



Gary R. Peterson
Vice President

Duke Power
Catawba Nuclear Station
4800 Concord Road
York, SC 29745
(803) 831-4251 OFFICE
(803) 831-3426 FAX

March 27, 2000

U.S. Nuclear Regulatory Commission
ATTENTION: Document Control Desk
Washington, D.C. 20555

Subject: Duke Energy Corporation
Catawba Nuclear Station Unit 1 and 2
Docket No.: 50-413, 50-414
Core Operating Limits Report (COLR)

Attached, pursuant to Catawba Technical Specification 5.6.5, is an information copy of the revisions to the Core Operating Limits Report for Catawba Unit 2 Cycle 11 and Catawba Unit 1 Cycle 12. Revision 17 to the Unit 2 COLR is being made to update the limits for the new Catawba 2 Cycle 11 reload core. Along with the power distribution surveillance data (Appendix A) which changes each cycle, this revision also includes the following changes:

1. The 31-day EFPD Penalty Factor information has been added as Table 1.
2. The K(Z) curves for MkbW and Westinghouse RFA fuel, Figures 3 and 4, have been updated to correspond to the Westinghouse LOCA analyses.
3. The FAH LCO MARP table has been relocated from Appendix A, Table 7 to Table 2. Appendix A now contains only cycle specific power distribution surveillance Monitoring Factors.
4. The Full Power Negative AFD limit shown in Figure 5 has been reduced from -20% to -18%.
5. The column labels for Sections 2.8.1 and 2.8.2 have been changed from "Value" to "Nominal Value".
6. COLR sections 2.25, 2.26 and 2.27 have been rearranged to be sequentially consistent with the Selected Licensee Commitments (SLC). The contents of these sections were not changed.

A001

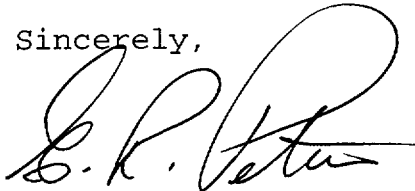
U. S. Nuclear Regulatory Commission
March 27, 2000
Page 2

Revision 17 to the Unit 1 COLR incorporates the following changes:

1. The 31-day EFPD Penalty Factor information has been added as Table 1a. Since the C1C12 core does not contain any Westinghouse RFA fuel, the peaking factors have been set to 2%, which matches the values previously located in the Technical Specifications. Therefore, this revision simply moves the peaking penalty from the Technical Specifications to the COLR.
2. The column labels for Sections 2.8.1 and 2.8.2 have been changed from "Value" to "Nominal Value".

Please direct any questions or concerns to Martha Purser at (803) 831-4015.

Sincerely,

A handwritten signature in black ink, appearing to read "G. R. Peterson". The signature is fluid and cursive, with a large loop at the top.

G. R. Peterson

Attachment

U. S. Nuclear Regulatory Commission
March 27, 2000
Page 3

xc w/att: L. A. Reyes, Regional, Administrator
USNRC, Region II

C. P. Patel, Project Manager
USNRC, ONRR

D. J. Roberts
Senior Resident Inspector (CNS)

Catawba Unit 1 Cycle 12
Core Operating Limits Report
Revision 17

February 2000

Duke Power Company

		Date
Prepared By:	<u>Scott B. Thomas</u>	<u>2/29/00</u>
Checked By:	<u>Nicholas R Hager</u>	<u>2/29/00</u>
Checked By:	<u>N/A</u>	<u></u>
Approved By:	<u>P.m. Abraham</u>	<u>2/29/00</u>

QA Condition 1

The contents of this document have been reviewed to verify that no material herein either directly or indirectly changes or affects the results and conclusions presented in the 10CFR50.59 Catawba 1 Cycle 12 Reload Safety Evaluation.

Catawba 1 Cycle 12 Core Operating Limits Report

IMPLEMENTATION INSTRUCTIONS FOR REVISION 17

Revision 17 of the Catawba Unit 1 COLR incorporates a relocation of the 31 EFPD peaking penalty factor from Technical Specifications 3.2.1 and 3.2.2 to the COLR. Therefore, this revision of the COLR should be issued before or concurrently with Amendment No. 180 of the Catawba Unit 1 Technical Specifications.

Catawba 1 Cycle 12 Core Operating Limits Report

REVISION LOG

<u>Revision</u>	<u>Effective Date</u>	<u>Pages Affected</u>	<u>COLR</u>
Original Issue	September 8, 1992	N/A	C1C07 COLR
Revision 1	October 10, 1992	N/A	C1C07 COLR rev 1
Revision 2	December 1, 1993	N/A	C1C08 COLR
Revision 3	April 14, 1994	N/A	C1C08 COLR rev 1
Revision 4	October 24, 1994	N/A	C1C08 COLR rev 2
Revision 5	November 30, 1994	N/A	C1C08 COLR rev 3
Revision 6	February 15, 1995	N/A	C1C09 COLR
Revision 7	April 12, 1995	N/A	C1C09 COLR rev 1
Revision 8	September 28, 1995	N/A	C1C09 COLR rev 2
Revision 9	August 2, 1996	N/A	C1C10 COLR
Revision 10	May 28, 1997	N/A	C1C10 COLR rev 1
Revision 11	July 1997	N/A	C1C10 COLR rev 2
Revision 12	November 1997	N/A	C1C11 COLR
Revision 13	August 1998	N/A	C1C11 COLR rev 1
Revision 14	December 1998	N/A	C1C11 COLR rev 2
Revision 15	April 1999	ALL	C1C12 COLR
Revision 16	May 1999	1-4,20-24	C1C12 COLR, rev 1
Revision 17	February 2000	1-25	C1C12 COLR, rev 2

Catawba 1 Cycle 12 Core Operating Limits Report

INSERTION SHEET FOR REVISION 17

Remove pages

Pages 1-24

Insert Rev. 17 pages

Pages 1-25

Catawba 1 Cycle 12 Core Operating Limits Report

1.0 Core Operating Limits Report

This Core Operating Limits Report (COLR) has been prepared in accordance with the requirements of the Technical Specification.

The Technical Specifications that reference this report are listed below:

<u>TS Section</u>	<u>Technical Specifications</u>	<u>COLR Section</u>	<u>Page</u>
3.1.1	Shutdown Margin	2.1	6
3.1.3	Moderator Temperature Coefficient	2.2	6
3.1.4	Shutdown Margin	2.1	6
3.1.5	Shutdown Margin	2.1	6
3.1.5	Shutdown Bank Insertion Limit	2.3	7
3.1.6	Shutdown Margin	2.1	6
3.1.6	Control Bank Insertion Limit	2.4	7
3.2.1	Heat Flux Hot Channel Factor	2.5	10
3.2.2	Nuclear Enthalpy Rise Hot Channel Factor	2.6	16
3.2.3	Axial Flux Difference	2.7	17
3.3.1	Reactor Trip System Instrumentation Setpoint	2.8	19
3.3.9	Boron Dilution Mitigation System	2.9	21
3.5.1	Accumulators	2.10	21
3.5.4	Refueling Water Storage Tank	2.11	21
3.7.15	Spent Fuel Pool Boron Concentration	2.12	22
3.9.1	Refueling Operations - Boron Concentration	2.13	22
3.9.2	Refueling Operations – Instrumentation	2.14	22

The Selected Licensee Commitments that reference this report are listed below:

<u>SLC Section</u>	<u>Selected License Commitment</u>	<u>Section</u>	<u>Page</u>
16.9-11	Borated Water Source – Shutdown	2.15	23
16.9-12	Borated Water Source – Operating	2.16	24
16.7-9.3	Standby Makeup Pump Water Supply	2.17	25

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 NRC approved methodologies specified in Technical Specification 5.6.5.

Catawba 1 Cycle 12 Core Operating Limits Report

2.1 Shutdown Margin - SDM (TS 3.1.1, TS 3.1.4, TS 3.1.5, TS 3.1.6)

- 2.1.1 For TS 3.1.1, shutdown margin shall be $\geq 1.3\% \Delta K/K$ in mode 2 with $K_{eff} < 1.0$ and in modes 3 and 4.
- 2.1.2 For TS 3.1.1, shutdown margin shall be $\geq 1.0\% \Delta K/K$ in mode 5.
- 2.1.3 For TS 3.1.4, shutdown margin shall be $\geq 1.3\% \Delta K/K$ in mode 1 and mode 2.
- 2.1.4 For TS 3.1.5, shutdown margin shall be $\geq 1.3\% \Delta K/K$ in mode 1 and mode 2 with any control bank not fully inserted.
- 2.1.5 For TS 3.1.6, shutdown margin shall be $\geq 1.3\% \Delta K/K$ in mode 1 and mode 2 with $K_{eff} \geq 1.0$.

2.2 Moderator Temperature Coefficient - MTC (TS 3.1.3)

- 2.2.1 The Moderator Temperature Coefficient (MTC) Limits are:

The MTC shall be less positive than the upper limits shown in Figure 1. The BOC, ARO, HZP MTC shall be less positive than $0.7E-04 \Delta K/K/^\circ F$.

The EOC, ARO, RTP MTC shall be less negative than the $-4.1E-04 \Delta K/K/^\circ F$ lower MTC limit.

- 2.2.2 The 300 ppm MTC Surveillance Limit is:

The measured 300 PPM ARO, equilibrium RTP MTC shall be less negative than or equal to $-3.2E-04 \Delta K/K/^\circ F$.

- 2.2.3 The 60 PPM MTC Surveillance Limit is:

The 60 PPM ARO, equilibrium RTP MTC shall be less negative than or equal to $-3.85E-04 \Delta K/K/^\circ F$.

Where:

- BOC = Beginning of Cycle
- EOC = End of Cycle
- ARO = All Rods Out
- HZP = Hot Zero Thermal Power
- RTP = Rated Thermal Power
- PPM = Parts per million (Boron)

Catawba 1 Cycle 12 Core Operating Limits Report

2.3 Shutdown Bank Insertion Limit (TS 3.1.5)

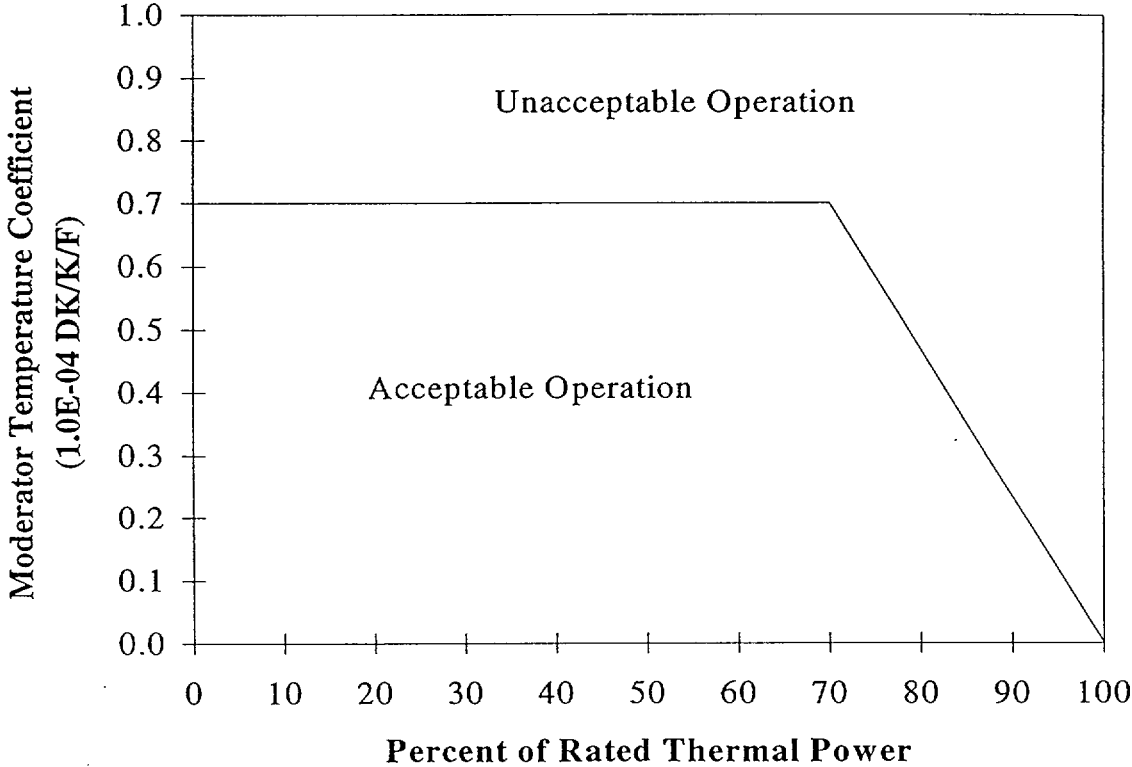
2.3.1 Each shutdown bank shall be withdrawn to at least 226 steps.

2.4 Control Bank Insertion Limits (TS 3.1.6)

2.4.1 Control banks shall be within the insertion, sequence, and overlap limits shown in Figure 2.

Catawba 1 Cycle 12 Core Operating Limits Report

Figure 1
Moderator Temperature Coefficient Upper Limit Versus Power Level

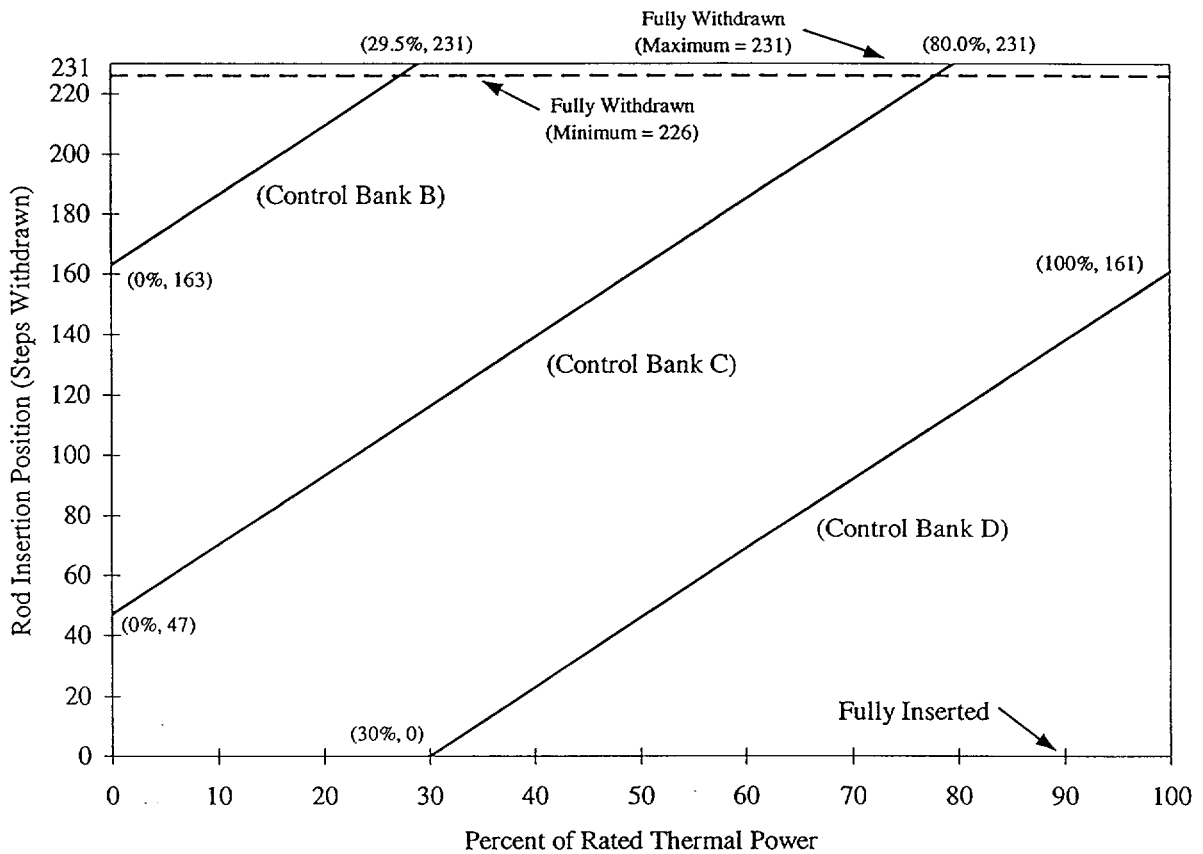


NOTE: Compliance with Technical Specification 3.1.3 may require rod withdrawal limits. Refer to the Unit 1 ROD manual for details.

Catawba 1 Cycle 12 Core Operating Limits Report

Figure 2

Control Bank Insertion Limits Versus Percent Rated Thermal Power



NOTE: Compliance with Technical Specification 3.1.3 may require rod withdrawal limits. Refer to the Unit 1 ROD manual for details.

Catawba 1 Cycle 12 Core Operating Limits Report

2.5 Heat Flux Hot Channel Factor - $F_Q(X,Y,Z)$ (TS 3.2.1)

2.5.1 $F_Q(X,Y,Z)$ steady-state limits are defined by the following relationships:

$$\begin{aligned} F_Q^{RTP} * K(Z) / P & \quad \text{for } P > 0.5 \\ F_Q^{RTP} * K(Z) / 0.5 & \quad \text{for } P \leq 0.5 \end{aligned}$$

where,

$$P = (\text{Thermal Power}) / (\text{Rated Power})$$

Note: The measured $F_Q(X,Y,Z)$ shall be increased by 3% to account for manufacturing tolerances and 5% to account for measurement uncertainty when comparing against the limits. The manufacturing tolerance and measurement uncertainty are implicitly included in the F_Q surveillance limits as defined in COLR Sections 2.5.5 and 2.5.6.

2.5.2 $F_Q^{RTP} = 2.50 \times K(\text{BU})$

2.5.3 $K(Z)$ is the normalized $F_Q(X,Y,Z)$ as a function of core height for MkbW fuel and is provided in Figure 3.

2.5.4 $K(\text{BU})$ is the normalized $F_Q(X,Y,Z)$ as a function of burnup for MkbW fuel and is provided in Figure 4.

The following parameters are required for core monitoring per the Surveillance Requirements of Technical Specification 3.2.1:

2.5.5 $[F_Q^L(X,Y,Z)]^{OP} = \frac{F_Q^D(X,Y,Z) * M_Q(X,Y,Z)}{UMT * MT * TILT}$

where:

$[F_Q^L(X,Y,Z)]^{OP}$ = Cycle dependent maximum allowable design peaking factor that ensures that the $F_Q(X,Y,Z)$ LOCA limit is not exceeded for operation within the AFD, RIL, and QPTR limits.
 $F_Q^L(X,Y,Z)^{OP}$ includes allowances for calculational and measurement uncertainties.

Catawba 1 Cycle 12 Core Operating Limits Report

$F_Q^D(X,Y,Z)$ = Design power distribution for F_Q . $F_Q^D(X,Y,Z)$ is provided in Table 1, Appendix A, for normal operating conditions and in Table 2, Appendix A for power escalation testing during initial startup operation.

$M_Q(X,Y,Z)$ = Margin remaining in core location X,Y,Z to the LOCA limit in the transient power distribution. $M_Q(X,Y,Z)$ is provided in Table 1, Appendix A for normal operating conditions and in Table 2, Appendix A for power escalation testing during initial startup operation.

UMT = Total Peak Measurement Uncertainty. (UMT = 1.05)

MT = Engineering Hot Channel Factor. (MT = 1.03)

TILT = Peaking penalty that accounts for allowable quadrant power tilt ratio of 1.02. (TILT = 1.035)

NOTE: $F_Q^L(X,Y,Z)^{OP}$ is the parameter identified as $F_Q^{MAX}(X,Y,Z)$ in DPC-NE-2011PA.

$$2.5.6 \quad [F_Q^L(X,Y,Z)]^{RPS} = \frac{F_Q^D(X,Y,Z) * M_C(X,Y,Z)}{UMT * MT * TILT}$$

where:

$[F_Q^L(X,Y,Z)]^{RPS}$ = Cycle dependent maximum allowable design peaking factor that ensures that the $F_Q(X,Y,Z)$ Centerline Fuel Melt (CFM) limit is not exceeded for operation within the AFD, RIL, and QPRT limits. $[F_Q^L(X,Y,Z)]^{RPS}$ includes allowances for calculational and measurement uncertainties.

$F_Q^D(X,Y,Z)$ = Design power distributions for F_Q . $F_Q^D(X,Y,Z)$ is provided in Table 1, Appendix A for normal operating conditions and in Table 2, Appendix A for power escalation testing during initial startup operations.

$M_C(X,Y,Z)$ = Margin remaining to the CFM limit in core location X,Y,Z from the transient power distribution. $M_C(X,Y,Z)$ calculations parallel the $M_Q(X,Y,Z)$ calculations described in DPC-NE-2011PA, except that the LOCA limit is replaced with the CFM limit. $M_C(X,Y,Z)$ is provided in Table 3, Appendix A for

Catawba 1 Cycle 12 Core Operating Limits Report

normal operating conditions and in Table 4, Appendix A for power escalation testing during initial startup operations.

UMT = Measurement Uncertainty (UMT = 1.05)

MT = Engineering Hot Channel Factor (MT = 1.03)

TILT = Peaking penalty that accounts for allowable quadrant power tilt ratio of 1.02. (TILT = 1.035)

NOTE: $[F_Q^L(X,Y,Z)]^{RPS}$ is the parameter identified as $F_Q^{MAX}(X,Y,Z)$ in DPC-NE-2011PA, except that $M_Q(X,Y,Z)$ is replaced by $M_C(X,Y,Z)$.

2.5.7 KSLOPE = 0.0725

where:

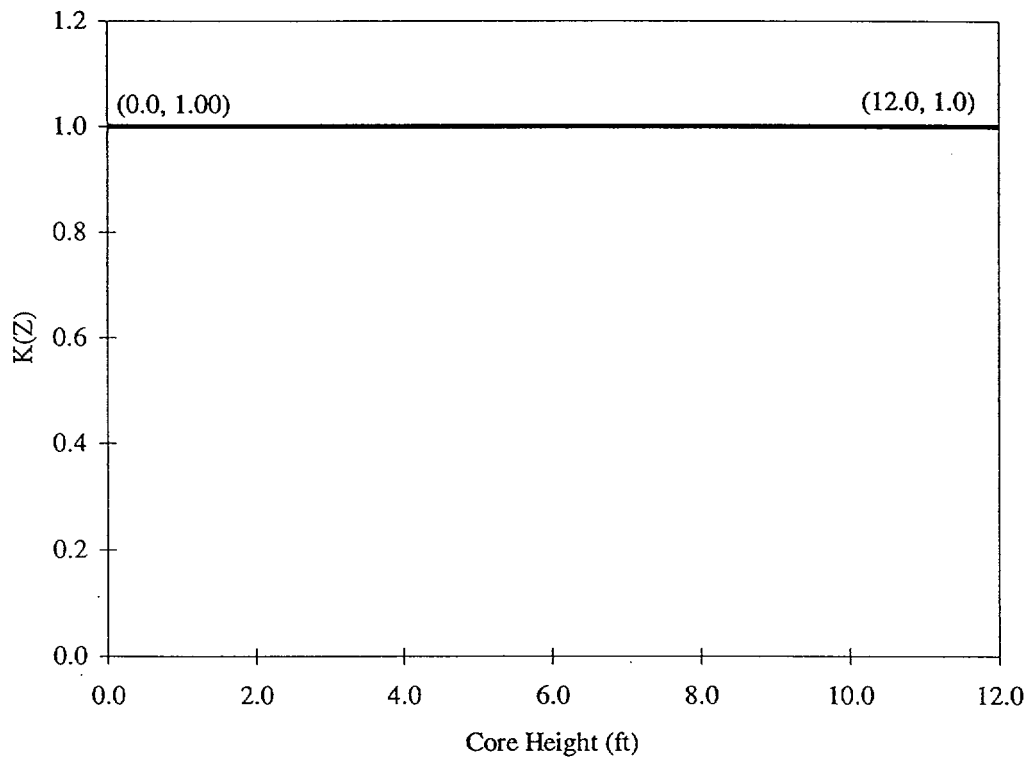
KSLOPE = the adjustment to the K_1 value from OTΔT trip setpoint required to compensate for each 1% that $F_Q^M(X,Y,Z)$ exceeds $F_Q^L(X,Y,Z)^{RPS}$.

2.5.8 $F_Q(X,Y,Z)$ Penalty Factors for Technical Specification Surveillances 3.2.1.2 and 3.2.1.3 are provided in Table 1a.

Catawba 1 Cycle 12 Core Operating Limits Report

Figure 3

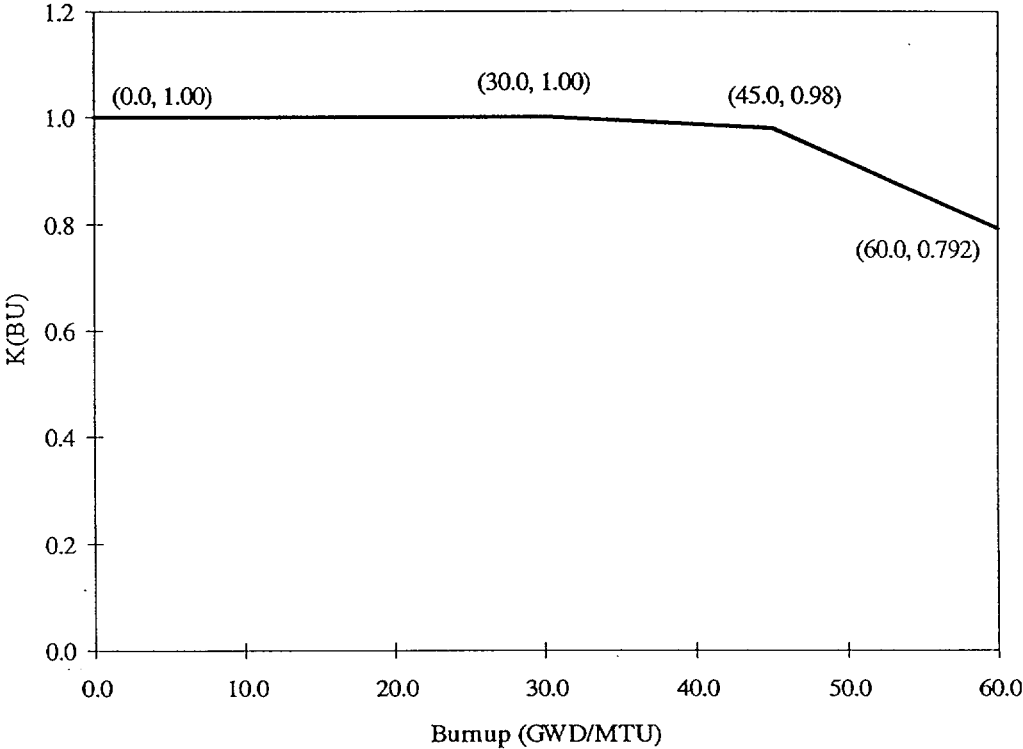
$K(Z)$, Normalized $F_Q(X,Y,Z)$ as a Function of Core Height for MkBW Fuel



Catawba 1 Cycle 12 Core Operating Limits Report

Figure 4

K(BU), Normalized $F_Q(X,Y,Z)$ as a Function of Burnup for MkBW Fuel



Catawba 1 Cycle 12 Core Operating Limits Report

Table 1a

**$F_Q(X,Y,Z)$ and $F_{\Delta H}(X,Y)$ Penalty Factors
For Tech Spec Surveillances 3.2.1.2, 3.2.1.3 and 3.2.2.2**

Burnup (EFPD)	$F_Q(X,Y,Z)$ Penalty Factor(%)	$F_{\Delta H}(X,Y)$ Penalty Factor (%)
4	2.00	2.00
12	2.00	2.00
25	2.00	2.00
50	2.00	2.00
75	2.00	2.00
100	2.00	2.00
125	2.00	2.00
150	2.00	2.00
175	2.00	2.00
200	2.00	2.00
225	2.00	2.00
275	2.00	2.00
300	2.00	2.00
325	2.00	2.00
490	2.00	2.00

Note: Linear interpolation is adequate for intermediate cycle burnups.
All cycle burnups outside the range of the table shall use a 2% penalty factor for both $F_Q(X,Y,Z)$ and $F_{\Delta H}(X,Y)$ for compliance with the Tech Spec Surveillances 3.2.1.2, 3.2.1.3 and 3.2.2.2

Catawba 1 Cycle 12 Core Operating Limits Report

2.6 Nuclear Enthalpy Rise Hot Channel Factor - $F_{\Delta H}(X,Y)$ (TS 3.2.2)

The $F_{\Delta H}$ steady-state limits referred to in Technical Specification 3.2.2 is defined by the following relationship.

$$2.6.1 \quad [F_{\Delta H}^L(X,Y)]^{LCO} = \text{MARP}(X,Y) * \left[1.0 + \frac{1}{\text{RRH}} * (1.0 - P) \right]$$

where:

$[F_{\Delta H}^L(X,Y)]^{LCO}$ is defined as the steady-state, maximum allowed radial peak.

$\text{MARP}(X,Y) =$ Cycle-specific operating limit Maximum Allowable Radial Peaks. $\text{MARP}(X,Y)$ radial peaking limits are provided in Table 7, Appendix A.

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

$\text{RRH} =$ Thermal Power reduction required to compensate for each 1% that the measured radial peak, $F_{\Delta H}^M(X,Y)$, exceeds the limit. ($\text{RRH} = 3.34$)

The following parameters are required for core monitoring per the Surveillance requirements of Technical Specification 3.2.2.

$$2.6.2 \quad [F_{\Delta H}^L(X,Y)]^{SURV} = \frac{F_{\Delta H}^D(X,Y) \times M_{\Delta H}(X,Y)}{\text{UMR} \times \text{TILT}}$$

where:

$[F_{\Delta H}^L(X,Y)]^{SURV} =$ Cycle dependent maximum allowable design peaking factor that ensures that the $F_{\Delta H}(X,Y)$ limit is not exceeded for operation within the AFD, RIL, and QPRT limits.
 $F_{\Delta H}^L(X,Y)^{SURV}$ includes allowances for calculational and measurement uncertainty.

$F_{\Delta H}^D(X,Y) =$ Design power distribution for $F_{\Delta H}$. $F_{\Delta H}^D(X,Y)$ is provided in Table 5, Appendix A for normal operation and in Table 6, Appendix A for power escalation testing during initial startup operation.

Catawba 1 Cycle 12 Core Operating Limits Report

$M_{\Delta H}(X,Y)$ = The margin remaining in core location X,Y relative to the Operational DNB limits in the transient power distribution. $M_{\Delta H}(X,Y)$ is provided in Table 5, Appendix A for normal operation and in Table 6, Appendix A for power escalation testing during initial startup operation.

UMR = Uncertainty value for measured radial peaks, (UMR= 1.04).

TILT = Factor to account for a peaking increase due to the allowed quadrant tilt ratio of 1.02, (TILT = 1.035).

NOTE: $[F_{\Delta H}^L(X,Y)]^{SURV}$ is the parameter identified as $[F_{\Delta H}(X,Y)]^{MAX}$ in DPC-NE-2011PA.

2.6.3 RRH = 3.34

where:

RRH = Thermal Power reduction required to compensate for each 1% that the measured radial peak, $F_{\Delta H}^M(X,Y)$ exceeds its limit.

2.6.4 TRH = 0.04

where:

TRH = Reduction in OTΔT K_1 setpoint required to compensate for each 1% that the measured radial peak, $F_{\Delta H}(X,Y)$ exceeds its limit.

2.6.5 $F_{\Delta H}(X,Y)$ Penalty Factors for Technical Specification Surveillance 3.2.2.2 are provided in Table 1a.

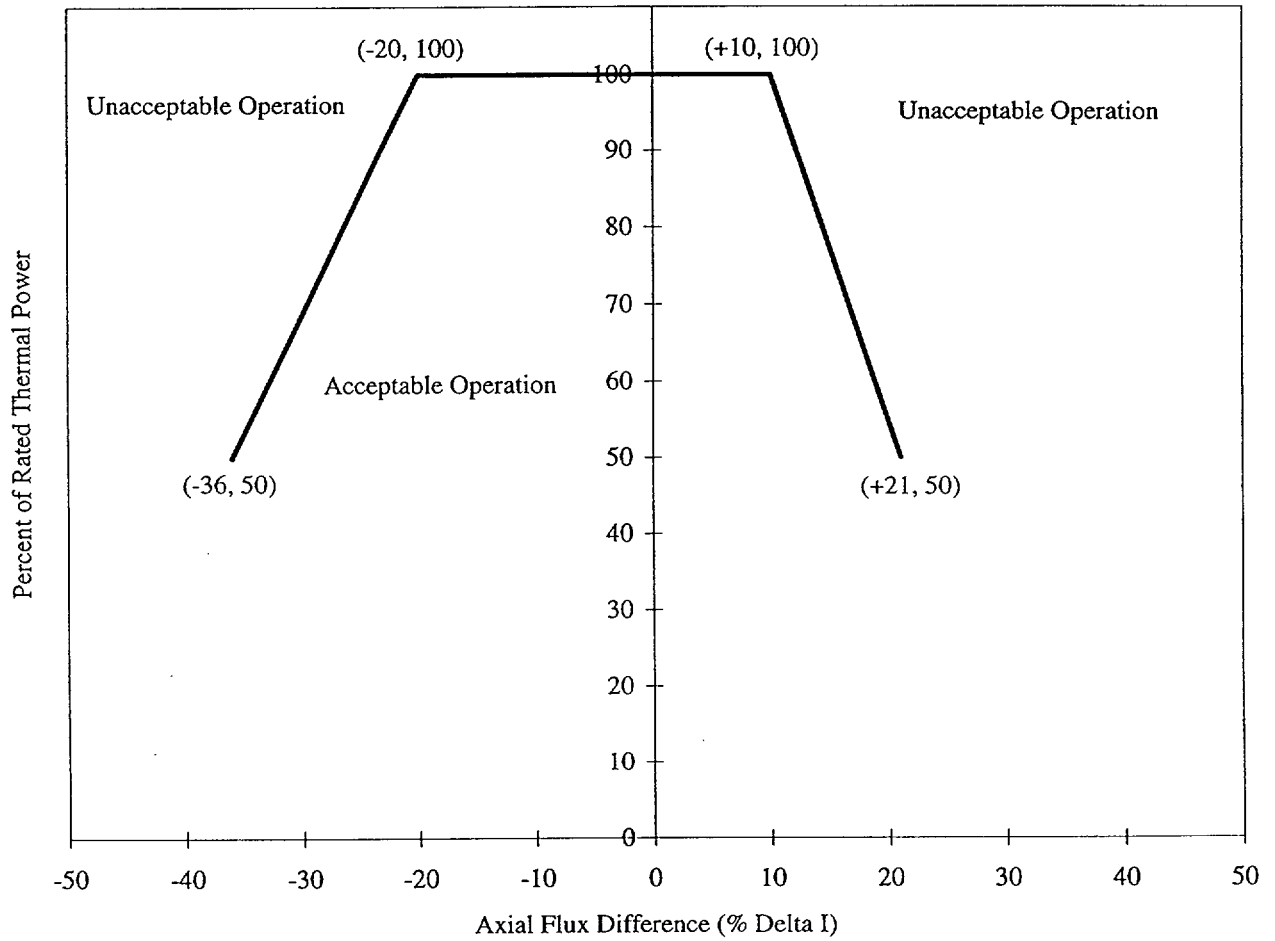
2.7 Axial Flux Difference – AFD (TS 3.2.3)

2.7.1 The Axial Flux Difference (AFD) Limits are provided in Figure 5.

Catawba 1 Cycle 12 Core Operating Limits Report

Figure 5

Percent of Rated Thermal Power versus Percent Axial Flux Difference Limits



NOTE: Compliance with Technical Specification 3.2.1 may require more restrictive AFD limits. Refer to the Unit 1 ROD manual for operational AFD limits.

Catawba 1 Cycle 12 Core Operating Limits Report

2.8 Reactor Trip System Instrumentation Setpoints (TS 3.3.1) Table 3.3.1-1

2.8.1 Overtemperature ΔT Setpoint Parameter Values

<u>Parameter</u>	<u>Nominal Value</u>
Overtemperature ΔT reactor trip setpoint	$K_1 = 1.1978$
Overtemperature ΔT reactor trip heatup setpoint penalty coefficient	$K_2 = 0.03340/^\circ\text{F}$
Overtemperature ΔT reactor trip depressurization setpoint penalty coefficient	$K_3 = 0.001601/\text{psi}$
Time constants utilized in the lead-lag compensator for ΔT	$\tau_1 = 8 \text{ sec.}$ $\tau_2 = 3 \text{ sec.}$
Time constant utilized in the lag compensator for ΔT	$\tau_3 = 0 \text{ sec.}$
Time constants utilized in the lead-lag compensator for T_{avg}	$\tau_4 = 22 \text{ sec.}$ $\tau_5 = 4 \text{ sec.}$
Time constant utilized in the measured T_{avg} lag compensator	$\tau_6 = 0 \text{ sec.}$
$f_1(\Delta I)$ "positive" breakpoint	$= 19.0 \% \Delta I$
$f_1(\Delta I)$ "negative" breakpoint	$= \text{N/A}^*$
$f_1(\Delta I)$ "positive" slope	$= 1.769 \% \Delta T_0 / \% \Delta I$
$f_1(\Delta I)$ "negative" slope	$= \text{N/A}^*$

- * The $f_1(\Delta I)$ "negative" breakpoint and the $f_1(\Delta I)$ "negative" slope are not applicable since the $f_1(\Delta I)$ function is not required below the $f_1(\Delta I)$ "positive" breakpoint of 19.0% ΔI .

Catawba 1 Cycle 12 Core Operating Limits Report

2.8.2 Overpower ΔT Setpoint Parameter Values

<u>Parameter</u>	<u>Nominal Value</u>
Overpower ΔT reactor trip setpoint	$K_4 = 1.0864$
Overpower ΔT reactor trip heatup setpoint penalty coefficient (for $T > T''$)	$K_6 = 0.001179/^\circ\text{F}$
Time constants utilized in the lead-lag compensator for ΔT	$\tau_1 = 8 \text{ sec.}$ $\tau_2 = 3 \text{ sec.}$
Time constant utilized in the lag compensator for ΔT	$\tau_3 = 0 \text{ sec.}$
Time constant utilized in the measured T_{avg} lag compensator	$\tau_6 = 0 \text{ sec.}$
Time constant utilized in the rate-lag controller for T_{avg}	$\tau_7 = 10 \text{ sec.}$
$f_2(\Delta I)$ "positive" breakpoint	$= 35.0 \% \Delta I$
$f_2(\Delta I)$ "negative" breakpoint	$= -35.0 \% \Delta I$
$f_2(\Delta I)$ "positive" slope	$= 7.0 \% \Delta T / \% \Delta I$
$f_2(\Delta I)$ "negative" slope	$= 7.0 \% \Delta T / \% \Delta I$

Catawba 1 Cycle 12 Core Operating Limits Report

2.9 Boron Dilution Mitigation System (TS 3.3.9)

2.9.1 Reactor Makeup Water Pump flow rate limits:

<u>Applicable Mode</u>	<u>Limit</u>
Mode 3	≤ 150 gpm
Mode 4 or 5	≤ 70 gpm

2.10 Accumulators (TS 3.5.1)

2.10.1 Boron concentration limits during modes 1 and 2, and mode 3 with RCS pressure >1000 psi:

<u>Parameter</u>	<u>Limit</u>
Cold Leg Accumulator minimum boron concentration.	2,550 ppm
Cold Leg Accumulator maximum boron concentration.	2,975 ppm

2.11 Refueling Water Storage Tank - RWST (TS 3.5.4)

2.11.1 Boron concentration limits during modes 1, 2, 3, and 4:

<u>Parameter</u>	<u>Limit</u>
Refueling Water Storage Tank minimum boron concentration.	2,750 ppm
Refueling Water Storage Tank maximum boron concentration.	2,975 ppm

Catawba 1 Cycle 12 Core Operating Limits Report

2.12 Spent Fuel Pool Boron Concentration (TS 3.7.15)

2.12.1 Minimum boron concentration limit for the spent fuel pool. Applicable when fuel assemblies are stored in the spent fuel pool.

<u>Parameter</u>	<u>Limit</u>
Spent fuel pool minimum boron concentration	2,750 ppm

2.13 Refueling Operations - Boron Concentration (TS 3.9.1)

2.13.1 Minimum boron concentration limit for the filled portions of the Reactor Coolant System, refueling canal, and refueling cavity for mode 6 conditions. The minimum boron concentration limit and plant refueling procedures ensure that the Keff of the core will remain within the mode 6 reactivity requirement of $K_{eff} \leq 0.95$.

