Thermal Power}}$$

2.11.1 $F_{\Delta H}^{RTP} = 1.54.$

2.11.2 $PF_{\Delta H} = 0.3.$

2.12 Shutdown Margin Monitor Alarm Setpoint (Specification 3/4.3.1 Table 4.3-1 Note 19)

The Shutdown Margin Monitor Alarm Setpoint shall be set to less than or equal to, two (2) times the reference countrate.



Figure 1
Control Rod Bank Insertion Limits versus
Thermal Power - Four Loop Operation

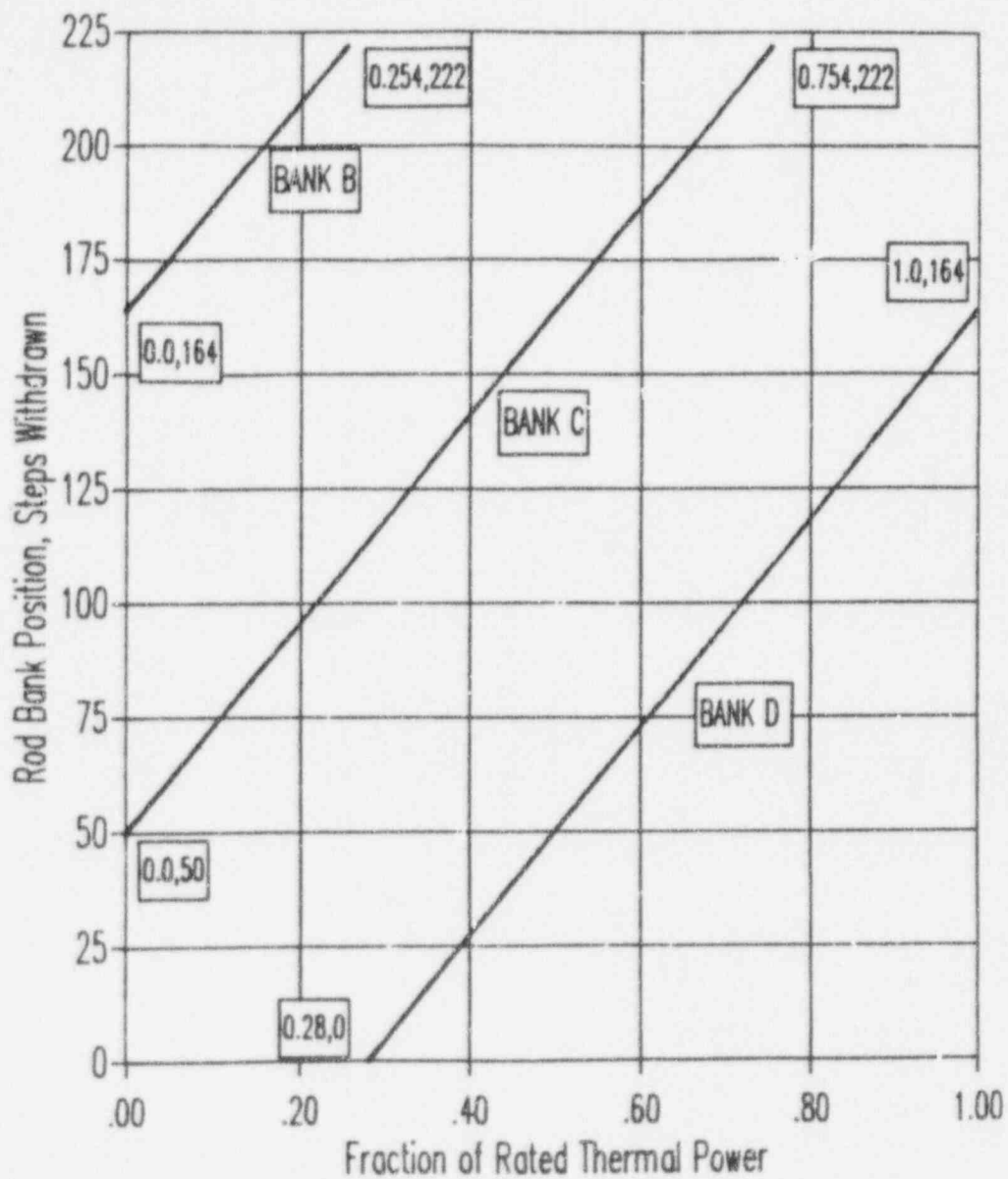




Figure 2
Control Rod Bank Insertion Limits versus
Thermal Power - Three Loop Operation

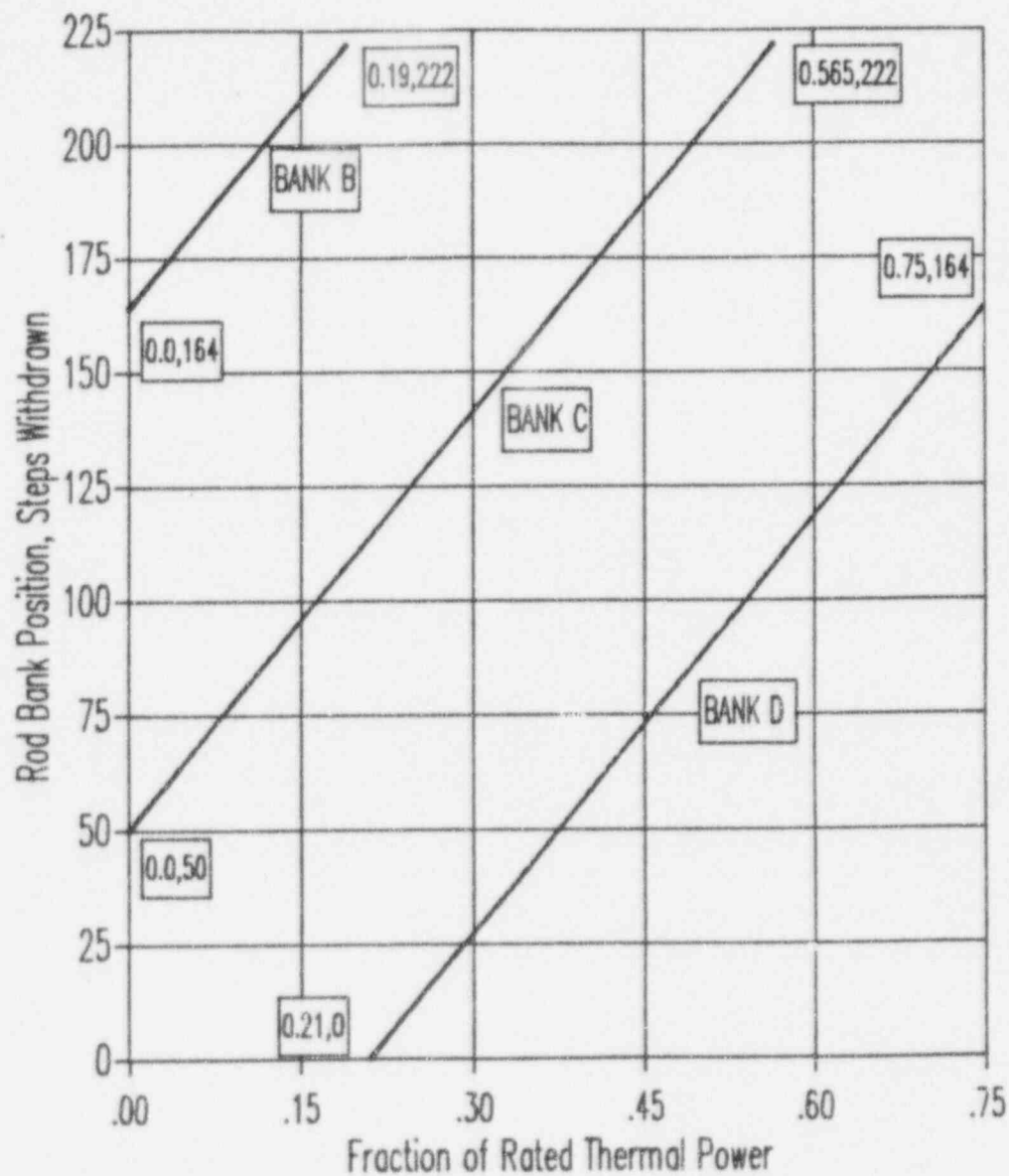




Figure 3
Axial Flux Difference Limits as a Function of
Rated Thermal Power for Four Loop Operation

