



**James D. Blankenship**  
Site Vice President  
R.E. Ginna Nuclear Power Plant  
1503 Lake Rd.  
Ontario, NY 14519  
315-791-5200 Office  
james.blankenship@constellation.com  
www.constellation.com

May 1, 2023

U.S. Nuclear Regulatory Commission  
ATTN: Document Control Desk  
Washington, DC 20555-0001

R.E. Ginna Nuclear Power Plant  
Renewed Facility Operating License No. DPR-18  
NRC Docket No. 50-244

Subject: R.E. Ginna Nuclear Power Plant Core Operating Limits Report Cycle 44, Revision 0

Enclosed is a copy of the R.E. Ginna Nuclear Power Plant Core Operating Limits Report (COLR) Cycle 44, Revision 0. It changed Section 2.11 (updated the factor of safety to a revised bounding number) and Tables COLR-1, COLR-2, and COLR-3 with reload design-specific values.

This cycle revision of the COLR is being submitted to the NRC in accordance with the R.E. Ginna Nuclear Power Plant Technical Specifications, Section 5.6.5.d.

There are no regulatory commitments contained in this letter.

Should you have any questions regarding this submittal, please contact Justin Knowles at 315-791-3393.

Respectfully,

A handwritten signature in black ink, appearing to read "James D. Blankenship".

James D. Blankenship

Attachment: R.E. Ginna Nuclear Power Plant Core Operating Limits Report Cycle 44, Revision 0

cc: NRC Regional Administrator, Region I  
NRC Project Manager, Ginna  
NRC Senior Resident Inspector, Ginna

**ATTACHMENT**

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**R.E. Ginna Nuclear Power Plant  
Core Operating Limits Report, Cycle 44  
Revision 0**

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**R.E. Ginna Nuclear Power Plant, LLC  
May 1, 2023**

R. E. Ginna Nuclear Power Plant

**Core Operating Limits Report**  
**COLR**

Cycle 44

Revision 0

Responsible Manager:

  
\_\_\_\_\_

Effective Date:

04/19/23  
\_\_\_\_\_

## 1.0 CORE OPERATING LIMITS REPORT

This Core Operating Limits Report (COLR) for the R. E. Ginna Nuclear Power Plant has been prepared in accordance with the requirements of Technical Specification 5.6.5.

The Technical Specifications affected by this report are listed below:

- 2.1 Safety Limits (SLs)
  - 3.1.1 SHUTDOWN MARGIN (SDM)
  - 3.1.3 Moderator Temperature Coefficient (MTC)
  - 3.1.4 Rod Group Alignment Limits
  - 3.1.5 Shutdown Bank Insertion Limit
  - 3.1.6 Control Bank Insertion Limits
  - 3.1.8 PHYSICS TESTS Exceptions – MODE 2
  - 3.2.1 Heat Flux Hot Channel Factor ( $F_Q(Z)$ )
  - 3.2.2 Nuclear Enthalpy Rise Hot Channel Factor ( $F_{\Delta H}^N$ )
  - 3.2.3 AXIAL FLUX DIFFERENCE (AFD)
  - 3.3.1 Reactor Trip System (RTS) Instrumentation
  - 3.4.1 RCS Pressure, Temperature, and Flow Departure from Nucleate Boiling (DNB) Limits
  - 3.4.5 RCS Loops – MODES 1  $\leq$  8.5% RTP, 2, and 3
  - 3.9.1 Boron Concentration

## 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 5.6.5. All items that appear in capitalized type are defined in Technical Specification 1.1, Definitions.

### 2.1 SAFETY LIMITS (SLs)<sup>1</sup>

(2.1)

2.1.1 In MODES 1 and 2, the combination of THERMAL POWER, Reactor Coolant System (RCS) average temperature, and pressurizer pressure shall not exceed the SLs specified in Figure COLR-1.

### 2.2 SHUTDOWN MARGIN (SDM)<sup>1</sup>

(LCO 3.1.1, LCO 3.1.4, LCO 3.1.5, LCO 3.1.6, LCO 3.1.8, and LCO 3.4.5)

2.2.1 The SHUTDOWN MARGIN in MODE 2 with  $K_{\text{eff}} < 1.0$  and MODES 3 and 4 shall be greater than or equal to the limits specified in Figure COLR-2 for the number of reactor coolant pumps in operation.

2.2.2 The SHUTDOWN MARGIN in MODE 4 when both reactor coolant pumps are not in operation and in MODE 5 shall be greater than or equal to the one loop operation curve of Figure COLR-2.

2.2.3 The SHUTDOWN MARGIN required in LCO 3.1.4, LCO 3.1.5, LCO 3.1.6, LCO 3.1.8, and LCO 3.4.5 shall be greater than the limits specified in Figure COLR-2 for the number of reactor coolant pumps in operation.

### 2.3 Moderator Temperature Coefficient (MTC)<sup>1</sup>

(LCO 3.1.3)

2.3.1 The Moderator Temperature Coefficient (MTC) limits are:

The BOL ARO/HZP - MTC shall be equal to or less positive than +5.0 pcm/°F for power levels below 70% RTP and less than or equal to 0 pcm/°F for power levels at or above 70% RTP.