<u>Parameter</u>	<u>Limit</u>
Minimum Boron concentration of the Reactor Coolant System, the refueling canal, and the refueling cavity.	2,750 ppm

2.14 Refueling Operations - Instrumentation (TS 3.9.2)

2.14.1 Reactor Makeup Water Pump Flow rate Limit:

<u>Applicable Mode</u>	<u>Limit</u>
Mode 6	≤ 70 gpm

Catawba 1 Cycle 12 Core Operating Limits Report

2.15 Borated Water Source – Shutdown (SLC 16.9-11)

2.15.1 Volume and boron concentrations for the Boric Acid Storage System and the Refueling Water Storage Tank (RWST) during mode 4 with any RCS cold leg temperature $\leq 285^{\circ}\text{F}$, and modes 5 and 6.

<u>Parameter</u>	<u>Limit</u>
Boric Acid Storage System minimum contained borated water volume	12,000 gallons
Boric Acid Storage System minimum boron concentration	7,000 ppm
Boric Acid Storage System minimum water volume required to maintain SDM at 7,000 ppm	585 gallons
Refueling Water Storage Tank minimum contained borated water volume	45,000 gallons
Refueling Water Storage Tank minimum boron concentration	2,750 ppm
Refueling Water Storage Tank minimum water volume required to maintain SDM at 2,750 ppm	3,500 gallons

Catawba 1 Cycle 12 Core Operating Limits Report

2.16 Borated Water Source - Operating (SLC 16.9-12)

2.16.1 Volume and boron concentrations for the Boric Acid Storage System and the Refueling Water Storage Tank (RWST) during modes 1, 2, 3, and mode 4 with all RCS cold leg temperatures > 285°F.

<u>Parameter</u>	<u>Limit</u>
Boric Acid Storage System minimum contained borated water volume	24,000 gallons
Boric Acid Storage System minimum boron concentration	7,000 ppm
Boric Acid Storage System minimum water volume required to maintain SDM at 7,000 ppm	12,300 gallons
Refueling Water Storage Tank minimum contained borated water volume	98,607 gallons
Refueling Water Storage Tank minimum boron concentration	2,750 ppm
Refueling Water Storage Tank minimum water volume required to maintain SDM at 2,750 ppm	57,107 gallons

Catawba 1 Cycle 12 Core Operating Limits Report

2.17 Standby Makeup Pump Water Supply - Boron Concentration (SLC-16.7-9.3)

2.17.1 Minimum boron concentration limit for the spent fuel pool. Applicable for modes 1, 2, and 3.

<u>Parameter</u>	<u>Limit</u>
Spent fuel pool minimum boron concentration for surveillance SLC-16.7-9.3.	2,750 ppm

NOTE: Data contained in the Appendix to this document was generated in the Catawba 1 Cycle 12 Maneuvering Analysis calculation file, CNC-1553.05-00-0304. The Plant Nuclear Engineering Section will control this information via computer file(s) and should be contacted if there is a need to access this information.

Catawba Unit 2 Cycle 11
Core Operating Limits Report
Revision 17
February 2000

Duke Power Company

		Date
Prepared By:	<u>Scott B. Thomas</u>	<u>2/29/00</u>
Checked By:	<u>Nicholas R Hager</u>	<u>2/29/00</u>
Checked By:	<u>John M Sawyer Jr</u>	<u>2/29/00</u>
Approved By:	<u>P. m. Abraham</u>	<u>2/29/00</u>

QA Condition 1

The contents of this document have been reviewed to verify that no material herein either directly or indirectly changes or affects the results and conclusions presented in the 10CFR50.59 Catawba 2 Cycle 11 Reload Safety Evaluation.

Catawba 2 Cycle 11 Core Operating Limits Report

IMPLEMENTATION INSTRUCTIONS FOR REVISION 17

Revision 17 of the Catawba Unit 2 COLR contains limits specific to the Catawba 2 Cycle 11 core and may become effective any time during the NO-MODE between Cycles 10 and 11.

This COLR revision incorporates a relocation of the 31 EFPD peaking penalty factor from Technical Specifications 3.2.1 and 3.2.2 to the COLR. Therefore, this revision of the COLR should be issued before or concurrently with Amendment No. 172 of the Catawba Unit 2 Technical Specifications.

This revision must become effective prior to entering MODE 6 which starts Cycle 11.

Finally, implementation of this revision is contingent on NRC approval of the proposed Technical Specification change in the minimum RCS total flow rate limit of 390,000 gpm.

Catawba 2 Cycle 11 Core Operating Limits Report

REVISION LOG

<u>Revision</u>	<u>Effective Date</u>	<u>Pages Affected</u>	<u>COLR</u>
Original Issue	February 1993	N/A	C2C06 COLR
Revision 1	April 1994	N/A	C2C06 COLR rev 1
Revision 2	May 1994	N/A	C2C07 COLR
Revision 3	October 1994	N/A	C2C07 COLR rev 1
Revision 4	April 1995	N/A	C2C07 COLR rev 2
Revision 5	September 1995	N/A	C2C07 COLR rev 3
Revision 6	October 1995	N/A	C2C08 COLR
Revision 7	September 1996	N/A	C2C08 COLR rev 1
Revision 8	March 1997	N/A	C2C08 COLR rev 2
Revision 9	March 1997	N/A	C2C09 COLR
Revision 10	April 1997	N/A	C2C09 COLR rev 1
Revision 11	June 1997	N/A	C2C09 COLR rev 2
Revision 12	July 1997	N/A	C2C09 COLR rev 3
Revision 13	August 1997	N/A	C2C09 COLR rev 4
Revision 14	August 1998	N/A	C2C10 COLR
Revision 15	October 1998	N/A	C2C10 COLR rev 1
Revision 16	December 1998	N/A	C2C10 COLR rev 2
Revision 17	February 2000	ALL	C2C11 COLR

Catawba 2 Cycle 11 Core Operating Limits Report

INSERTION SHEET FOR REVISION 17

Remove pages

Pages 1-24

Appendix A, Pages 1-269

Insert Rev. 17 pages

Pages 1-25

Appendix A, Pages 1-331

Catawba 2 Cycle 11 Core Operating Limits Report

1.0 Core Operating Limits Report

This Core Operating Limits Report (COLR) has been prepared in accordance with the requirements of the Technical Specification.

The Technical Specifications that reference this report are listed below:

<u>TS Section</u>	<u>Technical Specifications</u>	<u>COLR Section</u>	<u>Page</u>
3.1.1	Shutdown Margin	2.1	6
3.1.3	Moderator Temperature Coefficient	2.2	6
3.1.4	Shutdown Margin	2.1	6
3.1.5	Shutdown Margin	2.1	6
3.1.5	Shutdown Bank Insertion Limit	2.3	7
3.1.6	Shutdown Margin	2.1	6
3.1.6	Control Bank Insertion Limit	2.4	7
3.2.1	Heat Flux Hot Channel Factor	2.5	10
3.2.2	Nuclear Enthalpy Rise Hot Channel Factor	2.6	16
3.2.3	Axial Flux Difference	2.7	17
3.3.1	Reactor Trip System Instrumentation Setpoint	2.8	20
3.3.9	Boron Dilution Mitigation System	2.9	22
3.5.1	Accumulators	2.10	22
3.5.4	Refueling Water Storage Tank	2.11	22
3.7.15	Spent Fuel Pool Boron Concentration	2.12	23
3.9.1	Refueling Operations - Boron Concentration	2.13	23
3.9.2	Refueling Operations – Instrumentation	2.14	23

The Selected Licensee Commitments that reference this report are listed below:

<u>SLC Section</u>	<u>Selected License Commitment</u>	<u>Section</u>	<u>Page</u>
16.7-9.3	Standby Makeup Pump Water Supply	2.15	24
16.9-11	Borated Water Source – Shutdown	2.16	24
16.9-12	Borated Water Source – Operating	2.17	25

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 NRC approved methodologies specified in Technical Specification 5.6.5.

Catawba 2 Cycle 11 Core Operating Limits Report

2.1 Shutdown Margin - SDM (TS 3.1.1, TS 3.1.4, TS 3.1.5, TS 3.1.6)

- 2.1.1 For TS 3.1.1, shutdown margin shall be greater than or equal to 1.3% $\Delta K/K$ in mode 2 with $K_{eff} < 1.0$ and in modes 3 and 4.
- 2.1.2 For TS 3.1.1, shutdown margin shall be greater than or equal to 1.0% $\Delta K/K$ in mode 5.
- 2.1.3 For TS 3.1.4, shutdown margin shall be greater than or equal to 1.3% $\Delta K/K$ in mode 1 and mode 2.
- 2.1.4 For TS 3.1.5, shutdown margin shall be greater than or equal to 1.3% $\Delta K/K$ in mode 1 and mode 2 with any control bank not fully inserted.
- 2.1.5 For TS 3.1.6, shutdown margin shall be greater than or equal to 1.3% $\Delta K/K$ in mode 1 and mode 2 with $K_{eff} \geq 1.0$.

2.2 Moderator Temperature Coefficient - MTC (TS 3.1.3)

- 2.2.1 The Moderator Temperature Coefficient (MTC) Limits are:

The MTC shall be less positive than the upper limits shown in Figure 1. The BOC, ARO, HZP MTC shall be less positive than $0.7E-04 \Delta K/K/^\circ F$.

The EOC, ARO, RTP MTC shall be less negative than the $-4.1E-04 \Delta K/K/^\circ F$ lower MTC limit.

- 2.2.2 The 300 ppm MTC Surveillance Limit is:

The measured 300 PPM ARO, equilibrium RTP MTC shall be less negative than or equal to $-3.2E-04 \Delta K/K/^\circ F$.

- 2.2.3 The 60 PPM MTC Surveillance Limit is:

The 60 PPM ARO, equilibrium RTP MTC shall be less negative than or equal to $-3.85E-04 \Delta K/K/^\circ F$.

Where:

- BOC = Beginning of Cycle
- EOC = End of Cycle
- ARO = All Rods Out
- HZP = Hot Zero Thermal Power
- RTP = Rated Thermal Power
- PPM = Parts per million (Boron)

Catawba 2 Cycle 11 Core Operating Limits Report

2.3 Shutdown Bank Insertion Limit (TS 3.1.5)

2.3.1 Each shutdown bank shall be withdrawn to at least 226 steps.

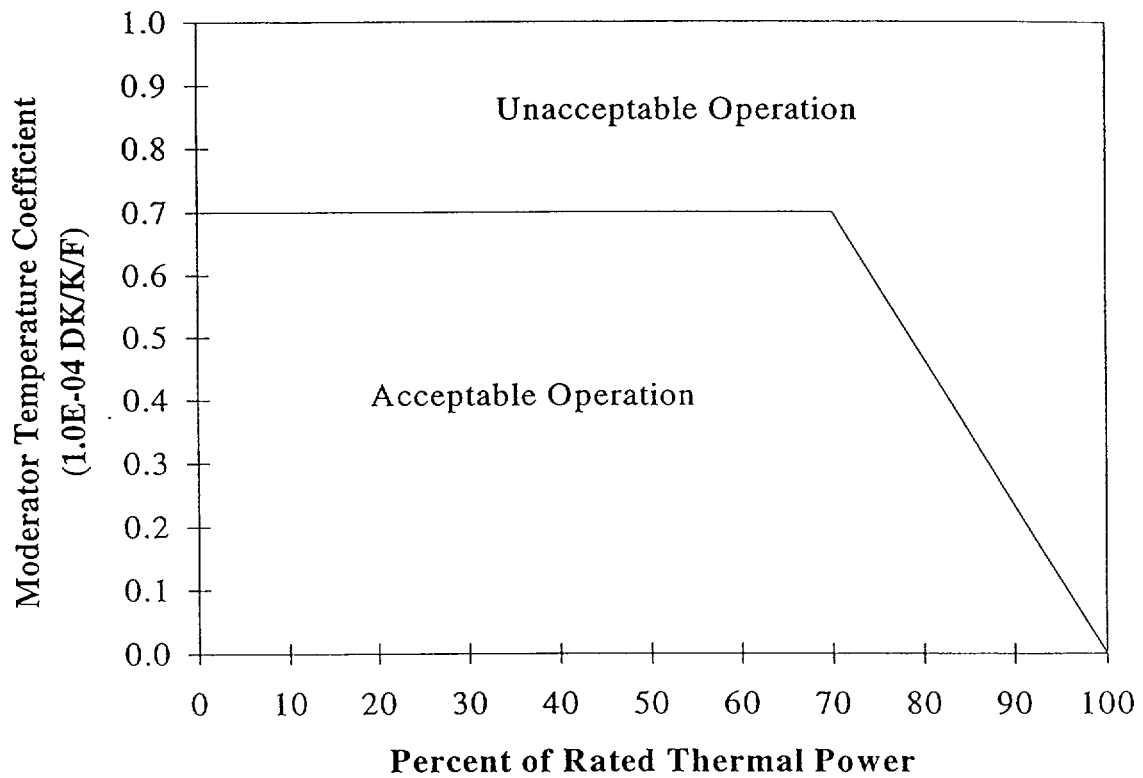
2.4 Control Bank Insertion Limits (TS 3.1.6)

2.4.1 Control banks shall be within the insertion, sequence, and overlap limits shown in Figure 2.

Catawba 2 Cycle 11 Core Operating Limits Report

Figure 1

Moderator Temperature Coefficient Upper Limit Versus Power Level

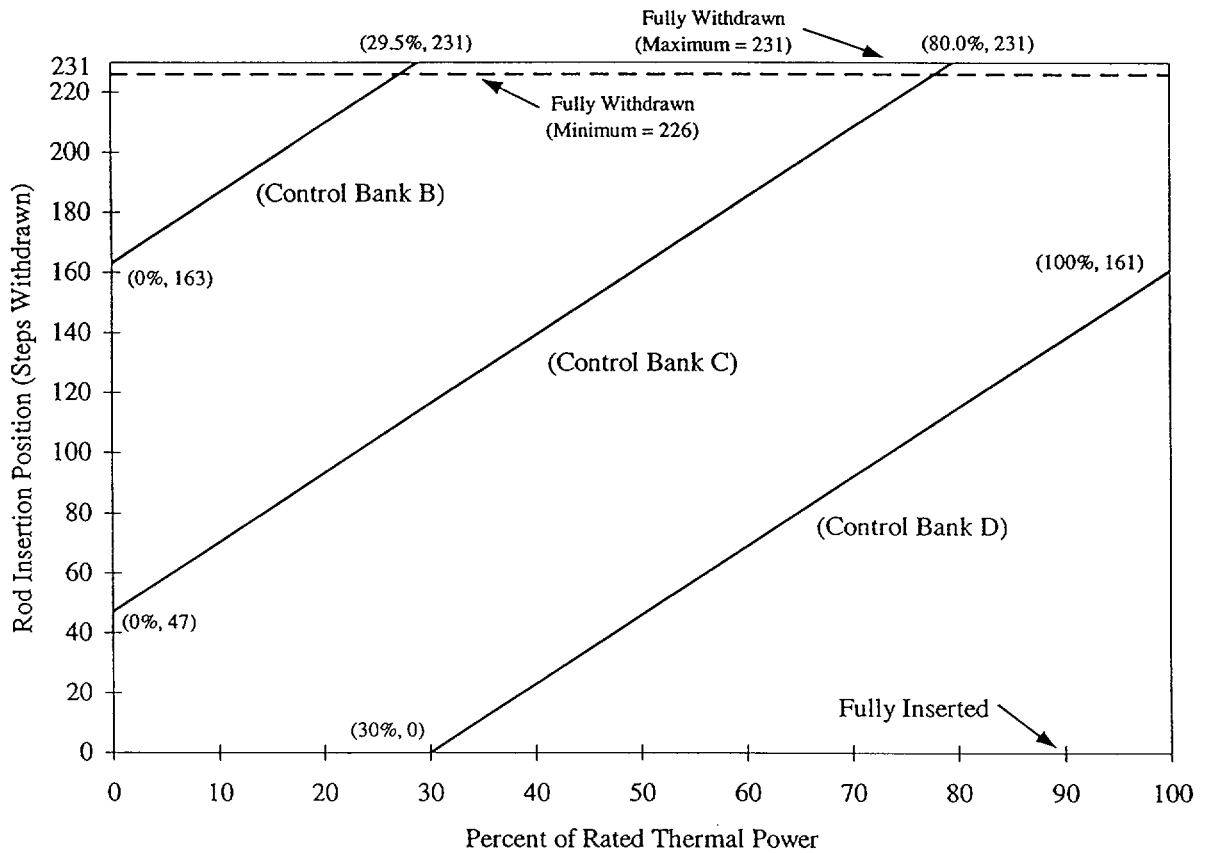


NOTE: Compliance with Technical Specification 3.1.3 may require rod withdrawal limits. Refer to the Unit 2 ROD manual for details.

Catawba 2 Cycle 11 Core Operating Limits Report

Figure 2

Control Bank Insertion Limits Versus Percent Rated Thermal Power



NOTE: Compliance with Technical Specification 3.1.3 may require rod withdrawal limits. Refer to the Unit 2 ROD manual for details.

Catawba 2 Cycle 11 Core Operating Limits Report

2.5 Heat Flux Hot Channel Factor - $F_Q(X,Y,Z)$ (TS 3.2.1)

2.5.1 $F_Q(X,Y,Z)$ steady-state limits are defined by the following relationships:

$$\begin{aligned} F_Q^{RTP} * K(Z) / P & \quad \text{for } P > 0.5 \\ F_Q^{RTP} * K(Z) / 0.5 & \quad \text{for } P \leq 0.5 \end{aligned}$$

where,

$$P = (\text{Thermal Power}) / (\text{Rated Power})$$

Note: The measured $F_Q(X,Y,Z)$ shall be increased by 3% to account for manufacturing tolerances and 5% to account for measurement uncertainty when comparing against the limits. The manufacturing tolerance and measurement uncertainty are implicitly included in the F_Q surveillance limits as defined in COLR Sections 2.5.5 and 2.5.6.

2.5.2 $F_Q^{RTP} = 2.50 \times K(\text{BU})$

2.5.3 $K(Z)$ is the normalized $F_Q(X,Y,Z)$ as a function of core height. $K(Z)$ for MkBW fuel is provided in Figure 3, and the $K(Z)$ for Westinghouse RFA fuel is provided in Figure 4.

2.5.4 $K(\text{BU})$ is the normalized $F_Q(X,Y,Z)$ as a function of burnup. $K(\text{BU})$ for both MkBW fuel and Westinghouse RFA fuel is 1.0 at all burnups.

The following parameters are required for core monitoring per the Surveillance Requirements of Technical Specification 3.2.1:

2.5.5 $[F_Q^L(X,Y,Z)]^{OP} = \frac{F_Q^D(X,Y,Z) * M_Q(X,Y,Z)}{UMT * MT * TILT}$

where:

$[F_Q^L(X,Y,Z)]^{OP}$ = Cycle dependent maximum allowable design peaking factor that ensures that the $F_Q(X,Y,Z)$ LOCA limit is not exceeded for operation within the AFD, RIL, and QPTR limits.

$F_Q^L(X,Y,Z)^{OP}$ includes allowances for calculational and measurement uncertainties.

Catawba 2 Cycle 11 Core Operating Limits Report

$F_Q^D(X,Y,Z)$ = Design power distribution for F_Q . $F_Q^D(X,Y,Z)$ is provided in Table 3, Appendix A, for normal operating conditions and in Table 4, Appendix A for power escalation testing during initial startup operation.

$M_Q(X,Y,Z)$ = Margin remaining in core location X,Y,Z to the LOCA limit in the transient power distribution. $M_Q(X,Y,Z)$ is provided in Table 3, Appendix A for normal operating conditions and in Table 4, Appendix A for power escalation testing during initial startup operation.

UMT = Total Peak Measurement Uncertainty. (UMT = 1.05)

MT = Engineering Hot Channel Factor. (MT = 1.03)

TILT = Peaking penalty that accounts for allowable quadrant power tilt ratio of 1.02. (TILT = 1.035)

NOTE: $F_Q^L(X,Y,Z)^{OP}$ is the parameter identified as $F_Q^{MAX}(X,Y,Z)$ in DPC-NE-2011PA.

$$2.5.6 \quad [F_Q^L(X,Y,Z)]^{RPS} = \frac{F_Q^D(X,Y,Z) * M_C(X,Y,Z)}{UMT * MT * TILT}$$

where:

$[F_Q^L(X,Y,Z)]^{RPS}$ = Cycle dependent maximum allowable design peaking factor that ensures that the $F_Q(X,Y,Z)$ Centerline Fuel Melt (CFM) limit is not exceeded for operation within the AFD, RIL, and QPRT limits. $[F_Q^L(X,Y,Z)]^{RPS}$ includes allowances for calculational and measurement uncertainties.

$F_Q^D(X,Y,Z)$ = Design power distributions for F_Q . $F_Q^D(X,Y,Z)$ is provided in Table 3, Appendix A for normal operating conditions and in Table 4, Appendix A for power escalation testing during initial startup operations.

$M_C(X,Y,Z)$ = Margin remaining to the CFM limit in core location X,Y,Z from the transient power distribution. $M_C(X,Y,Z)$ calculations parallel the $M_Q(X,Y,Z)$ calculations described in DPC-NE-2011PA, except that the LOCA limit is replaced with the CFM

Catawba 2 Cycle 11 Core Operating Limits Report

limit. $M_C(X,Y,Z)$ is provided in Table 5, Appendix A for normal operating conditions and in Table 6, Appendix A for power escalation testing during initial startup operations.

UMT = Measurement Uncertainty (UMT = 1.05)

MT = Engineering Hot Channel Factor (MT = 1.03)

TILT = Peaking penalty that accounts for allowable quadrant power tilt ratio of 1.02. (TILT = 1.035)

NOTE: $[F_Q^L(X,Y,Z)]^{RPS}$ is the parameter identified as $F_Q^{MAX}(X,Y,Z)$ in DPC-NE-2011PA, except that $M_Q(X,Y,Z)$ is replaced by $M_C(X,Y,Z)$.

2.5.7 KSLOPE = 0.0725

where:

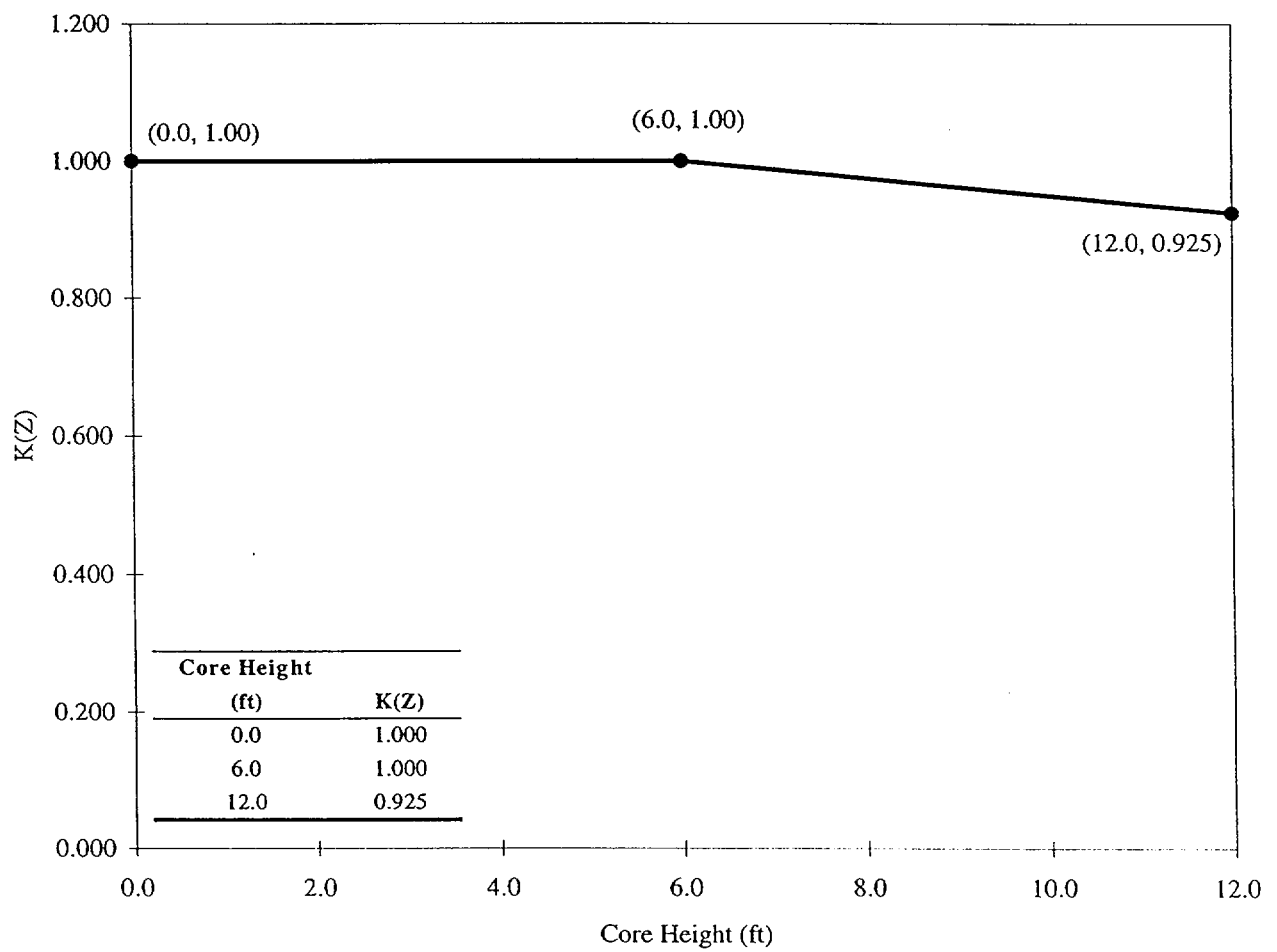
KSLOPE = the adjustment to the K_1 value from OTΔT trip setpoint required to compensate for each 1% that $F_Q^M(X,Y,Z)$ exceeds $F_Q^L(X,Y,Z)^{RPS}$.

2.5.8 $F_Q(X,Y,Z)$ Penalty Factors for Technical Specification Surveillances 3.2.1.2 and 3.2.1.3 are provided in Table 1.

Catawba 2 Cycle 11 Core Operating Limits Report

Figure 3

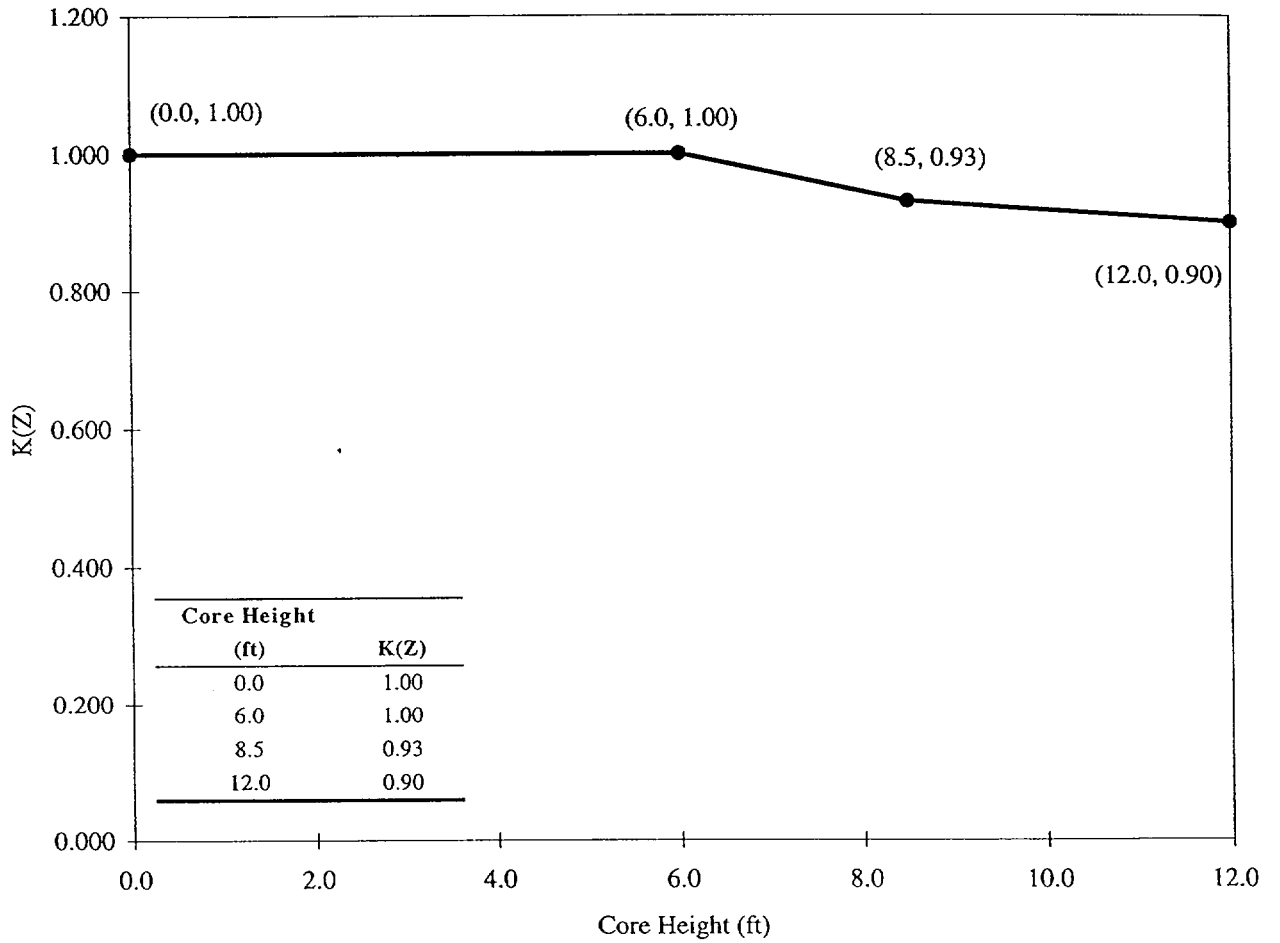
$K(Z)$, Normalized $F_Q(X,Y,Z)$ as a Function of Core Height
for MkBW Fuel



Catawba 2 Cycle 11 Core Operating Limits Report

Figure 4

$K(Z)$, Normalized $F_Q(X,Y,Z)$ as a Function of Core Height
for RFA Fuel



Catawba 2 Cycle 11 Core Operating Limits Report

Table 1

**$F_Q(X,Y,Z)$ and $F_{\Delta H}(X,Y)$ Penalty Factors
For Tech Spec Surveillances 3.2.1.2, 3.2.1.3 and 3.2.2.2**

Burnup (EFPD)	$F_Q(X,Y,Z)$ Penalty Factor(%)	$F_{\Delta H}(X,Y)$ Penalty Factor (%)
4	2.00	2.00
12	2.00	2.00
25	2.00	2.00
50	2.00	2.00
75	2.00	2.00
100	2.00	2.00
125	2.00	2.00
150	2.00	2.00
175	2.00	2.00
200	2.00	2.00
225	2.00	2.00
275	2.00	2.00
300	2.17	2.00
325	2.00	2.00
510	2.00	2.00

Note: Linear interpolation is adequate for intermediate cycle burnups.
All cycle burnups outside the range of the table shall use a 2% penalty factor for both $F_Q(X,Y,Z)$ and $F_{\Delta H}(X,Y)$ for compliance with the Tech Spec Surveillances 3.2.1.2, 3.2.1.3 and 3.2.2.2

Catawba 2 Cycle 11 Core Operating Limits Report

2.6 Nuclear Enthalpy Rise Hot Channel Factor - $F_{\Delta H}(X,Y)$ (TS 3.2.2)

The $F_{\Delta H}$ steady-state limits referred to in Technical Specification 3.2.2 is defined by the following relationship.

$$2.6.1 \quad [F_{\Delta H}^L(X,Y)]^{LCO} = \text{MARP}(X,Y) * \left[1.0 + \frac{1}{\text{RRH}} * (1.0 - P) \right]$$

where:

$[F_{\Delta H}^L(X,Y)]^{LCO}$ is defined as the steady-state, maximum allowed radial peak.

$[F_{\Delta H}^L(X,Y)]^{LCO}$ includes allowances for calculation/measurement uncertainty.

$\text{MARP}(X,Y) =$ Cycle-specific operating limit Maximum Allowable Radial Peaks. $\text{MARP}(X,Y)$ radial peaking limits are provided in Table 2.

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

$\text{RRH} =$ Thermal Power reduction required to compensate for each 1% that the measured radial peak, $F_{\Delta H}^M(X,Y)$, exceeds the limit.

$$(\text{RRH} = 3.34, 0.0 < P \leq 1.0)$$

The following parameters are required for core monitoring per the Surveillance requirements of Technical Specification 3.2.2.

$$2.6.2 \quad [F_{\Delta H}^L(X,Y)]^{SURV} = \frac{F_{\Delta H}^D(X,Y) \times M_{\Delta H}(X,Y)}{\text{UMR} \times \text{TILT}}$$

where:

$[F_{\Delta H}^L(X,Y)]^{SURV} =$ Cycle dependent maximum allowable design peaking factor that ensures that the $F_{\Delta H}(X,Y)$ limit is not exceeded for operation within the AFD, RIL, and QPRT limits.

$F_{\Delta H}^L(X,Y)^{SURV}$ includes allowances for calculational and measurement uncertainty.

$F_{\Delta H}^D(X,Y) =$ Design power distribution for $F_{\Delta H}$. $F_{\Delta H}^D(X,Y)$ is provided in Table 7, Appendix A for normal operation and in Table 8,

Catawba 2 Cycle 11 Core Operating Limits Report

Appendix A for power escalation testing during initial startup operation.

$M_{\Delta H}(X,Y)$ = The margin remaining in core location X,Y relative to the Operational DNB limits in the transient power distribution. $M_{\Delta H}(X,Y)$ is provided in Table 7, Appendix A for normal operation and in Table 8, Appendix A for power escalation testing during initial startup operation.

UMR = Uncertainty value for measured radial peaks, (UMR is set to 1.0 since a factor of 1.04 is implicitly included in the variable $M_{\Delta H}(X,Y)$).

TILT = Peaking penalty that accounts for allowable quadrant power tilt ratio of 1.02. (TILT = 1.035)

NOTE: $[F_{\Delta H}^L(X,Y)]^{SURV}$ is the parameter identified as $[F_{\Delta H}(X,Y)]^{MAX}$ in DPC-NE-2011PA.

2.6.3 RRH = 3.34

where:

RRH = Thermal Power reduction required to compensate for each 1% that the measured radial peak, $F_{\Delta H}^M(X,Y)$ exceeds its limit. ($0 < P \leq 1.0$)

2.6.4 TRH = 0.04

where:

TRH = Reduction in OTΔT K_I setpoint required to compensate for each 1% that the measured radial peak, $F_{\Delta H}(X,Y)$ exceeds its limit.

2.6.5 $F_{\Delta H}(X,Y)$ Penalty Factors for Technical Specification Surveillance 3.2.2.2 are provided in Table 1.

2.7 Axial Flux Difference – AFD (TS 3.2.3)

2.7.1 The Axial Flux Difference (AFD) Limits are provided in Figure 5.

Catawba 2 Cycle 11 Core Operating Limits Report

Table 2
Maximum Allowable Radial Peaks (MARPS)

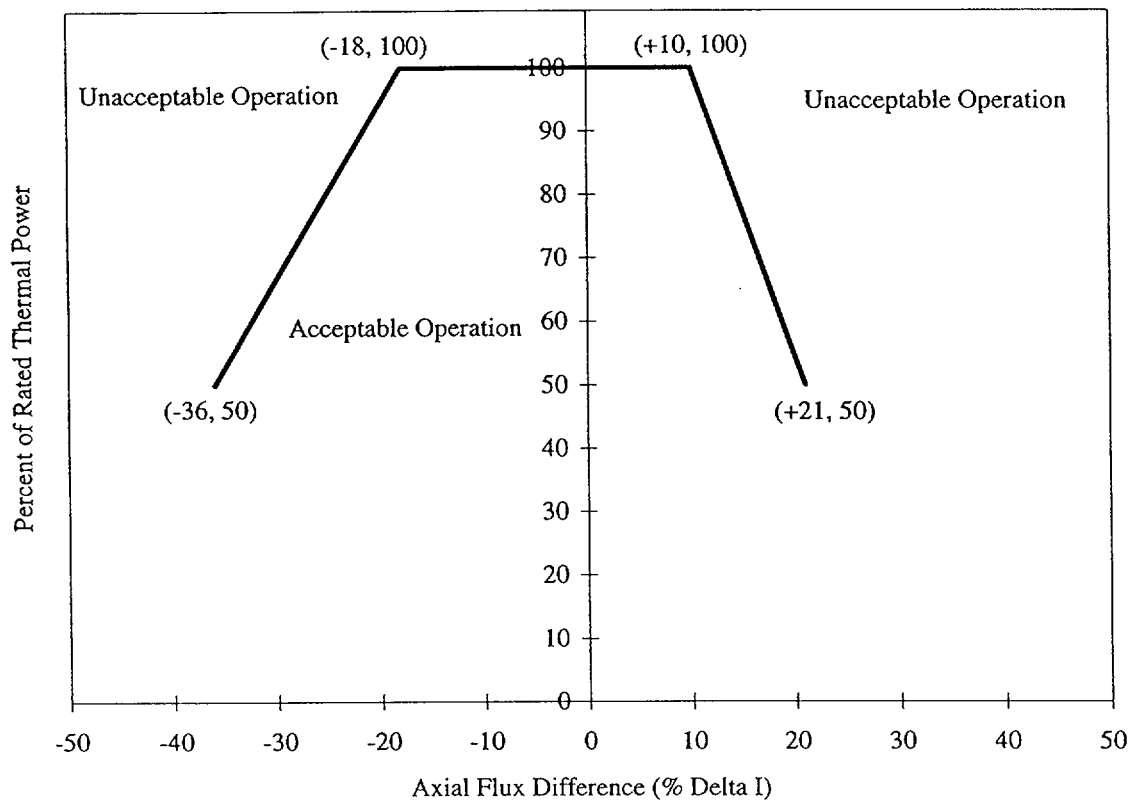
MkBW and RFA Fuel MARPs

Core Height (ft)	Axial Peak										
	1.05	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.1
0.12	1.695	1.725	1.790	1.847	1.897	1.903	1.834	1.780	1.697	1.620	1.520
1.20	1.692	1.723	1.784	1.839	1.886	1.867	1.811	1.788	1.714	1.639	1.525
2.40	1.696	1.725	1.781	1.833	1.872	1.823	1.768	1.751	1.694	1.639	1.542
3.60	1.699	1.726	1.778	1.822	1.830	1.779	1.726	1.705	1.652	1.603	1.541
4.80	1.701	1.725	1.772	1.810	1.784	1.733	1.682	1.664	1.614	1.565	1.501
6.00	1.703	1.725	1.763	1.779	1.732	1.686	1.638	1.622	1.574	1.529	1.461
7.20	1.703	1.721	1.751	1.731	1.683	1.633	1.587	1.571	1.527	1.488	1.424
8.40	1.698	1.709	1.719	1.677	1.628	1.579	1.534	1.522	1.479	1.440	1.373
9.60	1.690	1.694	1.668	1.617	1.574	1.529	1.487	1.476	1.436	1.399	1.337
10.80	1.679	1.666	1.619	1.566	1.518	1.476	1.434	1.427	1.390	1.355	1.294
12.00	1.653	1.624	1.569	1.520	1.471	1.432	1.394	1.389	1.356	1.327	1.273

Catawba 2 Cycle 11 Core Operating Limits Report

Figure 5

Percent of Rated Thermal Power Versus Percent Axial Flux Difference Limits



NOTE: Compliance with Technical Specification 3.2.1 may require more restrictive AFD limits. Refer to the Unit 2 ROD manual for operational AFD limits.