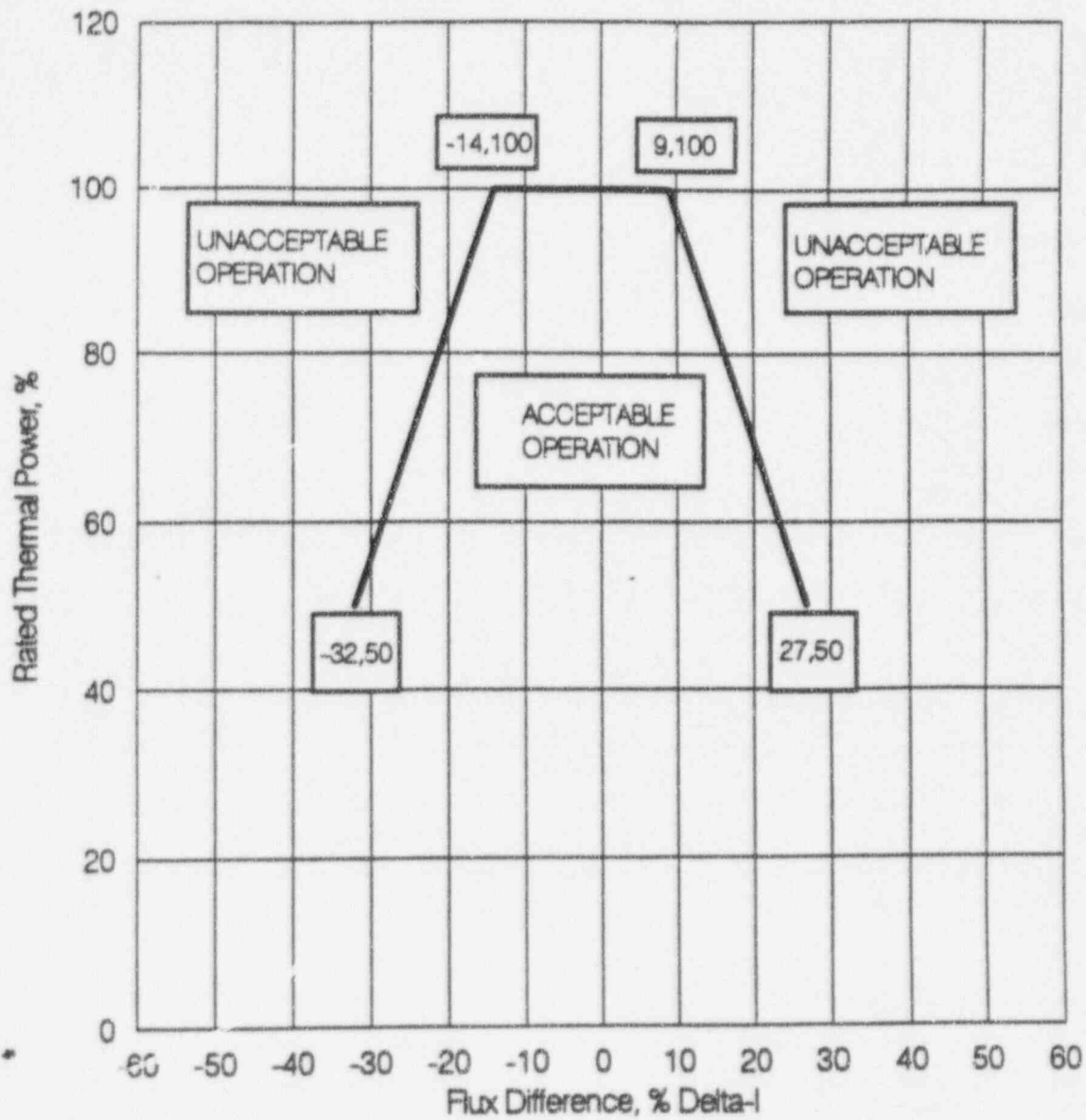




Figure 4

Axial Flux Difference Limits as a Function of
Rated Thermal Power for Three Loop Operation

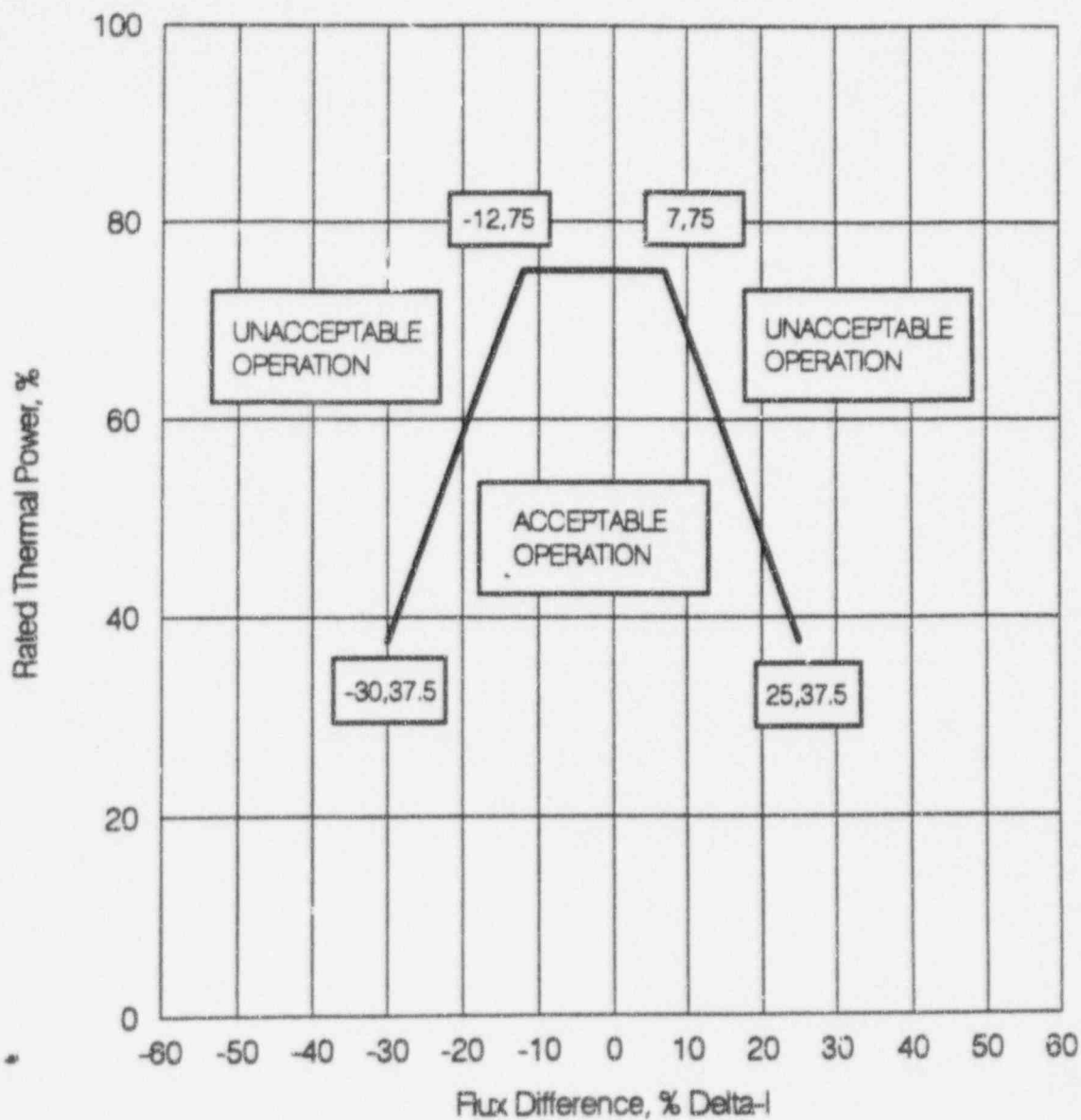




Figure 5

$K(Z)$ - Normalized $F_Q(Z)$ as a Function of Core Height
for Four and Three Loop Operation