The EOL ARO/RTP - MTC shall be less negative than -44.6 pcm/°F.

where:

ARO stands for All Rods Out

BOL stands for Beginning of Cycle Life

EOL stands for End of Cycle Life

HZP stands for Hot Zero Power

RTP stands for RATED THERMAL POWER

## 2.4 Shutdown Bank Insertion Limit<sup>1</sup>

(LCO 3.1.5)

2.4.1 The shutdown bank shall be fully withdrawn which is defined as  $\geq 220$  steps.

## 2.5 Control Bank Insertion Limits<sup>1</sup>

(LCO 3.1.6)

2.5.1 The control banks shall be limited in physical insertion as shown in Figure COLR-3. Control Bank A shall be at least 220 steps withdrawn.

2.5.2 The control rod banks shall be withdrawn maintaining a nominal 130 step tip-to-tip distance while moving in overlap through the active core region.

## 2.6 Heat Flux Hot Channel Factor ( $F_Q(Z)$ )<sup>2</sup>

(LCO 3.2.1)

2.6.1  $F_Q(Z) \leq CFQ * K(Z) / P$  for  $P > 0.5$

$F_Q(Z) \leq CFQ * K(Z) / 0.5$  for  $P \leq 0.5$

where:

CFQ is the  $F_Q(Z)$  limit

$P = \text{THERMAL POWER} / \text{RATED THERMAL POWER}$

Z is the height of the core

2.6.2  $CFQ = 2.60$

2.6.3  $K(Z)$  is provided in Figure COLR-4

2.6.4  $W(Z)$  values are provided in Table COLR-1. For  $W(Z)$  data at a desired burnup not listed in the table, but less than the maximum listed burnup, values at 3 or more burnup steps should be used to interpolate the  $W(Z)$  data to the desired burnup with a polynomial type fit that uses the  $W(Z)$  data for the nearest three burnup steps.

For W(Z) data at a desired burnup outside of the listed burnup steps, a linear extrapolation of the W(Z) data for the nearest two burnup steps can be used. If data are listed for only two burnup steps, a linear fit can be used for both interpolation and extrapolation.

2.6.5 The  $F_Q(Z)$  penalty factors are provided in Table COLR-2.

2.6.6 Table COLR-3 provides W(Z) values for the BOC startup flux map to be taken prior to exceeding 50% then 75% power. For part power surveillances during other times in life or at powers other than those listed in Table COLR-3, the W(Z) values in Table COLR-1 should be used. The W(Z) values in Table COLR-3 do not include the 1/P factor, where P is the surveillance power level. This factor will be applied by the BEACON™ Core Monitoring System.

2.6.7 Table COLR-4 contains the required operating space reduction values for THERMAL POWER and AXIAL FLUX DIFFERENCE (AFD) when  $F_Q^W(Z)$  is not within its limits. These values are used in conjunction with Technical Specification LCO 3.2.1 Required Actions B.1 and B.2.

## 2.7 Nuclear Enthalpy Rise Hot Channel Factor ( $F_{\Delta H}^N$ )<sup>1</sup>

(LCO 3.2.2)

$$2.7.1 \quad F_{\Delta H}^N \leq F_{\Delta H}^{RTP} * (1 + PF_{\Delta H} * (1-P))$$

where:

$$F_{\Delta H}^{RTP} = 1.72$$

$$PF_{\Delta H} = 0.3, \text{ and}$$

$$P = \text{THERMAL POWER} / \text{RATED THERMAL POWER}$$

## 2.8 AXIAL FLUX DIFFERENCE (AFD)<sup>3</sup>

(LCO 3.2.3)

2.8.1 The AFD acceptable operation limits are provided in Figure COLR-5. These limits may be modified in accordance with Table COLR-4 if Technical Specification LCO 3.2.1 Required Actions B.1 and B.2 must be taken.

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## 2.9 Reactor Trip System (RTS) Instrumentation<sup>5</sup>

(LCO 3.3.1)

### 2.9.1 Overtemperature $\Delta T$ Setpoint Parameter Values

<u>Parameter</u>	<u>Value</u>
Overtemperature $\Delta T$ reactor trip setpoint	$K_1 \leq 1.19$
Overtemperature $\Delta T$ reactor trip depressurization setpoint penalty coefficient	$K_2 \geq 0.00093/\text{psi}$
Overtemperature $\Delta T$ reactor trip heatup setpoint coefficient	$K_3 \geq 0.0185/^\circ\text{F penalty}$
Measured lead time constant	$\tau_1 \geq 25 \text{ seconds}$
Measured lag time constant	$\tau_2 \leq 5 \text{ seconds}$

$f_1(\Delta I)$  is a function of the indicated difference between top and bottom detectors of the power range nuclear ion chambers. Selected gains are based on measured instrument response during plant startup tests, where  $q_t$  and  $q_b$  are percent RATED THERMAL POWER in the upper and lower halves of the core, respectively, and  $q_t + q_b$  is the total percent RATED THERMAL POWER, such that:

- For  $q_t - q_b$  between -14% and +6%,  $f_1(\Delta I) = 0$ .
- For each percent that the magnitude of  $q_t - q_b$  exceeds -14%, the  $\Delta T$  trip setpoint shall be automatically reduced by an equivalent of 3.08% of RATED THERMAL POWER.
- For each percent that the magnitude of  $q_t - q_b$  exceeds +6%, the  $\Delta T$  trip setpoint shall be automatically reduced by an equivalent of 2.27% of RATED THERMAL POWER.