Catawba 2 Cycle 11 Core Operating Limits Report

2.8 Reactor Trip System Instrumentation Setpoints (TS 3.3.1) Table 3.3.1-1

2.8.1 Overtemperature ΔT Setpoint Parameter Values

<u>Parameter</u>	<u>Nominal Value</u>
Overtemperature ΔT reactor trip setpoint	$K_1 = 1.1953$
Overtemperature ΔT reactor trip heatup setpoint penalty coefficient	$K_2 = 0.03163/^\circ\text{F}$
Overtemperature ΔT reactor trip depressurization setpoint penalty coefficient	$K_3 = 0.001414/\text{psi}$
Time constants utilized in the lead-lag compensator for ΔT	$\tau_1 = 8 \text{ sec.}$ $\tau_2 = 3 \text{ sec.}$
Time constant utilized in the lag compensator for ΔT	$\tau_3 = 0 \text{ sec.}$
Time constants utilized in the lead-lag compensator for T_{avg}	$\tau_4 = 22 \text{ sec.}$ $\tau_5 = 4 \text{ sec.}$
Time constant utilized in the measured T_{avg} lag compensator	$\tau_6 = 0 \text{ sec.}$
$f_1(\Delta I)$ "positive" breakpoint	$= 3.0 \% \Delta I$
$f_1(\Delta I)$ "negative" breakpoint	$= -39.9 \% \Delta I$
$f_1(\Delta I)$ "positive" slope	$= 1.525 \% \Delta T_0 / \% \Delta I$
$f_1(\Delta I)$ "negative" slope	$= 3.910 \% \Delta T_0 / \% \Delta I$

Catawba 2 Cycle 11 Core Operating Limits Report

2.8.2 Overpower ΔT Setpoint Parameter Values

<u>Parameter</u>	<u>Nominal Value</u>
Overpower ΔT reactor trip setpoint	$K_4 = 1.0819$
Overpower ΔT reactor trip heatup setpoint penalty coefficient (for $T > T''$)	$K_6 = 0.001291/^\circ\text{F}$
Time constants utilized in the lead-lag compensator for ΔT	$\tau_1 = 8 \text{ sec.}$ $\tau_2 = 3 \text{ sec.}$
Time constant utilized in the lag compensator for ΔT	$\tau_3 = 0 \text{ sec.}$
Time constant utilized in the measured T_{avg} lag compensator	$\tau_6 = 0 \text{ sec.}$
Time constant utilized in the rate-lag controller for T_{avg}	$\tau_7 = 10 \text{ sec.}$
$f_2(\Delta I)$ "positive" breakpoint	$= 35.0 \% \Delta I$
$f_2(\Delta I)$ "negative" breakpoint	$= -35.0 \% \Delta I$
$f_2(\Delta I)$ "positive" slope	$= 7.0 \% \Delta T / \% \Delta I$
$f_2(\Delta I)$ "negative" slope	$= 7.0 \% \Delta T / \% \Delta I$

Catawba 2 Cycle 11 Core Operating Limits Report

2.9 Boron Dilution Mitigation System (TS 3.3.9)

2.9.1 Reactor Makeup Water Pump flow rate limits:

<u>Applicable Mode</u>	<u>Limit</u>
Mode 3	≤ 150 gpm
Mode 4 or 5	≤ 70 gpm

2.10 Accumulators (TS 3.5.1)

2.10.1 Boron concentration limits during modes 1 and 2, and mode 3 with RCS pressure >1000 psi:

<u>Parameter</u>	<u>Limit</u>
Cold Leg Accumulator minimum boron concentration.	2,500 ppm
Cold Leg Accumulator maximum boron concentration.	3,075 ppm

2.11 Refueling Water Storage Tank - RWST (TS 3.5.4)

2.11.1 Boron concentration limits during modes 1, 2, 3, and 4:

<u>Parameter</u>	<u>Limit</u>
Refueling Water Storage Tank minimum boron concentration.	2,700 ppm
Refueling Water Storage Tank maximum boron concentration.	3,075 ppm

Catawba 2 Cycle 11 Core Operating Limits Report

2.12 Spent Fuel Pool Boron Concentration (TS 3.7.15)

2.12.1 Minimum boron concentration limit for the spent fuel pool. Applicable when fuel assemblies are stored in the spent fuel pool.

<u>Parameter</u>	<u>Limit</u>
Spent fuel pool minimum boron concentration.	2,700 ppm

2.13 Refueling Operations - Boron Concentration (TS 3.9.1)

2.13.1 Minimum boron concentration limit for the filled portions of the Reactor Coolant System, refueling canal, and refueling cavity for mode 6 conditions. The minimum boron concentration limit and plant refueling procedures ensure that the K_{eff} of the core will remain within the mode 6 reactivity requirement of $K_{eff} \leq 0.95$.

<u>Parameter</u>	<u>Limit</u>
Minimum Boron concentration of the Reactor Coolant System, the refueling canal, and the refueling cavity.	2,700 ppm

2.14 Refueling Operations - Instrumentation (TS 3.9.2)

2.14.1 Reactor Makeup Water Pump Flow rate Limit:

<u>Applicable Mode</u>	<u>Limit</u>
Mode 6	≤ 70 gpm

Catawba 2 Cycle 11 Core Operating Limits Report

2.15 Standby Makeup Pump Water Supply - Boron Concentration (SLC-16.7-9.3)

2.15.1 Minimum boron concentration limit for the spent fuel pool. Applicable for modes 1, 2, and 3.

<u>Parameter</u>	<u>Limit</u>
Spent fuel pool minimum boron concentration for surveillance SLC-16.7-9.3.	2,700 ppm

2.16 Borated Water Source – Shutdown (SLC 16.9-11)

2.16.1 Volume and boron concentrations for the Boric Acid Storage System and the Refueling Water Storage Tank (RWST) during mode 4 with any RCS cold leg temperature $\leq 285^{\circ}\text{F}$, and modes 5 and 6.

<u>Parameter</u>	<u>Limit</u>
Boric Acid Storage System minimum contained borated water volume	12,000 gallons
Boric Acid Storage System minimum boron concentration	7,000 ppm
Boric Acid Storage System minimum water volume required to maintain SDM at 7,000 ppm	585 gallons
Refueling Water Storage Tank minimum contained borated water volume	45,000 gallons
Refueling Water Storage Tank minimum boron concentration	2,700 ppm
Refueling Water Storage Tank minimum water volume required to maintain SDM at 2,700 ppm	3,500 gallons

Catawba 2 Cycle 11 Core Operating Limits Report

2.17 Borated Water Source - Operating (SLC 16.9-12)

2.17.1 Volume and boron concentrations for the Boric Acid Storage System and the Refueling Water Storage Tank (RWST) during modes 1, 2, 3, and mode 4 with all RCS cold leg temperatures > 285°F.

<u>Parameter</u>	<u>Limit</u>
Boric Acid Storage System minimum contained borated water volume	24,000 gallons
Boric Acid Storage System minimum boron concentration	7,000 ppm
Boric Acid Storage System minimum water volume required to maintain SDM at 7,000 ppm	11,851 gallons
Refueling Water Storage Tank minimum contained borated water volume	98,607 gallons
Refueling Water Storage Tank minimum boron concentration	2,700 ppm
Refueling Water Storage Tank minimum water volume required to maintain SDM at 2,700 ppm	57,107 gallons

NOTE: Data contained in the Appendix to this document was generated in the Catawba 2 Cycle 11 Maneuvering Analysis calculation file, CNC-1553.05-00-0322. The Plant Nuclear Engineering Section will control this information via computer file(s) and should be contacted if there is a need to access this information.

Appendix A

Catawba 2 Cycle 11 Monitoring Factors

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 100% POWER, 4 EFPD, THIS IS LEVEL 24 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	.4991	.4241	.4273	.4295	.3898	.3727	.3395	.3192
	2.8881	3.6514	3.7108	3.5300	3.9499	3.9384	4.4159	4.6581
9	.4241	.4509	.4316	.4091	.3984	.3748	.3470	.2517
	3.6514	3.3946	3.6717	3.8334	3.7649	4.0968	4.2662	5.9512
10	.4273	.4316	.4177	.4155	.3888	.3674	.3481	.3127
	3.7108	3.6717	3.8007	3.6878	4.0369	4.2598	4.3351	4.8421
11	.4295	.4091	.4155	.3898	.3802	.3599	.3256	.2174
	3.5300	3.8334	3.6878	4.0300	3.8588	4.2196	4.5837	7.1434
12	.3898	.3984	.3888	.3802	.3363	.3267	.2956	
	3.9499	3.7583	4.0369	3.8588	4.0708	4.1093	5.0254	
13	.3727	.3748	.3674	.3599	.3267	.2935	.2206	
	3.9384	4.0891	4.2598	4.2196	4.1093	4.5318	6.5394	
14	.3395	.3470	.3481	.3256	.2956	.2206		
	4.4159	4.2662	4.3272	4.5837	5.0254	6.5394		
15	.3192	.2517	.3127	.2174	F-SUB-Q			
	4.6581	5.9512	4.8421	7.1268	M-SUB-Q			

AT 100% POWER, 4 EFPD, THIS IS LEVEL 23 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	.7036	.9832	1.0046	.8268	.8450	.6940	.7561	.4445
	2.0666	1.6412	1.6223	1.8978	1.8691	2.1930	2.0463	3.4403
9	.9832	.8664	.9950	.9393	.7518	.8439	.7422	.5344
	1.6412	1.8210	1.6412	1.7136	2.0770	1.8882	2.0532	2.8748
10	1.0046	.9950	.9757	.8032	.8814	.8718	.7626	.4145
	1.6223	1.6412	1.6711	1.9583	1.8253	1.8349	2.0401	3.7794
11	.8268	.9393	.8022	.8461	.7433	.8439	.7572	.4338
	1.8978	1.7136	1.9601	1.8924	2.0591	1.8587	2.0153	3.6584
12	.8450	.7529	.8814	.7433	.7379	.7240	.5869	
	1.8691	2.0752	1.8253	2.0591	1.8714	1.9783	2.6182	
13	.6940	.8450	.8718	.8439	.7240	.7144	.4637	
	2.1930	1.8868	1.8345	1.8587	1.9783	2.0074	3.2383	
14	.7561	.7433	.7626	.7572	.5869	.4637		
	2.0463	2.0532	2.0401	2.0153	2.6182	3.2383		
15	.4445	.5355	.4155	.4338	F-SUB-Q			
	3.4403	2.8711	3.7794	3.6584	M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 100% POWER, 4 EFPD, THIS IS LEVEL 22 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9436	* 1.2359	* 1.2638	* 1.0496	* 1.0485	* .8771	* .9543	* .5494
	* 1.7315	* 1.3453	* 1.3221	* 1.5233	* 1.5397	* 1.7695	* 1.6572	* 2.8427
9	* 1.2359	* 1.1031	* 1.2466	* 1.1749	* .9628	* 1.0699	* .9671	* .6747
	* 1.3453	* 1.4656	* 1.3421	* 1.3992	* 1.6548	* 1.5219	* 1.6128	* 2.3253
10	* 1.2638	* 1.2466	* 1.2242	* 1.0196	* 1.1160	* 1.1117	* 1.0003	* .5194
	* 1.3221	* 1.3421	* 1.3592	* 1.5741	* 1.4730	* 1.4700	* 1.5875	* 3.0859
11	* 1.0496	* 1.1749	* 1.0174	* 1.0549	* .9607	* 1.0828	* 1.0014	* .5430
	* 1.5233	* 1.3992	* 1.5764	* 1.5575	* 1.6358	* 1.4902	* 1.5615	* 2.9939
12	* 1.0485	* .9628	* 1.1160	* .9607	* 1.0314	* .9768	* .7454	
	* 1.5397	* 1.6548	* 1.4730	* 1.6358	* 1.5069	* 1.5452	* 2.1300	
13	* .8771	* 1.0710	* 1.1117	* 1.0828	* .9768	* .9714	* .5965	
	* 1.7695	* 1.5210	* 1.4698	* 1.4902	* 1.5452	* 1.5434	* 2.6046	
14	* .9543	* .9671	* 1.0003	* 1.0025	* .7454	* .5965		
	* 1.6572	* 1.6115	* 1.5875	* 1.5615	* 2.1300	* 2.6046		
15	* .5494	* .6758	* .5194	* .5430	* F-SUB-Q			
	* 2.8427	* 2.3229	* 3.0859	* 2.9939	* M-SUB-Q			

AT 100% POWER, 4 EFPD, THIS IS LEVEL 21 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.0699	* 1.4116	* 1.4437	* 1.2177	* 1.2092	* 1.0303	* 1.1149	* .6265
	* 1.5826	* 1.2118	* 1.1894	* 1.3373	* 1.3630	* 1.5301	* 1.4472	* 2.5498
9	* 1.4116	* 1.2798	* 1.4234	* 1.3462	* 1.1320	* 1.2413	* 1.1524	* .7829
	* 1.2118	* 1.2960	* 1.2035	* 1.2455	* 1.4344	* 1.3388	* 1.3797	* 2.0507
10	* 1.4437	* 1.4234	* 1.3977	* 1.1856	* 1.2981	* 1.2938	* 1.1963	* .6040
	* 1.1894	* 1.2035	* 1.2146	* 1.3790	* 1.2972	* 1.2970	* 1.3566	* 2.7159
11	* 1.2177	* 1.3473	* 1.1835	* 1.2231	* 1.1385	* 1.2691	* 1.2017	* .6287
	* 1.3373	* 1.2455	* 1.3815	* 1.3819	* 1.4188	* 1.3092	* 1.3366	* 2.6574
12	* 1.2092	* 1.1331	* 1.2981	* 1.1374	* 1.2274	* 1.1856	* .8707	
	* 1.3630	* 1.4343	* 1.2972	* 1.4191	* 1.3161	* 1.3191	* 1.8804	
13	* 1.0303	* 1.2424	* 1.2938	* 1.2691	* 1.1856	* 1.1877	* .7015	
	* 1.5301	* 1.3380	* 1.2970	* 1.3092	* 1.3191	* 1.3067	* 2.2942	
14	* 1.1149	* 1.1535	* 1.1963	* 1.2017	* .8707	* .7015		
	* 1.4472	* 1.3789	* 1.3566	* 1.3364	* 1.8804	* 2.2942		
15	* .6265	* .7840	* .6040	* .6287	* F-SUB-Q			
	* 2.5498	* 2.0486	* 2.7159	* 2.6574	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 100% POWER, 4 EFPD, THIS IS LEVEL 20 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.1224	* 1.4908	* 1.5240	* 1.3045	* 1.2948	* 1.1171	* 1.2059	* .6672
	* 1.5613	* 1.1831	* 1.1607	* 1.2758	* 1.3030	* 1.4349	* 1.3693	* 2.4546
9	* 1.4908	* 1.3655	* 1.5037	* 1.4298	* 1.2274	* 1.3334	* 1.2606	* .8418
	* 1.1831	* 1.2454	* 1.1651	* 1.2008	* 1.3516	* 1.2759	* 1.2902	* 1.9600
10	* 1.5240	* 1.5037	* 1.4791	* 1.2713	* 1.3987	* 1.3923	* 1.3109	* .6512
	* 1.1607	* 1.1651	* 1.1748	* 1.3134	* 1.2388	* 1.2421	* 1.2649	* 2.5808
11	* 1.3045	* 1.4298	* 1.2691	* 1.3141	* 1.2402	* 1.3741	* 1.3184	* .6758
	* 1.2758	* 1.2003	* 1.3158	* 1.3261	* 1.3408	* 1.2481	* 1.2541	* 2.5469
12	* 1.2948	* 1.2284	* 1.3987	* 1.2402	* 1.3409	* 1.3098	* .9425	*
	* 1.3030	* 1.3508	* 1.2395	* 1.3413	* 1.2490	* 1.2343	* 1.7976	*
13	* 1.1171	* 1.3345	* 1.3923	* 1.3741	* 1.3098	* 1.3195	* .7615	*
	* 1.4349	* 1.2753	* 1.2423	* 1.2481	* 1.2348	* 1.2170	* 2.1926	*
14	* 1.2059	* 1.2606	* 1.3109	* 1.3184	* .9425	* .7615	*	*
	* 1.3693	* 1.2894	* 1.2648	* 1.2541	* 1.7976	* 2.1926	*	*
15	* .6672	* .8429	* .6501	* .6758	* F-SUB-Q			
	* 2.4546	* 1.9583	* 2.5808	* 2.5469	* M-SUB-Q			

AT 100% POWER, 4 EFPD, THIS IS LEVEL 19 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.1503	* 1.5305	* 1.5647	* 1.3505	* 1.3452	* 1.1727	* 1.2638	* .6929
	* 1.5730	* 1.1873	* 1.1610	* 1.2613	* 1.2873	* 1.3996	* 1.3419	* 2.4275
9	* 1.5305	* 1.4105	* 1.5444	* 1.4748	* 1.2863	* 1.3902	* 1.3280	* .8782
	* 1.1873	* 1.2323	* 1.1615	* 1.1937	* 1.3198	* 1.2542	* 1.2549	* 1.9335
10	* 1.5647	* 1.5444	* 1.5219	* 1.3205	* 1.4630	* 1.4566	* 1.3837	* .6822
	* 1.1610	* 1.1615	* 1.1699	* 1.2956	* 1.2194	* 1.2240	* 1.2269	* 2.5270
11	* 1.3505	* 1.4748	* 1.3184	* 1.3687	* 1.3045	* 1.4416	* 1.3934	* .7069
	* 1.2613	* 1.1937	* 1.2978	* 1.3128	* 1.3136	* 1.2290	* 1.2226	* 2.5008
12	* 1.3452	* 1.2873	* 1.4619	* 1.3045	* 1.4137	* 1.3902	* .9896	*
	* 1.2873	* 1.3197	* 1.2200	* 1.3136	* 1.2321	* 1.2076	* 1.7782	*
13	* 1.1727	* 1.3912	* 1.4555	* 1.4416	* 1.3902	* 1.4052	* .8011	*
	* 1.3996	* 1.2542	* 1.2240	* 1.2290	* 1.2076	* 1.1877	* 2.1708	*
14	* 1.2638	* 1.3280	* 1.3837	* 1.3934	* .9896	* .8011	*	*
	* 1.3419	* 1.2542	* 1.2263	* 1.2226	* 1.7782	* 2.1708	*	*
15	* .6929	* .8793	* .6822	* .7069	* F-SUB-Q			
	* 2.4275	* 1.9318	* 2.5274	* 2.5008	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 100% POWER, 4 EFPD, THIS IS LEVEL 18 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.1717	* 1.5712	* 1.6065	* 1.3923	* 1.3934	* 1.2242	* 1.3195	* .7197 *
	* 1.5948	* 1.1854	* 1.1556	* 1.2562	* 1.2803	* 1.3796	* 1.3248	* 2.4135 *
9	* 1.5712	* 1.4512	* 1.5872	* 1.5208	* 1.3409	* 1.4469	* 1.3902	* .9136 *
	* 1.1854	* 1.2275	* 1.1612	* 1.1913	* 1.3008	* 1.2384	* 1.2331	* 1.9171 *
10	* 1.6065	* 1.5862	* 1.5669	* 1.3645	* 1.5262	* 1.5187	* 1.4501	* .7101 *
	* 1.1556	* 1.1612	* 1.1689	* 1.2870	* 1.1998	* 1.2037	* 1.2009	* 2.5004 *
11	* 1.3923	* 1.5208	* 1.3612	* 1.4212	* 1.3634	* 1.5080	* 1.4630	* .7358 *
	* 1.2562	* 1.1913	* 1.2893	* 1.2985	* 1.2938	* 1.2140	* 1.1974	* 2.4654 *
12	* 1.3934	* 1.3409	* 1.5262	* 1.3634	* 1.4833	* 1.4630	* 1.0346 *	
	* 1.2803	* 1.3000	* 1.1998	* 1.2938	* 1.2198	* 1.1894	* 1.7637 *	
13	* 1.2242	* 1.4480	* 1.5187	* 1.5080	* 1.4630	* 1.4823	* .8397 *	
	* 1.3796	* 1.2377	* 1.2043	* 1.2146	* 1.1894	* 1.1683	* 2.1543 *	
14	* 1.3195	* 1.3902	* 1.4501	* 1.4630	* 1.0346	* .8397 *		
	* 1.3248	* 1.2331	* 1.2009	* 1.1974	* 1.7637	* 2.1543 *		
15	* .7197	* .9136	* .7101	* .7358	* F-SUB-Q			
	* 2.4135	* 1.9169	* 2.5029	* 2.4654	* M-SUB-Q			

AT 100% POWER, 4 EFPD, THIS IS LEVEL 17 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.1717	* 1.5808	* 1.6194	* 1.4137	* 1.4159	* 1.2552	* 1.3505	* .7304 *
	* 1.6464	* 1.2138	* 1.1769	* 1.2811	* 1.3041	* 1.3962	* 1.3399	* 2.4654 *
9	* 1.5808	* 1.4694	* 1.6001	* 1.5380	* 1.3730	* 1.4748	* 1.4298	* .9296 *
	* 1.2138	* 1.2473	* 1.1862	* 1.2168	* 1.3131	* 1.2527	* 1.2439	* 1.9503 *
10	* 1.6194	* 1.5990	* 1.5819	* 1.3869	* 1.5626	* 1.5519	* 1.4940	* .7251 *
	* 1.1769	* 1.1862	* 1.1936	* 1.3105	* 1.2044	* 1.2150	* 1.2039	* 2.5332 *
11	* 1.4137	* 1.5380	* 1.3848	* 1.4469	* 1.4009	* 1.5455	* 1.5101	* .7508 *
	* 1.2811	* 1.2168	* 1.3129	* 1.3149	* 1.3006	* 1.2196	* 1.1995	* 2.4858 *
12	* 1.4159	* 1.3741	* 1.5615	* 1.4009	* 1.5251	* 1.5133	* 1.0592 *	
	* 1.3041	* 1.3130	* 1.2044	* 1.3014	* 1.2348	* 1.1995	* 1.7775 *	
13	* 1.2552	* 1.4758	* 1.5519	* 1.5444	* 1.5123	* 1.5369	* .8589 *	
	* 1.3962	* 1.2527	* 1.2156	* 1.2202	* 1.1995	* 1.1769	* 2.1861 *	
14	* 1.3505	* 1.4298	* 1.4940	* 1.5101	* 1.0592	* .8589 *		
	* 1.3399	* 1.2433	* 1.2039	* 1.1995	* 1.7775	* 2.1861 *		
15	* .7304	* .9307	* .7251	* .7497	* F-SUB-Q			
	* 2.4654	* 1.9487	* 2.5332	* 2.4868	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 100% POWER, 4 EFPD, THIS IS LEVEL 16 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.1802	* 1.5969	* 1.6376	* 1.4341	* 1.4416	* 1.2852	* 1.3837	* .7443
	* 1.7064	* 1.2379	* 1.2005	* 1.3214	* 1.3326	* 1.4332	* 1.3618	* 2.5214
9	* 1.5969	* 1.4887	* 1.6183	* 1.5594	* 1.4052	* 1.5069	* 1.4673	* .9478
	* 1.2379	* 1.2829	* 1.2133	* 1.2448	* 1.3413	* 1.2715	* 1.2689	* 1.9907
10	* 1.6376	* 1.6183	* 1.6022	* 1.4094	* 1.6011	* 1.5894	* 1.5358	* .7422
	* 1.2005	* 1.2133	* 1.2199	* 1.3483	* 1.2154	* 1.2259	* 1.2228	* 2.5690
11	* 1.4341	* 1.5594	* 1.4062	* 1.4758	* 1.4373	* 1.5851	* 1.5540	* .7668
	* 1.3214	* 1.2448	* 1.3507	* 1.3326	* 1.3294	* 1.2378	* 1.2202	* 2.5178
12	* 1.4416	* 1.4052	* 1.6001	* 1.4362	* 1.5679	* 1.5594	* 1.0860	*
	* 1.3326	* 1.3412	* 1.2158	* 1.3302	* 1.2486	* 1.2199	* 1.8038	*
13	* 1.2852	* 1.5069	* 1.5883	* 1.5840	* 1.5583	* 1.5862	* .8814	*
	* 1.4332	* 1.2709	* 1.2261	* 1.2378	* 1.2199	* 1.1937	* 2.2160	*
14	* 1.3837	* 1.4673	* 1.5358	* 1.5530	* 1.0860	* .8814	*	*
	* 1.3618	* 1.2682	* 1.2228	* 1.2202	* 1.8052	* 2.2160	*	*
15	* .7443	* .9489	* .7411	* .7658	F-SUB-Q			
	* 2.5214	* 1.9890	* 2.5716	* 2.5178	M-SUB-Q			

AT 100% POWER, 4 EFPD, THIS IS LEVEL 15 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.1620	* 1.5851	* 1.6258	* 1.4255	* 1.4373	* 1.2873	* 1.3880	* .7443
	* 1.7895	* 1.2979	* 1.2608	* 1.4002	* 1.3992	* 1.5135	* 1.4235	* 2.6427
9	* 1.5851	* 1.4780	* 1.6076	* 1.5519	* 1.4062	* 1.5101	* 1.4705	* .9468
	* 1.2979	* 1.3593	* 1.2732	* 1.3068	* 1.4099	* 1.3248	* 1.3327	* 2.0861
10	* 1.6258	* 1.6076	* 1.5936	* 1.4030	* 1.6076	* 1.5958	* 1.5422	* .7401
	* 1.2608	* 1.2732	* 1.2795	* 1.4263	* 1.2632	* 1.2697	* 1.2806	* 2.6944
11	* 1.4255	* 1.5519	* 1.3998	* 1.4748	* 1.4426	* 1.5936	* 1.5615	* .7668
	* 1.4002	* 1.3068	* 1.4290	* 1.3867	* 1.3860	* 1.2757	* 1.2708	* 2.6240
12	* 1.4373	* 1.4073	* 1.6065	* 1.4416	* 1.5787	* 1.5690	* 1.0913	*
	* 1.3992	* 1.4099	* 1.2638	* 1.3868	* 1.3008	* 1.2821	* 1.8743	*
13	* 1.2873	* 1.5101	* 1.5958	* 1.5926	* 1.5690	* 1.5979	* .8857	*
	* 1.5135	* 1.3247	* 1.2701	* 1.2764	* 1.2821	* 1.2543	* 2.3142	*
14	* 1.3880	* 1.4716	* 1.5422	* 1.5615	* 1.0913	* .8857	*	*
	* 1.4235	* 1.3327	* 1.2806	* 1.2708	* 1.8743	* 2.3142	*	*
15	* .7443	* .9478	* .7390	* .7668	F-SUB-Q			
	* 2.6427	* 2.0842	* 2.6944	* 2.6240	M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 100% POWER, 4 EFPD, THIS IS LEVEL 14 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.1717	* 1.6022	* 1.6451	* 1.4501	* 1.4641	* 1.3184	* 1.4223	* .7561
	* 1.8652	* 1.3507	* 1.3085	* 1.4623	* 1.4504	* 1.5710	* 1.4682	* 2.7443
9	* 1.6022	* 1.5037	* 1.6268	* 1.5754	* 1.4405	* 1.5422	* 1.5133	* .9650
	* 1.3507	* 1.4167	* 1.3226	* 1.3579	* 1.4599	* 1.3669	* 1.3765	* 2.1571
10	* 1.6451	* 1.6268	* 1.6151	* 1.4287	* 1.6483	* 1.6322	* 1.5883	* .7572
	* 1.3085	* 1.3226	* 1.3294	* 1.4859	* 1.2958	* 1.3064	* 1.3171	* 2.7701
11	* 1.4501	* 1.5754	* 1.4255	* 1.5048	* 1.4812	* 1.6343	* 1.6108	* .7818
	* 1.4623	* 1.3579	* 1.4888	* 1.4297	* 1.4294	* 1.3064	* 1.3047	* 2.7028
12	* 1.4641	* 1.4405	* 1.6472	* 1.4801	* 1.6236	* 1.6204	* 1.1160	*
	* 1.4504	* 1.4599	* 1.2965	* 1.4308	* 1.3213	* 1.3069	* 1.9193	*
13	* 1.3184	* 1.5433	* 1.6322	* 1.6333	* 1.6204	* 1.6547	* .9061	*
	* 1.5710	* 1.3662	* 1.3064	* 1.3067	* 1.3072	* 1.2782	* 2.3669	*
14	* 1.4223	* 1.5133	* 1.5883	* 1.6108	* 1.1160	* .9050	*	*
	* 1.4682	* 1.3758	* 1.3171	* 1.3050	* 1.9203	* 2.3669	*	*
15	* .7561	* .9650	* .7561	* .7818	* F-SUB-Q			
	* 2.7443	* 2.1571	* 2.7705	* 2.7032	* M-SUB-Q			

AT 100% POWER, 4 EFPD, THIS IS LEVEL 13 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.1652	* 1.6033	* 1.6483	* 1.4555	* 1.4737	* 1.3323	* 1.4373	* .7604
	* 1.9832	* 1.4303	* 1.3872	* 1.5586	* 1.5321	* 1.6645	* 1.5427	* 2.8981
9	* 1.6033	* 1.5080	* 1.6301	* 1.5808	* 1.4555	* 1.5583	* 1.5337	* .9703
	* 1.4303	* 1.5102	* 1.4013	* 1.4375	* 1.5445	* 1.4378	* 1.4527	* 2.2729
10	* 1.6483	* 1.6301	* 1.6194	* 1.4351	* 1.6686	* 1.6515	* 1.6129	* .7626
	* 1.3872	* 1.4013	* 1.4081	* 1.5808	* 1.3555	* 1.3682	* 1.3857	* 2.9122
11	* 1.4555	* 1.5808	* 1.4330	* 1.5197	* 1.5005	* 1.6568	* 1.6376	* .7883
	* 1.5586	* 1.4375	* 1.5840	* 1.5000	* 1.5068	* 1.3667	* 1.3717	* 2.8349
12	* 1.4737	* 1.4555	* 1.6675	* 1.4994	* 1.6493	* 1.6493	* 1.1288	*
	* 1.5321	* 1.5436	* 1.3564	* 1.5078	* 1.3772	* 1.3702	* 2.0090	*
13	* 1.3323	* 1.5583	* 1.6504	* 1.6558	* 1.6483	* 1.6858	* .9157	*
	* 1.6645	* 1.4378	* 1.3683	* 1.3675	* 1.3705	* 1.3370	* 2.4726	*
14	* 1.4373	* 1.5337	* 1.6119	* 1.6365	* 1.1288	* .9157	*	*
	* 1.5427	* 1.4527	* 1.3864	* 1.3718	* 2.0096	* 2.4726	*	*
15	* .7604	* .9703	* .7626	* .7872	* F-SUB-Q			
	* 2.8981	* 2.2726	* 2.9126	* 2.8349	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OF MARGIN) - NORMAL OPERATION

AT 100% POWER, 4 EFPD, THIS IS LEVEL 12 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.1535	* 1.5904	* 1.6376	* 1.4469	* 1.4673	* 1.3313	* 1.4373	* .7593
	* 2.0972	* 1.5268	* 1.4853	* 1.6760	* 1.6377	* 1.7795	* 1.6427	* 3.0866
9	* 1.5904	* 1.4983	* 1.6204	* 1.5733	* 1.4555	* 1.5594	* 1.5337	* .9682
	* 1.5268	* 1.6218	* 1.5014	* 1.5398	* 1.6504	* 1.5302	* 1.5514	* 2.4238
10	* 1.6376	* 1.6194	* 1.6108	* 1.4276	* 1.6740	* 1.6568	* 1.6161	* .7615
	* 1.4853	* 1.5014	* 1.5091	* 1.6977	* 1.4391	* 1.4516	* 1.4764	* 3.0983
11	* 1.4469	* 1.5733	* 1.4255	* 1.5197	* 1.5037	* 1.6633	* 1.6429	* .7872
	* 1.6760	* 1.5398	* 1.7014	* 1.5931	* 1.6031	* 1.4472	* 1.4581	* 3.0109
12	* 1.4673	* 1.4555	* 1.6718	* 1.5026	* 1.6579	* 1.6579	* 1.1310	*
	* 1.6377	* 1.6504	* 1.4401	* 1.6052	* 1.4580	* 1.4561	* 2.1289	*
13	* 1.3313	* 1.5594	* 1.6558	* 1.6622	* 1.6568	* 1.6954	* .9168	*
	* 1.7795	* 1.5302	* 1.4525	* 1.4481	* 1.4561	* 1.4207	* 2.6205	*
14	* 1.4373	* 1.5337	* 1.6161	* 1.6418	* 1.1310	* .9168	*	*
	* 1.6427	* 1.5514	* 1.4773	* 1.4581	* 2.1289	* 2.6205	*	*
15	* .7593	* .9682	* .7615	* .7861	* F-SUB-Q			
	* 3.0866	* 2.4216	* 3.1024	* 3.0147	* M-SUB-Q			

AT 100% POWER, 4 EFPD, THIS IS LEVEL 11 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.1631	* 1.6140	* 1.6633	* 1.4716	* 1.4940	* 1.3602	* 1.4716	* .7722
	* 2.0460	* 1.4796	* 1.4362	* 1.6218	* 1.5964	* 1.7513	* 1.6207	* 3.0676
9	* 1.6140	* 1.5230	* 1.6461	* 1.6001	* 1.4876	* 1.5947	* 1.5722	* .9864
	* 1.4796	* 1.5676	* 1.4513	* 1.4928	* 1.6062	* 1.4985	* 1.5189	* 2.4069
10	* 1.6633	* 1.6451	* 1.6376	* 1.4533	* 1.7157	* 1.6965	* 1.6600	* .7765
	* 1.4362	* 1.4522	* 1.4594	* 1.6422	* 1.3960	* 1.4111	* 1.4415	* 3.0596
11	* 1.4716	* 1.6001	* 1.4501	* 1.5530	* 1.5412	* 1.7061	* 1.6890	* .8022
	* 1.6218	* 1.4928	* 1.6457	* 1.5409	* 1.5541	* 1.4044	* 1.4180	* 2.9630
12	* 1.4940	* 1.4876	* 1.7147	* 1.5412	* 1.7029	* 1.7050	* 1.1578	*
	* 1.5964	* 1.6062	* 1.3977	* 1.5551	* 1.4094	* 1.4077	* 2.0640	*
13	* 1.3602	* 1.5947	* 1.6954	* 1.7050	* 1.7050	* 1.7468	* .9382	*
	* 1.7513	* 1.4985	* 1.4120	* 1.4052	* 1.4077	* 1.3740	* 2.5425	*
14	* 1.4716	* 1.5722	* 1.6590	* 1.6879	* 1.1578	* .9382	*	*
	* 1.6207	* 1.5189	* 1.4415	* 1.4188	* 2.0640	* 2.5425	*	*
15	* .7722	* .9875	* .7754	* .8022	* F-SUB-Q			
	* 3.0676	* 2.4069	* 3.0636	* 2.9630	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 100% POWER, 4 EFPD, THIS IS LEVEL 10 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.1588	* 1.6194	* 1.6697	* 1.4823	* 1.5048	* 1.3762	* 1.4876	* .7765
	* 2.0230	* 1.4531	* 1.4094	* 1.5867	* 1.5624	* 1.7040	* 1.5759	* 2.9962
9	* 1.6194	* 1.5337	* 1.6526	* 1.6086	* 1.5048	* 1.6108	* 1.5947	* .9939
	* 1.4531	* 1.5338	* 1.4248	* 1.4621	* 1.5645	* 1.4612	* 1.4759	* 2.3462
10	* 1.6697	* 1.6515	* 1.6451	* 1.4651	* 1.7372	* 1.7157	* 1.6847	* .7818
	* 1.4094	* 1.4248	* 1.4309	* 1.6062	* 1.3573	* 1.3748	* 1.3985	* 2.9888
11	* 1.4823	* 1.6086	* 1.4619	* 1.5679	* 1.5647	* 1.7275	* 1.7157	* .8086
	* 1.5867	* 1.4630	* 1.6095	* 1.5033	* 1.5082	* 1.3652	* 1.3740	* 2.8969
12	* 1.5048	* 1.5048	* 1.7361	* 1.5637	* 1.7275	* 1.7339	* 1.7339	* 1.1706
	* 1.5624	* 1.5645	* 1.3588	* 1.5091	* 1.3676	* 1.3620	* 2.0092	
13	* 1.3762	* 1.6108	* 1.7147	* 1.7265	* 1.7339	* 1.7800	* .9478	
	* 1.7040	* 1.4612	* 1.3756	* 1.3668	* 1.3620	* 1.3266	* 2.4781	
14	* 1.4876	* 1.5947	* 1.6847	* 1.7157	* 1.1706	* .9478		
	* 1.5759	* 1.4759	* 1.3985	* 1.3748	* 2.0109	* 2.4781		
15	* .7765	* .9939	* .7808	* .8075	F-SUB-Q			
	* 2.9962	* 2.3462	* 2.9891	* 2.8972	M-SUB-Q			

AT 100% POWER, 4 EFPD, THIS IS LEVEL 9 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.1578	* 1.6215	* 1.6740	* 1.4887	* 1.5112	* 1.3859	* 1.4983	* .7797
	* 1.9952	* 1.4279	* 1.3832	* 1.5525	* 1.5261	* 1.6599	* 1.5339	* 2.9277
9	* 1.6215	* 1.5390	* 1.6568	* 1.6151	* 1.5165	* 1.6215	* 1.6076	* .9971
	* 1.4279	* 1.5028	* 1.3981	* 1.4321	* 1.5263	* 1.4252	* 1.4373	* 2.2924
10	* 1.6740	* 1.6558	* 1.6504	* 1.4716	* 1.7522	* 1.7297	* 1.7007	* .7850
	* 1.3832	* 1.3981	* 1.4023	* 1.5712	* 1.3263	* 1.3437	* 1.3624	* 2.9168
11	* 1.4887	* 1.6151	* 1.4683	* 1.5776	* 1.5797	* 1.7436	* 1.7329	* .8118
	* 1.5525	* 1.4321	* 1.5744	* 1.4739	* 1.4741	* 1.3355	* 1.3407	* 2.8292
12	* 1.5112	* 1.5165	* 1.7511	* 1.5787	* 1.7436	* 1.7522	* 1.1781	
	* 1.5261	* 1.5263	* 1.3278	* 1.4750	* 1.3364	* 1.3296	* 1.9701	
13	* 1.3859	* 1.6215	* 1.7286	* 1.7425	* 1.7522	* 1.7993	* .9532	
	* 1.6599	* 1.4252	* 1.3445	* 1.3363	* 1.3296	* 1.2944	* 2.4316	
14	* 1.4983	* 1.6076	* 1.6997	* 1.7329	* 1.1781	* .9532		
	* 1.5339	* 1.4373	* 1.3631	* 1.3415	* 1.9701	* 2.4316		
15	* .7797	* .9971	* .7850	* .8107	F-SUB-Q			
	* 2.9277	* 2.2924	* 2.9171	* 2.8294	M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 100% POWER, 4 EFPD, THIS IS LEVEL 8 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.1535	* 1.6226	* 1.6761	* 1.4876	* 1.5133	* 1.3869	* 1.5026	* .7797
	* 1.9639	* 1.4000	* 1.3561	* 1.5255	* 1.4962	* 1.6281	* 1.5027	* 2.8758
9	* 1.6226	* 1.5380	* 1.6590	* 1.6172	* 1.5197	* 1.6279	* 1.6097	* .9971
	* 1.4000	* 1.4765	* 1.3704	* 1.4032	* 1.4953	* 1.3939	* 1.4090	* 2.2517
10	* 1.6761	* 1.6579	* 1.6536	* 1.4716	* 1.7597	* 1.7393	* 1.7040	* .7829
	* 1.3561	* 1.3705	* 1.3744	* 1.5426	* 1.2956	* 1.3116	* 1.3346	* 2.8693
11	* 1.4876	* 1.6172	* 1.4683	* 1.5840	* 1.5840	* 1.7522	* 1.7372	* .8118
	* 1.5255	* 1.4040	* 1.5457	* 1.4406	* 1.4440	* 1.3036	* 1.3123	* 2.7776
12	* 1.5133	* 1.5187	* 1.7586	* 1.5840	* 1.7532	* 1.7575	* 1.1813	*
	* 1.4962	* 1.4953	* 1.2971	* 1.4449	* 1.3090	* 1.3039	* 1.9270	*
13	* 1.3869	* 1.6279	* 1.7382	* 1.7511	* 1.7575	* 1.8036	* .9553	*
	* 1.6281	* 1.3939	* 1.3123	* 1.3043	* 1.3046	* 1.2707	* 2.3785	*
14	* 1.5026	* 1.6097	* 1.7029	* 1.7361	* 1.1802	* .9553	*	*
	* 1.5027	* 1.4090	* 1.3353	* 1.3123	* 1.9285	* 2.3785	*	*
15	* .7797	* .9971	* .7829	* .8107	F-SUB-Q			
	* 2.8758	* 2.2517	* 2.8728	* 2.7779	M-SUB-Q			