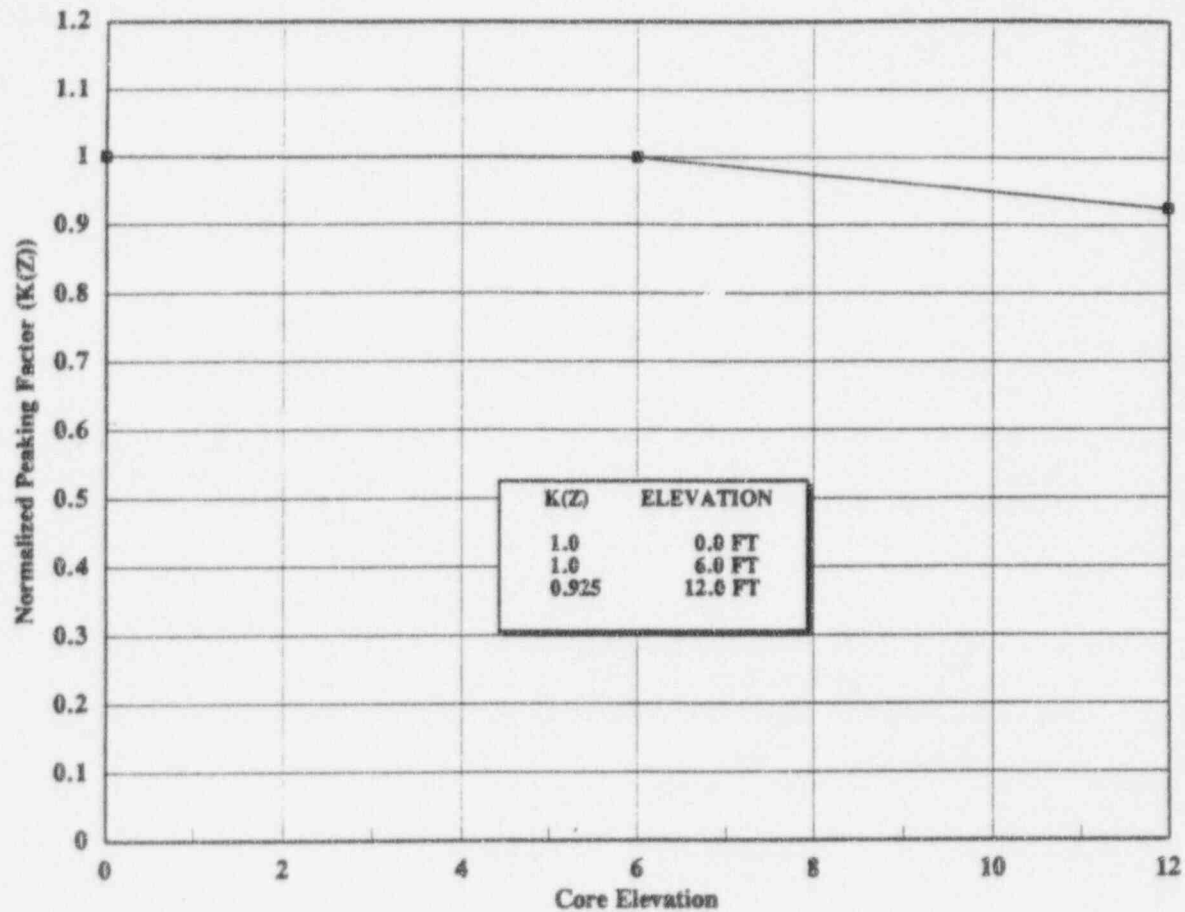




Table 1
Four Loop RAC W(Z) Function
Millstone Unit 3 - Cycle 6

| | | * Burnup Ranges (MWD/MTU) | | | | | | | | | | | | | |
|-------------|--------|---------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Mesh | Axial | 0 | 150 | 1000 | 2000 | 3000 | 4000 | 6000 | 8000 | 10000 | 12000 | 14000 | 16000 | 18000 | 20000 |
| No. | Height | 150 | 1000 | 2000 | 3000 | 4000 | 6000 | 8000 | 10000 | 12000 | 14000 | 16000 | 18000 | 20000 | EOL |
| Top of Core | | | | | | | | | | | | | | | |
| 1. | 12.00 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 2. | 11.83 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 3. | 11.67 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 4. | 11.50 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 5. | 11.33 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 6. | 11.17 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 7. | 11.00 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 8. | 10.83 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 9. | 10.67 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 10. | 10.50 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 11. | 10.33 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 12. | 10.17 | 1.3484 | 1.3530 | 1.3584 | 1.3638 | 1.3692 | 1.3727 | 1.3727 | 1.3719 | 1.3678 | 1.3609 | 1.3513 | 1.3390 | 1.3237 | 1.3126 |
| 13. | 10.00 | 1.3267 | 1.3318 | 1.3378 | 1.3438 | 1.3498 | 1.3525 | 1.3525 | 1.3503 | 1.3453 | 1.3388 | 1.3309 | 1.3213 | 1.3095 | 1.3005 |
| 14. | 9.83 | 1.3066 | 1.3126 | 1.3197 | 1.3268 | 1.3339 | 1.3342 | 1.3342 | 1.3280 | 1.3197 | 1.3124 | 1.3059 | 1.2995 | 1.2922 | 1.2854 |
| 15. | 9.67 | 1.2848 | 1.2928 | 1.3022 | 1.3116 | 1.3211 | 1.3211 | 1.3177 | 1.3047 | 1.2903 | 1.2810 | 1.2761 | 1.2739 | 1.2727 | 1.2683 |
| 16. | 9.50 | 1.2642 | 1.2732 | 1.2838 | 1.2944 | 1.3050 | 1.3050 | 1.2985 | 1.2806 | 1.2622 | 1.2600 | 1.2578 | 1.2556 | 1.2535 | 1.2513 |
| 17. | 9.33 | 1.2439 | 1.2536 | 1.2649 | 1.2763 | 1.2877 | 1.2877 | 1.2784 | 1.2561 | 1.2341 | 1.2340 | 1.2339 | 1.2338 | 1.2337 | 1.2336 |
| 18. | 9.17 | 1.2227 | 1.2334 | 1.2459 | 1.2584 | 1.2709 | 1.2709 | 1.2586 | 1.2316 | 1.2076 | 1.2095 | 1.2115 | 1.2135 | 1.2155 | 1.2179 |
| 19. | 9.00 | 1.2023 | 1.2132 | 1.2259 | 1.2387 | 1.2515 | 1.2515 | 1.2378 | 1.2087 | 1.1849 | 1.1886 | 1.1923 | 1.1960 | 1.1997 | 1.2043 |
| 20. | 8.83 | 1.1872 | 1.1975 | 1.2097 | 1.2218 | 1.2340 | 1.2340 | 1.2218 | 1.1953 | 1.1753 | 1.1801 | 1.1850 | 1.1898 | 1.1947 | 1.2007 |
| 21. | 8.67 | 1.1788 | 1.1880 | 1.1989 | 1.2097 | 1.2206 | 1.2206 | 1.2110 | 1.1892 | 1.1746 | 1.1802 | 1.1858 | 1.1914 | 1.1970 | 1.2040 |
| 22. | 8.50 | 1.1716 | 1.1794 | 1.1885 | 1.1975 | 1.2066 | 1.2066 | 1.1994 | 1.1825 | 1.1746 | 1.1819 | 1.1892 | 1.1965 | 1.2038 | 1.2130 |
| 23. | 8.33 | 1.1641 | 1.1703 | 1.1775 | 1.1848 | 1.1921 | 1.1921 | 1.1869 | 1.1744 | 1.1731 | 1.1822 | 1.1914 | 1.2006 | 1.2097 | 1.2212 |
| 24. | 8.17 | 1.1561 | 1.1611 | 1.1671 | 1.1730 | 1.1790 | 1.1790 | 1.1757 | 1.1671 | 1.1621 | 1.1708 | 1.1850 | 1.2034 | 1.2141 | 1.2275 |
| 25. | 8.00 | 1.1477 | 1.1523 | 1.1578 | 1.1633 | 1.1689 | 1.1689 | 1.1669 | 1.1604 | 1.1596 | 1.1699 | 1.1854 | 1.2051 | 1.2173 | 1.2326 |
| 26. | 7.83 | 1.1397 | 1.1442 | 1.1495 | 1.1548 | 1.1601 | 1.1601 | 1.1594 | 1.1549 | 1.1576 | 1.1689 | 1.1852 | 1.2056 | 1.2188 | 1.2353 |
| 27. | 7.67 | 1.1326 | 1.1367 | 1.1415 | 1.1463 | 1.1512 | 1.1522 | 1.1522 | 1.1510 | 1.1573 | 1.1691 | 1.1852 | 1.2048 | 1.2183 | 1.2352 |
| 28. | 7.50 | 1.1254 | 1.1292 | 1.1336 | 1.1380 | 1.1424 | 1.1450 | 1.1458 | 1.1485 | 1.1562 | 1.1684 | 1.1841 | 1.2029 | 1.2165 | 1.2334 |
| 29. | 7.33 | 1.1188 | 1.1222 | 1.1263 | 1.1303 | 1.1343 | 1.1380 | 1.1406 | 1.1450 | 1.1536 | 1.1661 | 1.1815 | 1.1997 | 1.2133 | 1.2304 |
| 30. | 7.17 | 1.1131 | 1.1162 | 1.1199 | 1.1236 | 1.1272 | 1.1315 | 1.1352 | 1.1406 | 1.1498 | 1.1623 | 1.1776 | 1.1953 | 1.2090 | 1.2261 |
| 31. | 7.00 | 1.1079 | 1.1107 | 1.1140 | 1.1173 | 1.1206 | 1.1250 | 1.1292 | 1.1352 | 1.1446 | 1.1571 | 1.1723 | 1.1898 | 1.2035 | 1.2206 |
| 32. | 6.83 | 1.1035 | 1.1060 | 1.1090 | 1.1120 | 1.1149 | 1.1190 | 1.1230 | 1.1289 | 1.1381 | 1.1505 | 1.1655 | 1.1829 | 1.1964 | 1.2133 |
| 33. | 6.67 | 1.1000 | 1.1023 | 1.1050 | 1.1076 | 1.1103 | 1.1135 | 1.1166 | 1.1216 | 1.1304 | 1.1425 | 1.1575 | 1.1750 | 1.1883 | 1.2050 |
| 34. | 6.50 | 1.0964 | 1.0985 | 1.1010 | 1.1035 | 1.1060 | 1.1079 | 1.1094 | 1.1133 | 1.1215 | 1.1338 | 1.1494 | 1.1681 | 1.1818 | 1.1989 |
| 35. | 6.33 | 1.0935 | 1.0952 | 1.0972 | 1.0992 | 1.1011 | 1.1021 | 1.1028 | 1.1060 | 1.1199 | 1.1338 | 1.1478 | 1.1617 | 1.1756 | 1.1930 |
| 36. | 6.17 | 1.0912 | 1.0922 | 1.0934 | 1.0946 | 1.0958 | 1.0965 | 1.0975 | 1.1010 | 1.1089 | 1.1209 | 1.1362 | 1.1548 | 1.1682 | 1.1850 |
| 37. | 6.00 | 1.0872 | 1.0880 | 1.0890 | 1.0900 | 1.0910 | 1.0917 | 1.0928 | 1.0963 | 1.1039 | 1.1152 | 1.1297 | 1.1471 | 1.1598 | 1.1757 |
| 38. | 5.83 | 1.0868 | 1.0874 | 1.0881 | 1.0887 | 1.0894 | 1.0899 | 1.0907 | 1.0937 | 1.1005 | 1.1108 | 1.1239 | 1.1398 | 1.1513 | 1.1656 |
| 39. | 5.67 | 1.0929 | 1.0928 | 1.0920 | 1.0914 | 1.0909 | 1.0914 | 1.0924 | 1.0933 | 1.0994 | 1.1086 | 1.1204 | 1.1348 | 1.1451 | 1.1581 |
| 40. | 5.50 | 1.0987 | 1.0985 | 1.0974 | 1.0964 | 1.0955 | 1.0947 | 1.0946 | 1.0945 | 1.1046 | 1.1147 | 1.1248 | 1.1349 | 1.1450 | 1.1576 |
| 41. | 5.33 | 1.1030 | 1.1029 | 1.1020 | 1.1011 | 1.1003 | 1.0994 | 1.0978 | 1.0978 | 1.1021 | 1.1109 | 1.1227 | 1.1375 | 1.1477 | 1.1603 |