### 2.9.2 Overpower $\Delta T$ Setpoint Parameter Values

<u>Parameter</u>	<u>Value</u>
Overpower $\Delta T$ reactor trip setpoint	$K_4 \leq 1.077$
Overpower $\Delta T$ reactor trip heatup setpoint penalty coefficient	$K_5 = 0/^\circ\text{F}$ for $T < T'$ $\geq 0.0014/^\circ\text{F}$ for $T \geq T'$
Overpower $\Delta T$ reactor trip thermal time delay setpoint penalty	$K_6 \geq 0.00/^\circ\text{F}$ for increasing T $= 0.00/^\circ\text{F}$ for decreasing T
Measured impulse/lag time constant	$\tau_3 = 0$ seconds

$f_2(\Delta I) = 0.0\%$  RTP for all  $\Delta I$

## 2.10 RCS Pressure, Temperature, and Flow Departure from Nucleate Boiling (DNB) Limits<sup>4</sup>

(LCO 3.4.1)

2.10.1 The pressurizer pressure shall be  $\geq 2175$  psig.

2.10.2 The RCS average temperature shall be  $\leq 580.0^\circ\text{F}$ .

2.10.3 The RCS total flow rate shall be  $\geq 177,300$  gpm (includes 4% minimum flow uncertainty per Revised Thermal Design Methodology).

## 2.11 Boron Concentration<sup>1</sup>

(LCO 3.9.1)

2.11.1 The boron concentrations of the hydraulically coupled Reactor Coolant System, the refueling canal, and the refueling cavity shall be  $\geq 2750$  ppm. Boron concentration based on All Rods In less the highest worth rod with a K-effective of 0.95. A 170 ppm Factor of Safety has been included in this parameter.

## 3.0 REFERENCES

1. WCAP-9272-P-A, "Westinghouse Reload Safety Evaluation Methodology," July 1985.
2. WCAP-10054-P-A and WCAP-10081-A, "Westinghouse Small Break ECCS Evaluation Model Using the NOTRUMP Code," August 1985.
3. WCAP-10054-P-A, Addendum 2, Revision 1, "Addendum to the Westinghouse Small Break ECCS Evaluation Model Using the NOTRUMP Code: Safety Injection into the Broken Loop and COSI Condensation Model," July 1997.

4. WCAP-11145-P-A, "Westinghouse Small Break LOCA ECCS Evaluation Model Generic Study with the NOTRUMP Code," October 1986.
5. WCAP-10079-P-A, "NOTRUMP - A Nodal Transient Small Break and General Network Code," August 1985.
6. WCAP-16009-P-A, "Realistic Large-Break LOCA Evaluation Methodology Using the Automated Statistical Treatment of Uncertainty Method (ASTRUM)," January 2005.
7. WCAP-12610-P-A, "VANTAGE+ Fuel Assembly Reference Core Report," April 1995.
8. WCAP-10216-P-A, Revision 1A, "Relaxation of Constant Axial Offset Control  $F_Q$  - Surveillance Technical Specification," February 1994.
9. WCAP-11397-P-A, "Revised Thermal Design Procedure," April 1989.
10. WCAP-14710-P-A, "1-D Heat Conduction Model for Annular Fuel Pellets," May 1998.
11. WCAP-8745-P-A, "Design Basis for the Thermal Overpower  $\Delta T$  and Thermal Overtemperature  $\Delta T$  Trip Functions," September 1986.
12. WCAP-12610-P-A & CENPD-404-P-A, Addendum 1-A, "Optimized ZIRLO™," July 2006.