AT 100% POWER, 4 EFPD, THIS IS LEVEL 7 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.1717	* 1.6526	* 1.7093	* 1.5230	* 1.5465	* 1.4201	* 1.5380	* .7915
	* 1.8992	* 1.3516	* 1.3071	* 1.4657	* 1.4395	* 1.5625	* 1.4414	* 2.7757
9	* 1.6526	* 1.5744	* 1.6922	* 1.6526	* 1.5572	* 1.6633	* 1.6515	* 1.0142
	* 1.3516	* 1.4187	* 1.3204	* 1.3516	* 1.4343	* 1.3415	* 1.3507	* 2.1716
10	* 1.7093	* 1.6922	* 1.6879	* 1.5069	* 1.8046	* 1.7779	* 1.7489	* .7990
	* 1.3071	* 1.3211	* 1.3241	* 1.4815	* 1.2415	* 1.2602	* 1.2779	* 2.7651
11	* 1.5230	* 1.6515	* 1.5037	* 1.6183	* 1.6247	* 1.7939	* 1.7843	* .8247
	* 1.4657	* 1.3516	* 1.4843	* 1.3845	* 1.3829	* 1.2508	* 1.2548	* 2.6867
12	* 1.5465	* 1.5572	* 1.8025	* 1.6236	* 1.7950	* 1.8057	* 1.2027	*
	* 1.4395	* 1.4343	* 1.2428	* 1.3830	* 1.2530	* 1.2456	* 1.8573	*
13	* 1.4201	* 1.6633	* 1.7768	* 1.7929	* 1.8057	* 1.8550	* .9703	*
	* 1.5625	* 1.3415	* 1.2608	* 1.2515	* 1.2457	* 1.2122	* 2.2978	*
14	* 1.5380	* 1.6515	* 1.7489	* 1.7832	* 1.2027	* .9703	*	*
	* 1.4414	* 1.3507	* 1.2779	* 1.2555	* 1.8588	* 2.2978	*	*
15	* .7915	* 1.0142	* .7979	* .8236	F-SUB-Q			
	* 2.7757	* 2.1716	* 2.7684	* 2.6891	M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 100% POWER, 4 EFPD, THIS IS LEVEL 6 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.1792	* 1.6686	* 1.7286	* 1.5412	* 1.5669	* 1.4341	* 1.5540	* .7958
	* 1.8377	* 1.3037	* 1.2590	* 1.4111	* 1.3845	* 1.5101	* 1.3911	* 2.6974
9	* 1.6686	* 1.5926	* 1.7136	* 1.6740	* 1.5754	* 1.6804	* 1.6665	* 1.0196
	* 1.3037	* 1.3668	* 1.2712	* 1.2994	* 1.3820	* 1.2937	* 1.3045	* 2.1104
10	* 1.7286	* 1.7125	* 1.7082	* 1.5262	* 1.8282	* 1.7993	* 1.7650	* .8022
	* 1.2590	* 1.2712	* 1.2747	* 1.4266	* 1.1955	* 1.2153	* 1.2351	* 2.6881
11	* 1.5412	* 1.6729	* 1.5230	* 1.6386	* 1.6418	* 1.8143	* 1.8004	* .8268
	* 1.4111	* 1.3001	* 1.4292	* 1.3349	* 1.3356	* 1.2072	* 1.2147	* 2.6133
12	* 1.5669	* 1.5754	* 1.8261	* 1.6408	* 1.8153	* 1.8228	* 1.2102	*
	* 1.3845	* 1.3829	* 1.1973	* 1.3372	* 1.2115	* 1.2059	* 1.8052	*
13	* 1.4341	* 1.6804	* 1.7971	* 1.8132	* 1.8228	* 1.8710	* .9746	*
	* 1.5101	* 1.2937	* 1.2165	* 1.2084	* 1.2065	* 1.1757	* 2.2392	*
14	* 1.5540	* 1.6654	* 1.7639	* 1.7993	* 1.2102	* .9746	*	*
	* 1.3911	* 1.3052	* 1.2358	* 1.2153	* 1.8052	* 2.2392	*	*
15	* .7958	* 1.0196	* .8011	* .8257	* F-SUB-Q			
	* 2.6974	* 2.1104	* 2.6912	* 2.6162	* M-SUB-Q			

AT 100% POWER, 4 EFPD, THIS IS LEVEL 5 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.1685	* 1.6600	* 1.7254	* 1.5347	* 1.5690	* 1.4201	* 1.5444	* .7893
	* 1.8079	* 1.2782	* 1.2312	* 1.3829	* 1.3495	* 1.4881	* 1.3668	* 2.6547
9	* 1.6600	* 1.5819	* 1.7125	* 1.6750	* 1.5679	* 1.6718	* 1.6429	* 1.0057
	* 1.2782	* 1.3417	* 1.2397	* 1.2671	* 1.3549	* 1.2685	* 1.2908	* 2.0897
10	* 1.7254	* 1.7115	* 1.7093	* 1.5219	* 1.8250	* 1.7929	* 1.7372	* .7872
	* 1.2312	* 1.2403	* 1.2430	* 1.3960	* 1.1675	* 1.1882	* 1.2229	* 2.6698
11	* 1.5347	* 1.6750	* 1.5176	* 1.6397	* 1.6268	* 1.8057	* 1.7714	* .8129
	* 1.3829	* 1.2671	* 1.3985	* 1.2994	* 1.3103	* 1.1816	* 1.2022	* 2.5902
12	* 1.5690	* 1.5669	* 1.8228	* 1.6247	* 1.8036	* 1.7993	* 1.1952	*
	* 1.3495	* 1.3557	* 1.1687	* 1.3117	* 1.1852	* 1.1888	* 1.7792	*
13	* 1.4201	* 1.6718	* 1.7918	* 1.8036	* 1.7982	* 1.8368	* .9596	*
	* 1.4881	* 1.2685	* 1.1888	* 1.1828	* 1.1894	* 1.1640	* 2.2118	*
14	* 1.5444	* 1.6429	* 1.7372	* 1.7704	* 1.1952	* .9596	*	*
	* 1.3668	* 1.2908	* 1.2235	* 1.2028	* 1.7792	* 2.2118	*	*
15	* .7893	* 1.0057	* .7872	* .8129	* F-SUB-Q			
	* 2.6547	* 2.0878	* 2.6728	* 2.5931	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 100% POWER, 4 EFPD, THIS IS LEVEL 4 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.1749	* 1.6729	* 1.7447	* 1.5551	* 1.6161	* 1.4351	* 1.5658	* .7936 *
	* 1.7618	* 1.2423	* 1.1924	* 1.3364	* 1.2838	* 1.4424	* 1.3199	* 2.5902 *
9	* 1.6729	* 1.5958	* 1.7404	* 1.7115	* 1.5904	* 1.6954	* 1.6440	* 1.0046 *
	* 1.2423	* 1.3030	* 1.1949	* 1.2147	* 1.3074	* 1.2254	* 1.2624	* 2.0495 *
10	* 1.7447	* 1.7393	* 1.7361	* 1.5476	* 1.8582	* 1.8121	* 1.7318	* .7861 *
	* 1.1924	* 1.1955	* 1.1985	* 1.3441	* 1.1218	* 1.1498	* 1.2004	* 2.6220 *
11	* 1.5551	* 1.7104	* 1.5444	* 1.6858	* 1.6451	* 1.8239	* 1.7639	* .8086 *
	* 1.3364	* 1.2153	* 1.3471	* 1.2351	* 1.2678	* 1.1442	* 1.1804	* 2.5536 *
12	* 1.6161	* 1.5904	* 1.8560	* 1.6429	* 1.8271	* 1.8046	* 1.1942	*
	* 1.2838	* 1.3081	* 1.1234	* 1.2692	* 1.1436	* 1.1577	* 1.7422	*
13	* 1.4351	* 1.6954	* 1.8111	* 1.8218	* 1.8046	* 1.8303	* .9543	*
	* 1.4424	* 1.2254	* 1.1509	* 1.1453	* 1.1583	* 1.1408	* 2.1749	*
14	* 1.5658	* 1.6440	* 1.7318	* 1.7639	* 1.1942	* .9543	*	
	* 1.3199	* 1.2630	* 1.2010	* 1.1810	* 1.7422	* 2.1769	*	
15	* .7936	* 1.0046	* .7850	* .8075	* F-SUB-Q			
	* 2.5902	* 2.0495	* 2.6250	* 2.5563	* M-SUB-Q			

AT 100% POWER, 4 EFPD, THIS IS LEVEL 3 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.1353	* 1.6065	* 1.6729	* 1.5251	* 1.6440	* 1.4384	* 1.5465	* .7711 *
	* 1.7941	* 1.2726	* 1.2222	* 1.3410	* 1.2410	* 1.4171	* 1.3147	* 2.6220 *
9	* 1.6065	* 1.5455	* 1.6879	* 1.6825	* 1.5679	* 1.6536	* 1.5808	* .9660 *
	* 1.2726	* 1.3236	* 1.2115	* 1.2153	* 1.3037	* 1.2345	* 1.2894	* 2.0990 *
10	* 1.6729	* 1.6868	* 1.6793	* 1.5508	* 1.8218	* 1.7425	* 1.6429	* .7604 *
	* 1.2222	* 1.2128	* 1.2184	* 1.3199	* 1.1234	* 1.1751	* 1.2443	* 2.6667 *
11	* 1.5251	* 1.6815	* 1.5433	* 1.7157	* 1.6129	* 1.7618	* 1.6600	* .7722 *
	* 1.3410	* 1.2153	* 1.3251	* 1.1924	* 1.2706	* 1.1629	* 1.2332	* 2.6308 *
12	* 1.6440	* 1.5679	* 1.8196	* 1.6119	* 1.8239	* 1.7489	* 1.1492	*
	* 1.2410	* 1.3037	* 1.1250	* 1.2719	* 1.1239	* 1.1728	* 1.7792	*
13	* 1.4384	* 1.6536	* 1.7414	* 1.7607	* 1.7489	* 1.7361	* .9093	*
	* 1.4171	* 1.2345	* 1.1757	* 1.1640	* 1.1734	* 1.1810	* 2.2435	*
14	* 1.5465	* 1.5808	* 1.6418	* 1.6590	* 1.1481	* .9093	*	
	* 1.3147	* 1.2894	* 1.2443	* 1.2338	* 1.7805	* 2.2435	*	
15	* .7711	* .9660	* .7593	* .7722	* F-SUB-Q			
	* 2.6220	* 2.0972	* 2.6698	* 2.6308	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 100% POWER, 4 EFPD, THIS IS LEVEL 2 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9821	* 1.3602	* 1.4276	* 1.6183	* 1.5230	* 1.5562	* 1.3998	* .6812
	* 2.0495	* 1.4825	* 1.4120	* 1.2449	* 1.3214	* 1.2922	* 1.4344	* 2.9371
9	* 1.3602	* 1.5562	* 1.4287	* 1.4973	* 1.6451	* 1.4319	* 1.4898	* .8429
	* 1.4825	* 1.2965	* 1.4120	* 1.3464	* 1.2248	* 1.4069	* 1.3502	* 2.3752
10	* 1.4276	* 1.4287	* 1.4812	* 1.6825	* 1.5958	* 1.4555	* 1.4940	* .6737
	* 1.4120	* 1.4120	* 1.3620	* 1.1991	* 1.2651	* 1.3878	* 1.3479	* 2.9743
11	* 1.6183	* 1.4962	* 1.6772	* 1.5904	* 1.7211	* 1.5272	* 1.4191	* .6758
	* 1.2449	* 1.3471	* 1.2028	* 1.2692	* 1.1734	* 1.3236	* 1.4214	* 2.9668
12	* 1.5230	* 1.6451	* 1.5936	* 1.7190	* 1.6633	* 1.6558	* 1.0153	
	* 1.3214	* 1.2248	* 1.2664	* 1.1751	* 1.2147	* 1.2210	* 1.9854	
13	* 1.5562	* 1.4319	* 1.4533	* 1.5262	* 1.6558	* 1.4737	* .7829	
	* 1.2922	* 1.4069	* 1.3886	* 1.3243	* 1.2210	* 1.3723	* 2.5732	
14	* 1.3998	* 1.4898	* 1.4940	* 1.4180	* 1.0153	* .7829		
	* 1.4344	* 1.3502	* 1.3479	* 1.4214	* 1.9871	* 2.5732		
15	* .6812	* .8429	* .6737	* .6758	* F-SUB-Q			
	* 2.9371	* 2.3752	* 2.9743	* 2.9705	* M-SUB-Q			

AT 100% POWER, 4 EFPD, THIS IS LEVEL 1 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .6833	* .5762	* .6244	* .7165	* .6672	* .6897	* .5998	* .4702
	* 2.9116	* 3.4511	* 3.1885	* 2.7739	* 2.9781	* 2.8794	* 3.3052	* 4.2056
9	* .5762	* .6640	* .5976	* .6715	* .7283	* .6501	* .6008	* .3856
	* 3.4511	* 2.9933	* 3.3334	* 2.9593	* 2.7319	* 3.0556	* 3.3006	* 5.1238
10	* .6244	* .5976	* .6844	* .7486	* .7015	* .6126	* .5965	* .4841
	* 3.1885	* 3.3334	* 2.9080	* 2.6607	* 2.8411	* 3.2548	* 3.3287	* 4.0884
11	* .7165	* .6715	* .7454	* .7079	* .7593	* .6565	* .5548	* .3277
	* 2.7739	* 2.9630	* 2.6698	* 2.8172	* 2.6250	* 3.0359	* 3.5828	* 6.0482
12	* .6672	* .7272	* .6983	* .7583	* .7176	* .6694	* .4905	
	* 2.9781	* 2.7319	* 2.8514	* 2.6279	* 2.7772	* 2.9743	* 4.0531	
13	* .6897	* .6512	* .6115	* .6565	* .6694	* .5955	* .3652	
	* 2.8794	* 3.0516	* 3.2593	* 3.0398	* 2.9781	* 3.3477	* 5.4448	
14	* .5998	* .6008	* .5955	* .5548	* .4905	* .3652		
	* 3.3052	* 3.3006	* 3.3334	* 3.5828	* 4.0601	* 5.4448		
15	* .4702	* .3856	* .4841	* .3277	* F-SUB-Q			
	* 4.2056	* 5.1238	* 4.0884	* 6.0639	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 100% POWER, 50 EFPD, THIS IS LEVEL 24 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .4766 *	* .4091 *	* .4123 *	* .4209 *	* .3888 *	* .3748 *	* .3406 *	* .3159 *
	* 3.1334 *	* 3.9333 *	* 3.9033 *	* 3.6946 *	* 4.0635 *	* 4.0401 *	* 4.5376 *	* 4.8401 *
9	* .4091 *	* .4359 *	* .4177 *	* .4016 *	* .3973 *	* .3727 *	* .3449 *	* .2495 *
	* 3.9333 *	* 3.6446 *	* 3.9315 *	* 3.9964 *	* 3.8702 *	* 4.2047 *	* 4.4105 *	* 6.1527 *
10	* .4123 *	* .4177 *	* .4070 *	* .4113 *	* .3877 *	* .3652 *	* .3449 *	* .3095 *
	* 3.9033 *	* 3.9315 *	* 4.0038 *	* 3.8352 *	* 4.1566 *	* 4.4180 *	* 4.4947 *	* 5.0301 *
11	* .4209 *	* .4016 *	* .4113 *	* .3898 *	* .3813 *	* .3577 *	* .3213 *	* .2153 *
	* 3.6946 *	* 3.9964 *	* 3.8352 *	* 4.1609 *	* 3.9717 *	* 4.3570 *	* 4.7858 *	* 7.4301 *
12	* .3888 *	* .3984 *	* .3888 *	* .3813 *	* .3406 *	* .3256 *	* .2924 *	
	* 4.0635 *	* 3.8632 *	* 4.1566 *	* 3.9717 *	* 4.1768 *	* 4.2605 *	* 5.2546 *	
13	* .3748 *	* .3727 *	* .3652 *	* .3577 *	* .3256 *	* .2924 *	* .2185 *	
	* 4.0401 *	* 4.1966 *	* 4.4180 *	* 4.3570 *	* 4.2605 *	* 4.6949 *	* 6.8159 *	
14	* .3406 *	* .3449 *	* .3449 *	* .3224 *	* .2924 *	* .2185 *		
	* 4.5376 *	* 4.4013 *	* 4.4852 *	* 4.7858 *	* 5.2546 *	* 6.8159 *		
15	* .3159 *	* .2495 *	* .3095 *	* .2153 *	F-SUB-Q			
	* 4.8401 *	* 6.1527 *	* 5.0301 *	* 7.4301 *	M-SUB-Q			

AT 100% POWER, 50 EFPD, THIS IS LEVEL 23 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .6769 *	* .9510 *	* .9714 *	* .8236 *	* .8568 *	* .7154 *	* .7604 *	* .4434 *
	* 2.2271 *	* 1.7572 *	* 1.7369 *	* 1.9550 *	* 1.8952 *	* 2.1861 *	* 2.0903 *	* 3.5424 *
9	* .9510 *	* .8536 *	* .9660 *	* .9264 *	* .7636 *	* .8450 *	* .7529 *	* .5355 *
	* 1.7572 *	* 1.9154 *	* 1.7389 *	* 1.7841 *	* 2.1039 *	* 1.9387 *	* 2.0752 *	* 2.9512 *
10	* .9714 *	* .9660 *	* .9521 *	* .8065 *	* .8825 *	* .8675 *	* .7690 *	* .4155 *
	* 1.7369 *	* 1.7389 *	* 1.7570 *	* 2.0067 *	* 1.8847 *	* 1.9069 *	* 2.0854 *	* 3.8741 *
11	* .8236 *	* .9264 *	* .8054 *	* .8589 *	* .7529 *	* .8407 *	* .7572 *	* .4327 *
	* 1.9550 *	* 1.7841 *	* 2.0086 *	* 1.9284 *	* 2.1002 *	* 1.9270 *	* 2.0820 *	* 3.7842 *
12	* .8568 *	* .7636 *	* .8825 *	* .7529 *	* .7572 *	* .7358 *	* .5848 *	
	* 1.8952 *	* 2.0998 *	* 1.8847 *	* 2.1002 *	* 1.9050 *	* 2.0055 *	* 2.7155 *	
13	* .7154 *	* .8461 *	* .8675 *	* .8407 *	* .7358 *	* .7197 *	* .4616 *	
	* 2.1861 *	* 1.9370 *	* 1.9064 *	* 1.9270 *	* 2.0055 *	* 2.0590 *	* 3.3551 *	
14	* .7604 *	* .7540 *	* .7690 *	* .7572 *	* .5848 *	* .4616 *		
	* 2.0903 *	* 2.0752 *	* 2.0833 *	* 2.0820 *	* 2.7155 *	* 3.3551 *		
15	* .4434 *	* .5355 *	* .4155 *	* .4327 *	F-SUB-Q			
	* 3.5424 *	* 2.9472 *	* 3.8741 *	* 3.7842 *	M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 100% POWER, 50 EFPD, THIS IS LEVEL 22 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9082	* 1.1974	* 1.2242	* 1.0549	* 1.0753	* .9178	* .9671	* .5526
	* 1.8616	* 1.4372	* 1.4134	* 1.5566	* 1.5447	* 1.7403	* 1.6812	* 2.9121
9	* 1.1974	* 1.0946	* 1.2145	* 1.1663	* .9875	* 1.0774	* .9896	* .6790
	* 1.4372	* 1.5276	* 1.4141	* 1.4494	* 1.6619	* 1.5545	* 1.6129	* 2.3786
10	* 1.2242	* 1.2145	* 1.1995	* 1.0335	* 1.1235	* 1.1085	* 1.0185	* .5248
	* 1.4134	* 1.4141	* 1.4260	* 1.5973	* 1.5136	* 1.5244	* 1.6081	* 3.1444
11	* 1.0549	* 1.1663	* 1.0324	* 1.0839	* .9832	* 1.0839	* 1.0067	* .5451
	* 1.5566	* 1.4494	* 1.5997	* 1.5694	* 1.6527	* 1.5393	* 1.6040	* 3.0801
12	* 1.0753	* .9875	* 1.1235	* .9832	* 1.0581	* 1.0057	* .7454	
	* 1.5447	* 1.6606	* 1.5136	* 1.6527	* 1.5306	* 1.5507	* 2.2002	
13	* .9178	* 1.0785	* 1.1096	* 1.0839	* 1.0057	* .9832	* .5965	
	* 1.7403	* 1.5534	* 1.5241	* 1.5393	* 1.5507	* 1.5753	* 2.6927	
14	* .9671	* .9907	* 1.0185	* 1.0067	* .7454	* .5965		
	* 1.6812	* 1.6129	* 1.6081	* 1.6040	* 2.2002	* 2.6904		
15	* .5526	* .6801	* .5248	* .5451	* F-SUB-Q			
	* 2.9121	* 2.3735	* 3.1400	* 3.0801	* M-SUB-Q			

AT 100% POWER, 50 EFPD, THIS IS LEVEL 21 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.0324	* 1.3709	* 1.3987	* 1.2359	* 1.2541	* 1.0924	* 1.1374	* .6330
	* 1.6997	* 1.2935	* 1.2690	* 1.3556	* 1.3541	* 1.4932	* 1.4609	* 2.5989
9	* 1.3709	* 1.2798	* 1.3880	* 1.3430	* 1.1727	* 1.2552	* 1.1899	* .7936
	* 1.2935	* 1.3337	* 1.2647	* 1.2859	* 1.4286	* 1.3641	* 1.3703	* 2.0904
10	* 1.3987	* 1.3880	* 1.3730	* 1.2134	* 1.3152	* 1.2927	* 1.2263	* .6126
	* 1.2690	* 1.2647	* 1.2734	* 1.3880	* 1.3264	* 1.3429	* 1.3616	* 2.7535
11	* 1.2359	* 1.3430	* 1.2124	* 1.2691	* 1.1749	* 1.2766	* 1.2134	* .6340
	* 1.3556	* 1.2859	* 1.3907	* 1.3794	* 1.4217	* 1.3465	* 1.3673	* 2.7224
12	* 1.2541	* 1.1727	* 1.3152	* 1.1749	* 1.2659	* 1.2316	* .8739	
	* 1.3541	* 1.4277	* 1.3266	* 1.4223	* 1.3290	* 1.3132	* 1.9369	
13	* 1.0924	* 1.2563	* 1.2927	* 1.2766	* 1.2316	* 1.2070	* .7026	
	* 1.4932	* 1.3632	* 1.3429	* 1.3465	* 1.3132	* 1.3294	* 2.3660	
14	* 1.1374	* 1.1899	* 1.2274	* 1.2134	* .8739	* .7026		
	* 1.4609	* 1.3694	* 1.3616	* 1.3673	* 1.9369	* 2.3660		
15	* .6330	* .7936	* .6126	* .6340	* F-SUB-Q			
	* 2.5989	* 2.0884	* 2.7535	* 2.7224	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 100% POWER, 50 EFPD, THIS IS LEVEL 20 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.0849	* 1.4512	* 1.4812	* 1.3323	* 1.3548	* 1.1974	* 1.2391	* .6779
	* 1.6731	* 1.2603	* 1.2243	* 1.2872	* 1.2855	* 1.3954	* 1.3764	* 2.4908
9	* 1.4512	* 1.3752	* 1.4716	* 1.4330	* 1.2809	* 1.3559	* 1.3088	* .8579
	* 1.2603	* 1.2705	* 1.2216	* 1.2358	* 1.3374	* 1.2951	* 1.2742	* 1.9882
10	* 1.4812	* 1.4716	* 1.4587	* 1.3130	* 1.4266	* 1.3977	* 1.3505	* .6640
	* 1.2243	* 1.2216	* 1.2283	* 1.3138	* 1.2606	* 1.2820	* 1.2645	* 2.6069
11	* 1.3323	* 1.4330	* 1.3109	* 1.3752	* 1.2906	* 1.3880	* 1.3377	* .6844
	* 1.2872	* 1.2351	* 1.3162	* 1.3127	* 1.3291	* 1.2792	* 1.2789	* 2.5983
12	* 1.3548	* 1.2820	* 1.4266	* 1.2895	* 1.3902	* 1.3698	* .9489	*
	* 1.2855	* 1.3374	* 1.2606	* 1.3293	* 1.2544	* 1.2215	* 1.8478	*
13	* 1.1974	* 1.3559	* 1.3977	* 1.3869	* 1.3698	* 1.3452	* .7647	*
	* 1.3954	* 1.2944	* 1.2820	* 1.2792	* 1.2215	* 1.2346	* 2.2544	*
14	* 1.2391	* 1.3088	* 1.3516	* 1.3377	* .9489	* .7658	*	*
	* 1.3764	* 1.2735	* 1.2645	* 1.2789	* 1.8478	* 2.2544	*	*
15	* .6779	* .8579	* .6640	* .6844	* F-SUB-Q			
	* 2.4908	* 1.9864	* 2.6069	* 2.5983	* M-SUB-Q			

AT 100% POWER, 50 EFPD, THIS IS LEVEL 19 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.1149	* 1.4940	* 1.5262	* 1.3880	* 1.4169	* 1.2638	* 1.3066	* .7090
	* 1.6816	* 1.2609	* 1.2189	* 1.2682	* 1.2648	* 1.3580	* 1.3441	* 2.4552
9	* 1.4940	* 1.4276	* 1.5176	* 1.4855	* 1.3516	* 1.4212	* 1.3859	* .8986
	* 1.2609	* 1.2550	* 1.2163	* 1.2249	* 1.3017	* 1.2705	* 1.2349	* 1.9543
10	* 1.5262	* 1.5176	* 1.5080	* 1.3720	* 1.4983	* 1.4662	* 1.4319	* .6994
	* 1.2189	* 1.2163	* 1.2216	* 1.2908	* 1.2330	* 1.2593	* 1.2231	* 2.5439
11	* 1.3880	* 1.4865	* 1.3698	* 1.4426	* 1.3655	* 1.4619	* 1.4180	* .7176
	* 1.2682	* 1.2249	* 1.2924	* 1.2908	* 1.2953	* 1.2557	* 1.2428	* 2.5415
12	* 1.4169	* 1.3516	* 1.4983	* 1.3655	* 1.4726	* 1.4608	* .9992	*
	* 1.2648	* 1.3009	* 1.2330	* 1.2953	* 1.2305	* 1.1896	* 1.8210	*
13	* 1.2638	* 1.4212	* 1.4662	* 1.4608	* 1.4608	* 1.4373	* .8075	*
	* 1.3580	* 1.2698	* 1.2593	* 1.2560	* 1.1896	* 1.2015	* 2.2265	*
14	* 1.3066	* 1.3859	* 1.4319	* 1.4180	* .9992	* .8075	*	*
	* 1.3441	* 1.2349	* 1.2231	* 1.2428	* 1.8210	* 2.2265	*	*
15	* .7090	* .8986	* .6994	* .7176	* F-SUB-Q			
	* 2.4552	* 1.9526	* 2.5468	* 2.5441	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

CNEI-0400-25
Appendix A, Rev. 17
Page 17 of 331

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 100% POWER, 50 EFPD, THIS IS LEVEL 18 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.1385	* 1.5369	* 1.5712	* 1.4384	* 1.4758	* 1.3238	* 1.3698	* .7379 *
	* 1.7022	* 1.2561	* 1.2183	* 1.2601	* 1.2540	* 1.3375	* 1.3236	* 2.4366 *
9	* 1.5369	* 1.4758	* 1.5637	* 1.5380	* 1.4148	* 1.4833	* 1.4555	* .9382 *
	* 1.2561	* 1.2478	* 1.2150	* 1.2209	* 1.2786	* 1.2547	* 1.2110	* 1.9335 *
10	* 1.5712	* 1.5637	* 1.5572	* 1.4244	* 1.5690	* 1.5337	* 1.5069	* .7315 *
	* 1.2183	* 1.2157	* 1.2196	* 1.2786	* 1.2105	* 1.2365	* 1.1951	* 2.5150 *
11	* 1.4384	* 1.5380	* 1.4223	* 1.5058	* 1.4341	* 1.5326	* 1.4930	* .7497 *
	* 1.2601	* 1.2209	* 1.2808	* 1.2709	* 1.2720	* 1.2392	* 1.2148	* 2.4999 *
12	* 1.4758	* 1.4159	* 1.5679	* 1.4341	* 1.5508	* 1.5444	* 1.0474 *	
	* 1.2540	* 1.2778	* 1.2105	* 1.2724	* 1.2145	* 1.1670	* 1.8042 *	
13	* 1.3238	* 1.4844	* 1.5337	* 1.5326	* 1.5444	* 1.5208	* .8482 *	
	* 1.3375	* 1.2547	* 1.2365	* 1.2398	* 1.1673	* 1.1787	* 2.2056 *	
14	* 1.3698	* 1.4566	* 1.5069	* 1.4930	* 1.0474	* .8482 *		
	* 1.3236	* 1.2103	* 1.1944	* 1.2148	* 1.8042	* 2.2056 *		
15	* .7379	* .9382	* .7304	* .7497	* F-SUB-Q			
	* 2.4366	* 1.9318	* 2.5150	* 2.5024	* M-SUB-Q			

AT 100% POWER, 50 EFPD, THIS IS LEVEL 17 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.1385	* 1.5487	* 1.5851	* 1.4651	* 1.5058	* 1.3602	* 1.4084	* .7518 *
	* 1.7588	* 1.2870	* 1.2456	* 1.2843	* 1.2749	* 1.3547	* 1.3369	* 2.4844 *
9	* 1.5487	* 1.5005	* 1.5808	* 1.5604	* 1.4555	* 1.5165	* 1.5026	* .9575 *
	* 1.2870	* 1.2670	* 1.2429	* 1.2463	* 1.2883	* 1.2706	* 1.2195	* 1.9644 *
10	* 1.5851	* 1.5808	* 1.5754	* 1.4544	* 1.6108	* 1.5701	* 1.5562	* .7486 *
	* 1.2456	* 1.2429	* 1.2463	* 1.2995	* 1.2138	* 1.2476	* 1.1959	* 2.5426 *
11	* 1.4651	* 1.5604	* 1.4523	* 1.5401	* 1.4791	* 1.5744	* 1.5444	* .7668 *
	* 1.2843	* 1.2463	* 1.3018	* 1.2833	* 1.2790	* 1.2435	* 1.2161	* 2.5197 *
12	* 1.5058	* 1.4555	* 1.6097	* 1.4780	* 1.5990	* 1.6022	* 1.0742 *	
	* 1.2749	* 1.2883	* 1.2140	* 1.2797	* 1.2246	* 1.1741	* 1.8161 *	
13	* 1.3602	* 1.5176	* 1.5701	* 1.5733	* 1.6022	* 1.5797	* .8697 *	
	* 1.3547	* 1.2699	* 1.2483	* 1.2435	* 1.1741	* 1.1862	* 2.2366 *	
14	* 1.4084	* 1.5026	* 1.5562	* 1.5444	* 1.0742	* .8697 *		
	* 1.3369	* 1.2195	* 1.1959	* 1.2162	* 1.8161	* 2.2366 *		
15	* .7518	* .9585	* .7476	* .7668	* F-SUB-Q			
	* 2.4844	* 1.9628	* 2.5454	* 2.5205	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 100% POWER, 50 EFPD, THIS IS LEVEL 16 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.1460	* 1.5658	* 1.6044	* 1.4898	* 1.5369	* 1.3934	* 1.4448	* .7679
	* 1.8219	* 1.3130	* 1.2740	* 1.3244	* 1.3027	* 1.3904	* 1.3590	* 2.5420
9	* 1.5658	* 1.5240	* 1.6022	* 1.5851	* 1.4919	* 1.5508	* 1.5444	* .9778
	* 1.3130	* 1.3037	* 1.2727	* 1.2759	* 1.3149	* 1.2917	* 1.2460	* 2.0047
10	* 1.6044	* 1.6011	* 1.5969	* 1.4823	* 1.6515	* 1.6086	* 1.6011	* .7668
	* 1.2740	* 1.2727	* 1.2749	* 1.3355	* 1.2260	* 1.2606	* 1.2151	* 2.5820
11	* 1.4898	* 1.5851	* 1.4791	* 1.5744	* 1.5208	* 1.6161	* 1.5904	* .7840
	* 1.3244	* 1.2759	* 1.3379	* 1.3005	* 1.3027	* 1.2614	* 1.2383	* 2.5528
12	* 1.5369	* 1.4919	* 1.6504	* 1.5208	* 1.6461	* 1.6536	* 1.1021	*
	* 1.3027	* 1.3147	* 1.2261	* 1.3028	* 1.2387	* 1.1925	* 1.8435	*
13	* 1.3934	* 1.5519	* 1.6086	* 1.6151	* 1.6536	* 1.6322	* .8921	*
	* 1.3904	* 1.2910	* 1.2611	* 1.2620	* 1.1931	* 1.2034	* 2.2652	*
14	* 1.4448	* 1.5444	* 1.6011	* 1.5904	* 1.1021	* .8921	*	*
	* 1.3590	* 1.2453	* 1.2151	* 1.2388	* 1.8435	* 2.2652	*	*
15	* .7679	* .9789	* .7668	* .7840	* F-SUB-Q			
	* 2.5420	* 2.0030	* 2.5820	* 2.5528	* M-SUB-Q			

AT 100% POWER, 50 EFPD, THIS IS LEVEL 15 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.1278	* 1.5519	* 1.5926	* 1.4801	* 1.5347	* 1.3934	* 1.4491	* .7679
	* 1.9141	* 1.3800	* 1.3406	* 1.4056	* 1.3669	* 1.4704	* 1.4224	* 2.6675
9	* 1.5519	* 1.5123	* 1.5926	* 1.5787	* 1.4951	* 1.5551	* 1.5487	* .9778
	* 1.3800	* 1.3846	* 1.3384	* 1.3415	* 1.3842	* 1.3478	* 1.3120	* 2.1000
10	* 1.5926	* 1.5915	* 1.5894	* 1.4758	* 1.6590	* 1.6161	* 1.6076	* .7658
	* 1.3406	* 1.3384	* 1.3399	* 1.4144	* 1.2757	* 1.3071	* 1.2757	* 2.7050
11	* 1.4801	* 1.5787	* 1.4737	* 1.5787	* 1.5315	* 1.6258	* 1.5979	* .7850
	* 1.4056	* 1.3415	* 1.4162	* 1.3515	* 1.3645	* 1.3048	* 1.2915	* 2.6605
12	* 1.5347	* 1.4951	* 1.6579	* 1.5305	* 1.6568	* 1.6665	* 1.1074	*
	* 1.3669	* 1.3842	* 1.2764	* 1.3653	* 1.2914	* 1.2538	* 1.9194	*
13	* 1.3934	* 1.5551	* 1.6151	* 1.6247	* 1.6654	* 1.6440	* .8975	*
	* 1.4704	* 1.3478	* 1.3078	* 1.3050	* 1.2538	* 1.2650	* 2.3656	*
14	* 1.4491	* 1.5487	* 1.6076	* 1.5979	* 1.1074	* .8975	*	*
	* 1.4224	* 1.3112	* 1.2757	* 1.2920	* 1.9194	* 2.3656	*	*
15	* .7679	* .9789	* .7647	* .7840	* F-SUB-Q			
	* 2.6675	* 2.0981	* 2.7081	* 2.6605	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 100% POWER, 50 EFPD, THIS IS LEVEL 14 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.1353	* 1.5658	* 1.6086	* 1.5058	* 1.5637	* 1.4255	* 1.4844	* .7797
	* 1.9976	* 1.4403	* 1.3962	* 1.4680	* 1.4175	* 1.5275	* 1.4676	* 2.7675
9	* 1.5658	* 1.5369	* 1.6097	* 1.6001	* 1.5315	* 1.5851	* 1.5926	* .9950
	* 1.4403	* 1.4449	* 1.3937	* 1.3954	* 1.4332	* 1.3946	* 1.3570	* 2.1747
10	* 1.6086	* 1.6097	* 1.6076	* 1.5101	* 1.6986	* 1.6493	* 1.6558	* .7829
	* 1.3962	* 1.3937	* 1.3946	* 1.4680	* 1.3116	* 1.3483	* 1.3135	* 2.7841
11	* 1.5058	* 1.6001	* 1.5048	* 1.6119	* 1.5776	* 1.6643	* 1.6461	* .7990
	* 1.4680	* 1.3954	* 1.4734	* 1.3907	* 1.4008	* 1.3376	* 1.3282	* 2.7479
12	* 1.5637	* 1.5315	* 1.6965	* 1.5776	* 1.7029	* 1.7211	* 1.1310	*
	* 1.4175	* 1.4332	* 1.3127	* 1.4014	* 1.3133	* 1.2802	* 1.9670	*
13	* 1.4255	* 1.5851	* 1.6493	* 1.6643	* 1.7200	* 1.7007	* .9157	*
	* 1.5275	* 1.3937	* 1.3490	* 1.3384	* 1.2802	* 1.2924	* 2.4277	*
14	* 1.4844	* 1.5926	* 1.6558	* 1.6461	* 1.1310	* .9157	*	*
	* 1.4676	* 1.3562	* 1.3135	* 1.3282	* 1.9675	* 2.4277	*	*
15	* .7797	* .9960	* .7818	* .7990	F-SUB-Q			
	* 2.7675	* 2.1726	* 2.7874	* 2.7479	M-SUB-Q			

AT 100% POWER, 50 EFPD, THIS IS LEVEL 13 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.1245	* 1.5594	* 1.6044	* 1.5080	* 1.5701	* 1.4351	* 1.4983	* .7829
	* 2.1267	* 1.5270	* 1.4816	* 1.5650	* 1.4977	* 1.6171	* 1.5431	* 2.9242
9	* 1.5594	* 1.5369	* 1.6076	* 1.6011	* 1.5444	* 1.5947	* 1.6108	* 1.0003
	* 1.5270	* 1.5402	* 1.4778	* 1.4778	* 1.5171	* 1.4695	* 1.4349	* 2.2913
10	* 1.6044	* 1.6076	* 1.6065	* 1.5230	* 1.7157	* 1.6643	* 1.6772	* .7872
	* 1.4816	* 1.4778	* 1.4788	* 1.5535	* 1.3761	* 1.4170	* 1.3846	* 2.9279
11	* 1.5080	* 1.6011	* 1.5176	* 1.6247	* 1.6001	* 1.6836	* 1.6686	* .8032
	* 1.5650	* 1.4788	* 1.5587	* 1.4617	* 1.4721	* 1.4013	* 1.3995	* 2.8810
12	* 1.5701	* 1.5444	* 1.7147	* 1.5990	* 1.7243	* 1.7479	* 1.1417	*
	* 1.4977	* 1.5171	* 1.3777	* 1.4730	* 1.3718	* 1.3424	* 2.0612	*
13	* 1.4351	* 1.5958	* 1.6633	* 1.6836	* 1.7479	* 1.7286	* .9243	*
	* 1.6171	* 1.4685	* 1.4178	* 1.4016	* 1.3427	* 1.3530	* 2.5371	*
14	* 1.4983	* 1.6108	* 1.6772	* 1.6686	* 1.1417	* .9243	*	*
	* 1.5431	* 1.4340	* 1.3846	* 1.3995	* 2.0617	* 2.5371	*	*
15	* .7829	* 1.0003	* .7872	* .8032	F-SUB-Q			
	* 2.9242	* 2.2890	* 2.9279	* 2.8810	M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 100% POWER, 50 EFPD, THIS IS LEVEL 12 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.1085	* 1.5390	* 1.5862	* 1.4919	* 1.5594	* 1.4276	* 1.4930	* .7786
	* 2.1649	* 1.5645	* 1.5199	* 1.6151	* 1.5459	* 1.6871	* 1.6129	* 3.0716
9	* 1.5390	* 1.5197	* 1.5904	* 1.5872	* 1.5380	* 1.5883	* 1.6054	* .9939
	* 1.5645	* 1.5867	* 1.5160	* 1.5199	* 1.5729	* 1.5209	* 1.5043	* 2.4118
10	* 1.5862	* 1.5904	* 1.5904	* 1.5165	* 1.7136	* 1.6600	* 1.6750	* .7840
	* 1.5199	* 1.5169	* 1.5179	* 1.5975	* 1.4188	* 1.4621	* 1.4477	* 3.0636
11	* 1.4919	* 1.5872	* 1.5112	* 1.6215	* 1.6001	* 1.6858	* 1.6675	* .8000
	* 1.6151	* 1.5199	* 1.6040	* 1.4995	* 1.5219	* 1.4459	* 1.4576	* 3.0086
12	* 1.5594	* 1.5380	* 1.7125	* 1.6001	* 1.7265	* 1.7522	* 1.1395	*
	* 1.5459	* 1.5729	* 1.4197	* 1.5229	* 1.4128	* 1.3935	* 2.1276	*
13	* 1.4276	* 1.5894	* 1.6600	* 1.6847	* 1.7511	* 1.7318	* .9232	*
	* 1.6871	* 1.5209	* 1.4630	* 1.4459	* 1.3935	* 1.4094	* 2.6279	*
14	* 1.4930	* 1.6054	* 1.6750	* 1.6665	* 1.1395	* .9232	*	*
	* 1.6129	* 1.5043	* 1.4486	* 1.4585	* 2.1295	* 2.6279	*	*
15	* .7786	* .9950	* .7829	* .7990	F-SUB-Q			
	* 3.0716	* 2.4094	* 3.0636	* 3.0086	M-SUB-Q			