* Distance from Bottom of Active Core (feet).



Table 1 (cont.)
Four Loop RAOC W(Z) Function
Millstone Unit 3 - Cycle 6

| | * | Burnup Ranges (MWD/MTU) | | | | | | | | | | | | | |
|------|--------|-------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Mesh | Axial | 0 | 150 | 1000 | 2000 | 3000 | 4000 | 6000 | 8000 | 10000 | 12000 | 14000 | 16000 | 18000 | 20000 |
| No. | Height | 150 | 1000 | 2000 | 3000 | 4000 | 6000 | 8000 | 10000 | 12000 | 14000 | 16000 | 18000 | 20000 | EOL |
| 42. | 5.17 | 1.1074 | 1.1072 | 1.1062 | 1.1052 | 1.1043 | 1.1033 | 1.1012 | 1.1012 | 1.1050 | 1.1136 | 1.1253 | 1.1400 | 1.1499 | 1.1624 |
| 43. | 5.00 | 1.1119 | 1.1117 | 1.1105 | 1.1092 | 1.1080 | 1.1067 | 1.1039 | 1.1039 | 1.1073 | 1.1158 | 1.1276 | 1.1426 | 1.1526 | 1.1651 |
| 44. | 4.83 | 1.1165 | 1.1162 | 1.1146 | 1.1129 | 1.1114 | 1.1098 | 1.1069 | 1.1069 | 1.1101 | 1.1186 | 1.1302 | 1.1450 | 1.1549 | 1.1673 |
| 45. | 4.67 | 1.1207 | 1.1203 | 1.1182 | 1.1161 | 1.1142 | 1.1126 | 1.1117 | 1.1109 | 1.1148 | 1.1227 | 1.1334 | 1.1468 | 1.1560 | 1.1675 |
| 46. | 4.50 | 1.1246 | 1.1241 | 1.1216 | 1.1190 | 1.1169 | 1.1156 | 1.1159 | 1.1161 | 1.1209 | 1.1279 | 1.1369 | 1.1481 | 1.1561 | 1.1661 |
| 47. | 4.33 | 1.1281 | 1.1276 | 1.1246 | 1.1218 | 1.1196 | 1.1196 | 1.1210 | 1.1225 | 1.1272 | 1.1331 | 1.1403 | 1.1489 | 1.1555 | 1.1638 |
| 48. | 4.17 | 1.1313 | 1.1307 | 1.1275 | 1.1245 | 1.1222 | 1.1212 | 1.1242 | 1.1284 | 1.1329 | 1.1377 | 1.1431 | 1.1493 | 1.1545 | 1.1611 |
| 49. | 4.00 | 1.1342 | 1.1336 | 1.1306 | 1.1277 | 1.1256 | 1.1256 | 1.1293 | 1.1339 | 1.1380 | 1.1417 | 1.1453 | 1.1493 | 1.1532 | 1.1580 |
| 50. | 3.83 | 1.1366 | 1.1361 | 1.1334 | 1.1309 | 1.1292 | 1.1304 | 1.1348 | 1.1395 | 1.1431 | 1.1456 | 1.1474 | 1.1491 | 1.1515 | 1.1545 |
| 51. | 3.67 | 1.1389 | 1.1384 | 1.1360 | 1.1338 | 1.1324 | 1.1350 | 1.1403 | 1.1454 | 1.1485 | 1.1497 | 1.1497 | 1.1496 | 1.1495 | 1.1505 |
| 52. | 3.50 | 1.1434 | 1.1428 | 1.1400 | 1.1374 | 1.1358 | 1.1391 | 1.1455 | 1.1514 | 1.1543 | 1.1543 | 1.1543 | 1.1523 | 1.1489 | 1.1483 |
| 53. | 3.33 | 1.1505 | 1.1498 | 1.1458 | 1.1422 | 1.1399 | 1.1432 | 1.1507 | 1.1574 | 1.1601 | 1.1601 | 1.1591 | 1.1555 | 1.1499 | 1.1480 |
| 54. | 3.17 | 1.1594 | 1.1585 | 1.1536 | 1.1489 | 1.1459 | 1.1483 | 1.1562 | 1.1633 | 1.1660 | 1.1660 | 1.1647 | 1.1605 | 1.1542 | 1.1519 |
| 55. | 3.00 | 1.1688 | 1.1679 | 1.1634 | 1.1590 | 1.1560 | 1.1574 | 1.1637 | 1.1696 | 1.1718 | 1.1718 | 1.1707 | 1.1672 | 1.1621 | 1.1602 |
| 56. | 2.83 | 1.1834 | 1.1827 | 1.1787 | 1.1747 | 1.1719 | 1.1711 | 1.1750 | 1.1788 | 1.1802 | 1.1802 | 1.1795 | 1.1773 | 1.1743 | 1.1731 |
| 57. | 2.67 | 1.2059 | 1.2050 | 1.2005 | 1.1960 | 1.1924 | 1.1909 | 1.1918 | 1.1926 | 1.1934 | 1.1934 | 1.1929 | 1.1917 | 1.1902 | 1.1896 |
| 58. | 2.50 | 1.2291 | 1.2281 | 1.2230 | 1.2177 | 1.2135 | 1.2104 | 1.2102 | 1.2100 | 1.2098 | 1.2092 | 1.2086 | 1.2079 | 1.2073 | 1.2067 |
| 59. | 2.33 | 1.2518 | 1.2508 | 1.2451 | 1.2392 | 1.2343 | 1.2307 | 1.2298 | 1.2289 | 1.2280 | 1.2279 | 1.2269 | 1.2256 | 1.2245 | 1.2236 |
| 60. | 2.17 | 1.2751 | 1.2740 | 1.2676 | 1.2611 | 1.2556 | 1.2514 | 1.2469 | 1.2458 | 1.2458 | 1.2451 | 1.2438 | 1.2424 | 1.2413 | 1.2402 |
| 61. | 2.00 | 1.2984 | 1.2971 | 1.2901 | 1.2829 | 1.2767 | 1.2719 | 1.2662 | 1.2641 | 1.2632 | 1.2619 | 1.2603 | 1.2587 | 1.2577 | 1.2563 |
| 62. | 1.83 | 1.3210 | 1.3196 | 1.3120 | 1.3041 | 1.2973 | 1.2918 | 1.2849 | 1.2818 | 1.2800 | 1.2781 | 1.2760 | 1.2743 | 1.2733 | 1.2716 |
| 63. | 1.67 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 64. | 1.50 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 65. | 1.33 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 66. | 1.17 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 67. | 1.00 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 68. | 0.83 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 69. | 0.67 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 70. | 0.50 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 71. | 0.33 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 72. | 0.17 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 73. | 0.00 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |

Bottom of core

* Distance from Bottom of Active Core (feet).



Table 2
Four and Three Loop Base Load W(Z) Function
Millstone Unit 3 - Cycle 6

| | | * Burnup Ranges (MWD/MTU) | | | | | | | | | | | | | |
|--------------------|--------|---------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Mesh | Axial | 0 | 150 | 1000 | 2000 | 3000 | 4000 | 6000 | 8000 | 10000 | 12000 | 14000 | 16000 | 18000 | 20000 |
| No. | Height | 150 | 1000 | 2000 | 3000 | 4000 | 6000 | 8000 | 10000 | 12000 | 14000 | 16000 | 18000 | 20000 | EOL |
| Top of Core | | | | | | | | | | | | | | | |
| 1. | 12.00 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 2. | 11.83 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 3. | 11.67 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 4. | 11.50 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 5. | 11.33 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 6. | 11.17 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 7. | 11.00 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 8. | 10.83 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 9. | 10.67 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 10. | 10.50 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 11. | 10.33 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 12. | 10.17 | 1.1874 | 1.1937 | 1.2011 | 1.2086 | 1.2160 | 1.2796 | 1.2686 | 1.2438 | 1.2179 | 1.2009 | 1.1917 | 1.1875 | 1.1860 | 1.1780 |
| 13. | 10.00 | 1.1771 | 1.1836 | 1.1912 | 1.1988 | 1.2065 | 1.2658 | 1.2566 | 1.2345 | 1.2114 | 1.1964 | 1.1887 | 1.1856 | 1.1850 | 1.1784 |
| 14. | 9.83 | 1.1633 | 1.1704 | 1.1787 | 1.1870 | 1.1954 | 1.2527 | 1.2454 | 1.2251 | 1.2038 | 1.1905 | 1.1886 | 1.1886 | 1.1836 | 1.1785 |
| 15. | 9.67 | 1.1487 | 1.1568 | 1.1664 | 1.1759 | 1.1855 | 1.2434 | 1.2366 | 1.2158 | 1.1940 | 1.1876 | 1.1876 | 1.1845 | 1.1813 | 1.1781 |
| 16. | 9.50 | 1.1365 | 1.1447 | 1.1545 | 1.1642 | 1.1739 | 1.2299 | 1.2242 | 1.2046 | 1.1842 | 1.1824 | 1.1807 | 1.1790 | 1.1772 | 1.1755 |
| 17. | 9.33 | 1.1240 | 1.1317 | 1.1407 | 1.1497 | 1.1588 | 1.2145 | 1.2104 | 1.1932 | 1.1751 | 1.1745 | 1.1740 | 1.1735 | 1.1729 | 1.1724 |
| 18. | 9.17 | 1.1116 | 1.1185 | 1.1265 | 1.1345 | 1.1426 | 1.1999 | 1.1973 | 1.1820 | 1.1666 | 1.1674 | 1.1681 | 1.1689 | 1.1697 | 1.1706 |
| 19. | 9.00 | 1.1063 | 1.1122 | 1.1192 | 1.1262 | 1.1332 | 1.1838 | 1.1818 | 1.1683 | 1.1564 | 1.1585 | 1.1606 | 1.1627 | 1.1647 | 1.1673 |
| 20. | 8.83 | 1.1057 | 1.1108 | 1.1168 | 1.1229 | 1.1289 | 1.1686 | 1.1664 | 1.1541 | 1.1451 | 1.1484 | 1.1517 | 1.1551 | 1.1584 | 1.1625 |
| 21. | 8.67 | 1.1057 | 1.1103 | 1.1157 | 1.1211 | 1.1265 | 1.1555 | 1.1522 | 1.1404 | 1.1342 | 1.1392 | 1.1441 | 1.1491 | 1.1541 | 1.1603 |
| 22. | 8.50 | 1.1065 | 1.1108 | 1.1158 | 1.1208 | 1.1258 | 1.1411 | 1.1363 | 1.1249 | 1.1237 | 1.1322 | 1.1407 | 1.1491 | 1.1576 | 1.1681 |
| 23. | 8.33 | 1.1067 | 1.1107 | 1.1154 | 1.1201 | 1.1248 | 1.1299 | 1.1249 | 1.1151 | 1.1086 | 1.1170 | 1.1312 | 1.1499 | 1.1605 | 1.1737 |
| 24. | 8.17 | 1.1065 | 1.1102 | 1.1146 | 1.1189 | 1.1233 | 1.1255 | 1.1212 | 1.1125 | 1.1081 | 1.1172 | 1.1319 | 1.1511 | 1.1623 | 1.1763 |
| 25. | 8.00 | 1.1051 | 1.1117 | 1.1160 | 1.1203 | 1.1247 | 1.1254 | 1.1213 | 1.1130 | 1.1096 | 1.1193 | 1.1346 | 1.1545 | 1.1662 | 1.1810 |
| 26. | 7.83 | 1.1103 | 1.1139 | 1.1182 | 1.1224 | 1.1267 | 1.1265 | 1.1227 | 1.1148 | 1.1124 | 1.1223 | 1.1379 | 1.1581 | 1.1702 | 1.1853 |
| 27. | 7.67 | 1.1111 | 1.1146 | 1.1187 | 1.1228 | 1.1269 | 1.1269 | 1.1237 | 1.1169 | 1.1159 | 1.1258 | 1.1411 | 1.1606 | 1.1726 | 1.1876 |
| 28. | 7.50 | 1.1111 | 1.1145 | 1.1184 | 1.1223 | 1.1263 | 1.1263 | 1.1238 | 1.1179 | 1.1187 | 1.1293 | 1.1449 | 1.1649 | 1.1775 | 1.1932 |
| 29. | 7.33 | 1.1104 | 1.1136 | 1.1173 | 1.1211 | 1.1248 | 1.1248 | 1.1228 | 1.1178 | 1.1205 | 1.1319 | 1.1483 | 1.1691 | 1.1824 | 1.1991 |
| 30. | 7.17 | 1.1089 | 1.1119 | 1.1154 | 1.1189 | 1.1224 | 1.1224 | 1.1209 | 1.1169 | 1.1213 | 1.1332 | 1.1501 | 1.1711 | 1.1850 | 1.2023 |
| 31. | 7.00 | 1.1067 | 1.1095 | 1.1127 | 1.1160 | 1.1193 | 1.1193 | 1.1183 | 1.1152 | 1.1211 | 1.1334 | 1.1505 | 1.1717 | 1.1860 | 1.2037 |
| 32. | 6.83 | 1.1037 | 1.1062 | 1.1092 | 1.1122 | 1.1152 | 1.1152 | 1.1147 | 1.1139 | 1.1201 | 1.1327 | 1.1499 | 1.1710 | 1.1855 | 1.2036 |
| 33. | 6.67 | 1.1001 | 1.1024 | 1.1050 | 1.1077 | 1.1104 | 1.1105 | 1.1106 | 1.1107 | 1.1181 | 1.1308 | 1.1479 | 1.1689 | 1.1834 | 1.2016 |
| 34. | 6.50 | 1.0964 | 1.0985 | 1.1010 | 1.1034 | 1.1059 | 1.1060 | 1.1067 | 1.1071 | 1.1147 | 1.1275 | 1.1445 | 1.1654 | 1.1800 | 1.1982 |
| 35. | 6.33 | 1.0934 | 1.0951 | 1.0971 | 1.0991 | 1.1011 | 1.1014 | 1.1014 | 1.1037 | 1.1114 | 1.1240 | 1.1405 | 1.1607 | 1.1749 | 1.1927 |
| 36. | 6.17 | 1.0911 | 1.0921 | 1.0933 | 1.0945 | 1.0958 | 1.0964 | 1.0973 | 1.1008 | 1.1087 | 1.1207 | 1.1361 | 1.1547 | 1.1682 | 1.1850 |
| 37. | 6.00 | 1.0883 | 1.0890 | 1.0897 | 1.0905 | 1.0913 | 1.0919 | 1.0930 | 1.0965 | 1.1041 | 1.1154 | 1.1298 | 1.1473 | 1.1599 | 1.1758 |
| 38. | 5.83 | 1.0849 | 1.0857 | 1.0865 | 1.0874 | 1.0883 | 1.0891 | 1.0903 | 1.0937 | 1.1007 | 1.1110 | 1.1240 | 1.1397 | 1.1512 | 1.1655 |
| 39. | 5.67 | 1.0823 | 1.0833 | 1.0845 | 1.0857 | 1.0870 | 1.0883 | 1.0899 | 1.0933 | 1.0997 | 1.1088 | 1.1202 | 1.1338 | 1.1440 | 1.1567 |
| 40. | 5.50 | 1.0833 | 1.0841 | 1.0850 | 1.0859 | 1.0868 | 1.0886 | 1.0907 | 1.0942 | 1.1003 | 1.1087 | 1.1190 | 1.1312 | 1.1405 | 1.1521 |
| 41. | 5.33 | 1.0860 | 1.0861 | 1.0863 | 1.0865 | 1.0868 | 1.0888 | 1.0914 | 1.0954 | 1.1014 | 1.1091 | 1.1185 | 1.1294 | 1.1378 | 1.1485 |