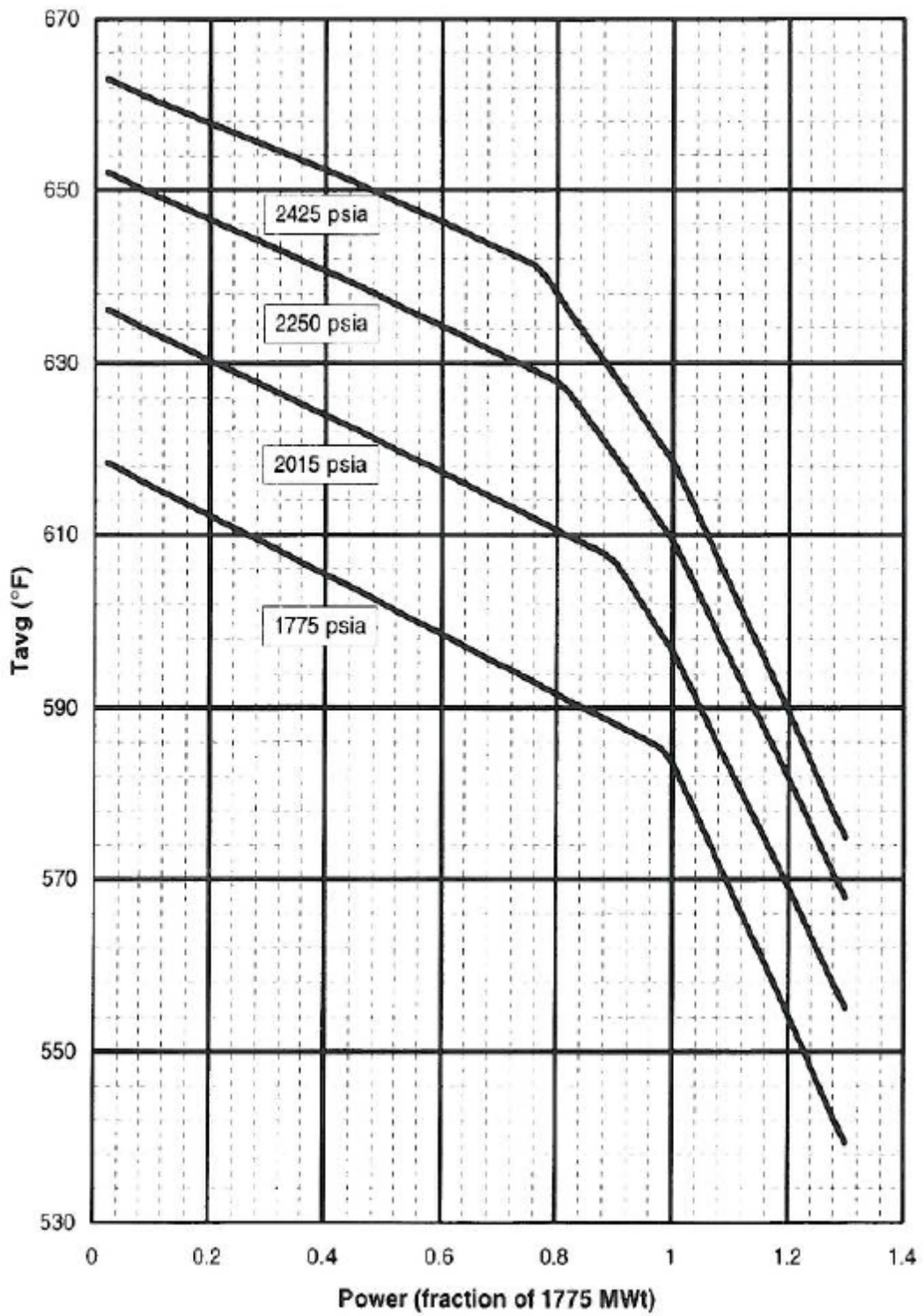


Figure COLR-1  
Reactor Safety Limits

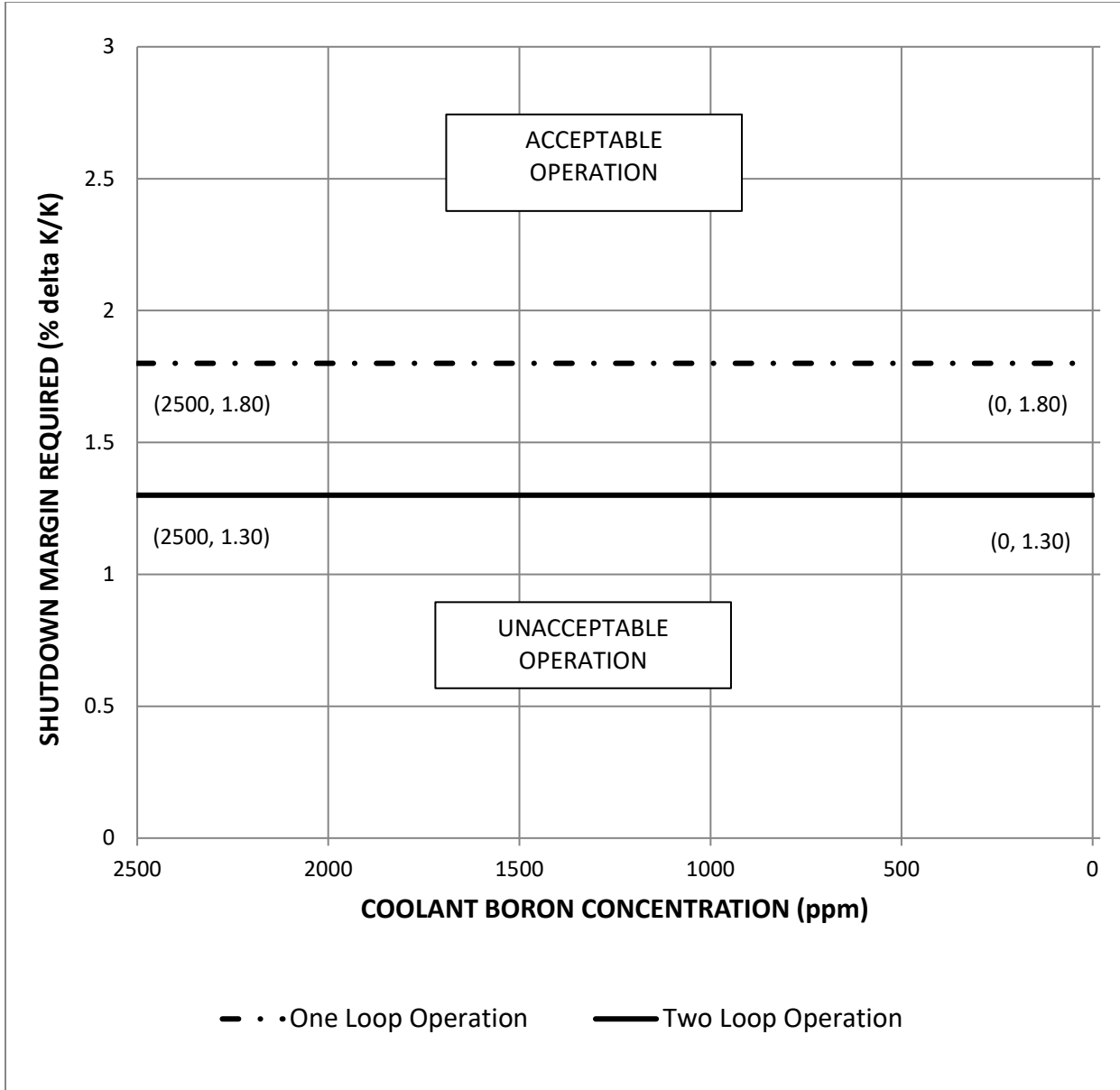
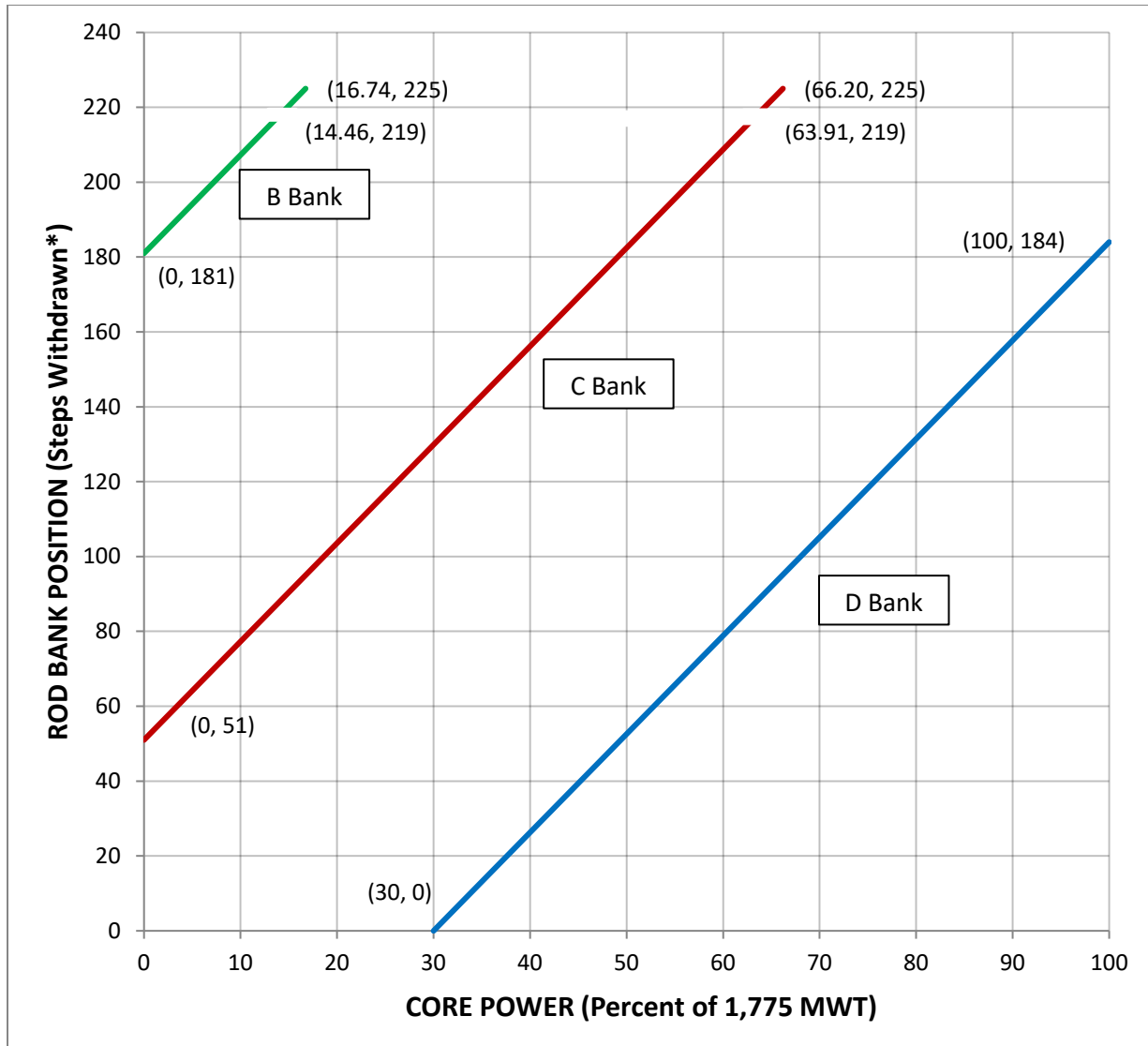


Figure COLR-2  
REQUIRED SHUTDOWN MARGIN



\*The top of the active fuel corresponds to 219. The ARO parking position may be any position above the corresponding top of active fuel for each respective bank. The control rod tip-to-tip distance is defined as 130 steps while rods are moving in overlap. The bank positions are given as follows:

- **Bank D:**  $(184/70) * (P-100) + 184$  (for  $30 \leq P \leq 100$ )
- **Bank C:**  $(184/70) * (P-100) + 184 + 130$  (for  $0 \leq P \leq 66.20$ )
- **Bank B:**  $(184/70) * (P-100) + 184 + 130 + 130$  (for  $0 \leq P \leq 16.74$ )

Where P is defined as the core power (in percent).