AT 100% POWER, 50 EFPD, THIS IS LEVEL 11 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.1096	* 1.5519	* 1.6001	* 1.5101	* 1.5808	* 1.4512	* 1.5208	* .7893
	* 2.1142	* 1.5179	* 1.4741	* 1.5614	* 1.4919	* 1.6252	* 1.5500	* 2.9668
9	* 1.5519	* 1.5369	* 1.6076	* 1.6054	* 1.5658	* 1.6140	* 1.6386	* 1.0089
	* 1.5179	* 1.5348	* 1.4685	* 1.4704	* 1.5101	* 1.4640	* 1.4415	* 2.3258
10	* 1.6001	* 1.6065	* 1.6065	* 1.5433	* 1.7468	* 1.6900	* 1.7125	* .7947
	* 1.4741	* 1.4695	* 1.4695	* 1.5338	* 1.3581	* 1.4027	* 1.3829	* 2.9518
11	* 1.5101	* 1.6054	* 1.5380	* 1.6493	* 1.6365	* 1.7211	* 1.7050	* .8118
	* 1.5614	* 1.4704	* 1.5398	* 1.4388	* 1.4531	* 1.3820	* 1.3911	* 2.8972
12	* 1.5808	* 1.5658	* 1.7447	* 1.6354	* 1.7639	* 1.7950	* 1.1610	*
	* 1.4919	* 1.5111	* 1.3596	* 1.4540	* 1.3495	* 1.3273	* 2.0406	*
13	* 1.4512	* 1.6140	* 1.6890	* 1.7200	* 1.7950	* 1.7768	* .9393	*
	* 1.6252	* 1.4640	* 1.4035	* 1.3829	* 1.3273	* 1.3410	* 2.5179	*
14	* 1.5208	* 1.6386	* 1.7115	* 1.7040	* 1.1610	* .9393	*	*
	* 1.5500	* 1.4415	* 1.3837	* 1.3919	* 2.0406	* 2.5179	*	*
15	* .7893	* 1.0100	* .7947	* .8118	F-SUB-Q			
	* 2.9668	* 2.3235	* 2.9556	* 2.8972	M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 100% POWER, 50 EFPD, THIS IS LEVEL 10 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	1.0967	1.5444	1.5936	1.5112	1.5829	1.4576	1.5283	.7883
	2.0990	1.4966	1.4522	1.5318	1.4630	1.5867	1.5111	2.8989
9	1.5444	1.5358	1.6033	1.6022	1.5744	1.6183	1.6515	1.0100
	1.4966	1.5062	1.4450	1.4450	1.4741	1.4335	1.4035	2.2684
10	1.5936	1.6011	1.6022	1.5519	1.7554	1.6965	1.7275	.7958
	1.4522	1.4459	1.4459	1.4966	1.3243	1.3699	1.3441	2.8882
11	1.5112	1.6022	1.5455	1.6547	1.6515	1.7329	1.7211	.8129
	1.5318	1.4450	1.5024	1.4044	1.4103	1.3441	1.3502	2.8342
12	1.5829	1.5744	1.7532	1.6504	1.7779	1.8153	1.1663	
	1.4630	1.4741	1.3258	1.4111	1.3110	1.2845	1.9887	
13	1.4576	1.6183	1.6954	1.7318	1.8153	1.7982	.9436	
	1.5867	1.4335	1.3707	1.3448	1.2845	1.2958	2.4547	
14	1.5283	1.6515	1.7275	1.7200	1.1652	.9425		
	1.5111	1.4035	1.3441	1.3510	1.9904	2.4573		
15	.7883	1.0110	.7947	.8129	F-SUB-Q			
	2.8989	2.2684	2.8900	2.8376	M-SUB-Q			

AT 100% POWER, 50 EFPD, THIS IS LEVEL 9 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	1.0860	1.5315	1.5819	1.5037	1.5765	1.4555	1.5272	.7850
	2.0739	1.4740	1.4274	1.5023	1.4326	1.5479	1.4740	2.8391
9	1.5315	1.5272	1.5926	1.5936	1.5722	1.6140	1.6504	1.0057
	1.4740	1.4791	1.4196	1.4188	1.4427	1.4030	1.3687	2.2210
10	1.5819	1.5915	1.5915	1.5497	1.7543	1.6943	1.7297	.7936
	1.4274	1.4205	1.4213	1.4694	1.2997	1.3448	1.3135	2.8204
11	1.5037	1.5926	1.5433	1.6526	1.6547	1.7339	1.7232	.8097
	1.5023	1.4188	1.4750	1.3829	1.3837	1.3199	1.3228	2.7721
12	1.5765	1.5722	1.7532	1.6536	1.7800	1.8196	1.1642	
	1.4326	1.4427	1.3012	1.3845	1.2866	1.2583	1.9572	
13	1.4555	1.6140	1.6933	1.7329	1.8196	1.8036	.9403	
	1.5479	1.4026	1.3456	1.3206	1.2590	1.2699	2.4193	
14	1.5272	1.6504	1.7286	1.7222	1.1631	.9403		
	1.4740	1.3683	1.3135	1.3236	1.9580	2.4193		
15	.7850	1.0057	.7925	.8086	F-SUB-Q			
	2.8391	2.2210	2.8238	2.7737	M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 100% POWER, 50 EFPD, THIS IS LEVEL 8 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.0689	* 1.5133	* 1.5658	* 1.4844	* 1.5615	* 1.4405	* 1.5133	* .7765
	* 2.0502	* 1.4543	* 1.4072	* 1.4842	* 1.4110	* 1.5256	* 1.4507	* 2.8000
9	* 1.5133	* 1.5069	* 1.5765	* 1.5776	* 1.5572	* 1.6022	* 1.6343	* .9960
	* 1.4543	* 1.4620	* 1.3988	* 1.3975	* 1.4204	* 1.3791	* 1.3482	* 2.1908
10	* 1.5658	* 1.5754	* 1.5754	* 1.5337	* 1.7425	* 1.6836	* 1.7136	* .7829
	* 1.4072	* 1.3996	* 1.4001	* 1.4467	* 1.2753	* 1.3190	* 1.2918	* 2.7867
11	* 1.4844	* 1.5776	* 1.5272	* 1.6408	* 1.6408	* 1.7232	* 1.7082	* .8011
	* 1.4842	* 1.3980	* 1.4525	* 1.3576	* 1.3631	* 1.2957	* 1.3000	* 2.7332
12	* 1.5615	* 1.5572	* 1.7404	* 1.6397	* 1.7682	* 1.8057	* 1.1545	
	* 1.4110	* 1.4208	* 1.2767	* 1.3639	* 1.2671	* 1.2406	* 1.9218	
13	* 1.4405	* 1.6022	* 1.6825	* 1.7222	* 1.8057	* 1.7886	* .9328	
	* 1.5256	* 1.3791	* 1.3198	* 1.2964	* 1.2409	* 1.2515	* 2.3726	
14	* 1.5133	* 1.6343	* 1.7125	* 1.7072	* 1.1535	* .9328		
	* 1.4507	* 1.3482	* 1.2925	* 1.3004	* 1.9218	* 2.3726		
15	* .7765	* .9960	* .7829	* .8000	* F-SUB-Q			
	* 2.8000	* 2.1888	* 2.7900	* 2.7332	* M-SUB-Q			

AT 100% POWER, 50 EFPD, THIS IS LEVEL 7 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.0689	* 1.5176	* 1.5722	* 1.4973	* 1.5722	* 1.4566	* 1.5283	* .7786
	* 1.9967	* 1.4140	* 1.3663	* 1.4338	* 1.3663	* 1.4724	* 1.4005	* 2.7231
9	* 1.5176	* 1.5197	* 1.5840	* 1.5862	* 1.5744	* 1.6119	* 1.6547	* .9992
	* 1.4140	* 1.4131	* 1.3576	* 1.3553	* 1.3711	* 1.3367	* 1.2990	* 2.1267
10	* 1.5722	* 1.5829	* 1.5829	* 1.5508	* 1.7597	* 1.6954	* 1.7361	* .7883
	* 1.3663	* 1.3584	* 1.3592	* 1.3971	* 1.2330	* 1.2790	* 1.2447	* 2.7041
11	* 1.4973	* 1.5862	* 1.5444	* 1.6526	* 1.6611	* 1.7393	* 1.7297	* .8032
	* 1.4338	* 1.3553	* 1.4029	* 1.3145	* 1.3116	* 1.2514	* 1.2521	* 2.6614
12	* 1.5722	* 1.5744	* 1.7575	* 1.6611	* 1.7875	* 1.8314	* 1.1599	
	* 1.3663	* 1.3718	* 1.2343	* 1.3123	* 1.2205	* 1.1917	* 1.8652	
13	* 1.4566	* 1.6119	* 1.6943	* 1.7382	* 1.8303	* 1.8153	* .9361	
	* 1.4724	* 1.3367	* 1.2797	* 1.2524	* 1.1917	* 1.2014	* 2.3072	
14	* 1.5283	* 1.6547	* 1.7350	* 1.7297	* 1.1599	* .9361		
	* 1.4005	* 1.2990	* 1.2453	* 1.2527	* 1.8659	* 2.3072		
15	* .7786	* .9992	* .7872	* .8022	* F-SUB-Q			
	* 2.7231	* 2.1266	* 2.7072	* 2.6614	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 100% POWER, 50 EFPD, THIS IS LEVEL 6 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.0560	* 1.5037	* 1.5604	* 1.4876	* 1.5637	* 1.4448	* 1.5165	* .7690
	* 1.9572	* 1.3811	* 1.3333	* 1.4000	* 1.3325	* 1.4394	* 1.3682	* 2.6742
9	* 1.5037	* 1.5090	* 1.5744	* 1.5765	* 1.5637	* 1.6011	* 1.6408	* .9875
	* 1.3811	* 1.3795	* 1.3243	* 1.3214	* 1.3378	* 1.3044	* 1.2692	* 2.0894
10	* 1.5604	* 1.5722	* 1.5712	* 1.5412	* 1.7500	* 1.6836	* 1.7211	* .7775
	* 1.3333	* 1.3250	* 1.3258	* 1.3611	* 1.1999	* 1.2463	* 1.2154	* 2.6560
11	* 1.4876	* 1.5765	* 1.5347	* 1.6429	* 1.6493	* 1.7275	* 1.7157	* .7925
	* 1.4000	* 1.3221	* 1.3666	* 1.2803	* 1.2803	* 1.2205	* 1.2230	* 2.6146
12	* 1.5637	* 1.5637	* 1.7479	* 1.6483	* 1.7768	* 1.8175	* 1.1470	*
	* 1.3325	* 1.3378	* 1.2017	* 1.2810	* 1.1890	* 1.1631	* 1.8278	*
13	* 1.4448	* 1.6011	* 1.6825	* 1.7265	* 1.8164	* 1.7993	* .9243	*
	* 1.4394	* 1.3044	* 1.2470	* 1.2217	* 1.1636	* 1.1741	* 2.2646	*
14	* 1.5165	* 1.6408	* 1.7211	* 1.7147	* 1.1470	* .9243	*	*
	* 1.3682	* 1.2692	* 1.2154	* 1.2236	* 1.8278	* 2.2646	*	*
15	* .7690	* .9875	* .7775	* .7915	* F-SUB-Q			
	* 2.6742	* 2.0893	* 2.6590	* 2.6147	* M-SUB-Q			

AT 100% POWER, 50 EFPD, THIS IS LEVEL 5 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.0249	* 1.4641	* 1.5251	* 1.4459	* 1.5272	* 1.3998	* 1.4716	* .7465
	* 1.9610	* 1.3798	* 1.3276	* 1.4011	* 1.3268	* 1.4477	* 1.3724	* 2.6868
9	* 1.4641	* 1.4651	* 1.5390	* 1.5412	* 1.5187	* 1.5604	* 1.5840	* .9532
	* 1.3798	* 1.3822	* 1.3164	* 1.3149	* 1.3396	* 1.3011	* 1.2791	* 2.1048
10	* 1.5251	* 1.5380	* 1.5358	* 1.4973	* 1.7061	* 1.6408	* 1.6579	* .7486
	* 1.3276	* 1.3179	* 1.3194	* 1.3606	* 1.1953	* 1.2420	* 1.2258	* 2.6868
11	* 1.4459	* 1.5412	* 1.4908	* 1.6033	* 1.5947	* 1.6772	* 1.6526	* .7636
	* 1.4011	* 1.3150	* 1.3669	* 1.2736	* 1.2840	* 1.2194	* 1.2329	* 2.6358
12	* 1.5272	* 1.5176	* 1.7040	* 1.5936	* 1.7275	* 1.7532	* 1.1096	*
	* 1.3268	* 1.3396	* 1.1971	* 1.2847	* 1.1851	* 1.1685	* 1.8325	*
13	* 1.3998	* 1.5604	* 1.6397	* 1.6761	* 1.7522	* 1.7307	* .8921	*
	* 1.4477	* 1.3011	* 1.2433	* 1.2201	* 1.1691	* 1.1832	* 2.2759	*
14	* 1.4716	* 1.5840	* 1.6579	* 1.6515	* 1.1096	* .8921	*	*
	* 1.3724	* 1.2791	* 1.2264	* 1.2335	* 1.8339	* 2.2759	*	*
15	* .7465	* .9543	* .7476	* .7636	* F-SUB-Q			
	* 2.6868	* 2.1047	* 2.6869	* 2.6386	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 100% POWER, 50 EFPD, THIS IS LEVEL 4 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.0057	* 1.4373	* 1.5048	* 1.4255	* 1.5208	* 1.3816	* 1.4491	* .7304
	* 1.9531	* 1.3728	* 1.3137	* 1.3889	* 1.3013	* 1.4321	* 1.3608	* 2.6842
9	* 1.4373	* 1.4384	* 1.5219	* 1.5272	* 1.4951	* 1.5380	* 1.5455	* .9275
	* 1.3728	* 1.3752	* 1.2999	* 1.2956	* 1.3278	* 1.2892	* 1.2800	* 2.1164
10	* 1.5048	* 1.5208	* 1.5165	* 1.4823	* 1.6847	* 1.6119	* 1.6097	* .7272
	* 1.3137	* 1.3007	* 1.3057	* 1.3422	* 1.1810	* 1.2337	* 1.2318	* 2.6996
11	* 1.4255	* 1.5272	* 1.4758	* 1.5926	* 1.5604	* 1.6451	* 1.6033	* .7401
	* 1.3889	* 1.2956	* 1.3476	* 1.2501	* 1.2793	* 1.2121	* 1.2389	* 2.6570
12	* 1.5208	* 1.4940	* 1.6825	* 1.5594	* 1.7061	* 1.7093	* 1.0806	*
	* 1.3013	* 1.3285	* 1.1822	* 1.2800	* 1.1699	* 1.1676	* 1.8371	*
13	* 1.3816	* 1.5380	* 1.6108	* 1.6440	* 1.7093	* 1.6793	* .8654	*
	* 1.4321	* 1.2885	* 1.2344	* 1.2127	* 1.1681	* 1.1876	* 2.2896	*
14	* 1.4491	* 1.5455	* 1.6097	* 1.6033	* 1.0796	* .8654	*	*
	* 1.3608	* 1.2800	* 1.2324	* 1.2395	* 1.8385	* 2.2896	*	*
15	* .7304	* .9275	* .7272	* .7401	* F-SUB-Q			
	* 2.6842	* 2.1146	* 2.7028	* 2.6599	* M-SUB-Q			

AT 100% POWER, 50 EFPD, THIS IS LEVEL 3 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9446	* 1.3409	* 1.4126	* 1.3623	* 1.4748	* 1.3334	* 1.3773	* .6865
	* 2.0415	* 1.4437	* 1.3721	* 1.4262	* 1.3153	* 1.4561	* 1.4040	* 2.8028
9	* 1.3409	* 1.3452	* 1.4319	* 1.4512	* 1.4137	* 1.4469	* 1.4373	* .8622
	* 1.4437	* 1.4428	* 1.3548	* 1.3385	* 1.3761	* 1.3431	* 1.3492	* 2.2353
10	* 1.4126	* 1.4309	* 1.4416	* 1.4319	* 1.5904	* 1.5005	* 1.4769	* .6801
	* 1.3721	* 1.3563	* 1.3478	* 1.3610	* 1.2249	* 1.2979	* 1.3160	* 2.8367
11	* 1.3623	* 1.4501	* 1.4255	* 1.5412	* 1.4780	* 1.5422	* 1.4619	* .6854
	* 1.4262	* 1.3393	* 1.3665	* 1.2638	* 1.3219	* 1.2657	* 1.3324	* 2.8165
12	* 1.4748	* 1.4137	* 1.5883	* 1.4769	* 1.6279	* 1.5894	* 1.0057	*
	* 1.3153	* 1.3769	* 1.2268	* 1.3220	* 1.1993	* 1.2293	* 1.9339	*
13	* 1.3334	* 1.4469	* 1.4994	* 1.5412	* 1.5894	* 1.5380	* .7990	*
	* 1.4561	* 1.3430	* 1.2993	* 1.2664	* 1.2300	* 1.2698	* 2.4293	*
14	* 1.3773	* 1.4373	* 1.4758	* 1.4608	* 1.0057	* .7990	*	*
	* 1.4040	* 1.3492	* 1.3160	* 1.3324	* 1.9339	* 2.4293	*	*
15	* .6865	* .8622	* .6790	* .6844	* F-SUB-Q			
	* 2.8028	* 2.2333	* 2.8401	* 2.8197	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 100% POWER, 50 EFPD, THIS IS LEVEL 2 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .7958	* 1.1042	* 1.1749	* 1.3730	* 1.2948	* 1.3377	* 1.1931	* .5858
	* 2.3877	* 1.7255	* 1.6254	* 1.3917	* 1.4746	* 1.4271	* 1.5977	* 3.2394
9	* 1.1042	* 1.2788	* 1.1781	* 1.2627	* 1.3998	* 1.2134	* 1.2713	* .7229
	* 1.7255	* 1.4924	* 1.6220	* 1.5135	* 1.3658	* 1.5742	* 1.5008	* 2.6248
10	* 1.1749	* 1.1770	* 1.2434	* 1.4341	* 1.3495	* 1.2188	* 1.2702	* .5794
	* 1.6254	* 1.6242	* 1.5383	* 1.3356	* 1.4194	* 1.5721	* 1.5037	* 3.2799
11	* 1.3730	* 1.2627	* 1.4287	* 1.3527	* 1.4683	* 1.2895	* 1.2017	* .5773
	* 1.3917	* 1.5145	* 1.3402	* 1.4169	* 1.3066	* 1.4885	* 1.5923	* 3.2937
12	* 1.2948	* 1.3998	* 1.3462	* 1.4673	* 1.4105	* 1.4062	* .8557	*
	* 1.4746	* 1.3658	* 1.4228	* 1.3081	* 1.3611	* 1.3658	* 2.2356	*
13	* 1.3377	* 1.2134	* 1.2177	* 1.2884	* 1.4052	* 1.2531	* .6662	*
	* 1.4271	* 1.5732	* 1.5732	* 1.4895	* 1.3666	* 1.5322	* 2.8681	*
14	* 1.1931	* 1.2713	* 1.2702	* 1.2006	* .8557	* .6662	*	*
	* 1.5977	* 1.5008	* 1.5046	* 1.5934	* 2.2356	* 2.8681	*	*
15	* .5858	* .7240	* .5794	* .5773	* F-SUB-Q			
	* 3.2394	* 2.6247	* 3.2801	* 3.2939	* M-SUB-Q			

AT 100% POWER, 50 EFPD, THIS IS LEVEL 1 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .5441	* .4616	* .5077	* .5923	* .5526	* .5773	* .5034	* .3952
	* 3.4486	* 4.0624	* 3.7041	* 3.1741	* 3.4038	* 3.2576	* 3.7332	* 4.7319
9	* .4616	* .5355	* .4873	* .5537	* .6040	* .5398	* .5034	* .3256
	* 4.0624	* 3.5105	* 3.8622	* 3.3989	* 3.1193	* 3.4844	* 3.7273	* 5.7502
10	* .5077	* .4873	* .5623	* .6201	* .5794	* .5066	* .4980	* .4059
	* 3.7041	* 3.8683	* 3.3506	* 3.0387	* 3.2533	* 3.7273	* 3.7753	* 4.6115
11	* .5923	* .5537	* .6190	* .5848	* .6308	* .5441	* .4627	* .2752
	* 3.1741	* 3.4038	* 3.0468	* 3.2307	* 2.9961	* 3.4741	* 4.0687	* 6.8164
12	* .5526	* .6040	* .5773	* .6297	* .5955	* .5569	* .4081	*
	* 3.4038	* 3.1193	* 3.2667	* 2.9963	* 3.1741	* 3.3891	* 4.6206	*
13	* .5773	* .5409	* .5066	* .5441	* .5569	* .4969	* .3063	*
	* 3.2576	* 3.4792	* 3.7276	* 3.4741	* 3.3891	* 3.8055	* 6.1567	*
14	* .5034	* .5034	* .4980	* .4627	* .4070	* .3063	*	*
	* 3.7332	* 3.7273	* 3.7753	* 4.0691	* 4.6297	* 6.1567	*	*
15	* .3952	* .3256	* .4059	* .2752	* F-SUB-Q			
	* 4.7319	* 5.7502	* 4.6201	* 6.8164	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 100% POWER, 100 EFPD, THIS IS LEVEL 24 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	.4777	.4134	.4230	.4359	.4081	.3973	.3588	.3288
	3.2663	4.0659	3.9283	3.6821	3.9931	3.9365	4.4393	4.7944
9	.4134	.4434	.4252	.4155	.4198	.3920	.3620	.2613
	4.0659	3.7330	3.9713	3.9785	3.7864	4.1190	4.3238	6.0816
10	.4230	.4252	.4166	.4284	.4081	.3823	.3609	.3224
	3.9283	3.9713	4.0288	3.7920	4.0893	4.3608	4.4309	4.9883
11	.4359	.4155	.4284	.4081	.4038	.3748	.3363	.2238
	3.6821	3.9785	3.7920	4.1255	3.9272	4.3414	4.7883	7.4258
12	.4081	.4198	.4081	.4038	.3609	.3427	.3031	
	3.9931	3.7852	4.0880	3.9204	4.1177	4.2361	5.3003	
13	.3973	.3931	.3823	.3748	.3427	.3074	.2281	
	3.9365	4.1112	4.3608	4.3414	4.2361	4.6701	6.8483	
14	.3588	.3620	.3609	.3363	.3031	.2281		
	4.4393	4.3238	4.4309	4.7883	5.3003	6.8483		
15	.3288	.2613	.3224	.2238	F-SUB-Q			
	4.7944	6.0647	4.9883	7.4258	M-SUB-Q			

AT 100% POWER, 100 EFPD, THIS IS LEVEL 23 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	.6747	.9521	.9746	.8514	.9029	.7658	.7968	.4627
	2.3253	1.8256	1.7831	1.9472	1.8558	2.1083	2.0610	3.5124
9	.9521	.8750	.9735	.9500	.8043	.8804	.7958	.5569
	1.8256	1.9283	1.7704	1.7931	2.0405	1.9211	2.0292	2.9245
10	.9746	.9735	.9660	.8397	.9178	.8975	.8075	.4338
	1.7831	1.7704	1.7860	1.9850	1.8856	1.9211	2.0504	3.8326
11	.8514	.9500	.8386	.9050	.7925	.8707	.7872	.4498
	1.9472	1.7931	1.9866	1.9084	2.0831	1.9404	2.0913	3.8055
12	.9029	.8054	.9178	.7925	.8022	.7765	.6040	
	1.8558	2.0350	1.8856	2.0831	1.8863	1.9810	2.7433	
13	.7658	.8804	.8975	.8707	.7765	.7508	.4777	
	2.1083	1.9211	1.9211	1.9404	1.9810	2.0621	3.3889	
14	.7968	.7958	.8075	.7872	.6040	.4777		
	2.0610	2.0273	2.0504	2.0913	2.7433	3.3889		
15	.4627	.5580	.4338	.4498	F-SUB-Q			
	3.5124	2.9206	3.8326	3.8055	M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 100% POWER, 100 EFPD, THIS IS LEVEL 22 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	.9007	1.1931	1.2199	1.0913	1.1353	.9885	1.0121	.5741
	1.9546	1.5016	1.4555	1.5507	1.5103	1.6696	1.6609	2.8939
9	1.1931	1.1192	1.2167	1.1920	1.0410	1.1171	1.0432	.7058
	1.5016	1.5388	1.4481	1.4613	1.6210	1.5488	1.5799	2.3644
10	1.2199	1.2167	1.2092	1.0774	1.1652	1.1395	1.0646	.5451
	1.4555	1.4481	1.4584	1.5789	1.5197	1.5477	1.5881	3.1188
11	1.0913	1.1920	1.0764	1.1438	1.0346	1.1171	1.0389	.5623
	1.5507	1.4612	1.5813	1.5491	1.6387	1.5564	1.6209	3.1107
12	1.1353	1.0421	1.1652	1.0346	1.1138	1.0592	.7658	
	1.5103	1.6176	1.5197	1.6387	1.5184	1.5361	2.2326	
13	.9885	1.1171	1.1395	1.1171	1.0592	1.0185	.6126	
	1.6696	1.5477	1.5468	1.5564	1.5361	1.5865	2.7343	
14	1.0121	1.0442	1.0646	1.0399	.7658	.6126		
	1.6609	1.5789	1.5879	1.6209	2.2326	2.7343		
15	.5741	.7058	.5451	.5623	F-SUB-Q			
	2.8939	2.3619	3.1188	3.1107	M-SUB-Q			

AT 100% POWER, 100 EFPD, THIS IS LEVEL 21 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	1.0185	1.3570	1.3859	1.2766	1.3227	1.1781	1.1888	.6555
	1.7908	1.3568	1.3039	1.3517	1.3250	1.4311	1.4461	2.5920
9	1.3570	1.3045	1.3848	1.3666	1.2349	1.2959	1.2488	.8204
	1.3568	1.3483	1.3008	1.3023	1.3938	1.3650	1.3474	2.0895
10	1.3859	1.3848	1.3773	1.2659	1.3602	1.3184	1.2745	.6340
	1.3039	1.3008	1.3084	1.3737	1.3323	1.3677	1.3525	2.7463
11	1.2766	1.3666	1.2638	1.3388	1.2338	1.3088	1.2424	.6512
	1.3517	1.3022	1.3754	1.3606	1.4018	1.3662	1.3907	2.7531
12	1.3227	1.2349	1.3602	1.2327	1.3280	1.2906	.8911	
	1.3250	1.3911	1.3323	1.4018	1.3217	1.3068	1.9795	
13	1.1781	1.2959	1.3195	1.3088	1.2906	1.2413	.7154	
	1.4311	1.3643	1.3677	1.3669	1.3068	1.3472	2.4181	
14	1.1888	1.2488	1.2745	1.2424	.8911	.7165		
	1.4461	1.3474	1.3525	1.3907	1.9795	2.4179		
15	.6555	.8204	.6340	.6501	F-SUB-Q			
	2.5920	2.0876	2.7463	2.7531	M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 100% POWER, 100 EFPD, THIS IS LEVEL 20 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.0667	* 1.4319	* 1.4619	* 1.3741	* 1.4266	* 1.2895	* 1.2906	* .6994
	* 1.7676	* 1.3264	* 1.2630	* 1.2858	* 1.2601	* 1.3382	* 1.3667	* 2.4938
9	* 1.4319	* 1.3987	* 1.4651	* 1.4555	* 1.3462	* 1.3934	* 1.3677	* .8825
	* 1.3264	* 1.2874	* 1.2609	* 1.2546	* 1.3087	* 1.3020	* 1.2586	* 1.9954
10	* 1.4619	* 1.4651	* 1.4587	* 1.3666	* 1.4694	* 1.4169	* 1.3955	* .6833
	* 1.2630	* 1.2609	* 1.2672	* 1.3019	* 1.2645	* 1.3058	* 1.2638	* 2.6112
11	* 1.3741	* 1.4555	* 1.3655	* 1.4480	* 1.3505	* 1.4169	* 1.3602	* .6983
	* 1.2858	* 1.2540	* 1.3033	* 1.2964	* 1.3098	* 1.3014	* 1.3073	* 2.6291
12	* 1.4266	* 1.3473	* 1.4694	* 1.3505	* 1.4544	* 1.4266	* .9607	
	* 1.2601	* 1.3056	* 1.2645	* 1.3098	* 1.2493	* 1.2199	* 1.8979	
13	* 1.2895	* 1.3934	* 1.4169	* 1.4169	* 1.4266	* 1.3730	* .7743	
	* 1.3382	* 1.3013	* 1.3058	* 1.3014	* 1.2206	* 1.2592	* 2.3156	
14	* 1.2906	* 1.3687	* 1.3966	* 1.3602	* .9607	* .7743		
	* 1.3667	* 1.2586	* 1.2630	* 1.3074	* 1.8979	* 2.3156		
15	* .6994	* .8825	* .6833	* .6983	F-SUB-Q			
	* 2.4938	* 1.9937	* 2.6112	* 2.6291	M-SUB-Q			

AT 100% POWER, 100 EFPD, THIS IS LEVEL 19 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.0924	* 1.4683	* 1.5037	* 1.4287	* 1.4908	* 1.3602	* 1.3548	* .7283
	* 1.7802	* 1.3285	* 1.2606	* 1.2685	* 1.2413	* 1.3038	* 1.3393	* 2.4675
9	* 1.4683	* 1.4491	* 1.5080	* 1.5058	* 1.4159	* 1.4544	* 1.4426	* .9200
	* 1.3285	* 1.2751	* 1.2591	* 1.2467	* 1.2794	* 1.2825	* 1.2256	* 1.9687
10	* 1.5037	* 1.5069	* 1.5037	* 1.4266	* 1.5390	* 1.4801	* 1.4716	* .7165
	* 1.2606	* 1.2591	* 1.2647	* 1.2810	* 1.2414	* 1.2869	* 1.2291	* 2.5615
11	* 1.4287	* 1.5069	* 1.4244	* 1.5165	* 1.4319	* 1.4855	* 1.4330	* .7283
	* 1.2685	* 1.2467	* 1.2818	* 1.2731	* 1.2760	* 1.2804	* 1.2753	* 2.5905
12	* 1.4908	* 1.4159	* 1.5390	* 1.4319	* 1.5347	* 1.5144	* 1.0057	
	* 1.2413	* 1.2765	* 1.2409	* 1.2763	* 1.2270	* 1.1916	* 1.8762	
13	* 1.3602	* 1.4544	* 1.4801	* 1.4855	* 1.5144	* 1.4555	* .8118	
	* 1.3038	* 1.2823	* 1.2869	* 1.2806	* 1.1920	* 1.2310	* 2.2982	
14	* 1.3548	* 1.4426	* 1.4716	* 1.4330	* 1.0057	* .8118		
	* 1.3393	* 1.2249	* 1.2291	* 1.2753	* 1.8762	* 2.2982		
15	* .7283	* .9211	* .7165	* .7283	F-SUB-Q			
	* 2.4675	* 1.9673	* 2.5639	* 2.5905	M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 100% POWER, 100 EFPD, THIS IS LEVEL 18 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.1106	* 1.5048	* 1.5465	* 1.4780	* 1.5508	* 1.4223	* 1.4159	* .7561
	* 1.8021	* 1.3247	* 1.2637	* 1.2598	* 1.2333	* 1.2861	* 1.3241	* 2.4593
9	* 1.5048	* 1.4940	* 1.5497	* 1.5551	* 1.4791	* 1.5123	* 1.5101	* .9564
	* 1.3247	* 1.2714	* 1.2609	* 1.2453	* 1.2636	* 1.2722	* 1.2058	* 1.9573
10	* 1.5465	* 1.5497	* 1.5476	* 1.4919	* 1.6044	* 1.5401	* 1.5401	* .7454
	* 1.2637	* 1.2616	* 1.2651	* 1.2714	* 1.2257	* 1.2745	* 1.2066	* 2.5434
11	* 1.4780	* 1.5562	* 1.4887	* 1.5808	* 1.5048	* 1.5508	* 1.5005	* .7561
	* 1.2598	* 1.2453	* 1.2722	* 1.2532	* 1.2557	* 1.2669	* 1.2506	* 2.5607
12	* 1.5508	* 1.4791	* 1.6044	* 1.5037	* 1.6097	* 1.5926	* 1.0474	*
	* 1.2333	* 1.2620	* 1.2257	* 1.2559	* 1.2130	* 1.1716	* 1.8653	*
13	* 1.4223	* 1.5133	* 1.5390	* 1.5497	* 1.5926	* 1.5305	* .8472	*
	* 1.2861	* 1.2716	* 1.2745	* 1.2676	* 1.1716	* 1.2122	* 2.2840	*
14	* 1.4159	* 1.5101	* 1.5401	* 1.5005	* 1.0474	* .8472	*	*
	* 1.3241	* 1.2057	* 1.2065	* 1.2506	* 1.8653	* 2.2833	*	*
15	* .7561	* .9575	* .7454	* .7561	* F-SUB-Q			
	* 2.4593	* 1.9559	* 2.5439	* 2.5607	* M-SUB-Q			

AT 100% POWER, 100 EFPD, THIS IS LEVEL 17 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.1074	* 1.5123	* 1.5594	* 1.5037	* 1.5797	* 1.4598	* 1.4501	* .7668
	* 1.8626	* 1.3599	* 1.2953	* 1.2802	* 1.2554	* 1.3035	* 1.3413	* 2.5166
9	* 1.5123	* 1.5155	* 1.5637	* 1.5744	* 1.5165	* 1.5401	* 1.5530	* .9725
	* 1.3599	* 1.2961	* 1.2917	* 1.2740	* 1.2775	* 1.2928	* 1.2190	* 1.9958
10	* 1.5594	* 1.5637	* 1.5669	* 1.5337	* 1.6397	* 1.5690	* 1.5840	* .7593
	* 1.2953	* 1.2924	* 1.2933	* 1.2834	* 1.2327	* 1.2883	* 1.2147	* 2.5845
11	* 1.5037	* 1.5744	* 1.5294	* 1.6129	* 1.5508	* 1.5851	* 1.5422	* .7690
	* 1.2802	* 1.2739	* 1.2864	* 1.2653	* 1.2632	* 1.2763	* 1.2570	* 2.5901
12	* 1.5797	* 1.5165	* 1.6397	* 1.5508	* 1.6526	* 1.6440	* 1.0689	*
	* 1.2554	* 1.2775	* 1.2327	* 1.2632	* 1.2247	* 1.1815	* 1.8842	*
13	* 1.4598	* 1.5412	* 1.5690	* 1.5840	* 1.6440	* 1.5797	* .8632	*
	* 1.3035	* 1.2926	* 1.2883	* 1.2770	* 1.1815	* 1.2247	* 2.3225	*
14	* 1.4501	* 1.5530	* 1.5840	* 1.5422	* 1.0689	* .8632	*	*
	* 1.3413	* 1.2184	* 1.2147	* 1.2570	* 1.8842	* 2.3225	*	*
15	* .7668	* .9735	* .7593	* .7690	* F-SUB-Q			
	* 2.5166	* 1.9941	* 2.5845	* 2.5901	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 100% POWER, 100 EFPD, THIS IS LEVEL 16 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.1117	* 1.5240	* 1.5765	* 1.5294	* 1.6097	* 1.4919	* 1.4833	* .7797
	* 1.9328	* 1.3909	* 1.3305	* 1.3186	* 1.2844	* 1.3405	* 1.3671	* 2.5812
9	* 1.5240	* 1.5358	* 1.5829	* 1.5969	* 1.5508	* 1.5690	* 1.5904	* .9896
	* 1.3909	* 1.3351	* 1.3260	* 1.3060	* 1.3072	* 1.3189	* 1.2490	* 2.0432
10	* 1.5765	* 1.5819	* 1.5915	* 1.5701	* 1.6750	* 1.6001	* 1.6215	* .7743
	* 1.3305	* 1.3261	* 1.3228	* 1.3111	* 1.2481	* 1.3080	* 1.2383	* 2.6335
11	* 1.5294	* 1.5969	* 1.5658	* 1.6461	* 1.5915	* 1.6194	* 1.5797	* .7829
	* 1.3186	* 1.3053	* 1.3149	* 1.2853	* 1.2898	* 1.2956	* 1.2864	* 2.6321
12	* 1.6097	* 1.5508	* 1.6740	* 1.5915	* 1.6943	* 1.6890	* 1.0903	
	* 1.2844	* 1.3068	* 1.2484	* 1.2898	* 1.2413	* 1.2032	* 1.9171	
13	* 1.4919	* 1.5701	* 1.5990	* 1.6183	* 1.6890	* 1.6226	* .8814	
	* 1.3405	* 1.3181	* 1.3080	* 1.2957	* 1.2038	* 1.2467	* 2.3623	
14	* 1.4833	* 1.5904	* 1.6215	* 1.5797	* 1.0903	* .8814		
	* 1.3671	* 1.2484	* 1.2383	* 1.2867	* 1.9186	* 2.3623		
15	* .7797	* .9896	* .7743	* .7829	* F-SUB-Q			
	* 2.5812	* 2.0414	* 2.6335	* 2.6321	* M-SUB-Q			

AT 100% POWER, 100 EFPD, THIS IS LEVEL 15 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.0913	* 1.5080	* 1.5637	* 1.5230	* 1.6054	* 1.4887	* 1.4833	* .7775
	* 2.0329	* 1.4635	* 1.4009	* 1.3979	* 1.3487	* 1.4189	* 1.4335	* 2.7114
9	* 1.5080	* 1.5208	* 1.5722	* 1.5872	* 1.5476	* 1.5679	* 1.5883	* .9853
	* 1.4635	* 1.4189	* 1.3950	* 1.3730	* 1.3780	* 1.3800	* 1.3180	* 2.1450
10	* 1.5637	* 1.5712	* 1.5851	* 1.5690	* 1.6740	* 1.6001	* 1.6215	* .7700
	* 1.4009	* 1.3959	* 1.3864	* 1.3738	* 1.3009	* 1.3628	* 1.3028	* 2.7655
11	* 1.5230	* 1.5872	* 1.5637	* 1.6461	* 1.5936	* 1.6226	* 1.5797	* .7797
	* 1.3979	* 1.3716	* 1.3780	* 1.3360	* 1.3585	* 1.3492	* 1.3463	* 2.7488
12	* 1.6054	* 1.5487	* 1.6740	* 1.5936	* 1.6997	* 1.6933	* 1.0913	
	* 1.3487	* 1.3772	* 1.3016	* 1.3585	* 1.2958	* 1.2669	* 2.0041	
13	* 1.4887	* 1.5679	* 1.5990	* 1.6226	* 1.6933	* 1.6258	* .8814	
	* 1.4189	* 1.3792	* 1.3633	* 1.3497	* 1.2669	* 1.3131	* 2.4694	
14	* 1.4833	* 1.5894	* 1.6204	* 1.5787	* 1.0903	* .8814		
	* 1.4335	* 1.3180	* 1.3028	* 1.3463	* 2.0050	* 2.4694		
15	* .7775	* .9864	* .7700	* .7797	* F-SUB-Q			
	* 2.7114	* 2.1433	* 2.7661	* 2.7503	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 100% POWER, 100 EFPD, THIS IS LEVEL 14 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.0956	* 1.5155	* 1.5765	* 1.5530	* 1.6311	* 1.5208	* 1.5144	* .7861
	* 2.1194	* 1.5279	* 1.4614	* 1.4562	* 1.3988	* 1.4760	* 1.4808	* 2.8213
9	* 1.5155	* 1.5422	* 1.5862	* 1.6086	* 1.5819	* 1.5915	* 1.6279	* .9992
	* 1.5279	* 1.4811	* 1.4533	* 1.4268	* 1.4279	* 1.4299	* 1.3650	* 2.2236
10	* 1.5765	* 1.5851	* 1.6054	* 1.6054	* 1.7072	* 1.6258	* 1.6622	* .7840
	* 1.4614	* 1.4542	* 1.4390	* 1.4200	* 1.3413	* 1.4080	* 1.3444	* 2.8490
11	* 1.5530	* 1.6086	* 1.6001	* 1.6761	* 1.6343	* 1.6568	* 1.6183	* .7904
	* 1.4562	* 1.4260	* 1.4244	* 1.3756	* 1.3936	* 1.3828	* 1.3872	* 2.8429
12	* 1.6311	* 1.5819	* 1.7061	* 1.6343	* 1.7382	* 1.7414	* 1.1085	
	* 1.3988	* 1.4279	* 1.3413	* 1.3936	* 1.3229	* 1.2991	* 2.0587	
13	* 1.5208	* 1.5915	* 1.6247	* 1.6568	* 1.7414	* 1.6718	* .8943	
	* 1.4760	* 1.4299	* 1.4085	* 1.3828	* 1.2995	* 1.3492	* 2.5438	
14	* 1.5144	* 1.6279	* 1.6611	* 1.6183	* 1.1085	* .8943		
	* 1.4808	* 1.3643	* 1.3451	* 1.3876	* 2.0597	* 2.5438		
15	* .7861	* .9992	* .7840	* .7904	* F-SUB-Q			
	* 2.8213	* 2.2218	* 2.8525	* 2.8429	* M-SUB-Q			