* Distance from Bottom of Active Core (feet).



Table 2 (cont.)
Four and Three Loop Base Load W(Z) Function
Millstone Unit 3 - Cycle 6

| | | * Burnup Ranges (MWD/MTU) | | | | | | | | | | | | | |
|------|--------|---------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Mesh | Axial | 0 | 150 | 1000 | 2000 | 3000 | 4000 | 6000 | 8000 | 10000 | 12000 | 14000 | 16000 | 18000 | 20000 |
| No. | Height | 150 | 1000 | 2000 | 3000 | 4000 | 6000 | 8000 | 10000 | 12000 | 14000 | 16000 | 18000 | 20000 | EOL |
| 42. | 5.17 | 1.0878 | 1.0876 | 1.0867 | 1.0865 | 1.0865 | 1.0882 | 1.0915 | 1.0959 | 1.1017 | 1.1087 | 1.1169 | 1.1262 | 1.1338 | 1.1433 |
| 43. | 5.00 | 1.0892 | 1.0889 | 1.0872 | 1.0858 | 1.0850 | 1.0872 | 1.0911 | 1.0961 | 1.1018 | 1.1082 | 1.1153 | 1.1234 | 1.1302 | 1.1387 |
| 44. | 4.83 | 1.0904 | 1.0900 | 1.0877 | 1.0857 | 1.0844 | 1.0859 | 1.0904 | 1.0959 | 1.1016 | 1.1074 | 1.1136 | 1.1204 | 1.1265 | 1.1341 |
| 45. | 4.67 | 1.0913 | 1.0908 | 1.0882 | 1.0858 | 1.0842 | 1.0844 | 1.0895 | 1.0955 | 1.1011 | 1.1062 | 1.1112 | 1.1166 | 1.1219 | 1.1285 |
| 46. | 4.50 | 1.0917 | 1.0911 | 1.0883 | 1.0858 | 1.0840 | 1.0827 | 1.0884 | 1.0950 | 1.1003 | 1.1047 | 1.1085 | 1.1124 | 1.1168 | 1.1223 |
| 47. | 4.33 | 1.0927 | 1.0921 | 1.0890 | 1.0862 | 1.0843 | 1.0812 | 1.0874 | 1.0942 | 1.0993 | 1.1029 | 1.1055 | 1.1079 | 1.1113 | 1.1155 |
| 48. | 4.17 | 1.0951 | 1.0944 | 1.0910 | 1.0877 | 1.0855 | 1.0804 | 1.0867 | 1.0935 | 1.0981 | 1.1007 | 1.1021 | 1.1030 | 1.1054 | 1.1084 |
| 49. | 4.00 | 1.0977 | 1.0970 | 1.0936 | 1.0903 | 1.0879 | 1.0805 | 1.0865 | 1.0929 | 1.0967 | 1.0983 | 1.0985 | 1.0985 | 1.0993 | 1.1009 |
| 50. | 3.83 | 1.1001 | 1.0994 | 1.0962 | 1.0930 | 1.0907 | 1.0816 | 1.0868 | 1.0922 | 1.0951 | 1.0956 | 1.0956 | 1.0947 | 1.0931 | 1.0933 |
| 51. | 3.67 | 1.1023 | 1.1017 | 1.0984 | 1.0953 | 1.0932 | 1.0833 | 1.0875 | 1.0918 | 1.0935 | 1.0935 | 1.0929 | 1.0909 | 1.0878 | 1.0869 |
| 52. | 3.50 | 1.1043 | 1.1037 | 1.1006 | 1.0977 | 1.0957 | 1.0855 | 1.0893 | 1.0927 | 1.0934 | 1.0934 | 1.0915 | 1.0878 | 1.0828 | 1.0804 |
| 53. | 3.33 | 1.1063 | 1.1057 | 1.1025 | 1.0996 | 1.0976 | 1.0876 | 1.0915 | 1.0947 | 1.0947 | 1.0946 | 1.0914 | 1.0860 | 1.0789 | 1.0750 |
| 54. | 3.17 | 1.1101 | 1.1094 | 1.1058 | 1.1023 | 1.1000 | 1.0900 | 1.0941 | 1.0972 | 1.0972 | 1.0964 | 1.0923 | 1.0856 | 1.0768 | 1.0717 |
| 55. | 3.00 | 1.1211 | 1.1202 | 1.1154 | 1.1107 | 1.1074 | 1.0962 | 1.1000 | 1.1026 | 1.1026 | 1.1013 | 1.0966 | 1.0892 | 1.0796 | 1.0739 |
| 56. | 2.83 | 1.1385 | 1.1373 | 1.1308 | 1.1243 | 1.1195 | 1.1083 | 1.1085 | 1.1088 | 1.1088 | 1.1067 | 1.1022 | 1.0961 | 1.0886 | 1.0836 |
| 57. | 2.67 | 1.1593 | 1.1577 | 1.1494 | 1.1412 | 1.1349 | 1.1266 | 1.1224 | 1.1187 | 1.1151 | 1.1116 | 1.1080 | 1.1045 | 1.1012 | 1.0977 |
| 58. | 2.50 | 1.1806 | 1.1789 | 1.1699 | 1.1609 | 1.1538 | 1.1458 | 1.1400 | 1.1335 | 1.1276 | 1.1228 | 1.1191 | 1.1163 | 1.1141 | 1.1108 |
| 59. | 2.33 | 1.2019 | 1.2002 | 1.1911 | 1.1818 | 1.1743 | 1.1650 | 1.1585 | 1.1508 | 1.1436 | 1.1377 | 1.1332 | 1.1297 | 1.1269 | 1.1228 |
| 60. | 2.17 | 1.2236 | 1.2218 | 1.2123 | 1.2025 | 1.1945 | 1.1845 | 1.1771 | 1.1679 | 1.1590 | 1.1520 | 1.1468 | 1.1429 | 1.1398 | 1.1351 |
| 61. | 2.00 | 1.2452 | 1.2434 | 1.2334 | 1.2231 | 1.2145 | 1.2040 | 1.1956 | 1.1848 | 1.1742 | 1.1661 | 1.1601 | 1.1558 | 1.1525 | 1.1471 |
| 62. | 1.83 | 1.2663 | 1.2644 | 1.2540 | 1.2432 | 1.2342 | 1.2230 | 1.2137 | 1.2012 | 1.1890 | 1.1798 | 1.1731 | 1.1682 | 1.1647 | 1.1586 |
| 63. | 1.67 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 64. | 1.50 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 65. | 1.33 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 66. | 1.17 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 67. | 1.00 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 68. | 0.83 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 69. | 0.67 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 70. | 0.50 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 71. | 0.33 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 72. | 0.17 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 73. | 0.00 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |

Bottom of Core

* Distance from Bottom of Active Core (feet).