Figure COLR-3  
CONTROL BANK INSERTION LIMITS

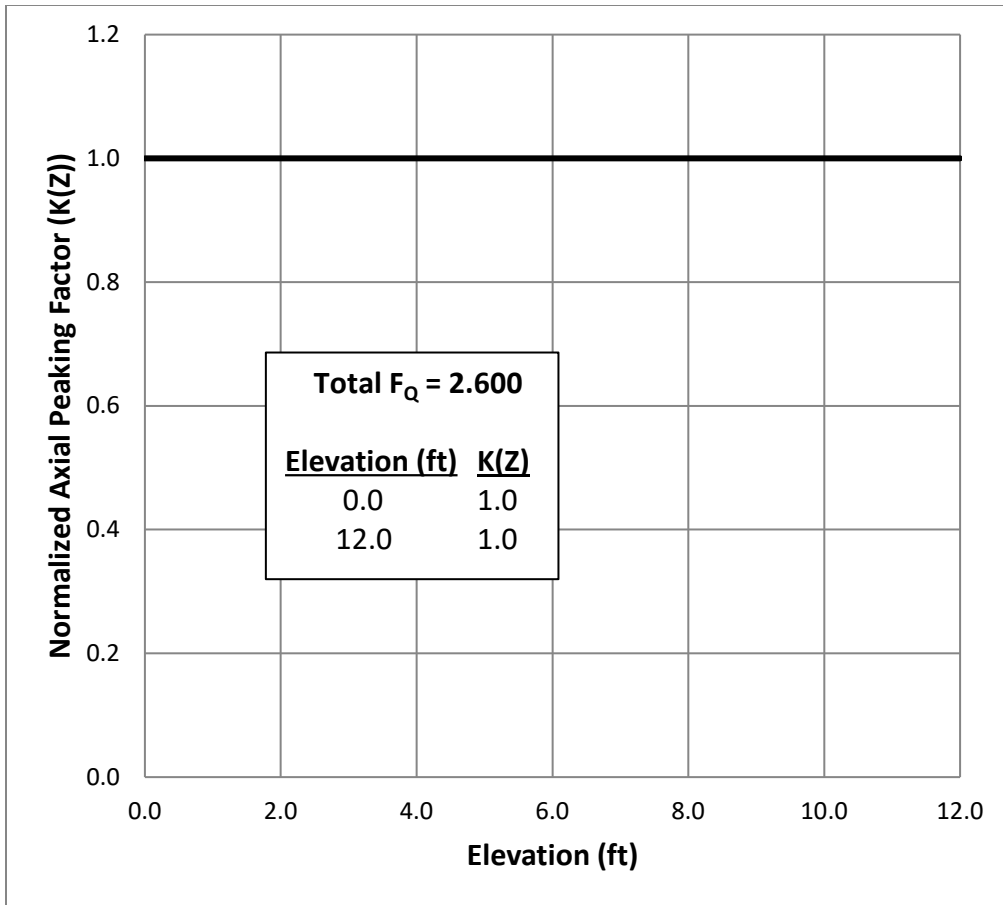


Figure COLR-4  
K(Z) – NORMALIZED  $F_Q(Z)$  AS A FUNCTION OF CORE HEIGHT

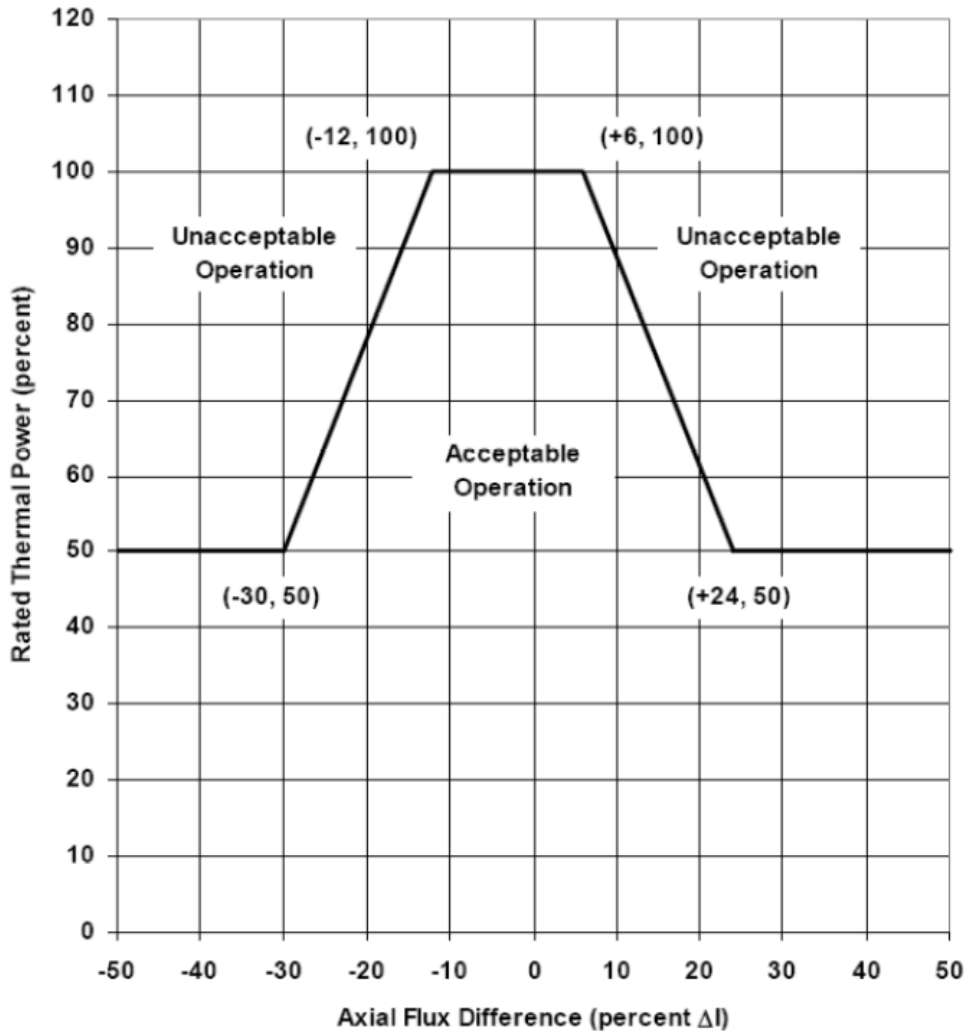


Figure COLR-5  
AXIAL FLUX DIFFERENCE ACCEPTABLE OPERATION LIMITS AS A  
FUNCTION OF RATED THERMAL POWER

**Table COLR-1**  
RAOC Summary of W(Z) with HFP %AFD Band of -12/+6%  
(Top 8% and Bottom 8% Excluded)

<b>Height (feet)</b>	<b>150 MWD/MTU</b>	<b>2000 MWD/MTU</b>	<b>10000 MWD/MTU</b>	<b>16000 MWD/MTU</b>
(Bottom) 0.00	1.0000	1.0000	1.0000	1.0000
0.17	1.0000	1.0000	1.0000	1.0000
0.33	1.0000	1.0000	1.0000	1.0000
0.50	1.0000	1.0000	1.0000	1.0000
0.67	1.0000	1.0000	1.0000	1.0000
0.83	1.0000	1.0000	1.0000	1.0000
1.00	1.3669	1.3557	1.2698	1.2747
1.17	1.3563	1.3449	1.2616	1.2667
1.33	1.3445	1.3328	1.2521	1.2574
1.50	1.3311	1.3188	1.2408	1.2463
1.67	1.3175	1.3034	1.2286	1.2341
1.83	1.3044	1.2879	1.2160	1.2218
2.00	1.2896	1.2720	1.2015	1.2080
2.17	1.2741	1.2562	1.1882	1.1932
2.33	1.2594	1.2412	1.1779	1.1793
2.50	1.2440	1.2250	1.1677	1.1670
2.67	1.2276	1.2089	1.1573	1.1568
2.83	1.2129	1.1943	1.1476	1.1486
3.00	1.2051	1.1805	1.1392	1.1418
3.17	1.2010	1.1721	1.1335	1.1375
3.33	1.1956	1.1700	1.1302	1.1359
3.50	1.1897	1.1675	1.1265	1.1348
3.67	1.1836	1.1640	1.1225	1.1345
3.83	1.1773	1.1605	1.1194	1.1349
4.00	1.1702	1.1563	1.1172	1.1348
4.17	1.1637	1.1515	1.1154	1.1339
4.33	1.1584	1.1467	1.1131	1.1327
4.50	1.1524	1.1412	1.1104	1.1310
4.67	1.1458	1.1354	1.1075	1.1289
4.83	1.1393	1.1295	1.1044	1.1265
5.00	1.1320	1.1229	1.1009	1.1234
5.17	1.1244	1.1160	1.0970	1.1201
5.33	1.1170	1.1092	1.0935	1.1165
5.50	1.1081	1.1018	1.0924	1.1112
5.67	1.1009	1.0941	1.0926	1.1089
5.83	1.0996	1.0880	1.0956	1.1118