AT 100% POWER, 100 EFPD, THIS IS LEVEL 13 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.0828	* 1.5048	* 1.5701	* 1.5583	* 1.6354	* 1.5283	* 1.5219	* .7861
	* 2.2472	* 1.6186	* 1.5484	* 1.5468	* 1.4767	* 1.5657	* 1.5577	* 2.9770
9	* 1.5048	* 1.5380	* 1.5808	* 1.6097	* 1.5904	* 1.5947	* 1.6397	* .9992
	* 1.6186	* 1.5777	* 1.5394	* 1.5078	* 1.5120	* 1.5074	* 1.4435	* 2.3433
10	* 1.5701	* 1.5797	* 1.6044	* 1.6161	* 1.7157	* 1.6311	* 1.6750	* .7861
	* 1.5484	* 1.5403	* 1.5194	* 1.5016	* 1.4087	* 1.4821	* 1.4189	* 2.9960
11	* 1.5583	* 1.6097	* 1.6108	* 1.6858	* 1.6493	* 1.6697	* 1.6311	* .7915
	* 1.5468	* 1.5077	* 1.5065	* 1.4455	* 1.4675	* 1.4467	* 1.4627	* 2.9846
12	* 1.6354	* 1.5904	* 1.7157	* 1.6493	* 1.7532	* 1.7607	* 1.1128	
	* 1.4767	* 1.5112	* 1.4087	* 1.4679	* 1.3822	* 1.3634	* 2.1568	
13	* 1.5283	* 1.5947	* 1.6301	* 1.6686	* 1.7607	* 1.6900	* .8975	
	* 1.5657	* 1.5074	* 1.4826	* 1.4471	* 1.3634	* 1.4147	* 2.6613	
14	* 1.5219	* 1.6397	* 1.6750	* 1.6311	* 1.1117	* .8975		
	* 1.5577	* 1.4435	* 1.4189	* 1.4632	* 2.1588	* 2.6613		
15	* .7861	* 1.0003	* .7850	* .7915	* F-SUB-Q			
	* 2.9770	* 2.3414	* 2.9992	* 2.9878	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 100% POWER, 100 EFPD, THIS IS LEVEL 12 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.0646	* 1.4823	* 1.5487	* 1.5412	* 1.6204	* 1.5144	* 1.5112	* .7797 *
	* 2.2435	* 1.6173	* 1.5500	* 1.5593	* 1.4834	* 1.5867	* 1.5888	* 3.0596 *
9	* 1.4823	* 1.5165	* 1.5604	* 1.5936	* 1.5776	* 1.5819	* 1.6279	* .9907 *
	* 1.6173	* 1.5835	* 1.5398	* 1.5101	* 1.5278	* 1.5219	* 1.4778	* 2.4143 *
10	* 1.5487	* 1.5594	* 1.5872	* 1.6033	* 1.7050	* 1.6194	* 1.6643	* .7786 *
	* 1.5500	* 1.5409	* 1.5169	* 1.5082	* 1.4180	* 1.4928	* 1.4504	* 3.0716 *
11	* 1.5412	* 1.5936	* 1.5979	* 1.6740	* 1.6408	* 1.6622	* 1.6204	* .7840 *
	* 1.5593	* 1.5101	* 1.5130	* 1.4459	* 1.4796	* 1.4612	* 1.4938	* 3.0556 *
12	* 1.6204	* 1.5776	* 1.7050	* 1.6408	* 1.7479	* 1.7554	* 1.1053	*
	* 1.4834	* 1.5278	* 1.4180	* 1.4796	* 1.3919	* 1.3861	* 2.1891	*
13	* 1.5144	* 1.5819	* 1.6194	* 1.6611	* 1.7543	* 1.6825	* .8921	*
	* 1.5867	* 1.5219	* 1.4928	* 1.4612	* 1.3869	* 1.4450	* 2.7098	*
14	* 1.5112	* 1.6279	* 1.6643	* 1.6204	* 1.1053	* .8921	*	*
	* 1.5888	* 1.4778	* 1.4504	* 1.4938	* 2.1891	* 2.7098	*	*
15	* .7797	* .9907	* .7786	* .7840	F-SUB-Q			
	* 3.0596	* 2.4118	* 3.0716	* 3.0596	M-SUB-Q			

AT 100% POWER, 100 EFPD, THIS IS LEVEL 11 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.0624	* 1.4887	* 1.5583	* 1.5604	* 1.6376	* 1.5347	* 1.5326	* .7861 *
	* 2.1973	* 1.5750	* 1.5072	* 1.5072	* 1.4362	* 1.5318	* 1.5328	* 2.9668 *
9	* 1.4887	* 1.5283	* 1.5712	* 1.6086	* 1.6001	* 1.6001	* 1.6547	* 1.0014 *
	* 1.5750	* 1.5358	* 1.4957	* 1.4630	* 1.4731	* 1.4713	* 1.4223	* 2.3374 *
10	* 1.5583	* 1.5701	* 1.6022	* 1.6268	* 1.7297	* 1.6397	* 1.6922	* .7872 *
	* 1.5072	* 1.4966	* 1.4695	* 1.4513	* 1.3652	* 1.4397	* 1.3927	* 2.9743 *
11	* 1.5604	* 1.6086	* 1.6215	* 1.6954	* 1.6686	* 1.6868	* 1.6483	* .7925 *
	* 1.5072	* 1.4630	* 1.4567	* 1.3935	* 1.4197	* 1.4035	* 1.4327	* 2.9556 *
12	* 1.6376	* 1.6001	* 1.7286	* 1.6675	* 1.7768	* 1.7896	* 1.1192	*
	* 1.4362	* 1.4731	* 1.3660	* 1.4197	* 1.3349	* 1.3266	* 2.1066	*
13	* 1.5347	* 1.6011	* 1.6386	* 1.6858	* 1.7886	* 1.7157	* .9029	*
	* 1.5318	* 1.4713	* 1.4406	* 1.4044	* 1.3266	* 1.3829	* 2.6104	*
14	* 1.5326	* 1.6547	* 1.6922	* 1.6472	* 1.1192	* .9029	*	*
	* 1.5328	* 1.4223	* 1.3935	* 1.4335	* 2.1085	* 2.6104	*	*
15	* .7861	* 1.0014	* .7861	* .7925	F-SUB-Q			
	* 2.9668	* 2.3350	* 2.9743	* 2.9556	M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 100% POWER, 100 EFPD, THIS IS LEVEL 10 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.0464	* 1.4748	* 1.5476	* 1.5583	* 1.6333	* 1.5358	* 1.5347	* .7829
	* 2.1871	* 1.5582	* 1.4873	* 1.4789	* 1.4118	* 1.4987	* 1.4936	* 2.8911
9	* 1.4748	* 1.5219	* 1.5615	* 1.6022	* 1.6022	* 1.5969	* 1.6600	* .9971
	* 1.5582	* 1.5130	* 1.4769	* 1.4406	* 1.4424	* 1.4468	* 1.3867	* 2.2746
10	* 1.5476	* 1.5594	* 1.5947	* 1.6290	* 1.7297	* 1.6376	* 1.6986	* .7840
	* 1.4873	* 1.4778	* 1.4477	* 1.4205	* 1.3387	* 1.4128	* 1.3604	* 2.9051
11	* 1.5583	* 1.6022	* 1.6236	* 1.6933	* 1.6740	* 1.6890	* 1.6547	* .7893
	* 1.4789	* 1.4406	* 1.4257	* 1.3676	* 1.3853	* 1.3723	* 1.3985	* 2.8940
12	* 1.6333	* 1.6022	* 1.7286	* 1.6740	* 1.7800	* 1.7993	* 1.1181	*
	* 1.4118	* 1.4424	* 1.3387	* 1.3853	* 1.3037	* 1.2901	* 2.0658	*
13	* 1.5358	* 1.5969	* 1.6365	* 1.6890	* 1.7993	* 1.7265	* .9018	*
	* 1.4987	* 1.4468	* 1.4137	* 1.3732	* 1.2901	* 1.3448	* 2.5563	*
14	* 1.5347	* 1.6600	* 1.6986	* 1.6536	* 1.1181	* .9018	*	*
	* 1.4936	* 1.3867	* 1.3604	* 1.3985	* 2.0658	* 2.5591	*	*
15	* .7829	* .9982	* .7829	* .7893	* F-SUB-Q			
	* 2.8911	* 2.2736	* 2.9051	* 2.8959	* M-SUB-Q			

AT 100% POWER, 100 EFPD, THIS IS LEVEL 9 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.0314	* 1.4555	* 1.5294	* 1.5455	* 1.6194	* 1.5240	* 1.5251	* .7743
	* 2.1473	* 1.5243	* 1.4536	* 1.4411	* 1.3760	* 1.4590	* 1.4527	* 2.8229
9	* 1.4555	* 1.5058	* 1.5444	* 1.5872	* 1.5915	* 1.5840	* 1.6515	* .9885
	* 1.5243	* 1.4768	* 1.4427	* 1.4069	* 1.4060	* 1.4090	* 1.3469	* 2.2188
10	* 1.5294	* 1.5422	* 1.5797	* 1.6194	* 1.7200	* 1.6258	* 1.6911	* .7775
	* 1.4536	* 1.4441	* 1.4170	* 1.3921	* 1.3073	* 1.3835	* 1.3221	* 2.8279
11	* 1.5455	* 1.5872	* 1.6129	* 1.6815	* 1.6654	* 1.6804	* 1.6472	* .7818
	* 1.4411	* 1.4069	* 1.3971	* 1.3430	* 1.3676	* 1.3525	* 1.3654	* 2.8207
12	* 1.6194	* 1.5915	* 1.7179	* 1.6654	* 1.7725	* 1.7939	* 1.1096	*
	* 1.3760	* 1.4060	* 1.3080	* 1.3676	* 1.2866	* 1.2706	* 2.0282	*
13	* 1.5240	* 1.5840	* 1.6247	* 1.6793	* 1.7939	* 1.7200	* .8943	*
	* 1.4590	* 1.4090	* 1.3843	* 1.3533	* 1.2712	* 1.3243	* 2.5148	*
14	* 1.5251	* 1.6515	* 1.6900	* 1.6461	* 1.1096	* .8943	*	*
	* 1.4527	* 1.3464	* 1.3221	* 1.3662	* 2.0282	* 2.5148	*	*
15	* .7743	* .9885	* .7765	* .7818	* F-SUB-Q			
	* 2.8229	* 2.2188	* 2.8294	* 2.8226	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 100% POWER, 100 EFPD, THIS IS LEVEL 8 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.0089	* 1.4298	* 1.5037	* 1.5176	* 1.5936	* 1.4973	* 1.5026	* .7626
	* 2.1166	* 1.5002	* 1.4299	* 1.4200	* 1.3521	* 1.4373	* 1.4269	* 2.7775
9	* 1.4298	* 1.4769	* 1.5187	* 1.5637	* 1.5658	* 1.5615	* 1.6247	* .9725
	* 1.5002	* 1.4565	* 1.4186	* 1.3815	* 1.3819	* 1.3823	* 1.3243	* 2.1827
10	* 1.5037	* 1.5176	* 1.5551	* 1.5926	* 1.6965	* 1.6044	* 1.6643	* .7636
	* 1.4299	* 1.4195	* 1.3912	* 1.3669	* 1.2812	* 1.3539	* 1.2979	* 2.7855
11	* 1.5176	* 1.5626	* 1.5862	* 1.6579	* 1.6408	* 1.6590	* 1.6215	* .7690
	* 1.4200	* 1.3815	* 1.3717	* 1.3152	* 1.3382	* 1.3195	* 1.3384	* 2.7706
12	* 1.5936	* 1.5658	* 1.6943	* 1.6397	* 1.7500	* 1.7682	* 1.0946	*
	* 1.3521	* 1.3819	* 1.2816	* 1.3386	* 1.2592	* 1.2442	* 1.9838	*
13	* 1.4973	* 1.5615	* 1.6033	* 1.6579	* 1.7682	* 1.6954	* .8825	*
	* 1.4373	* 1.3823	* 1.3547	* 1.3202	* 1.2445	* 1.2957	* 2.4570	*
14	* 1.5026	* 1.6247	* 1.6643	* 1.6204	* 1.0935	* .8814	*	*
	* 1.4269	* 1.3236	* 1.2979	* 1.3389	* 1.9838	* 2.4570	*	*
15	* .7626	* .9725	* .7626	* .7690	* F-SUB-Q			
	* 2.7775	* 2.1827	* 2.7889	* 2.7739	* M-SUB-Q			

AT 100% POWER, 100 EFPD, THIS IS LEVEL 7 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.0014	* 1.4223	* 1.4983	* 1.5208	* 1.5926	* 1.5015	* 1.5058	* .7583
	* 2.0613	* 1.4600	* 1.3905	* 1.3726	* 1.3117	* 1.3890	* 1.3800	* 2.7045
9	* 1.4223	* 1.4780	* 1.5133	* 1.5594	* 1.5712	* 1.5594	* 1.6333	* .9693
	* 1.4600	* 1.4097	* 1.3790	* 1.3417	* 1.3342	* 1.3410	* 1.2760	* 2.1223
10	* 1.4983	* 1.5123	* 1.5508	* 1.5979	* 1.6986	* 1.6022	* 1.6740	* .7626
	* 1.3905	* 1.3798	* 1.3511	* 1.3181	* 1.2386	* 1.3118	* 1.2495	* 2.7040
11	* 1.5208	* 1.5594	* 1.5915	* 1.6579	* 1.6493	* 1.6611	* 1.6301	* .7658
	* 1.3726	* 1.3418	* 1.3233	* 1.2724	* 1.2851	* 1.2726	* 1.2878	* 2.6972
12	* 1.5926	* 1.5701	* 1.6965	* 1.6483	* 1.7543	* 1.7800	* 1.0913	*
	* 1.3117	* 1.3342	* 1.2392	* 1.2862	* 1.2100	* 1.1919	* 1.9232	*
13	* 1.5015	* 1.5594	* 1.6011	* 1.6600	* 1.7789	* 1.7072	* .8782	*
	* 1.3890	* 1.3404	* 1.3126	* 1.2737	* 1.1919	* 1.2403	* 2.3823	*
14	* 1.5058	* 1.6333	* 1.6729	* 1.6290	* 1.0903	* .8782	*	*
	* 1.3800	* 1.2760	* 1.2501	* 1.2881	* 1.9232	* 2.3823	*	*
15	* .7583	* .9693	* .7615	* .7658	* F-SUB-Q			
	* 2.7045	* 2.1220	* 2.7071	* 2.6983	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 100% POWER, 100 EFPD, THIS IS LEVEL 6 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9800	* 1.3966	* 1.4716	* 1.4951	* 1.5669	* 1.4748	* 1.4801	* .7433
	* 2.0365	* 1.4390	* 1.3698	* 1.3532	* 1.2918	* 1.3698	* 1.3595	* 2.6772
9	* 1.3966	* 1.4523	* 1.4876	* 1.5337	* 1.5444	* 1.5326	* 1.6054	* .9500
	* 1.4390	* 1.3893	* 1.3578	* 1.3210	* 1.3136	* 1.3204	* 1.2572	* 2.0994
10	* 1.4716	* 1.4865	* 1.5240	* 1.5712	* 1.6729	* 1.5765	* 1.6461	* .7465
	* 1.3698	* 1.3586	* 1.3300	* 1.2968	* 1.2171	* 1.2898	* 1.2299	* 2.6741
11	* 1.4951	* 1.5326	* 1.5647	* 1.6311	* 1.6215	* 1.6354	* 1.6033	* .7497
	* 1.3532	* 1.3210	* 1.3019	* 1.2502	* 1.2625	* 1.2497	* 1.2660	* 2.6680
12	* 1.5669	* 1.5444	* 1.6708	* 1.6204	* 1.7275	* 1.7511	* 1.0699	
	* 1.2918	* 1.3136	* 1.2177	* 1.2631	* 1.1867	* 1.1695	* 1.8948	
13	* 1.4748	* 1.5337	* 1.5754	* 1.6343	* 1.7511	* 1.6793	* .8611	
	* 1.3698	* 1.3202	* 1.2905	* 1.2504	* 1.1695	* 1.2178	* 2.3508	
14	* 1.4801	* 1.6054	* 1.6451	* 1.6022	* 1.0699	* .8611		
	* 1.3595	* 1.2572	* 1.2299	* 1.2667	* 1.8948	* 2.3508		
15	* .7433	* .9500	* .7465	* .7497	* F-SUB-Q			
	* 2.6772	* 2.0994	* 2.6772	* 2.6711	* M-SUB-Q			

AT 100% POWER, 100 EFPD, THIS IS LEVEL 5 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9403	* 1.3441	* 1.4201	* 1.4319	* 1.5080	* 1.4116	* 1.4191	* .7133
	* 2.0624	* 1.4532	* 1.3801	* 1.3730	* 1.3032	* 1.3919	* 1.3780	* 2.7132
9	* 1.3441	* 1.3912	* 1.4362	* 1.4780	* 1.4791	* 1.4758	* 1.5315	* .9082
	* 1.4532	* 1.4086	* 1.3665	* 1.3314	* 1.3322	* 1.3322	* 1.2798	* 2.1347
10	* 1.4201	* 1.4351	* 1.4683	* 1.5037	* 1.6097	* 1.5176	* 1.5701	* .7111
	* 1.3801	* 1.3680	* 1.3406	* 1.3149	* 1.2271	* 1.2996	* 1.2516	* 2.7284
11	* 1.4319	* 1.4769	* 1.4983	* 1.5712	* 1.5497	* 1.5701	* 1.5294	* .7165
	* 1.3730	* 1.3322	* 1.3201	* 1.2595	* 1.2796	* 1.2604	* 1.2869	* 2.7127
12	* 1.5080	* 1.4791	* 1.6086	* 1.5497	* 1.6600	* 1.6718	* 1.0271	
	* 1.3032	* 1.3322	* 1.2277	* 1.2802	* 1.1962	* 1.1860	* 1.9154	
13	* 1.4116	* 1.4758	* 1.5165	* 1.5690	* 1.6718	* 1.6011	* .8247	
	* 1.3919	* 1.3316	* 1.3003	* 1.2616	* 1.1865	* 1.2369	* 2.3805	
14	* 1.4191	* 1.5315	* 1.5690	* 1.5294	* 1.0260	* .8236		
	* 1.3780	* 1.2798	* 1.2522	* 1.2875	* 1.9154	* 2.3805		
15	* .7133	* .9082	* .7111	* .7165	* F-SUB-Q			
	* 2.7132	* 2.1343	* 2.7290	* 2.7127	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 100% POWER, 100 EFPD, THIS IS LEVEL 4 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9104	* 1.3002	* 1.3784	* 1.3891	* 1.4705	* 1.3666	* 1.3741	* .6876
	* 2.0797	* 1.4645	* 1.3862	* 1.3804	* 1.3033	* 1.4019	* 1.3872	* 2.7470
9	* 1.3002	* 1.3452	* 1.3966	* 1.4384	* 1.4309	* 1.4298	* 1.4726	* .8718
	* 1.4645	* 1.4216	* 1.3705	* 1.3338	* 1.3423	* 1.3400	* 1.2977	* 2.1712
10	* 1.3784	* 1.3944	* 1.4266	* 1.4576	* 1.5626	* 1.4683	* 1.5058	* .6822
	* 1.3862	* 1.3715	* 1.3446	* 1.3216	* 1.2304	* 1.3091	* 1.2714	* 2.7757
11	* 1.3891	* 1.4373	* 1.4512	* 1.5294	* 1.4983	* 1.5176	* 1.4673	* .6865
	* 1.3804	* 1.3346	* 1.3269	* 1.2596	* 1.2881	* 1.2699	* 1.3063	* 2.7626
12	* 1.4705	* 1.4309	* 1.5615	* 1.4983	* 1.6097	* 1.6076	* .9875	
	* 1.3033	* 1.3423	* 1.2310	* 1.2889	* 1.2000	* 1.2006	* 1.9401	
13	* 1.3666	* 1.4298	* 1.4673	* 1.5165	* 1.6065	* 1.5347	* .7904	
	* 1.4019	* 1.3400	* 1.3098	* 1.2706	* 1.2007	* 1.2543	* 2.4164	
14	* 1.3741	* 1.4737	* 1.5058	* 1.4673	* .9864	* .7904		
	* 1.3872	* 1.2975	* 1.2715	* 1.3071	* 1.9415	* 2.4164		
15	* .6876	* .8718	* .6822	* .6865	F-SUB-Q			
	* 2.7470	* 2.1695	* 2.7763	* 2.7632	M-SUB-Q			

AT 100% POWER, 100 EFPD, THIS IS LEVEL 3 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .8418	* 1.1931	* 1.2723	* 1.2991	* 1.3805	* 1.2756	* 1.2756	* .6351
	* 2.2051	* 1.5632	* 1.4705	* 1.4441	* 1.3582	* 1.4705	* 1.4642	* 2.9178
9	* 1.1931	* 1.2316	* 1.2884	* 1.3462	* 1.3280	* 1.3195	* 1.3398	* .7958
	* 1.5632	* 1.5203	* 1.4539	* 1.3947	* 1.4150	* 1.4213	* 1.3960	* 2.3335
10	* 1.2723	* 1.2873	* 1.3302	* 1.3602	* 1.4437	* 1.3430	* 1.3580	* .6255
	* 1.4705	* 1.4548	* 1.4116	* 1.3848	* 1.3021	* 1.3991	* 1.3801	* 2.9657
11	* 1.2991	* 1.3452	* 1.3548	* 1.4351	* 1.3934	* 1.3934	* 1.3173	* .6255
	* 1.4441	* 1.3948	* 1.3906	* 1.3130	* 1.3551	* 1.3520	* 1.4239	* 2.9702
12	* 1.3805	* 1.3280	* 1.4426	* 1.3923	* 1.4951	* 1.4619	* .9039	
	* 1.3582	* 1.4150	* 1.3028	* 1.3551	* 1.2626	* 1.2899	* 2.0739	
13	* 1.2756	* 1.3195	* 1.3420	* 1.3923	* 1.4619	* 1.3827	* .7197	
	* 1.4705	* 1.4212	* 1.4000	* 1.3527	* 1.2906	* 1.3615	* 2.5989	
14	* 1.2756	* 1.3398	* 1.3570	* 1.3173	* .9029	* .7197		
	* 1.4642	* 1.3958	* 1.3802	* 1.4241	* 2.0739	* 2.5989		
15	* .6351	* .7958	* .6255	* .6255	F-SUB-Q			
	* 2.9178	* 2.3311	* 2.9695	* 2.9733	M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 100% POWER, 100 EFPD, THIS IS LEVEL 2 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .6994	* .9682	* 1.0389	* 1.2370	* 1.1695	* 1.2113	* 1.0721	* .5312
	* 2.6099	* 1.8931	* 1.7693	* 1.4890	* 1.5744	* 1.5190	* 1.7111	* 3.4330
9	* .9682	* 1.1278	* 1.0432	* 1.1342	* 1.2606	* 1.0913	* 1.1363	* .6522
	* 1.8931	* 1.6285	* 1.7640	* 1.6261	* 1.4637	* 1.6860	* 1.6164	* 2.7983
10	* 1.0389	* 1.0421	* 1.1117	* 1.2895	* 1.2059	* 1.0764	* 1.1288	* .5226
	* 1.7693	* 1.7664	* 1.6584	* 1.4339	* 1.5321	* 1.7148	* 1.6276	* 3.4944
11	* 1.2370	* 1.1331	* 1.2852	* 1.2134	* 1.3109	* 1.1406	* 1.0614	* .5162
	* 1.4890	* 1.6272	* 1.4383	* 1.5239	* 1.4122	* 1.6216	* 1.7343	* 3.5374
12	* 1.1695	* 1.2606	* 1.2038	* 1.3098	* 1.2531	* 1.2402	* .7540	*
	* 1.5744	* 1.4637	* 1.5359	* 1.4139	* 1.4775	* 1.4918	* 2.4407	*
13	* 1.2113	* 1.0924	* 1.0753	* 1.1395	* 1.2402	* 1.1074	* .5901	*
	* 1.5190	* 1.6850	* 1.7161	* 1.6218	* 1.4920	* 1.6707	* 3.1119	*
14	* 1.0721	* 1.1363	* 1.1288	* 1.0603	* .7540	* .5901	*	*
	* 1.7111	* 1.6162	* 1.6287	* 1.7356	* 2.4428	* 3.1154	*	*
15	* .5312	* .6522	* .5226	* .5162	* F-SUB-Q			
	* 3.4330	* 2.7950	* 3.4953	* 3.5374	* M-SUB-Q			

AT 100% POWER, 100 EFPD, THIS IS LEVEL 1 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .4745	* .4038	* .4477	* .5291	* .4916	* .5173	* .4509	* .3556
	* 3.7948	* 4.4556	* 4.0376	* 3.4171	* 3.6807	* 3.4934	* 3.9975	* 5.0468
9	* .4038	* .4702	* .4327	* .4905	* .5387	* .4809	* .4509	* .2913
	* 4.4556	* 3.8331	* 4.1828	* 3.6923	* 3.3624	* 3.7644	* 3.9975	* 6.1491
10	* .4477	* .4327	* .4969	* .5516	* .5130	* .4477	* .4423	* .3620
	* 4.0376	* 4.1841	* 3.6464	* 3.2863	* 3.5409	* 4.0527	* 4.0738	* 4.9596
11	* .5291	* .4905	* .5505	* .5152	* .5580	* .4777	* .4102	* .2463
	* 3.4171	* 3.6923	* 3.2955	* 3.5249	* 3.2544	* 3.8010	* 4.4054	* 7.3081
12	* .4916	* .5387	* .5109	* .5580	* .5259	* .4916	* .3588	*
	* 3.6807	* 3.3624	* 3.5516	* 3.2581	* 3.4565	* 3.6933	* 5.0449	*
13	* .5173	* .4809	* .4466	* .4777	* .4905	* .4380	* .2699	*
	* 3.4934	* 3.7584	* 4.0598	* 3.8010	* 3.6933	* 4.1398	* 6.6770	*
14	* .4509	* .4509	* .4423	* .4102	* .3588	* .2699	*	*
	* 3.9975	* 3.9963	* 4.0738	* 4.4054	* 5.0449	* 6.6770	*	*
15	* .3556	* .2924	* .3620	* .2463	* F-SUB-Q			
	* 5.0468	* 6.1491	* 4.9596	* 7.3081	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 100% POWER, 150 EFPD, THIS IS LEVEL 24 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .4905 *	* .4284 *	* .4445 *	* .4605 *	* .4391 *	* .4295 *	* .3877 *	* .3513 *
	* 3.2950 *	* 4.0568 *	* 3.8320 *	* 3.5586 *	* 3.8085 *	* 3.7412 *	* 4.2305 *	* 4.6115 *
9	* .4284 *	* .4627 *	* .4445 *	* .4402 *	* .4509 *	* .4220 *	* .3888 *	* .2795 *
	* 4.0568 *	* 3.6634 *	* 3.8938 *	* 3.8490 *	* 3.6164 *	* 3.9360 *	* 4.1320 *	* 5.8275 *
10	* .4445 *	* .4434 *	* .4434 *	* .4573 *	* .4380 *	* .4081 *	* .3856 *	* .3438 *
	* 3.8320 *	* 3.8972 *	* 3.9148 *	* 3.6476 *	* 3.9218 *	* 4.1858 *	* 4.2567 *	* 4.8049 *
11	* .4605 *	* .4402 *	* .4573 *	* .4380 *	* .4348 *	* .3995 *	* .3577 *	* .2388 *
	* 3.5586 *	* 3.8422 *	* 3.6476 *	* 3.9774 *	* 3.7718 *	* 4.2109 *	* 4.6579 *	* 7.1480 *
12	* .4391 *	* .4520 *	* .4380 *	* .4348 *	* .3888 *	* .3674 *	* .3213 *	
	* 3.8085 *	* 3.6103 *	* 3.9182 *	* 3.7718 *	* 3.9581 *	* 4.0929 *	* 5.1801 *	
13	* .4295 *	* .4230 *	* .4081 *	* .3995 *	* .3674 *	* .3299 *	* .2420 *	
	* 3.7412 *	* 3.9289 *	* 4.1897 *	* 4.2109 *	* 4.0929 *	* 4.5088 *	* 6.6802 *	
14	* .3877 *	* .3888 *	* .3856 *	* .3577 *	* .3213 *	* .2420 *		
	* 4.2305 *	* 4.1280 *	* 4.2525 *	* 4.6579 *	* 5.1801 *	* 6.6802 *		
15	* .3513 *	* .2795 *	* .3438 *	* .2388 *	F-SUB-Q			
	* 4.6115 *	* 5.8275 *	* 4.8049 *	* 7.1480 *	M-SUB-Q			

AT 100% POWER, 150 EFPD, THIS IS LEVEL 23 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .6897 *	* .9725 *	* .9960 *	* .8932 *	* .9618 *	* .8290 *	* .8461 *	* .4894 *
	* 2.3630 *	* 1.8486 *	* 1.7729 *	* 1.9013 *	* 1.7881 *	* 2.0025 *	* 1.9948 *	* 3.4079 *
9	* .9725 *	* .9093 *	* 1.0025 *	* .9896 *	* .8632 *	* .9275 *	* .8482 *	* .5901 *
	* 1.8486 *	* 1.9013 *	* 1.7593 *	* 1.7650 *	* 1.9457 *	* 1.8697 *	* 1.9538 *	* 2.8366 *
10	* .9960 *	* 1.0014 *	* .9960 *	* .8868 *	* .9671 *	* .9403 *	* .8557 *	* .4595 *
	* 1.7729 *	* 1.7593 *	* 1.7757 *	* 1.9289 *	* 1.8352 *	* 1.8825 *	* 1.9820 *	* 3.7140 *
11	* .8932 *	* .9896 *	* .8857 *	* .9639 *	* .8504 *	* .9136 *	* .8257 *	* .4734 *
	* 1.9013 *	* 1.7650 *	* 1.9289 *	* 1.8532 *	* 1.9995 *	* 1.9125 *	* 2.0623 *	* 3.7077 *
12	* .9618 *	* .8632 *	* .9671 *	* .8493 *	* .8589 *	* .8268 *	* .6330 *	
	* 1.7881 *	* 1.9413 *	* 1.8345 *	* 1.9995 *	* 1.8330 *	* 1.9258 *	* 2.7108 *	
13	* .8290 *	* .9286 *	* .9403 *	* .9136 *	* .8268 *	* .7925 *	* .5012 *	
	* 2.0025 *	* 1.8681 *	* 1.8817 *	* 1.9125 *	* 1.9258 *	* 2.0217 *	* 3.3423 *	
14	* .8461 *	* .8493 *	* .8557 *	* .8257 *	* .6330 *	* .5012 *		
	* 1.9948 *	* 1.9520 *	* 1.9820 *	* 2.0623 *	* 2.7108 *	* 3.3423 *		
15	* .4894 *	* .5912 *	* .4595 *	* .4734 *	F-SUB-Q			
	* 3.4079 *	* 2.8329 *	* 3.7109 *	* 3.7077 *	M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 100% POWER, 150 EFPD, THIS IS LEVEL 22 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9082	* 1.2038	* 1.2316	* 1.1353	* 1.2038	* 1.0624	* 1.0656	* .6030
	* 2.0042	* 1.5361	* 1.4633	* 1.5266	* 1.4619	* 1.5944	* 1.6196	* 2.8299
9	* 1.2038	* 1.1535	* 1.2381	* 1.2284	* 1.1063	* 1.1642	* 1.1021	* .7390
	* 1.5361	* 1.5310	* 1.4561	* 1.4527	* 1.5538	* 1.5234	* 1.5360	* 2.3184
10	* 1.2316	* 1.2370	* 1.2327	* 1.1288	* 1.2167	* 1.1792	* 1.1138	* .5719
	* 1.4633	* 1.4561	* 1.4662	* 1.5460	* 1.4930	* 1.5346	* 1.5527	* 3.0511
11	* 1.1353	* 1.2295	* 1.1278	* 1.2113	* 1.0978	* 1.1599	* 1.0774	* .5869
	* 1.5266	* 1.4522	* 1.5465	* 1.5108	* 1.5846	* 1.5475	* 1.6162	* 3.0617
12	* 1.2038	* 1.1063	* 1.2167	* 1.0967	* 1.1749	* 1.1160	* .7925	*
	* 1.4619	* 1.5505	* 1.4925	* 1.5846	* 1.4886	* 1.5077	* 2.2311	*
13	* 1.0624	* 1.1652	* 1.1802	* 1.1599	* 1.1160	* 1.0603	* .6351	*
	* 1.5944	* 1.5224	* 1.5346	* 1.5475	* 1.5077	* 1.5763	* 2.7279	*
14	* 1.0656	* 1.1021	* 1.1138	* 1.0774	* .7925	* .6351	*	*
	* 1.6196	* 1.5354	* 1.5527	* 1.6162	* 2.2311	* 2.7279	*	*
15	* .6030	* .7401	* .5719	* .5869	* F-SUB-Q			
	* 2.8299	* 2.3147	* 3.0511	* 3.0617	* M-SUB-Q			

AT 100% POWER, 150 EFPD, THIS IS LEVEL 21 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.0174	* 1.3559	* 1.3912	* 1.3184	* 1.3902	* 1.2584	* 1.2402	* .6822
	* 1.8495	* 1.4001	* 1.3222	* 1.3382	* 1.2933	* 1.3746	* 1.4226	* 2.5583
9	* 1.3559	* 1.3323	* 1.3955	* 1.3977	* 1.3066	* 1.3377	* 1.3045	* .8504
	* 1.4001	* 1.3521	* 1.3202	* 1.3043	* 1.3441	* 1.3549	* 1.3234	* 2.0686
10	* 1.3912	* 1.3944	* 1.3912	* 1.3163	* 1.4062	* 1.3495	* 1.3173	* .6576
	* 1.3222	* 1.3206	* 1.3281	* 1.3538	* 1.3194	* 1.3716	* 1.3395	* 2.7130
11	* 1.3184	* 1.3977	* 1.3141	* 1.4052	* 1.3055	* 1.3441	* 1.2702	* .6704
	* 1.3382	* 1.3043	* 1.3547	* 1.3363	* 1.3631	* 1.3723	* 1.4030	* 2.7415
12	* 1.3902	* 1.3066	* 1.4062	* 1.3034	* 1.3880	* 1.3430	* .9093	*
	* 1.2933	* 1.3411	* 1.3194	* 1.3631	* 1.3061	* 1.2956	* 1.9993	*
13	* 1.2584	* 1.3388	* 1.3495	* 1.3441	* 1.3430	* 1.2713	* .7326	*
	* 1.3746	* 1.3540	* 1.3712	* 1.3726	* 1.2956	* 1.3573	* 2.4411	*
14	* 1.2402	* 1.3055	* 1.3173	* 1.2702	* .9093	* .7326	*	*
	* 1.4226	* 1.3229	* 1.3395	* 1.4030	* 1.9993	* 2.4411	*	*
15	* .6822	* .8504	* .6576	* .6694	* F-SUB-Q			
	* 2.5583	* 2.0667	* 2.7130	* 2.7415	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 100% POWER, 150 EFPD, THIS IS LEVEL 20 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.0571	* 1.4180	* 1.4630	* 1.4126	* 1.4887	* 1.3677	* 1.3355	* .7208
	* 1.8358	* 1.3754	* 1.2884	* 1.2633	* 1.2384	* 1.2937	* 1.3547	* 2.4809
9	* 1.4180	* 1.4169	* 1.4641	* 1.4780	* 1.4169	* 1.4266	* 1.4137	* .9050
	* 1.3754	* 1.3011	* 1.2876	* 1.2597	* 1.2689	* 1.2992	* 1.2487	* 1.9932
10	* 1.4630	* 1.4641	* 1.4726	* 1.4266	* 1.5048	* 1.4351	* 1.4255	* .7015
	* 1.2884	* 1.2884	* 1.2898	* 1.2906	* 1.2629	* 1.3219	* 1.2645	* 2.6053
11	* 1.4126	* 1.4791	* 1.4234	* 1.5090	* 1.4223	* 1.4394	* 1.3741	* .7111
	* 1.2633	* 1.2586	* 1.2898	* 1.2792	* 1.2819	* 1.3150	* 1.3329	* 2.6469
12	* 1.4887	* 1.4180	* 1.5048	* 1.4201	* 1.5037	* 1.4673	* .9703	*
	* 1.2384	* 1.2667	* 1.2625	* 1.2819	* 1.2454	* 1.2222	* 1.9348	*
13	* 1.3677	* 1.4266	* 1.4351	* 1.4394	* 1.4673	* 1.3880	* .7818	*
	* 1.2937	* 1.2981	* 1.3219	* 1.3150	* 1.2222	* 1.2836	* 2.3621	*
14	* 1.3355	* 1.4137	* 1.4266	* 1.3741	* .9703	* .7818	*	*
	* 1.3547	* 1.2483	* 1.2641	* 1.3329	* 1.9348	* 2.3621	*	*
15	* .7208	* .9061	* .7015	* .7111	* F-SUB-Q			
	* 2.4809	* 1.9932	* 2.6053	* 2.6469	* M-SUB-Q			

AT 100% POWER, 150 EFPD, THIS IS LEVEL 19 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.0753	* 1.4448	* 1.4973	* 1.4758	* 1.5455	* 1.4309	* 1.3902	* .7443
	* 1.8533	* 1.3827	* 1.2927	* 1.2406	* 1.2268	* 1.2682	* 1.3377	* 2.4739
9	* 1.4448	* 1.4619	* 1.5005	* 1.5262	* 1.4833	* 1.4769	* 1.4769	* .9350
	* 1.3827	* 1.2962	* 1.2916	* 1.2521	* 1.2473	* 1.2868	* 1.2262	* 1.9842
10	* 1.4973	* 1.4994	* 1.5219	* 1.4962	* 1.5637	* 1.4833	* 1.4876	* .7283
	* 1.2927	* 1.2920	* 1.2883	* 1.2663	* 1.2486	* 1.3135	* 1.2413	* 2.5818
11	* 1.4758	* 1.5272	* 1.4940	* 1.5679	* 1.4930	* 1.4951	* 1.4319	* .7336
	* 1.2406	* 1.2511	* 1.2663	* 1.2621	* 1.2558	* 1.3036	* 1.3116	* 2.6316
12	* 1.5455	* 1.4833	* 1.5637	* 1.4930	* 1.5722	* 1.5401	* 1.0046	*
	* 1.2268	* 1.2452	* 1.2486	* 1.2558	* 1.2310	* 1.2035	* 1.9273	*
13	* 1.4309	* 1.4780	* 1.4833	* 1.4940	* 1.5401	* 1.4544	* .8107	*
	* 1.2682	* 1.2861	* 1.3131	* 1.3036	* 1.2035	* 1.2671	* 2.3628	*
14	* 1.3902	* 1.4769	* 1.4876	* 1.4319	* 1.0046	* .8107	*	*
	* 1.3377	* 1.2258	* 1.2413	* 1.3116	* 1.9273	* 2.3628	*	*
15	* .7443	* .9361	* .7283	* .7336	* F-SUB-Q			
	* 2.4739	* 1.9833	* 2.5818	* 2.6332	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 100% POWER, 150 EFPD, THIS IS LEVEL 18 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.0871	* 1.4726	* 1.5326	* 1.5326	* 1.5979	* 1.4876	* 1.4416	* .7658
	* 1.8779	* 1.3812	* 1.3020	* 1.2298	* 1.2245	* 1.2557	* 1.3310	* 2.4820
9	* 1.4726	* 1.5026	* 1.5369	* 1.5744	* 1.5422	* 1.5251	* 1.5326	* .9639
	* 1.3812	* 1.2977	* 1.2994	* 1.2523	* 1.2379	* 1.2835	* 1.2154	* 1.9867
10	* 1.5326	* 1.5358	* 1.5679	* 1.5594	* 1.6183	* 1.5294	* 1.5433	* .7508
	* 1.3020	* 1.3001	* 1.2875	* 1.2473	* 1.2413	* 1.3099	* 1.2295	* 2.5810
11	* 1.5326	* 1.5754	* 1.5562	* 1.6247	* 1.5572	* 1.5465	* 1.4833	* .7551
	* 1.2298	* 1.2516	* 1.2501	* 1.2459	* 1.2408	* 1.2972	* 1.2930	* 2.6239
12	* 1.5979	* 1.5433	* 1.6183	* 1.5572	* 1.6343	* 1.6044	* 1.0367	
	* 1.2245	* 1.2361	* 1.2413	* 1.2415	* 1.2231	* 1.1906	* 1.9280	
13	* 1.4876	* 1.5262	* 1.5305	* 1.5455	* 1.6044	* 1.5144	* .8375	
	* 1.2557	* 1.2824	* 1.3095	* 1.2979	* 1.1907	* 1.2570	* 2.3627	
14	* 1.4416	* 1.5337	* 1.5433	* 1.4833	* 1.0367	* .8375		
	* 1.3310	* 1.2147	* 1.2291	* 1.2930	* 1.9280	* 2.3627		
15	* .7658	* .9639	* .7497	* .7551	* F-SUB-Q			
	* 2.4820	* 1.9849	* 2.5810	* 2.6250	* M-SUB-Q			