Table 3
Three Loop RAOC W(Z) Function
Millstone Unit 3 - Cycle 6

| Mesh No. | Axial Height | Burnup Ranges (MWD/MTU) | | | | | | | | | | | | | |
|-------------|--------------|-------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | | 0 | 150 | 1000 | 2000 | 3000 | 4000 | 6000 | 8000 | 10000 | 12000 | 14000 | 16000 | 18000 | 20000 |
| | | 150 | 1000 | 2000 | 3000 | 4000 | 6000 | 8000 | 10000 | 12000 | 14000 | 16000 | 18000 | 20000 | EOL |
| Top of Core | | | | | | | | | | | | | | | |
| 1. | 12.00 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 2. | 11.83 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 3. | 11.67 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 4. | 11.50 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 5. | 11.33 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 6. | 11.17 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 7. | 11.00 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 8. | 10.83 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 9. | 10.67 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 10. | 10.50 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 11. | 10.33 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 12. | 10.17 | 1.3135 | 1.3540 | 1.3672 | 1.3779 | 1.3779 | 1.3444 | 1.3444 | 1.3413 | 1.3337 | 1.3241 | 1.3127 | 1.2989 | 1.2815 | 1.2684 |
| 13. | 10.00 | 1.2985 | 1.3423 | 1.3597 | 1.3748 | 1.3748 | 1.3423 | 1.3423 | 1.3314 | 1.3160 | 1.3025 | 1.2907 | 1.2787 | 1.2648 | 1.2520 |
| 14. | 9.83 | 1.2796 | 1.3282 | 1.3519 | 1.3731 | 1.3731 | 1.3446 | 1.3425 | 1.3208 | 1.2949 | 1.2762 | 1.2639 | 1.2548 | 1.2459 | 1.2337 |
| 15. | 9.67 | 1.2607 | 1.3151 | 1.3460 | 1.3746 | 1.3746 | 1.3530 | 1.3448 | 1.3090 | 1.2695 | 1.2591 | 1.2488 | 1.2384 | 1.2281 | 1.2177 |
| 16. | 9.50 | 1.2448 | 1.3037 | 1.3403 | 1.3746 | 1.3746 | 1.3586 | 1.3442 | 1.2957 | 1.2446 | 1.2380 | 1.2314 | 1.2248 | 1.2182 | 1.2116 |
| 17. | 9.33 | 1.2285 | 1.2910 | 1.3323 | 1.3713 | 1.3713 | 1.3599 | 1.3398 | 1.2801 | 1.2191 | 1.2166 | 1.2142 | 1.2117 | 1.2093 | 1.2068 |
| 18. | 9.17 | 1.2101 | 1.2760 | 1.3219 | 1.3654 | 1.3654 | 1.3587 | 1.3339 | 1.2643 | 1.1949 | 1.1954 | 1.1959 | 1.1965 | 1.1970 | 1.1977 |
| 19. | 9.00 | 1.1938 | 1.2629 | 1.3131 | 1.3609 | 1.3609 | 1.3584 | 1.3314 | 1.2552 | 1.1806 | 1.1823 | 1.1840 | 1.1857 | 1.1874 | 1.1895 |
| 20. | 8.83 | 1.1804 | 1.2517 | 1.3048 | 1.3556 | 1.3562 | 1.3562 | 1.3288 | 1.2497 | 1.1711 | 1.1720 | 1.1730 | 1.1740 | 1.1749 | 1.1761 |
| 21. | 8.67 | 1.1705 | 1.2426 | 1.2969 | 1.3490 | 1.3510 | 1.3510 | 1.3241 | 1.2444 | 1.1638 | 1.1634 | 1.1629 | 1.1624 | 1.1620 | 1.1615 |
| 22. | 8.50 | 1.1658 | 1.2383 | 1.2932 | 1.3459 | 1.3485 | 1.3485 | 1.3215 | 1.2412 | 1.1607 | 1.1613 | 1.1619 | 1.1625 | 1.1631 | 1.1638 |
| 23. | 8.33 | 1.1630 | 1.2356 | 1.2908 | 1.3436 | 1.3466 | 1.3466 | 1.3190 | 1.2380 | 1.1586 | 1.1608 | 1.1629 | 1.1650 | 1.1671 | 1.1698 |
| 24. | 8.17 | 1.1589 | 1.2318 | 1.2873 | 1.3405 | 1.3440 | 1.3440 | 1.3160 | 1.2342 | 1.1563 | 1.1602 | 1.1641 | 1.1660 | 1.1718 | 1.1767 |
| 25. | 8.00 | 1.1545 | 1.2286 | 1.2857 | 1.3404 | 1.3454 | 1.3454 | 1.3176 | 1.2350 | 1.1572 | 1.1620 | 1.1669 | 1.1717 | 1.1766 | 1.1826 |
| 26. | 7.83 | 1.1498 | 1.2254 | 1.2844 | 1.3411 | 1.3479 | 1.3479 | 1.3203 | 1.2364 | 1.1584 | 1.1643 | 1.1702 | 1.1761 | 1.1820 | 1.1894 |
| 27. | 7.67 | 1.1445 | 1.2213 | 1.2817 | 1.3399 | 1.3482 | 1.3482 | 1.3207 | 1.2358 | 1.1582 | 1.1655 | 1.1727 | 1.1800 | 1.1872 | 1.1963 |
| 28. | 7.50 | 1.1388 | 1.2165 | 1.2783 | 1.3378 | 1.3474 | 1.3474 | 1.3199 | 1.2341 | 1.1569 | 1.1654 | 1.1739 | 1.1824 | 1.1909 | 1.2015 |
| 29. | 7.33 | 1.1328 | 1.2114 | 1.2743 | 1.3349 | 1.3457 | 1.3457 | 1.3182 | 1.2314 | 1.1546 | 1.1642 | 1.1738 | 1.1834 | 1.1929 | 1.2049 |
| 30. | 7.17 | 1.1270 | 1.2061 | 1.2698 | 1.3312 | 1.3429 | 1.3429 | 1.3152 | 1.2276 | 1.1512 | 1.1618 | 1.1724 | 1.1830 | 1.1936 | 1.2068 |
| 31. | 7.00 | 1.1217 | 1.2010 | 1.2650 | 1.3268 | 1.3390 | 1.3390 | 1.3110 | 1.2227 | 1.1467 | 1.1582 | 1.1697 | 1.1813 | 1.1928 | 1.2072 |
| 32. | 6.83 | 1.1173 | 1.1964 | 1.2603 | 1.3220 | 1.3342 | 1.3342 | 1.3057 | 1.2168 | 1.1412 | 1.1535 | 1.1659 | 1.1782 | 1.1905 | 1.2059 |
| 33. | 6.67 | 1.1137 | 1.1922 | 1.2555 | 1.3166 | 1.3285 | 1.3285 | 1.2991 | 1.2097 | 1.1347 | 1.1477 | 1.1608 | 1.1738 | 1.1869 | 1.2032 |
| 34. | 6.50 | 1.1100 | 1.1878 | 1.2502 | 1.3105 | 1.3219 | 1.3219 | 1.2915 | 1.2015 | 1.1269 | 1.1406 | 1.1543 | 1.1681 | 1.1818 | 1.1989 |
| 35. | 6.33 | 1.1070 | 1.1837 | 1.2450 | 1.3041 | 1.3145 | 1.3145 | 1.2836 | 1.1938 | 1.1198 | 1.1338 | 1.1477 | 1.1616 | 1.1755 | 1.1929 |
| 36. | 6.17 | 1.1049 | 1.1802 | 1.2399 | 1.2975 | 1.3067 | 1.3067 | 1.2759 | 1.1875 | 1.1146 | 1.1280 | 1.1415 | 1.1549 | 1.1684 | 1.1852 |
| 37. | 6.00 | 1.1023 | 1.1764 | 1.2347 | 1.2909 | 1.2989 | 1.2989 | 1.2687 | 1.1821 | 1.1101 | 1.1228 | 1.1355 | 1.1482 | 1.1610 | 1.1768 |
| 38. | 5.83 | 1.1031 | 1.1755 | 1.2319 | 1.2862 | 1.2926 | 1.2926 | 1.2631 | 1.1791 | 1.1088 | 1.1208 | 1.1327 | 1.1446 | 1.1565 | 1.1714 |
| 39. | 5.67 | 1.1101 | 1.1802 | 1.2336 | 1.2849 | 1.2885 | 1.2885 | 1.2602 | 1.1801 | 1.1124 | 1.1232 | 1.1339 | 1.1447 | 1.1554 | 1.1688 |
| 40. | 5.50 | 1.1214 | 1.1888 | 1.2387 | 1.2864 | 1.2865 | 1.2865 | 1.2595 | 1.1841 | 1.1206 | 1.1308 | 1.1410 | 1.1511 | 1.1613 | 1.1740 |
| 41. | 5.33 | 1.1339 | 1.1984 | 1.2446 | 1.2886 | 1.2886 | 1.2851 | 1.2597 | 1.1896 | 1.1311 | 1.1411 | 1.1510 | 1.1609 | 1.1708 | 1.1832 |