**Table COLR-1 (Continued)**  
 RAOC Summary of W(Z) with HFP %AFD Band of -12/+6%  
 (Top 8% and Bottom 8% Excluded)

<b>Height (feet)</b>	<b>150 MWD/MTU</b>	<b>2000 MWD/MTU</b>	<b>10000 MWD/MTU</b>	<b>16000 MWD/MTU</b>
6.00	1.1009	1.0901	1.1003	1.1170
6.17	1.1052	1.0975	1.1062	1.1234
6.33	1.1082	1.1029	1.1123	1.1286
6.50	1.1106	1.1081	1.1184	1.1335
6.67	1.1131	1.1131	1.1238	1.1378
6.83	1.1164	1.1172	1.1283	1.1410
7.00	1.1196	1.1209	1.1326	1.1443
7.17	1.1220	1.1241	1.1366	1.1473
7.33	1.1236	1.1267	1.1400	1.1493
7.50	1.1247	1.1291	1.1429	1.1505
7.67	1.1250	1.1309	1.1450	1.1508
7.83	1.1246	1.1319	1.1462	1.1502
8.00	1.1234	1.1322	1.1468	1.1486
8.17	1.1213	1.1317	1.1462	1.1461
8.33	1.1185	1.1303	1.1447	1.1435
8.50	1.1149	1.1284	1.1441	1.1409
8.67	1.1098	1.1249	1.1442	1.1408
8.83	1.1035	1.1199	1.1448	1.1449
9.00	1.1026	1.1207	1.1485	1.1506
9.17	1.1050	1.1270	1.1573	1.1559
9.33	1.1120	1.1318	1.1643	1.1604
9.50	1.1193	1.1399	1.1710	1.1637
9.67	1.1263	1.1509	1.1770	1.1672
9.83	1.1344	1.1595	1.1814	1.1734
10.00	1.1413	1.1681	1.1869	1.1815
10.17	1.1451	1.1767	1.1936	1.1898
10.33	1.1497	1.1836	1.1991	1.1973
10.50	1.1530	1.1882	1.2016	1.2021
10.67	1.1503	1.1902	1.2034	1.2037
10.83	1.1474	1.1914	1.2086	1.2043
11.00	1.1421	1.1878	1.2098	1.2009
11.17	1.0000	1.0000	1.0000	1.0000
11.33	1.0000	1.0000	1.0000	1.0000
11.50	1.0000	1.0000	1.0000	1.0000
11.67	1.0000	1.0000	1.0000	1.0000
11.83	1.0000	1.0000	1.0000	1.0000
12.00 (Top)	1.0000	1.0000	1.0000	1.0000

**Table COLR-2**  
Penalty Factor for Increasing  $F_Q$

<b>Cycle Burnup (MWD/MTU)<sup>(a)</sup></b>	<b>Penalty Factor (%)</b>	<b>Penalty Multiplier</b>
≥150	2.00	1.020

(a) A penalty multiplier is not required for part power surveillances during startup. The penalty factor should be applied beginning with the first full power surveillance.