AT 100% POWER, 150 EFPD, THIS IS LEVEL 17 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.0806	* 1.4748	* 1.5401	* 1.5647	* 1.6204	* 1.5197	* 1.4673	* .7722
	* 1.9418	* 1.4196	* 1.3382	* 1.2518	* 1.2508	* 1.2769	* 1.3549	* 2.5527
9	* 1.4748	* 1.5197	* 1.5455	* 1.5926	* 1.5754	* 1.5444	* 1.5647	* .9725
	* 1.4196	* 1.3244	* 1.3350	* 1.2810	* 1.2583	* 1.3109	* 1.2349	* 2.0354
10	* 1.5401	* 1.5444	* 1.5851	* 1.5947	* 1.6429	* 1.5465	* 1.5744	* .7593
	* 1.3382	* 1.3358	* 1.3102	* 1.2583	* 1.2560	* 1.3302	* 1.2472	* 2.6354
11	* 1.5647	* 1.5936	* 1.5915	* 1.6493	* 1.5969	* 1.5679	* 1.5123	* .7615
	* 1.2518	* 1.2803	* 1.2612	* 1.2617	* 1.2518	* 1.3133	* 1.3065	* 2.6701
12	* 1.6204	* 1.5754	* 1.6429	* 1.5947	* 1.6654	* 1.6418	* 1.0485	
	* 1.2508	* 1.2561	* 1.2560	* 1.2521	* 1.2393	* 1.2064	* 1.9581	
13	* 1.5197	* 1.5444	* 1.5476	* 1.5679	* 1.6418	* 1.5487	* .8461	
	* 1.2769	* 1.3101	* 1.3302	* 1.3138	* 1.2064	* 1.2767	* 2.4176	
14	* 1.4673	* 1.5647	* 1.5744	* 1.5123	* 1.0485	* .8461		
	* 1.3549	* 1.2349	* 1.2472	* 1.3068	* 1.9581	* 2.4176		
15	* .7722	* .9735	* .7583	* .7615	* F-SUB-Q			
	* 2.5527	* 2.0354	* 2.6384	* 2.6708	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 100% POWER, 150 EFPD, THIS IS LEVEL 16 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.0817	* 1.4812	* 1.5519	* 1.5915	* 1.6440	* 1.5487	* 1.4919	* .7808
	* 2.0135	* 1.4578	* 1.3772	* 1.2905	* 1.2822	* 1.3152	* 1.3863	* 2.6282
9	* 1.4812	* 1.5337	* 1.5572	* 1.6140	* 1.6054	* 1.5647	* 1.5926	* .9832
	* 1.4578	* 1.3631	* 1.3731	* 1.3149	* 1.2892	* 1.3433	* 1.2706	* 2.0925
10	* 1.5519	* 1.5572	* 1.6044	* 1.6258	* 1.6686	* 1.5669	* 1.6011	* .7690
	* 1.3772	* 1.3739	* 1.3375	* 1.2885	* 1.2764	* 1.3562	* 1.2775	* 2.6962
11	* 1.5915	* 1.6140	* 1.6215	* 1.6740	* 1.6301	* 1.5936	* 1.5380	* .7690
	* 1.2905	* 1.3137	* 1.2900	* 1.2875	* 1.2802	* 1.3373	* 1.3420	* 2.7256
12	* 1.6440	* 1.6054	* 1.6686	* 1.6268	* 1.6965	* 1.6750	* 1.0614	*
	* 1.2822	* 1.2892	* 1.2764	* 1.2812	* 1.2597	* 1.2331	* 2.0015	*
13	* 1.5487	* 1.5647	* 1.5669	* 1.5936	* 1.6750	* 1.5787	* .8568	*
	* 1.3152	* 1.3425	* 1.3562	* 1.3378	* 1.2331	* 1.3054	* 2.4655	*
14	* 1.4919	* 1.5936	* 1.6011	* 1.5380	* 1.0614	* .8568	*	*
	* 1.3863	* 1.2699	* 1.2775	* 1.3425	* 2.0015	* 2.4655	*	*
15	* .7808	* .9842	* .7690	* .7690	* F-SUB-Q			
	* 2.6282	* 2.0916	* 2.6977	* 2.7256	* M-SUB-Q			

AT 100% POWER, 150 EFPD, THIS IS LEVEL 15 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.0603	* 1.4608	* 1.5358	* 1.5808	* 1.6354	* 1.5401	* 1.4855	* .7743
	* 2.1226	* 1.5340	* 1.4506	* 1.3695	* 1.3473	* 1.3944	* 1.4561	* 2.7657
9	* 1.4608	* 1.5133	* 1.5422	* 1.6033	* 1.5958	* 1.5562	* 1.5840	* .9746
	* 1.5340	* 1.4490	* 1.4456	* 1.3820	* 1.3617	* 1.4111	* 1.3443	* 2.2014
10	* 1.5358	* 1.5422	* 1.5926	* 1.6172	* 1.6611	* 1.5583	* 1.5915	* .7604
	* 1.4506	* 1.4465	* 1.4020	* 1.3545	* 1.3336	* 1.4188	* 1.3475	* 2.8405
11	* 1.5808	* 1.6033	* 1.6129	* 1.6675	* 1.6236	* 1.5883	* 1.5283	* .7626
	* 1.3695	* 1.3812	* 1.3579	* 1.3403	* 1.3510	* 1.3999	* 1.4106	* 2.8512
12	* 1.6354	* 1.5958	* 1.6611	* 1.6204	* 1.6922	* 1.6686	* 1.0560	*
	* 1.3473	* 1.3612	* 1.3338	* 1.3518	* 1.3168	* 1.3008	* 2.0993	*
13	* 1.5401	* 1.5562	* 1.5583	* 1.5872	* 1.6686	* 1.5712	* .8514	*
	* 1.3944	* 1.4103	* 1.4188	* 1.4008	* 1.3013	* 1.3783	* 2.5848	*
14	* 1.4855	* 1.5840	* 1.5915	* 1.5283	* 1.0549	* .8514	*	*
	* 1.4561	* 1.3439	* 1.3475	* 1.4106	* 2.0993	* 2.5848	*	*
15	* .7743	* .9757	* .7604	* .7626	* F-SUB-Q			
	* 2.7657	* 2.2004	* 2.8423	* 2.8512	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 100% POWER, 150 EFPD, THIS IS LEVEL 14 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.0614	* 1.4651	* 1.5444	* 1.6108	* 1.6568	* 1.5712	* 1.5101	* .7808
	* 2.2104	* 1.5997	* 1.5122	* 1.4236	* 1.3972	* 1.4478	* 1.5053	* 2.8783
9	* 1.4651	* 1.5326	* 1.5530	* 1.6215	* 1.6279	* 1.5733	* 1.6161	* .9842
	* 1.5997	* 1.5112	* 1.5059	* 1.4361	* 1.4100	* 1.4650	* 1.3933	* 2.2843
10	* 1.5444	* 1.5519	* 1.6086	* 1.6493	* 1.6868	* 1.5754	* 1.6236	* .7711
	* 1.5122	* 1.5068	* 1.4556	* 1.4002	* 1.3765	* 1.4713	* 1.3942	* 2.9310
11	* 1.6108	* 1.6215	* 1.6451	* 1.6911	* 1.6600	* 1.6129	* 1.5583	* .7679
	* 1.4236	* 1.4347	* 1.4043	* 1.3817	* 1.3901	* 1.4388	* 1.4564	* 2.9529
12	* 1.6568	* 1.6290	* 1.6868	* 1.6568	* 1.7232	* 1.7061	* 1.0656	
	* 1.3972	* 1.4096	* 1.3766	* 1.3916	* 1.3519	* 1.3413	* 2.1629	
13	* 1.5712	* 1.5744	* 1.5744	* 1.6119	* 1.7061	* 1.6065	* .8589	
	* 1.4478	* 1.4641	* 1.4713	* 1.4397	* 1.3419	* 1.4244	* 2.6746	
14	* 1.5101	* 1.6161	* 1.6236	* 1.5583	* 1.0656	* .8589		
	* 1.5053	* 1.3929	* 1.3942	* 1.4571	* 2.1629	* 2.6746		
15	* .7808	* .9842	* .7700	* .7679	* F-SUB-Q			
	* 2.8783	* 2.2831	* 2.9328	* 2.9558	* M-SUB-Q			

AT 100% POWER, 150 EFPD, THIS IS LEVEL 13 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.0485	* 1.4533	* 1.5358	* 1.6140	* 1.6590	* 1.5765	* 1.5133	* .7775
	* 2.3162	* 1.6770	* 1.5882	* 1.5083	* 1.4731	* 1.5340	* 1.5821	* 3.0359
9	* 1.4533	* 1.5262	* 1.5444	* 1.6194	* 1.6343	* 1.5722	* 1.6215	* .9810
	* 1.6770	* 1.5928	* 1.5807	* 1.5093	* 1.4908	* 1.5440	* 1.4733	* 2.4066
10	* 1.5358	* 1.5433	* 1.6054	* 1.6558	* 1.6900	* 1.5733	* 1.6290	* .7700
	* 1.5882	* 1.5817	* 1.5240	* 1.4758	* 1.4457	* 1.5491	* 1.4710	* 3.0820
11	* 1.6140	* 1.6194	* 1.6515	* 1.6954	* 1.6686	* 1.6161	* 1.5626	* .7658
	* 1.5083	* 1.5093	* 1.4795	* 1.4494	* 1.4622	* 1.5057	* 1.5362	* 3.1044
12	* 1.6590	* 1.6343	* 1.6900	* 1.6654	* 1.7307	* 1.7168	* 1.0646	
	* 1.4731	* 1.4908	* 1.4462	* 1.4631	* 1.4126	* 1.4084	* 2.2668	
13	* 1.5765	* 1.5722	* 1.5722	* 1.6151	* 1.7168	* 1.6140	* .8579	
	* 1.5340	* 1.5430	* 1.5492	* 1.5067	* 1.4086	* 1.4934	* 2.7939	
14	* 1.5133	* 1.6226	* 1.6290	* 1.5615	* 1.0646	* .8579		
	* 1.5821	* 1.4724	* 1.4710	* 1.5362	* 2.2668	* 2.7939		
15	* .7775	* .9821	* .7690	* .7658	* F-SUB-Q			
	* 3.0359	* 2.4041	* 3.0820	* 3.1064	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 100% POWER, 150 EFPD, THIS IS LEVEL 12 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.0303	* 1.4298	* 1.5144	* 1.5947	* 1.6418	* 1.5594	* 1.4994	* .7690
	* 2.3098	* 1.6715	* 1.5813	* 1.5053	* 1.4630	* 1.5378	* 1.5975	* 3.0919
9	* 1.4298	* 1.5005	* 1.5240	* 1.6022	* 1.6172	* 1.5562	* 1.6054	* .9703
	* 1.6715	* 1.5953	* 1.5729	* 1.4995	* 1.4890	* 1.5429	* 1.4947	* 2.4573
10	* 1.5144	* 1.5230	* 1.5872	* 1.6386	* 1.6750	* 1.5572	* 1.6129	* .7604
	* 1.5813	* 1.5739	* 1.5150	* 1.4731	* 1.4397	* 1.5459	* 1.4919	* 3.1373
11	* 1.5947	* 1.6022	* 1.6343	* 1.6804	* 1.6547	* 1.6033	* 1.5465	* .7572
	* 1.5053	* 1.4995	* 1.4769	* 1.4388	* 1.4640	* 1.5111	* 1.5603	* 3.1584
12	* 1.6418	* 1.6172	* 1.6750	* 1.6526	* 1.7190	* 1.7040	* 1.0549	
	* 1.4630	* 1.4890	* 1.4397	* 1.4667	* 1.4120	* 1.4240	* 2.2872	
13	* 1.5594	* 1.5562	* 1.5572	* 1.6022	* 1.7040	* 1.6011	* .8504	
	* 1.5378	* 1.5419	* 1.5459	* 1.5121	* 1.4248	* 1.5150	* 2.8376	
14	* 1.4994	* 1.6065	* 1.6129	* 1.5465	* 1.0549	* .8504		
	* 1.5975	* 1.4947	* 1.4919	* 1.5603	* 2.2872	* 2.8376		
15	* .7690	* .9703	* .7604	* .7572	* F-SUB-Q			
	* 3.0919	* 2.4573	* 3.1373	* 3.1584	* M-SUB-Q			

AT 100% POWER, 150 EFPD, THIS IS LEVEL 11 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.0282	* 1.4351	* 1.5230	* 1.6140	* 1.6579	* 1.5797	* 1.5187	* .7754
	* 2.2608	* 1.6274	* 1.5378	* 1.4540	* 1.4162	* 1.4843	* 1.5429	* 3.0009
9	* 1.4351	* 1.5123	* 1.5326	* 1.6161	* 1.6386	* 1.5701	* 1.6290	* .9778
	* 1.6274	* 1.5469	* 1.5288	* 1.4531	* 1.4353	* 1.4938	* 1.4406	* 2.3825
10	* 1.5230	* 1.5315	* 1.6001	* 1.6611	* 1.6943	* 1.5722	* 1.6365	* .7668
	* 1.5378	* 1.5298	* 1.4685	* 1.4180	* 1.3894	* 1.4966	* 1.4362	* 3.0398
11	* 1.6140	* 1.6161	* 1.6558	* 1.6997	* 1.6793	* 1.6226	* 1.5690	* .7626
	* 1.4540	* 1.4531	* 1.4223	* 1.3878	* 1.4052	* 1.4558	* 1.5005	* 3.0596
12	* 1.6579	* 1.6386	* 1.6943	* 1.6783	* 1.7425	* 1.7318	* 1.0646	
	* 1.4162	* 1.4353	* 1.3894	* 1.4086	* 1.3573	* 1.3660	* 2.2076	
13	* 1.5797	* 1.5712	* 1.5722	* 1.6215	* 1.7318	* 1.6258	* .8579	
	* 1.4843	* 1.4928	* 1.4966	* 1.4558	* 1.3660	* 1.4540	* 2.7383	
14	* 1.5187	* 1.6290	* 1.6365	* 1.5679	* 1.0646	* .8579		
	* 1.5429	* 1.4406	* 1.4362	* 1.5005	* 2.2076	* 2.7383		
15	* .7754	* .9789	* .7668	* .7626	* F-SUB-Q			
	* 3.0009	* 2.3825	* 3.0437	* 3.0596	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 100% POWER, 150 EFPD, THIS IS LEVEL 10 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.0132	* 1.4223	* 1.5112	* 1.6129	* 1.6536	* 1.5808	* 1.5187	* .7700 *
	* 2.2471	* 1.6033	* 1.5124	* 1.4217	* 1.3881	* 1.4473	* 1.4984	* 2.9101 *
9	* 1.4223	* 1.5058	* 1.5219	* 1.6086	* 1.6386	* 1.5658	* 1.6322	* .9735 *
	* 1.6033	* 1.5183	* 1.5056	* 1.4286	* 1.4061	* 1.4625	* 1.3998	* 2.3071 *
10	* 1.5112	* 1.5208	* 1.5926	* 1.6611	* 1.6922	* 1.5669	* 1.6397	* .7626 *
	* 1.5124	* 1.5066	* 1.4450	* 1.3878	* 1.3628	* 1.4704	* 1.4003	* 2.9532 *
11	* 1.6129	* 1.6086	* 1.6568	* 1.6954	* 1.6836	* 1.6204	* 1.5712	* .7583 *
	* 1.4217	* 1.4276	* 1.3919	* 1.3612	* 1.3732	* 1.4248	* 1.4658	* 2.9823 *
12	* 1.6536	* 1.6386	* 1.6911	* 1.6825	* 1.7436	* 1.7382	* 1.0614	*
	* 1.3881	* 1.4061	* 1.3628	* 1.3740	* 1.3266	* 1.3311	* 2.1669	*
13	* 1.5808	* 1.5669	* 1.5658	* 1.6204	* 1.7372	* 1.6322	* .8547	*
	* 1.4473	* 1.4615	* 1.4713	* 1.4257	* 1.3311	* 1.4162	* 2.6881	*
14	* 1.5187	* 1.6322	* 1.6397	* 1.5712	* 1.0603	* .8547	*	*
	* 1.4984	* 1.3998	* 1.4009	* 1.4667	* 2.1669	* 2.6881	*	*
15	* .7700	* .9735	* .7626	* .7583	* F-SUB-Q			
	* 2.9101	* 2.3071	* 2.9560	* 2.9853	* M-SUB-Q			

AT 100% POWER, 150 EFPD, THIS IS LEVEL 9 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9982	* 1.4041	* 1.4940	* 1.5990	* 1.6386	* 1.5679	* 1.5069	* .7615 *
	* 2.1899	* 1.5613	* 1.4713	* 1.3798	* 1.3475	* 1.4031	* 1.4526	* 2.8295 *
9	* 1.4041	* 1.4876	* 1.5048	* 1.5936	* 1.6268	* 1.5508	* 1.6215	* .9639 *
	* 1.5613	* 1.4768	* 1.4639	* 1.3877	* 1.3626	* 1.4198	* 1.3554	* 2.2437 *
10	* 1.4940	* 1.5037	* 1.5765	* 1.6493	* 1.6793	* 1.5540	* 1.6301	* .7561 *
	* 1.4713	* 1.4648	* 1.4058	* 1.3520	* 1.3226	* 1.4279	* 1.3543	* 2.8659 *
11	* 1.5990	* 1.5936	* 1.6440	* 1.6825	* 1.6740	* 1.6097	* 1.5615	* .7508 *
	* 1.3798	* 1.3863	* 1.3565	* 1.3302	* 1.3450	* 1.3966	* 1.4199	* 2.8970 *
12	* 1.6386	* 1.6268	* 1.6793	* 1.6729	* 1.7329	* 1.7297	* 1.0517	*
	* 1.3475	* 1.3626	* 1.3232	* 1.3479	* 1.3096	* 1.3096	* 2.1132	*
13	* 1.5679	* 1.5519	* 1.5530	* 1.6086	* 1.7286	* 1.6236	* .8461	*
	* 1.4031	* 1.4183	* 1.4279	* 1.3974	* 1.3096	* 1.3942	* 2.6221	*
14	* 1.5069	* 1.6215	* 1.6290	* 1.5615	* 1.0517	* .8461	*	*
	* 1.4526	* 1.3546	* 1.3543	* 1.4199	* 2.1132	* 2.6221	*	*
15	* .7615	* .9639	* .7551	* .7497	* F-SUB-Q			
	* 2.8295	* 2.2437	* 2.8694	* 2.8970	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 100% POWER, 150 EFPD, THIS IS LEVEL 8 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9768	* 1.3784	* 1.4683	* 1.5679	* 1.6129	* 1.5390	* 1.4844	* .7497
	* 2.1492	* 1.5304	* 1.4415	* 1.3559	* 1.3187	* 1.3776	* 1.4216	* 2.7753
9	* 1.3784	* 1.4566	* 1.4801	* 1.5690	* 1.5969	* 1.5283	* 1.5947	* .9489
	* 1.5304	* 1.4538	* 1.4334	* 1.3581	* 1.3357	* 1.3880	* 1.3271	* 2.1984
10	* 1.4683	* 1.4791	* 1.5519	* 1.6194	* 1.6547	* 1.5326	* 1.6033	* .7422
	* 1.4415	* 1.4349	* 1.3752	* 1.3246	* 1.2916	* 1.3932	* 1.3245	* 2.8145
11	* 1.5679	* 1.5679	* 1.6140	* 1.6579	* 1.6472	* 1.5883	* 1.5358	* .7390
	* 1.3559	* 1.3575	* 1.3285	* 1.2975	* 1.3131	* 1.3576	* 1.3872	* 2.8333
12	* 1.6129	* 1.5969	* 1.6547	* 1.6451	* 1.7093	* 1.7029	* 1.0367	
	* 1.3187	* 1.3357	* 1.2923	* 1.3158	* 1.2712	* 1.2721	* 2.0575	
13	* 1.5390	* 1.5294	* 1.5315	* 1.5872	* 1.7029	* 1.5990	* .8343	
	* 1.3776	* 1.3872	* 1.3934	* 1.3584	* 1.2728	* 1.3547	* 2.5516	
14	* 1.4844	* 1.5947	* 1.6033	* 1.5358	* 1.0367	* .8343		
	* 1.4216	* 1.3271	* 1.3247	* 1.3874	* 2.0575	* 2.5516		
15	* .7497	* .9489	* .7411	* .7390	* F-SUB-Q			
	* 2.7753	* 2.1968	* 2.8171	* 2.8341	* M-SUB-Q			

AT 100% POWER, 150 EFPD, THIS IS LEVEL 7 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9693	* 1.3698	* 1.4608	* 1.5712	* 1.6086	* 1.5422	* 1.4865	* .7454
	* 2.0834	* 1.4841	* 1.3970	* 1.3049	* 1.2744	* 1.3263	* 1.3701	* 2.6953
9	* 1.3698	* 1.4566	* 1.4726	* 1.5637	* 1.6011	* 1.5240	* 1.6011	* .9446
	* 1.4841	* 1.4008	* 1.3887	* 1.3133	* 1.2842	* 1.3434	* 1.2748	* 2.1315
10	* 1.4608	* 1.4716	* 1.5455	* 1.6236	* 1.6547	* 1.5283	* 1.6108	* .7411
	* 1.3970	* 1.3900	* 1.3297	* 1.2720	* 1.2443	* 1.3465	* 1.2710	* 2.7203
11	* 1.5712	* 1.5626	* 1.6183	* 1.6558	* 1.6547	* 1.5883	* 1.5433	* .7347
	* 1.3049	* 1.3133	* 1.2761	* 1.2499	* 1.2570	* 1.3046	* 1.3301	* 2.7490
12	* 1.6086	* 1.6011	* 1.6547	* 1.6526	* 1.7125	* 1.7125	* 1.0324	
	* 1.2744	* 1.2842	* 1.2450	* 1.2580	* 1.2166	* 1.2138	* 1.9877	
13	* 1.5422	* 1.5240	* 1.5272	* 1.5872	* 1.7125	* 1.6076	* .8311	
	* 1.3263	* 1.3419	* 1.3473	* 1.3053	* 1.2144	* 1.2928	* 2.4645	
14	* 1.4865	* 1.6011	* 1.6108	* 1.5433	* 1.0324	* .8300		
	* 1.3701	* 1.2748	* 1.2713	* 1.3301	* 1.9880	* 2.4645		
15	* .7454	* .9446	* .7401	* .7336	* F-SUB-Q			
	* 2.6953	* 2.1308	* 2.7235	* 2.7507	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 100% POWER, 150 EFPD, THIS IS LEVEL 6 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9478	* 1.3430	* 1.4330	* 1.5390	* 1.5797	* 1.5123	* 1.4598	* .7294
	* 2.0575	* 1.4617	* 1.3755	* 1.2865	* 1.2541	* 1.3076	* 1.3479	* 2.6628
9	* 1.3430	* 1.4287	* 1.4448	* 1.5337	* 1.5712	* 1.4951	* 1.5722	* .9253
	* 1.4617	* 1.3804	* 1.3667	* 1.2925	* 1.2639	* 1.3224	* 1.2535	* 2.1028
10	* 1.4330	* 1.4437	* 1.5165	* 1.5936	* 1.6268	* 1.5015	* 1.5829	* .7251
	* 1.3755	* 1.3679	* 1.3083	* 1.2508	* 1.2211	* 1.3220	* 1.2481	* 2.6857
11	* 1.5390	* 1.5337	* 1.5872	* 1.6268	* 1.6247	* 1.5615	* 1.5176	* .7186
	* 1.2865	* 1.2928	* 1.2551	* 1.2269	* 1.2317	* 1.2767	* 1.3044	* 2.7137
12	* 1.5797	* 1.5712	* 1.6258	* 1.6236	* 1.6836	* 1.6847	* 1.0132	*
	* 1.2541	* 1.2639	* 1.2218	* 1.2324	* 1.1892	* 1.1866	* 1.9514	*
13	* 1.5123	* 1.4962	* 1.5005	* 1.5604	* 1.6836	* 1.5808	* .8140	*
	* 1.3076	* 1.3213	* 1.3227	* 1.2777	* 1.1868	* 1.2633	* 2.4221	*
14	* 1.4598	* 1.5733	* 1.5829	* 1.5165	* 1.0132	* .8140	*	*
	* 1.3479	* 1.2535	* 1.2481	* 1.3047	* 1.9522	* 2.4221	*	*
15	* .7294	* .9264	* .7251	* .7186	* F-SUB-Q			
	* 2.6628	* 2.1028	* 2.6872	* 2.7137	* M-SUB-Q			

AT 100% POWER, 150 EFPD, THIS IS LEVEL 5 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9071	* 1.2895	* 1.3773	* 1.4651	* 1.5155	* 1.4394	* 1.3966	* .6994
	* 2.0838	* 1.4758	* 1.3876	* 1.3108	* 1.2675	* 1.3324	* 1.3662	* 2.6977
9	* 1.2895	* 1.3645	* 1.3902	* 1.4716	* 1.4962	* 1.4362	* 1.4983	* .8846
	* 1.4758	* 1.4013	* 1.3769	* 1.3053	* 1.2853	* 1.3347	* 1.2752	* 2.1351
10	* 1.3773	* 1.3891	* 1.4555	* 1.5197	* 1.5615	* 1.4437	* 1.5090	* .6908
	* 1.3876	* 1.3782	* 1.3211	* 1.2699	* 1.2326	* 1.3312	* 1.2683	* 2.7340
11	* 1.4651	* 1.4716	* 1.5144	* 1.5615	* 1.5465	* 1.4994	* 1.4469	* .6887
	* 1.3108	* 1.3057	* 1.2744	* 1.2368	* 1.2503	* 1.2863	* 1.3241	* 2.7468
12	* 1.5155	* 1.4962	* 1.5604	* 1.5455	* 1.6151	* 1.6065	* .9725	*
	* 1.2675	* 1.2853	* 1.2329	* 1.2516	* 1.1985	* 1.2022	* 1.9676	*
13	* 1.4394	* 1.4373	* 1.4426	* 1.4983	* 1.6065	* 1.5069	* .7797	*
	* 1.3324	* 1.3347	* 1.3320	* 1.2870	* 1.2025	* 1.2800	* 2.4459	*
14	* 1.3966	* 1.4994	* 1.5090	* 1.4469	* .9725	* .7797	*	*
	* 1.3662	* 1.2752	* 1.2683	* 1.3245	* 1.9684	* 2.4459	*	*
15	* .6994	* .8857	* .6908	* .6876	* F-SUB-Q			
	* 2.6977	* 2.1342	* 2.7372	* 2.7500	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 100% POWER, 150 EFPD, THIS IS LEVEL 4 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .8739	* 1.2424	* 1.3291	* 1.4084	* 1.4641	* 1.3827	* 1.3452	* .6726
	* 2.1071	* 1.4917	* 1.3999	* 1.3270	* 1.2768	* 1.3503	* 1.3806	* 2.7370
9	* 1.2424	* 1.3120	* 1.3430	* 1.4201	* 1.4384	* 1.3837	* 1.4362	* .8472
	* 1.4917	* 1.4185	* 1.3871	* 1.3162	* 1.3016	* 1.3484	* 1.2951	* 2.1726
10	* 1.3291	* 1.3420	* 1.4030	* 1.4619	* 1.5080	* 1.3912	* 1.4459	* .6619
	* 1.3999	* 1.3883	* 1.3330	* 1.2837	* 1.2416	* 1.3441	* 1.2880	* 2.7824
11	* 1.4084	* 1.4201	* 1.4555	* 1.5080	* 1.4855	* 1.4437	* 1.3859	* .6587
	* 1.3270	* 1.3162	* 1.2890	* 1.2449	* 1.2661	* 1.2980	* 1.3442	* 2.7990
12	* 1.4641	* 1.4373	* 1.5069	* 1.4844	* 1.5572	* 1.5412	* .9328	*
	* 1.2768	* 1.3019	* 1.2419	* 1.2661	* 1.2071	* 1.2174	* 1.9942	*
13	* 1.3827	* 1.3837	* 1.3902	* 1.4426	* 1.5401	* 1.4448	* .7476	*
	* 1.3503	* 1.3480	* 1.3445	* 1.2987	* 1.2178	* 1.2976	* 2.4819	*
14	* 1.3452	* 1.4362	* 1.4459	* 1.3859	* .9328	* .7476	*	*
	* 1.3806	* 1.2948	* 1.2884	* 1.3445	* 1.9951	* 2.4819	*	*
15	* .6726	* .8472	* .6619	* .6576	F-SUB-Q			
	* 2.7370	* 2.1726	* 2.7857	* 2.8008	M-SUB-Q			

AT 100% POWER, 150 EFPD, THIS IS LEVEL 3 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .8032	* 1.1331	* 1.2167	* 1.2938	* 1.3527	* 1.2691	* 1.2349	* .6158
	* 2.2452	* 1.6000	* 1.4959	* 1.4112	* 1.3494	* 1.4372	* 1.4705	* 2.9229
9	* 1.1331	* 1.1899	* 1.2295	* 1.3098	* 1.3163	* 1.2681	* 1.2970	* .7690
	* 1.6000	* 1.5295	* 1.4821	* 1.3948	* 1.3890	* 1.4376	* 1.4024	* 2.3465
10	* 1.2167	* 1.2284	* 1.2895	* 1.3409	* 1.3827	* 1.2649	* 1.2970	* .6030
	* 1.4959	* 1.4840	* 1.4176	* 1.3671	* 1.3224	* 1.4434	* 1.4032	* 2.9861
11	* 1.2938	* 1.3098	* 1.3355	* 1.3923	* 1.3591	* 1.3163	* 1.2413	* .5976
	* 1.4112	* 1.3948	* 1.3727	* 1.3161	* 1.3506	* 1.3895	* 1.4669	* 3.0168
12	* 1.3527	* 1.3163	* 1.3816	* 1.3580	* 1.4287	* 1.3912	* .8514	*
	* 1.3494	* 1.3890	* 1.3228	* 1.3514	* 1.2833	* 1.3165	* 2.1367	*
13	* 1.2691	* 1.2691	* 1.2649	* 1.3163	* 1.3902	* 1.2991	* .6790	*
	* 1.4372	* 1.4367	* 1.4442	* 1.3903	* 1.3169	* 1.4091	* 2.6728	*
14	* 1.2349	* 1.2970	* 1.2970	* 1.2402	* .8514	* .6790	*	*
	* 1.4705	* 1.4024	* 1.4036	* 1.4678	* 2.1378	* 2.6728	*	*
15	* .6158	* .7690	* .6030	* .5976	F-SUB-Q			
	* 2.9229	* 2.3452	* 2.9899	* 3.0168	M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 100% POWER, 150 EFPD, THIS IS LEVEL 2 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .6651	* .9157	* .9864	* 1.1867	* 1.1224	* 1.1631	* 1.0249	* .5109
	* 2.6666	* 1.9436	* 1.8114	* 1.5093	* 1.5945	* 1.5380	* 1.7395	* 3.4624
9	* .9157	* 1.0689	* .9907	* 1.0828	* 1.2038	* 1.0432	* 1.0785	* .6244
	* 1.9436	* 1.6700	* 1.8058	* 1.6541	* 1.4887	* 1.7140	* 1.6530	* 2.8360
10	* .9864	* .9896	* 1.0603	* 1.2295	* 1.1449	* 1.0110	* 1.0635	* .5002
	* 1.8114	* 1.8072	* 1.6905	* 1.4613	* 1.5684	* 1.7710	* 1.6773	* 3.5436
11	* 1.1867	* 1.0828	* 1.2252	* 1.1545	* 1.2391	* 1.0689	* .9939	* .4905
	* 1.5093	* 1.6541	* 1.4649	* 1.5564	* 1.4513	* 1.6790	* 1.7962	* 3.6090
12	* 1.1224	* 1.2038	* 1.1417	* 1.2370	* 1.1792	* 1.1578	* .7047	
	* 1.5945	* 1.4887	* 1.5715	* 1.4527	* 1.5235	* 1.5497	* 2.5300	
13	* 1.1631	* 1.0432	* 1.0100	* 1.0678	* 1.1567	* 1.0346	* .5548	
	* 1.5380	* 1.7128	* 1.7717	* 1.6802	* 1.5503	* 1.7331	* 3.2131	
14	* 1.0249	* 1.0785	* 1.0635	* .9928	* .7047	* .5548		
	* 1.7395	* 1.6530	* 1.6773	* 1.7969	* 2.5327	* 3.2131		
15	* .5109	* .6255	* .5002	* .4905	* F-SUB-Q			
	* 3.4624	* 2.8344	* 3.5436	* 3.6145	* M-SUB-Q			

AT 100% POWER, 150 EFPD, THIS IS LEVEL 1 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .4509	* .3856	* .4284	* .5077	* .4723	* .4969	* .4327	* .3427
	* 3.8743	* 4.5379	* 4.0941	* 3.4570	* 3.7176	* 3.5248	* 4.0378	* 5.0792
9	* .3856	* .4487	* .4155	* .4691	* .5152	* .4605	* .4327	* .2806
	* 4.5379	* 3.8966	* 4.2309	* 3.7501	* 3.4092	* 3.8143	* 4.0378	* 6.1933
10	* .4284	* .4145	* .4745	* .5269	* .4873	* .4241	* .4220	* .3470
	* 4.0941	* 4.2385	* 3.7117	* 3.3412	* 3.6116	* 4.1448	* 4.1413	* 5.0248
11	* .5077	* .4691	* .5259	* .4873	* .5291	* .4498	* .3888	* .2356
	* 3.4570	* 3.7533	* 3.3460	* 3.6172	* 3.3317	* 3.9065	* 4.4904	* 7.3939
12	* .4723	* .5152	* .4862	* .5280	* .4991	* .4637	* .3384	
	* 3.7176	* 3.4092	* 3.6228	* 3.3317	* 3.5326	* 3.7929	* 5.1801	
13	* .4969	* .4605	* .4241	* .4498	* .4627	* .4134	* .2560	
	* 3.5248	* 3.8081	* 4.1486	* 3.9130	* 3.7958	* 4.2539	* 6.8236	
14	* .4327	* .4327	* .4220	* .3888	* .3384	* .2560		
	* 4.0378	* 4.0378	* 4.1413	* 4.4945	* 5.1801	* 6.8236		
15	* .3427	* .2817	* .3470	* .2356	* F-SUB-Q			
	* 5.0792	* 6.1847	* 5.0248	* 7.3939	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 100% POWER, 250 EFPD, THIS IS LEVEL 24 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .5398	* .4809	* .5066	* .5355	* .5205	* .5109	* .4605	* .4134
	* 3.1191	* 3.7863	* 3.4921	* 3.1665	* 3.3511	* 3.2795	* 3.7164	* 4.0956
9	* .4809	* .5205	* .5034	* .5141	* .5323	* .4980	* .4584	* .3320
	* 3.7863	* 3.3877	* 3.5398	* 3.4175	* 3.1914	* 3.4865	* 3.6509	* 5.1359
10	* .5066	* .5023	* .5162	* .5344	* .5173	* .4766	* .4520	* .4027
	* 3.4921	* 3.5410	* 3.5203	* 3.2633	* 3.4687	* 3.7291	* 3.7937	* 4.2876
11	* .5355	* .5141	* .5344	* .5184	* .5141	* .4670	* .4188	* .2817
	* 3.1665	* 3.4175	* 3.2673	* 3.5228	* 3.3377	* 3.7731	* 4.1903	* 6.3315
12	* .5205	* .5334	* .5173	* .5141	* .4605	* .4316	* .3716	*
	* 3.3511	* 3.1866	* 3.4687	* 3.3377	* 3.4833	* 3.6484	* 4.6920	*
13	* .5109	* .4980	* .4766	* .4670	* .4316	* .3877	* .2838	*
	* 3.2795	* 3.4809	* 3.7355	* 3.7731	* 3.6484	* 4.0229	* 5.9809	*
14	* .4605	* .4584	* .4520	* .4188	* .3716	* .2838	*	*
	* 3.7164	* 3.6446	* 3.7869	* 4.1903	* 4.6920	* 5.9809	*	*
15	* .4134	* .3320	* .4027	* .2817	* F-SUB-Q			
	* 4.0956	* 5.1334	* 4.2876	* 6.3315	* M-SUB-Q			

AT 100% POWER, 250 EFPD, THIS IS LEVEL 23 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .7411	* 1.0367	* 1.0753	* 1.0014	* 1.0967	* .9660	* .9650	* .5591
	* 2.3023	* 1.8055	* 1.6981	* 1.7387	* 1.6321	* 1.7858	* 1.8252	* 3.1111
9	* 1.0367	* .9960	* 1.0849	* 1.0881	* .9960	* 1.0421	* .9703	* .6737
	* 1.8055	* 1.8015	* 1.6846	* 1.6580	* 1.7507	* 1.7203	* 1.7765	* 2.5932
10	* 1.0753	* 1.0849	* 1.0806	* 1.0003	* 1.0881	* 1.0421	* .9650	* .5237
	* 1.6981	* 1.6856	* 1.6992	* 1.7807	* 1.6963	* 1.7678	* 1.8222	* 3.3810
11	* 1.0014	* 1.0881	* .9992	* 1.0978	* .9853	* 1.0185	* .9211	* .5366
	* 1.7387	* 1.6578	* 1.7807	* 1.7004	* 1.8034	* 1.7921	* 1.9364	* 3.4073
12	* 1.0967	* .9971	* 1.0881	* .9853	* .9832	* .9414	* .7058	*
	* 1.6321	* 1.7476	* 1.6963	* 1.8034	* 1.6834	* 1.7674	* 2.5456	*
13	* .9660	* 1.0432	* 1.0421	* 1.0185	* .9414	* .8889	* .5633	*
	* 1.7858	* 1.7189	* 1.7678	* 1.7921	* 1.7674	* 1.8766	* 3.1177	*
14	* .9650	* .9703	* .9660	* .9211	* .7058	* .5633	*	*
	* 1.8252	* 1.7750	* 1.8222	* 1.9364	* 2.5456	* 3.1177	*	*
15	* .5591	* .6737	* .5237	* .5366	* F-SUB-Q			
	* 3.1111	* 2.5902	* 3.3810	* 3.4073	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 100% POWER, 250 EFPD, THIS IS LEVEL 22 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9436	* 1.2434	* 1.2927	* 1.2606	* 1.3345	* 1.2167	* 1.1813	* .6704
	* 2.0041	* 1.5430	* 1.4411	* 1.4058	* 1.3675	* 1.4436	* 1.5211	* 2.6476
9	* 1.2434	* 1.2434	* 1.2991	* 1.3184	* 1.2541	* 1.2670	* 1.2199	* .8182
	* 1.5430	* 1.4852	* 1.4353	* 1.3946	* 1.4196	* 1.4393	* 1.4385	* 2.1792
10	* 1.2927	* 1.2981	* 1.3098	* 1.2659	* 1.3259	* 1.2638	* 1.2145	* .6351
	* 1.4411	* 1.4361	* 1.4370	* 1.4412	* 1.4212	* 1.4874	* 1.4763	* 2.8465
11	* 1.2606	* 1.3195	* 1.2638	* 1.3420	* 1.2434	* 1.2509	* 1.1588	* .6447
	* 1.4058	* 1.3936	* 1.4420	* 1.4199	* 1.4582	* 1.4959	* 1.5696	* 2.8966
12	* 1.3345	* 1.2552	* 1.3259	* 1.2424	* 1.2970	* 1.2295	* .8547	
	* 1.3675	* 1.4175	* 1.4212	* 1.4592	* 1.4072	* 1.4280	* 2.1590	
13	* 1.2167	* 1.2681	* 1.2638	* 1.2509	* 1.2295	* 1.1492	* .6897	
	* 1.4436	* 1.4383	* 1.4874	* 1.4959	* 1.4280	* 1.5172	* 2.6236	
14	* 1.1813	* 1.2199	* 1.2145	* 1.1588	* .8547	* .6897		
	* 1.5211	* 1.4383	* 1.4755	* 1.5696	* 2.1590	* 2.6236		
15	* .6704	* .8182	* .6351	* .6447	* F-SUB-Q			
	* 2.6476	* 2.1766	* 2.8465	* 2.8966	* M-SUB-Q			