* Distance from Bottom of Active Core (feet).



Table 3 (cont.)
Three Loop RAOC W(Z) Function
Millstone Unit 3 - Cycle 6

| | | Burnup Ranges (MWD/MTU) | | | | | | | | | | | | | |
|------|--------|-------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Mesh | Axial | 0 | 150 | 1000 | 2000 | 3000 | 4000 | 6000 | 8000 | 10000 | 12000 | 14000 | 16000 | 18000 | 20000 |
| No. | Height | 150 | 1000 | 2000 | 3000 | 4000 | 6000 | 8000 | 10000 | 12000 | 14000 | 16000 | 18000 | 20000 | EOL |
| 42. | 5.17 | 1.1456 | 1.2072 | 1.2497 | 1.2901 | 1.2901 | 1.2829 | 1.2596 | 1.1952 | 1.1414 | 1.1505 | 1.1595 | 1.1686 | 1.1776 | 1.1889 |
| 43. | 5.00 | 1.1563 | 1.2151 | 1.2539 | 1.2906 | 1.2906 | 1.2799 | 1.2586 | 1.1999 | 1.1507 | 1.1587 | 1.1668 | 1.1748 | 1.1829 | 1.1929 |
| 44. | 4.83 | 1.1666 | 1.2224 | 1.2577 | 1.2907 | 1.2907 | 1.2764 | 1.2571 | 1.2041 | 1.1594 | 1.1665 | 1.1736 | 1.1807 | 1.1878 | 1.1966 |
| 45. | 4.67 | 1.1767 | 1.2298 | 1.2614 | 1.2909 | 1.2909 | 1.2731 | 1.2558 | 1.2084 | 1.1682 | 1.1744 | 1.1806 | 1.1869 | 1.1931 | 1.2009 |
| 46. | 4.50 | 1.1869 | 1.2372 | 1.2654 | 1.2913 | 1.2913 | 1.2702 | 1.2549 | 1.2128 | 1.1772 | 1.1826 | 1.1880 | 1.1934 | 1.1988 | 1.2055 |
| 47. | 4.33 | 1.1969 | 1.2446 | 1.2693 | 1.2918 | 1.2918 | 1.2674 | 1.2540 | 1.2173 | 1.1860 | 1.1906 | 1.1951 | 1.1997 | 1.2042 | 1.2099 |
| 48. | 4.17 | 1.2064 | 1.2516 | 1.2731 | 1.2923 | 1.2923 | 1.2647 | 1.2533 | 1.2219 | 1.1947 | 1.1982 | 1.2018 | 1.2053 | 1.2088 | 1.2132 |
| 49. | 4.00 | 1.2154 | 1.2581 | 1.2765 | 1.2927 | 1.2927 | 1.2621 | 1.2531 | 1.2274 | 1.2041 | 1.2062 | 1.2083 | 1.2104 | 1.2125 | 1.2151 |
| 50. | 3.83 | 1.2249 | 1.2651 | 1.2804 | 1.2933 | 1.2933 | 1.2597 | 1.2535 | 1.2341 | 1.2146 | 1.2148 | 1.2150 | 1.2152 | 1.2154 | 1.2157 |
| 51. | 3.67 | 1.2363 | 1.2738 | 1.2855 | 1.2949 | 1.2949 | 1.2578 | 1.2545 | 1.2418 | 1.2282 | 1.2240 | 1.2240 | 1.2220 | 1.2199 | 1.2178 |
| 52. | 3.50 | 1.2503 | 1.2848 | 1.2925 | 1.2980 | 1.2980 | 1.2569 | 1.2560 | 1.2496 | 1.2418 | 1.2359 | 1.2315 | 1.2279 | 1.2242 | 1.2198 |
| 53. | 3.33 | 1.2646 | 1.2959 | 1.2995 | 1.3008 | 1.3008 | 1.2568 | 1.2568 | 1.2566 | 1.2547 | 1.2509 | 1.2454 | 1.2382 | 1.2293 | 1.2229 |
| 54. | 3.17 | 1.2785 | 1.3056 | 1.3056 | 1.3046 | 1.3023 | 1.2581 | 1.2636 | 1.2672 | 1.2672 | 1.2658 | 1.2598 | 1.2502 | 1.2377 | 1.2303 |
| 55. | 3.00 | 1.2960 | 1.3209 | 1.3209 | 1.3173 | 1.3130 | 1.2672 | 1.2747 | 1.2802 | 1.2802 | 1.2801 | 1.2747 | 1.2653 | 1.2528 | 1.2460 |
| 56. | 2.83 | 1.3183 | 1.3436 | 1.3436 | 1.3399 | 1.3352 | 1.2858 | 1.2907 | 1.2947 | 1.2947 | 1.2943 | 1.2900 | 1.2827 | 1.2733 | 1.2680 |
| 57. | 2.67 | 1.3451 | 1.3714 | 1.3714 | 1.3678 | 1.3629 | 1.3110 | 1.3112 | 1.3113 | 1.3113 | 1.3101 | 1.3067 | 1.3018 | 1.2961 | 1.2923 |
| 58. | 2.50 | 1.3751 | 1.4022 | 1.4022 | 1.3986 | 1.3932 | 1.3392 | 1.3343 | 1.3317 | 1.3298 | 1.3274 | 1.3246 | 1.3216 | 1.3189 | 1.3162 |
| 59. | 2.33 | 1.4067 | 1.4343 | 1.4343 | 1.4303 | 1.4244 | 1.3683 | 1.3608 | 1.3551 | 1.3507 | 1.3471 | 1.3443 | 1.3425 | 1.3416 | 1.3394 |
| 60. | 2.17 | 1.4383 | 1.4664 | 1.4664 | 1.4621 | 1.4555 | 1.3977 | 1.3883 | 1.3805 | 1.3742 | 1.3696 | 1.3664 | 1.3646 | 1.3644 | 1.3619 |
| 61. | 2.00 | 1.4699 | 1.4984 | 1.4984 | 1.4937 | 1.4866 | 1.4271 | 1.4161 | 1.4067 | 1.3989 | 1.3932 | 1.3893 | 1.3872 | 1.3868 | 1.3838 |
| 62. | 1.83 | 1.5008 | 1.5296 | 1.5296 | 1.5244 | 1.5168 | 1.4556 | 1.4432 | 1.4322 | 1.4231 | 1.4163 | 1.4117 | 1.4090 | 1.4082 | 1.4045 |
| 63. | 1.67 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 64. | 1.50 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 65. | 1.33 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 66. | 1.17 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 67. | 1.00 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 68. | 0.83 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 69. | 0.67 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 70. | 0.50 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 71. | 0.33 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 72. | 0.17 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 73. | 0.00 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |

Bottom of core

* Distance from Bottom of Active Core (feet).