**Table COLR-3**  
Part-Power W(Z) Generated at  
150 MWD/MTU, 75% and 50% Power  
(Top 8% and Bottom 8% Excluded)

<b>Height (feet)</b>	<b>HFP ARO</b>	<b>75% D at 180 Steps</b>	<b>50% D at 169 Steps</b>
(Bottom) 0.00	1.0000	1.0000	1.0000
0.17	1.0000	1.0000	1.0000
0.33	1.0000	1.0000	1.0000
0.50	1.0000	1.0000	1.0000
0.67	1.0000	1.0000	1.0000
0.83	1.0000	1.0000	1.0000
1.00	1.3669	1.4238	1.5304
1.17	1.3563	1.4095	1.5117
1.33	1.3445	1.3941	1.4919
1.50	1.3311	1.3764	1.4679
1.67	1.3175	1.3586	1.4440
1.83	1.3044	1.3417	1.4213
2.00	1.2896	1.3227	1.3964
2.17	1.2741	1.3030	1.3707
2.33	1.2594	1.2847	1.3466
2.50	1.2440	1.2653	1.3214
2.67	1.2276	1.2449	1.2952
2.83	1.2129	1.2265	1.2717
3.00	1.2051	1.2151	1.2552
3.17	1.2010	1.2075	1.2427
3.33	1.1956	1.1986	1.2294
3.50	1.1897	1.1891	1.2152
3.67	1.1836	1.1792	1.2009
3.83	1.1773	1.1695	1.1871
4.00	1.1702	1.1591	1.1728
4.17	1.1637	1.1494	1.1595
4.33	1.1584	1.1410	1.1479
4.50	1.1524	1.1320	1.1350
4.67	1.1458	1.1224	1.1217
4.83	1.1393	1.1131	1.1091
5.00	1.1320	1.1029	1.0959
5.17	1.1244	1.0926	1.0827
5.33	1.1170	1.0828	1.0703
5.50	1.1081	1.0723	1.0569
5.67	1.1009	1.0638	1.0455
5.83	1.0996	1.0611	1.0401

**Table COLR-3 (Continued)**  
 Part-Power W(Z) Generated at  
 150 MWD/MTU, 75% and 50% Power  
 (Top 8% and Bottom 8% Excluded)

<b>Height (feet)</b>	<b>HFP ARO</b>	<b>75% D at 180 Steps</b>	<b>50% D at 169 Steps</b>
6.00	1.1009	1.0601	1.0366
6.17	1.1052	1.0617	1.0357
6.33	1.1082	1.0621	1.0340
6.50	1.1106	1.0623	1.0316
6.67	1.1131	1.0627	1.0296
6.83	1.1164	1.0640	1.0288
7.00	1.1196	1.0653	1.0279
7.17	1.1220	1.0658	1.0266
7.33	1.1236	1.0661	1.0258
7.50	1.1247	1.0662	1.0243
7.67	1.1250	1.0659	1.0222
7.83	1.1246	1.0653	1.0205
8.00	1.1234	1.0641	1.0180
8.17	1.1213	1.0624	1.0151
8.33	1.1185	1.0606	1.0120
8.50	1.1149	1.0583	1.0087
8.67	1.1098	1.0549	1.0045
8.83	1.1035	1.0505	0.9996
9.00	1.1026	1.0519	0.9999
9.17	1.1050	1.0568	1.0038
9.33	1.1120	1.0663	1.0119
9.50	1.1193	1.0764	1.0199
9.67	1.1263	1.0868	1.0277
9.83	1.1344	1.0981	1.0364
10.00	1.1413	1.1083	1.0436
10.17	1.1451	1.1156	1.0479
10.33	1.1497	1.1235	1.0529
10.50	1.1530	1.1303	1.0573
10.67	1.1503	1.1313	1.0564
10.83	1.1474	1.1319	1.0558
11.00	1.1421	1.1309	1.0554
11.17	1.0000	1.0000	1.0000
11.33	1.0000	1.0000	1.0000
11.50	1.0000	1.0000	1.0000
11.67	1.0000	1.0000	1.0000
11.83	1.0000	1.0000	1.0000
12.00 (Top)	1.0000	1.0000	1.0000

**Table COLR-4**  
Required Operating Space Reduction When  $F_Q^W(Z)$  Exceeds Its Limits

Required $F_Q^W(Z)$ Margin Improvement	THERMAL POWER Reduction (% RTP)	Negative AFD Band Reduction (% AFD)	Positive AFD Band Reduction (% AFD)
$\leq 1\%$	$\geq 3\%$	$\geq 1\%$	$\geq 1\%$
$> 1\%$ AND $\leq 2\%$	$\geq 6\%$	$\geq 2\%$	$\geq 2\%$
$> 2\%$ AND $\leq 3\%$	$\geq 9\%$	$\geq 3\%$	$\geq 3\%$
$> 3\%$	$\geq 50\%$	N/A	N/A

## End Notes

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1. Limits generated using Reference 1.
2. Limits generated using References 1 through 8 and 10.
3. Limits generated using References 1 and 8.
4. Limits generated using Reference 9.
5. Limits generated using Reference 11.