AT 100% POWER, 250 EFPD, THIS IS LEVEL 21 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.0314	* 1.3634	* 1.4244	* 1.4608	* 1.5005	* 1.4159	* 1.3366	* .7401
	* 1.8904	* 1.4396	* 1.3320	* 1.2337	* 1.2395	* 1.2609	* 1.3695	* 2.4472
9	* 1.3634	* 1.4212	* 1.4266	* 1.4758	* 1.4555	* 1.4212	* 1.3987	* .9125
	* 1.4396	* 1.3225	* 1.3318	* 1.2705	* 1.2432	* 1.3064	* 1.2750	* 1.9957
10	* 1.4244	* 1.4266	* 1.4641	* 1.4726	* 1.4919	* 1.4041	* 1.3902	* .7101
	* 1.3320	* 1.3318	* 1.3149	* 1.2699	* 1.2885	* 1.3656	* 1.3120	* 2.5954
11	* 1.4608	* 1.4769	* 1.4705	* 1.5123	* 1.4555	* 1.4052	* 1.3248	* .7122
	* 1.2337	* 1.2691	* 1.2700	* 1.2869	* 1.2746	* 1.3593	* 1.4019	* 2.6729
12	* 1.5005	* 1.4566	* 1.4919	* 1.4544	* 1.4855	* 1.4287	* .9510	
	* 1.2395	* 1.2411	* 1.2885	* 1.2753	* 1.2707	* 1.2670	* 1.9885	
13	* 1.4159	* 1.4223	* 1.4041	* 1.4052	* 1.4287	* 1.3355	* .7711	
	* 1.2609	* 1.3049	* 1.3656	* 1.3593	* 1.2670	* 1.3482	* 2.4143	
14	* 1.3366	* 1.3987	* 1.3902	* 1.3248	* .9510	* .7711		
	* 1.3695	* 1.2749	* 1.3112	* 1.4019	* 1.9885	* 2.4143		
15	* .7401	* .9136	* .7101	* .7122	* F-SUB-Q			
	* 2.4472	* 1.9939	* 2.5954	* 2.6729	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 100% POWER, 250 EFPD, THIS IS LEVEL 20 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.0496	* 1.3955	* 1.4651	* 1.5497	* 1.5679	* 1.5080	* 1.4019	* .7636
	* 1.9078	* 1.4388	* 1.3226	* 1.1853	* 1.2110	* 1.2069	* 1.3328	* 2.4223
9	* 1.3955	* 1.4865	* 1.4662	* 1.5369	* 1.5508	* 1.4844	* 1.4737	* .9468
	* 1.4388	* 1.2881	* 1.3240	* 1.2461	* 1.1899	* 1.2773	* 1.2318	* 1.9689
10	* 1.4651	* 1.4662	* 1.5219	* 1.5679	* 1.5594	* 1.4533	* 1.4651	* .7379
	* 1.3226	* 1.3240	* 1.2924	* 1.2184	* 1.2589	* 1.3468	* 1.2663	* 2.5506
11	* 1.5497	* 1.5380	* 1.5658	* 1.5829	* 1.5540	* 1.4641	* 1.3912	* .7347
	* 1.1853	* 1.2448	* 1.2191	* 1.2575	* 1.2211	* 1.3341	* 1.3640	* 2.6448
12	* 1.5679	* 1.5519	* 1.5594	* 1.5519	* 1.5637	* 1.5144	* .9853	*
	* 1.2110	* 1.1880	* 1.2589	* 1.2225	* 1.2415	* 1.2266	* 1.9717	*
13	* 1.5080	* 1.4844	* 1.4544	* 1.4630	* 1.5144	* 1.4137	* .8000	*
	* 1.2069	* 1.2766	* 1.3466	* 1.3341	* 1.2266	* 1.3077	* 2.3938	*
14	* 1.4019	* 1.4737	* 1.4651	* 1.3912	* .9853	* .8000	*	*
	* 1.3328	* 1.2311	* 1.2663	* 1.3640	* 1.9717	* 2.3938	*	*
15	* .7636	* .9468	* .7368	* .7347	* F-SUB-Q			
	* 2.4223	* 1.9672	* 2.5506	* 2.6448	* M-SUB-Q			

AT 100% POWER, 250 EFPD, THIS IS LEVEL 19 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.0474	* 1.3955	* 1.4726	* 1.5862	* 1.5936	* 1.5465	* 1.4266	* .7700
	* 1.9483	* 1.4649	* 1.3473	* 1.1836	* 1.2206	* 1.2020	* 1.3400	* 2.4597
9	* 1.3955	* 1.5048	* 1.4737	* 1.5572	* 1.5915	* 1.5058	* 1.5026	* .9553
	* 1.4649	* 1.2993	* 1.3479	* 1.2583	* 1.1835	* 1.2883	* 1.2333	* 1.9971
10	* 1.4726	* 1.4737	* 1.5401	* 1.6097	* 1.5840	* 1.4683	* 1.4930	* .7476
	* 1.3473	* 1.3487	* 1.3059	* 1.2129	* 1.2674	* 1.3634	* 1.2676	* 2.5757
11	* 1.5862	* 1.5583	* 1.6076	* 1.6086	* 1.5969	* 1.4823	* 1.4126	* .7401
	* 1.1836	* 1.2575	* 1.2136	* 1.2616	* 1.2134	* 1.3491	* 1.3667	* 2.6846
12	* 1.5936	* 1.5926	* 1.5840	* 1.5947	* 1.5936	* 1.5476	* .9950	*
	* 1.2206	* 1.1821	* 1.2674	* 1.2145	* 1.2513	* 1.2345	* 2.0042	*
13	* 1.5465	* 1.5069	* 1.4683	* 1.4823	* 1.5476	* 1.4437	* .8086	*
	* 1.2020	* 1.2874	* 1.3632	* 1.3491	* 1.2345	* 1.3186	* 2.4436	*
14	* 1.4266	* 1.5026	* 1.4930	* 1.4126	* .9950	* .8086	*	*
	* 1.3400	* 1.2327	* 1.2676	* 1.3667	* 2.0042	* 2.4436	*	*
15	* .7700	* .9564	* .7476	* .7401	* F-SUB-Q			
	* 2.4597	* 1.9967	* 2.5763	* 2.6846	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 100% POWER, 250 EFPD, THIS IS LEVEL 18 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.0442	* 1.4009	* 1.4823	* 1.6183	* 1.6172	* 1.5797	* 1.4501	* .7775
	* 1.9891	* 1.4777	* 1.3723	* 1.1894	* 1.2350	* 1.2064	* 1.3535	* 2.5033
9	* 1.4009	* 1.5219	* 1.4844	* 1.5787	* 1.6258	* 1.5272	* 1.5283	* .9650
	* 1.4777	* 1.3048	* 1.3729	* 1.2747	* 1.1865	* 1.3042	* 1.2412	* 2.0294
10	* 1.4823	* 1.4833	* 1.5594	* 1.6440	* 1.6076	* 1.4844	* 1.5176	* .7551
	* 1.3723	* 1.3738	* 1.3218	* 1.2044	* 1.2787	* 1.3799	* 1.2748	* 2.6137
11	* 1.6183	* 1.5797	* 1.6418	* 1.6333	* 1.6322	* 1.5015	* 1.4341	* .7454
	* 1.1894	* 1.2740	* 1.2059	* 1.2634	* 1.2140	* 1.3639	* 1.3684	* 2.7152
12	* 1.6172	* 1.6279	* 1.6076	* 1.6301	* 1.6194	* 1.5754	* 1.0057	*
	* 1.2350	* 1.1851	* 1.2787	* 1.2149	* 1.2627	* 1.2413	* 2.0330	*
13	* 1.5797	* 1.5283	* 1.4844	* 1.5015	* 1.5744	* 1.4673	* .8172	*
	* 1.2064	* 1.3033	* 1.3799	* 1.3639	* 1.2415	* 1.3280	* 2.4818	*
14	* 1.4501	* 1.5294	* 1.5176	* 1.4341	* 1.0057	* .8172	*	*
	* 1.3535	* 1.2412	* 1.2748	* 1.3690	* 2.0341	* 2.4818	*	*
15	* .7775	* .9660	* .7551	* .7454	* F-SUB-Q			
	* 2.5033	* 2.0294	* 2.6161	* 2.7152	* M-SUB-Q			

AT 100% POWER, 250 EFPD, THIS IS LEVEL 17 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.0271	* 1.3859	* 1.4716	* 1.6279	* 1.6161	* 1.5915	* 1.4533	* .7722
	* 2.0643	* 1.5264	* 1.4213	* 1.2221	* 1.2735	* 1.2388	* 1.3927	* 2.5985
9	* 1.3859	* 1.5197	* 1.4726	* 1.5744	* 1.6365	* 1.5251	* 1.5358	* .9585
	* 1.5264	* 1.3411	* 1.4220	* 1.3154	* 1.2170	* 1.3454	* 1.2766	* 2.1034
10	* 1.4716	* 1.4726	* 1.5540	* 1.6558	* 1.6054	* 1.4769	* 1.5230	* .7518
	* 1.4213	* 1.4229	* 1.3559	* 1.2273	* 1.3079	* 1.4169	* 1.3077	* 2.7026
11	* 1.6279	* 1.5754	* 1.6526	* 1.6322	* 1.6440	* 1.4983	* 1.4362	* .7390
	* 1.2221	* 1.3145	* 1.2287	* 1.2913	* 1.2331	* 1.3962	* 1.3973	* 2.7977
12	* 1.6161	* 1.6386	* 1.6054	* 1.6418	* 1.6204	* 1.5819	* .9982	*
	* 1.2735	* 1.2155	* 1.3079	* 1.2351	* 1.2940	* 1.2735	* 2.0890	*
13	* 1.5915	* 1.5262	* 1.4769	* 1.4983	* 1.5819	* 1.4737	* .8107	*
	* 1.2388	* 1.3446	* 1.4169	* 1.3970	* 1.2742	* 1.3667	* 2.5652	*
14	* 1.4533	* 1.5358	* 1.5230	* 1.4362	* .9982	* .8107	*	*
	* 1.3927	* 1.2765	* 1.3077	* 1.3973	* 2.0895	* 2.5652	*	*
15	* .7722	* .9596	* .7518	* .7390	* F-SUB-Q			
	* 2.5985	* 2.1019	* 2.7026	* 2.7978	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 100% POWER, 250 EFPD, THIS IS LEVEL 16 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.0196	* 1.3794	* 1.4673	* 1.6365	* 1.6194	* 1.6022	* 1.4587	* .7711
	* 2.1428	* 1.5770	* 1.4690	* 1.2675	* 1.3143	* 1.2837	* 1.4351	* 2.6929
9	* 1.3794	* 1.5197	* 1.4694	* 1.5765	* 1.6472	* 1.5272	* 1.5422	* .9575
	* 1.5770	* 1.3854	* 1.4681	* 1.3581	* 1.2599	* 1.3888	* 1.3241	* 2.1763
10	* 1.4673	* 1.4683	* 1.5540	* 1.6654	* 1.6097	* 1.4758	* 1.5294	* .7518
	* 1.4690	* 1.4690	* 1.3917	* 1.2647	* 1.3399	* 1.4546	* 1.3493	* 2.7858
11	* 1.6365	* 1.5776	* 1.6633	* 1.6354	* 1.6547	* 1.5005	* 1.4394	* .7368
	* 1.2675	* 1.3571	* 1.2669	* 1.3269	* 1.2700	* 1.4331	* 1.4456	* 2.8729
12	* 1.6194	* 1.6493	* 1.6086	* 1.6526	* 1.6258	* 1.5883	* .9971	*
	* 1.3143	* 1.2583	* 1.3399	* 1.2715	* 1.3252	* 1.3124	* 2.1490	*
13	* 1.6022	* 1.5283	* 1.4758	* 1.4994	* 1.5883	* 1.4791	* .8097	*
	* 1.2837	* 1.3880	* 1.4546	* 1.4331	* 1.3124	* 1.4080	* 2.6348	*
14	* 1.4587	* 1.5422	* 1.5294	* 1.4394	* .9971	* .8097	*	*
	* 1.4351	* 1.3241	* 1.3493	* 1.4456	* 2.1490	* 2.6348	*	*
15	* .7711	* .9575	* .7518	* .7368	* F-SUB-Q			
	* 2.6929	* 2.1763	* 2.7865	* 2.8764	* M-SUB-Q			

AT 100% POWER, 250 EFPD, THIS IS LEVEL 15 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9939	* 1.3527	* 1.4426	* 1.6129	* 1.5990	* 1.5797	* 1.4394	* .7583
	* 2.2624	* 1.6574	* 1.5488	* 1.3474	* 1.3844	* 1.3647	* 1.5132	* 2.8442
9	* 1.3527	* 1.4908	* 1.4448	* 1.5540	* 1.6236	* 1.5058	* 1.5187	* .9403
	* 1.6574	* 1.4717	* 1.5477	* 1.4304	* 1.3380	* 1.4630	* 1.4070	* 2.2960
10	* 1.4426	* 1.4448	* 1.5315	* 1.6418	* 1.5883	* 1.4533	* 1.5048	* .7368
	* 1.5488	* 1.5488	* 1.4610	* 1.3351	* 1.4028	* 1.5278	* 1.4290	* 2.9465
11	* 1.6129	* 1.5562	* 1.6397	* 1.6140	* 1.6322	* 1.4791	* 1.4148	* .7240
	* 1.3474	* 1.4288	* 1.3367	* 1.3875	* 1.3456	* 1.5063	* 1.5309	* 3.0135
12	* 1.5990	* 1.6258	* 1.5883	* 1.6301	* 1.6044	* 1.5647	* .9810	*
	* 1.3844	* 1.3362	* 1.4037	* 1.3466	* 1.3907	* 1.3907	* 2.2615	*
13	* 1.5797	* 1.5069	* 1.4533	* 1.4780	* 1.5647	* 1.4555	* .7958	*
	* 1.3647	* 1.4621	* 1.5278	* 1.5073	* 1.3909	* 1.4929	* 2.7722	*
14	* 1.4394	* 1.5197	* 1.5048	* 1.4148	* .9810	* .7958	*	*
	* 1.5132	* 1.4070	* 1.4290	* 1.5309	* 2.2615	* 2.7722	*	*
15	* .7583	* .9403	* .7368	* .7240	* F-SUB-Q			
	* 2.8442	* 2.2960	* 2.9473	* 3.0173	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 100% POWER, 250 EFPD, THIS IS LEVEL 14 OF 24
 (LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9939	* 1.3527	* 1.4448	* 1.6354	* 1.6119	* 1.6022	* 1.4523	* .7593
	* 2.3457	* 1.7232	* 1.6128	* 1.3992	* 1.4353	* 1.4168	* 1.5658	* 2.9605
9	* 1.3527	* 1.5048	* 1.4469	* 1.5637	* 1.6472	* 1.5144	* 1.5390	* .9425
	* 1.7232	* 1.5310	* 1.6116	* 1.4850	* 1.3876	* 1.5202	* 1.4615	* 2.3855
10	* 1.4448	* 1.4459	* 1.5390	* 1.6665	* 1.6001	* 1.4566	* 1.5230	* .7411
	* 1.6128	* 1.6127	* 1.5156	* 1.3794	* 1.4517	* 1.5857	* 1.4806	* 3.0435
11	* 1.6354	* 1.5647	* 1.6643	* 1.6268	* 1.6558	* 1.4876	* 1.4298	* .7240
	* 1.3992	* 1.4839	* 1.3819	* 1.4321	* 1.3875	* 1.5557	* 1.5819	* 3.1282
12	* 1.6119	* 1.6493	* 1.5990	* 1.6536	* 1.6194	* 1.5840		* .9821
	* 1.4353	* 1.3852	* 1.4518	* 1.3892	* 1.4353	* 1.4423		* 2.3392
13	* 1.6022	* 1.5155	* 1.4576	* 1.4876	* 1.5840	* 1.4726		* .7968
	* 1.4168	* 1.5192	* 1.5857	* 1.5567	* 1.4423	* 1.5496		* 2.8759
14	* 1.4523	* 1.5390	* 1.5240	* 1.4298	* .9821	* .7968		
	* 1.5658	* 1.4615	* 1.4806	* 1.5829	* 2.3392	* 2.8759		
15	* .7593	* .9425	* .7411	* .7229	* F-SUB-Q			
	* 2.9605	* 2.3850	* 3.0435	* 3.1282	* M-SUB-Q			

AT 100% POWER, 250 EFPD, THIS IS LEVEL 13 OF 24
 (LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9832	* 1.3420	* 1.4351	* 1.6365	* 1.6086	* 1.6044	* 1.4501	* .7551
	* 2.4677	* 1.8135	* 1.6989	* 1.4798	* 1.5096	* 1.4969	* 1.6427	* 3.1164
9	* 1.3420	* 1.4983	* 1.4373	* 1.5583	* 1.6493	* 1.5090	* 1.5369	* .9361
	* 1.8135	* 1.6213	* 1.6964	* 1.5626	* 1.4655	* 1.5987	* 1.5435	* 2.5082
10	* 1.4351	* 1.4362	* 1.5326	* 1.6686	* 1.5969	* 1.4491	* 1.5208	* .7368
	* 1.6989	* 1.6977	* 1.5941	* 1.4538	* 1.5233	* 1.6676	* 1.5619	* 3.1964
11	* 1.6365	* 1.5594	* 1.6665	* 1.6236	* 1.6590	* 1.4823	* 1.4255	* .7186
	* 1.4798	* 1.5616	* 1.4566	* 1.5017	* 1.4581	* 1.6267	* 1.6665	* 3.2828
12	* 1.6086	* 1.6515	* 1.5958	* 1.6558	* 1.6172	* 1.5829		* .9757
	* 1.5096	* 1.4634	* 1.5242	* 1.4599	* 1.4985	* 1.5128		* 2.4476
13	* 1.6044	* 1.5101	* 1.4491	* 1.4823	* 1.5829	* 1.4705		* .7915
	* 1.4969	* 1.5978	* 1.6675	* 1.6277	* 1.5137	* 1.6257		* 3.0004
14	* 1.4501	* 1.5380	* 1.5208	* 1.4255	* .9757	* .7915		
	* 1.6427	* 1.5435	* 1.5619	* 1.6665	* 2.4476	* 3.0004		
15	* .7551	* .9371	* .7368	* .7176	* F-SUB-Q			
	* 3.1164	* 2.5076	* 3.1964	* 3.2828	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 100% POWER, 250 EFPD, THIS IS LEVEL 12 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	.9671	1.3227	1.4169	1.6194	1.5936	1.5872	1.4351	.7454
	2.4522	1.8024	1.6871	1.4843	1.5082	1.5130	1.6679	3.1885
9	1.3227	1.4758	1.4191	1.5422	1.6333	1.4930	1.5208	.9243
	1.8024	1.6207	1.6859	1.5562	1.4750	1.6062	1.5771	2.5732
10	1.4169	1.4191	1.5155	1.6526	1.5808	1.4319	1.5026	.7283
	1.6871	1.6871	1.5867	1.4630	1.5238	1.6786	1.5975	3.2730
11	1.6194	1.5433	1.6493	1.6086	1.6429	1.4662	1.4073	.7090
	1.4843	1.5551	1.4649	1.5014	1.4750	1.6480	1.7104	3.3669
12	1.5936	1.6354	1.5808	1.6397	1.6011	1.5658		.9639
	1.5082	1.4731	1.5238	1.4769	1.5130	1.5459		2.4965
13	1.5872	1.4940	1.4319	1.4662	1.5658	1.4533		.7818
	1.5130	1.6051	1.6786	1.6480	1.5459	1.6655		3.0797
14	1.4351	1.5208	1.5037	1.4073	.9639	.7818		
	1.6679	1.5760	1.5975	1.7117	2.4965	3.0797		
15	.7454	.9253	.7272	.7090	F-SUB-Q			
	3.1885	2.5732	3.2730	3.3669	M-SUB-Q			

AT 100% POWER, 250 EFPD, THIS IS LEVEL 11 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	.9703	1.3323	1.4287	1.6440	1.6119	1.6119	1.4544	.7518
	2.3524	1.7249	1.6167	1.4156	1.4426	1.4434	1.5924	3.0526
9	1.3323	1.4940	1.4309	1.5594	1.6579	1.5090	1.5422	.9328
	1.7249	1.5454	1.6155	1.4893	1.4054	1.5382	1.5046	2.4607
10	1.4287	1.4298	1.5305	1.6783	1.5990	1.4448	1.5251	.7336
	1.6167	1.6167	1.5173	1.3928	1.4569	1.6077	1.5232	3.1300
11	1.6440	1.5604	1.6750	1.6268	1.6686	1.4833	1.4255	.7144
	1.4156	1.4884	1.3953	1.4346	1.4045	1.5742	1.6299	3.2158
12	1.6119	1.6600	1.5990	1.6665	1.6215	1.5883		.9725
	1.4426	1.4037	1.4578	1.4062	1.4461	1.4743		2.3832
13	1.6119	1.5101	1.4448	1.4823	1.5883	1.4737		.7883
	1.4434	1.5371	1.6076	1.5752	1.4743	1.5870		2.9380
14	1.4544	1.5422	1.5251	1.4255	.9725	.7883		
	1.5924	1.5046	1.5232	1.6300	2.3855	2.9380		
15	.7518	.9339	.7336	.7144	F-SUB-Q			
	3.0526	2.4607	3.1300	3.2158	M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 100% POWER, 250 EFPD, THIS IS LEVEL 10 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9618 *	* 1.3280 *	* 1.4255 *	* 1.6515 *	* 1.6151 *	* 1.6204 *	* 1.4598 *	* .7497 *
	* 2.2787 *	* 1.6614 *	* 1.5547 *	* 1.3514 *	* 1.3824 *	* 1.3776 *	* 1.5243 *	* 2.9401 *
9	* 1.3280 *	* 1.4962 *	* 1.4276 *	* 1.5594 *	* 1.6665 *	* 1.5101 *	* 1.5497 *	* .9318 *
	* 1.6614 *	* 1.4821 *	* 1.5546 *	* 1.4288 *	* 1.3406 *	* 1.4763 *	* 1.4384 *	* 2.3680 *
10	* 1.4255 *	* 1.4266 *	* 1.5305 *	* 1.6868 *	* 1.6011 *	* 1.4437 *	* 1.5315 *	* .7326 *
	* 1.5547 *	* 1.5556 *	* 1.4562 *	* 1.3270 *	* 1.3956 *	* 1.5434 *	* 1.4553 *	* 3.0118 *
11	* 1.6515 *	* 1.5604 *	* 1.6836 *	* 1.6301 *	* 1.6772 *	* 1.4844 *	* 1.4309 *	* .7122 *
	* 1.3514 *	* 1.4279 *	* 1.3292 *	* 1.3728 *	* 1.3368 *	* 1.5065 *	* 1.5576 *	* 3.0952 *
12	* 1.6151 *	* 1.6686 *	* 1.6001 *	* 1.6750 *	* 1.6258 *	* 1.5958 *	* .9703 *	
	* 1.3824 *	* 1.3391 *	* 1.3957 *	* 1.3390 *	* 1.3800 *	* 1.4048 *	* 2.2874 *	
13	* 1.6204 *	* 1.5112 *	* 1.4437 *	* 1.4844 *	* 1.5947 *	* 1.4801 *	* .7861 *	
	* 1.3776 *	* 1.4754 *	* 1.5434 *	* 1.5066 *	* 1.4048 *	* 1.5124 *	* 2.8200 *	
14	* 1.4598 *	* 1.5497 *	* 1.5315 *	* 1.4309 *	* .9703 *	* .7861 *		
	* 1.5243 *	* 1.4384 *	* 1.4553 *	* 1.5576 *	* 2.2894 *	* 2.8200 *		
15	* .7497 *	* .9318 *	* .7326 *	* .7122 *	* F-SUB-Q			
	* 2.9401 *	* 2.3680 *	* 3.0118 *	* 3.0989 *	* M-SUB-Q			

AT 100% POWER, 250 EFPD, THIS IS LEVEL 9 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9553 *	* 1.3205 *	* 1.4191 *	* 1.6493 *	* 1.6119 *	* 1.6183 *	* 1.4576 *	* .7454 *
	* 2.2115 *	* 1.6111 *	* 1.5058 *	* 1.3036 *	* 1.3347 *	* 1.3287 *	* 1.4717 *	* 2.8493 *
9	* 1.3205 *	* 1.4898 *	* 1.4212 *	* 1.5551 *	* 1.6643 *	* 1.5058 *	* 1.5476 *	* .9275 *
	* 1.6111 *	* 1.4342 *	* 1.5048 *	* 1.3810 *	* 1.2929 *	* 1.4262 *	* 1.3875 *	* 2.2933 *
10	* 1.4191 *	* 1.4212 *	* 1.5251 *	* 1.6847 *	* 1.5979 *	* 1.4384 *	* 1.5294 *	* .7304 *
	* 1.5058 *	* 1.5049 *	* 1.4074 *	* 1.2788 *	* 1.3469 *	* 1.4923 *	* 1.4032 *	* 2.9130 *
11	* 1.6493 *	* 1.5562 *	* 1.6815 *	* 1.6258 *	* 1.6761 *	* 1.4812 *	* 1.4287 *	* .7079 *
	* 1.3036 *	* 1.3802 *	* 1.2816 *	* 1.3249 *	* 1.2871 *	* 1.4527 *	* 1.5018 *	* 2.9983 *
12	* 1.6119 *	* 1.6675 *	* 1.5969 *	* 1.6740 *	* 1.6226 *	* 1.5936 *	* .9671 *	
	* 1.3347 *	* 1.2914 *	* 1.3470 *	* 1.2892 *	* 1.3294 *	* 1.3523 *	* 2.2112 *	
13	* 1.6183 *	* 1.5069 *	* 1.4384 *	* 1.4812 *	* 1.5936 *	* 1.4780 *	* .7829 *	
	* 1.3287 *	* 1.4254 *	* 1.4923 *	* 1.4535 *	* 1.3523 *	* 1.4563 *	* 2.7268 *	
14	* 1.4576 *	* 1.5476 *	* 1.5294 *	* 1.4276 *	* .9671 *	* .7829 *		
	* 1.4717 *	* 1.3867 *	* 1.4032 *	* 1.5018 *	* 2.2112 *	* 2.7268 *		
15	* .7454 *	* .9275 *	* .7294 *	* .7079 *	* F-SUB-Q			
	* 2.8493 *	* 2.2933 *	* 2.9163 *	* 3.0021 *	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 100% POWER, 250 EFPD, THIS IS LEVEL 8 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9436	* 1.3098	* 1.4084	* 1.6333	* 1.6011	* 1.6033	* 1.4459	* .7390
	* 2.1679	* 1.5723	* 1.4682	* 1.2727	* 1.2986	* 1.2972	* 1.4340	* 2.7803
9	* 1.3098	* 1.4716	* 1.4105	* 1.5444	* 1.6483	* 1.4962	* 1.5337	* .9200
	* 1.5723	* 1.4042	* 1.4663	* 1.3447	* 1.2624	* 1.3883	* 1.3532	* 2.2379
10	* 1.4084	* 1.4094	* 1.5144	* 1.6686	* 1.5872	* 1.4287	* 1.5155	* .7219
	* 1.4682	* 1.4672	* 1.3698	* 1.2476	* 1.3102	* 1.4518	* 1.3690	* 2.8510
11	* 1.6333	* 1.5455	* 1.6654	* 1.6151	* 1.6611	* 1.4716	* 1.4148	* .7026
	* 1.2727	* 1.3439	* 1.2503	* 1.2880	* 1.2549	* 1.4125	* 1.4653	* 2.9253
12	* 1.6011	* 1.6504	* 1.5872	* 1.6579	* 1.6129	* 1.5808	* .9596	*
	* 1.2986	* 1.2604	* 1.3102	* 1.2569	* 1.2922	* 1.3168	* 2.1537	*
13	* 1.6033	* 1.4962	* 1.4287	* 1.4705	* 1.5808	* 1.4651	* .7765	*
	* 1.2972	* 1.3875	* 1.4518	* 1.4133	* 1.3175	* 1.4193	* 2.6545	*
14	* 1.4459	* 1.5347	* 1.5155	* 1.4148	* .9596	* .7765	*	*
	* 1.4340	* 1.3524	* 1.3690	* 1.4662	* 2.1537	* 2.6545	*	*
15	* .7390	* .9200	* .7208	* .7026	* F-SUB-Q			
	* 2.7803	* 2.2377	* 2.8542	* 2.9256	* M-SUB-Q			

AT 100% POWER, 250 EFPD, THIS IS LEVEL 7 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9468	* 1.3152	* 1.4148	* 1.6536	* 1.6129	* 1.6236	* 1.4619	* .7422
	* 2.0958	* 1.5176	* 1.4154	* 1.2171	* 1.2480	* 1.2402	* 1.3748	* 2.6890
9	* 1.3152	* 1.4876	* 1.4169	* 1.5540	* 1.6697	* 1.5058	* 1.5540	* .9253
	* 1.5176	* 1.3451	* 1.4137	* 1.2933	* 1.2065	* 1.3358	* 1.2941	* 2.1608
10	* 1.4148	* 1.4159	* 1.5240	* 1.6911	* 1.6001	* 1.4362	* 1.5369	* .7272
	* 1.4154	* 1.4145	* 1.3186	* 1.1918	* 1.2587	* 1.3985	* 1.3084	* 2.7453
11	* 1.6536	* 1.5551	* 1.6868	* 1.6279	* 1.6836	* 1.4844	* 1.4330	* .7047
	* 1.2171	* 1.2926	* 1.1942	* 1.2375	* 1.1978	* 1.3558	* 1.4019	* 2.8311
12	* 1.6129	* 1.6718	* 1.5990	* 1.6815	* 1.6290	* 1.6022	* .9639	*
	* 1.2480	* 1.2046	* 1.2587	* 1.1991	* 1.2387	* 1.2574	* 2.0771	*
13	* 1.6236	* 1.5058	* 1.4362	* 1.4833	* 1.6022	* 1.4855	* .7797	*
	* 1.2402	* 1.3351	* 1.3986	* 1.3566	* 1.2580	* 1.3551	* 2.5633	*
14	* 1.4619	* 1.5551	* 1.5369	* 1.4330	* .9639	* .7797	*	*
	* 1.3748	* 1.2940	* 1.3084	* 1.4019	* 2.0771	* 2.5633	*	*
15	* .7422	* .9253	* .7272	* .7047	* F-SUB-Q			
	* 2.6890	* 2.1589	* 2.7456	* 2.8314	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 100% POWER, 250 EFPD, THIS IS LEVEL 6 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9361	* 1.3034	* 1.4030	* 1.6397	* 1.6011	* 1.6097	* 1.4523	* .7347
	* 2.0568	* 1.4842	* 1.3831	* 1.1890	* 1.2178	* 1.2122	* 1.3413	* 2.6364
9	* 1.3034	* 1.4737	* 1.4052	* 1.5412	* 1.6558	* 1.4940	* 1.5444	* .9168
	* 1.4842	* 1.3166	* 1.3814	* 1.2635	* 1.1788	* 1.3049	* 1.2623	* 2.1139
10	* 1.4030	* 1.4041	* 1.5112	* 1.6772	* 1.5883	* 1.4266	* 1.5272	* .7208
	* 1.3831	* 1.3830	* 1.2884	* 1.1637	* 1.2280	* 1.3653	* 1.2759	* 2.6874
11	* 1.6397	* 1.5433	* 1.6729	* 1.6172	* 1.6718	* 1.4758	* 1.4244	* .6983
	* 1.1890	* 1.2629	* 1.1666	* 1.2072	* 1.1683	* 1.3217	* 1.3670	* 2.7728
12	* 1.6011	* 1.6579	* 1.5872	* 1.6697	* 1.6194	* 1.5936	* .9575	
	* 1.2178	* 1.1771	* 1.2286	* 1.1701	* 1.2066	* 1.2248	* 2.0300	
13	* 1.6097	* 1.4951	* 1.4266	* 1.4748	* 1.5936	* 1.4769	* .7733	
	* 1.2122	* 1.3041	* 1.3654	* 1.3224	* 1.2248	* 1.3209	* 2.5074	
14	* 1.4523	* 1.5444	* 1.5272	* 1.4244	* .9564	* .7733		
	* 1.3413	* 1.2623	* 1.2759	* 1.3670	* 2.0300	* 2.5074		
15	* .7347	* .9168	* .7208	* .6983	* F-SUB-Q			
	* 2.6364	* 2.1139	* 2.6905	* 2.7728	* M-SUB-Q			

AT 100% POWER, 250 EFPD, THIS IS LEVEL 5 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9061	* 1.2659	* 1.3634	* 1.5776	* 1.5530	* 1.5487	* 1.4062	* .7122
	* 2.0704	* 1.4897	* 1.3870	* 1.2036	* 1.2229	* 1.2267	* 1.3497	* 2.6498
9	* 1.2659	* 1.4169	* 1.3666	* 1.4951	* 1.5926	* 1.4491	* 1.4908	* .8879
	* 1.4897	* 1.3337	* 1.3838	* 1.2683	* 1.1932	* 1.3099	* 1.2731	* 2.1283
10	* 1.3634	* 1.3655	* 1.4662	* 1.6129	* 1.5422	* 1.3869	* 1.4748	* .6951
	* 1.3870	* 1.3854	* 1.2927	* 1.1777	* 1.2312	* 1.3669	* 1.2870	* 2.7167
11	* 1.5776	* 1.4962	* 1.6097	* 1.5690	* 1.6108	* 1.4341	* 1.3773	* .6779
	* 1.2036	* 1.2676	* 1.1801	* 1.2104	* 1.1806	* 1.3246	* 1.3773	* 2.7873
12	* 1.5530	* 1.5936	* 1.5422	* 1.6076	* 1.5733	* 1.5422	* .9318	
	* 1.2229	* 1.1920	* 1.2318	* 1.1824	* 1.2085	* 1.2325	* 2.0328	
13	* 1.5487	* 1.4501	* 1.3869	* 1.4330	* 1.5422	* 1.4287	* .7508	
	* 1.2267	* 1.3091	* 1.3669	* 1.3247	* 1.2325	* 1.3298	* 2.5168	
14	* 1.4062	* 1.4919	* 1.4748	* 1.3773	* .9307	* .7508		
	* 1.3497	* 1.2724	* 1.2870	* 1.3773	* 2.0328	* 2.5165		
15	* .7122	* .8889	* .6951	* .6779	* F-SUB-Q			
	* 2.6498	* 2.1264	* 2.7170	* 2.7873	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 100% POWER, 250 EFPD, THIS IS LEVEL 4 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .8825	* 1.2306	* 1.3259	* 1.5251	* 1.5090	* 1.4973	* 1.3677	* .6919
	* 2.0842	* 1.4997	* 1.3958	* 1.2178	* 1.2305	* 1.2415	* 1.3573	* 2.6745
9	* 1.2306	* 1.3709	* 1.3302	* 1.4523	* 1.5369	* 1.4062	* 1.4469	* .8611
	* 1.4997	* 1.3496	* 1.3909	* 1.2778	* 1.2084	* 1.3207	* 1.2841	* 2.1523
10	* 1.3259	* 1.3291	* 1.4234	* 1.5594	* 1.4994	* 1.3495	* 1.4309	* .6747
	* 1.3958	* 1.3925	* 1.3032	* 1.1919	* 1.2382	* 1.3746	* 1.2982	* 2.7462
11	* 1.5251	* 1.4533	* 1.5551	* 1.5262	* 1.5594	* 1.3966	* 1.3377	* .6576
	* 1.2178	* 1.2765	* 1.1949	* 1.2177	* 1.1925	* 1.3304	* 1.3884	* 2.8151
12	* 1.5090	* 1.5380	* 1.4994	* 1.5562	* 1.5315	* 1.4983	* .9061	*
	* 1.2305	* 1.2078	* 1.2389	* 1.1949	* 1.2140	* 1.2408	* 2.0477	*
13	* 1.4973	* 1.4073	* 1.3495	* 1.3955	* 1.4983	* 1.3880	* .7294	*
	* 1.2415	* 1.3200	* 1.3746	* 1.3312	* 1.2408	* 1.3395	* 2.5394	*
14	* 1.3677	* 1.4469	* 1.4309	* 1.3377	* .9061	* .7294	*	*
	* 1.3573	* 1.2841	* 1.2982	* 1.3884	* 2.0477	* 2.5394	*	*
15	* .6919	* .8611	* .6737	* .6565	* F-SUB-Q			
	* 2.6745	* 2.1503	* 2.7462	* 2.8184	* M-SUB-Q			

AT 100% POWER, 250 EFPD, THIS IS LEVEL 3 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .8161	* 1.1320	* 1.2188	* 1.3912	* 1.3880	* 1.3655	* 1.2584	* .6383
	* 2.2201	* 1.6043	* 1.4926	* 1.3117	* 1.3146	* 1.3376	* 1.4512	* 2.8534
9	* 1.1320	* 1.2456	* 1.2242	* 1.3355	* 1.4009	* 1.2906	* 1.3163	* .7883
	* 1.6043	* 1.4612	* 1.4869	* 1.3655	* 1.3037	* 1.4147	* 1.3880	* 2.3156
10	* 1.2188	* 1.2231	* 1.3055	* 1.4212	* 1.3827	* 1.2381	* 1.2948	* .6201
	* 1.4926	* 1.4888	* 1.3962	* 1.2852	* 1.3197	* 1.4730	* 1.4105	* 2.9425
11	* 1.3912	* 1.3366	* 1.4169	* 1.4030	* 1.4212	* 1.2831	* 1.2145	* .6040
	* 1.3117	* 1.3647	* 1.2887	* 1.3007	* 1.2858	* 1.4240	* 1.5040	* 3.0178
12	* 1.3880	* 1.4019	* 1.3827	* 1.4191	* 1.4105	* 1.3655	* .8354	*
	* 1.3146	* 1.3030	* 1.3204	* 1.2880	* 1.2958	* 1.3392	* 2.1850	*
13	* 1.3655	* 1.2916	* 1.2381	* 1.2820	* 1.3655	* 1.2616	* .6715	*
	* 1.3376	* 1.4138	* 1.4738	* 1.4241	* 1.3392	* 1.4494	* 2.7188	*
14	* 1.2584	* 1.3163	* 1.2948	* 1.2145	* .8354	* .6715	*	*
	* 1.4512	* 1.3880	* 1.4105	* 1.5040	* 2.1850	* 2.7188	*	*
15	* .6383	* .7883	* .6190	* .6040	* F-SUB-Q			
	* 2.8534	* 2.3136	* 2.9425	* 3.0213	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 100% POWER, 250 EFPD, THIS IS LEVEL 2 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	.6812	.9232	.9939	1.2049	1.1417	1.1824	1.0421	.5323
	2.6313	1.9443	1.8101	1.4948	1.5778	1.5238	1.7304	3.3911
9	.9232	1.0742	.9950	1.0956	1.2134	1.0560	1.0892	.6426
	1.9443	1.6717	1.8073	1.6436	1.4835	1.7066	1.6564	2.8066
10	.9939	.9939	1.0678	1.2327	1.1449	1.0035	1.0581	.5152
	1.8101	1.8087	1.6859	1.4614	1.5734	1.7963	1.7053	3.5019
11	1.2049	1.0956	1.2295	1.1535	1.2263	1.0485	.9810	.5002
	1.4948	1.6425	1.4651	1.5620	1.4696	1.7203	1.8396	3.6085
12	1.1417	1.2156	1.1449	1.2252	1.1620	1.1310		.6972
	1.5778	1.4816	1.5735	1.4715	1.5518	1.5958		2.5881
13	1.1824	1.0560	1.0035	1.0485	1.1310	1.0121		.5548
	1.5238	1.7066	1.7963	1.7203	1.5958	1.7853		3.2556
14	1.0421	1.0892	1.0581	.9810	.6972	.5548		
	1.7304	1.6563	1.7053	1.8396	2.5881	3.2556		
15	.5323	.6426	.5152	.5002	F-SUB-Q			
	3.3911	2.8063	3.5019	3.6091	M-SUB-Q			

AT 100% POWER, 250 EFPD, THIS IS LEVEL 1 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	.4691	.4027	.4466	.5291	.4959	.5184	.4552	.3641
	3.7892	4.4126	3.9875	3.3677	3.5936	3.4363	3.9150	4.9082
9	.4027	.4670	.4338	.4852	.5334	.4777	.4530	.2988
	4.4126	3.8021	4.1061	3.6718	3.3390	3.7295	3.9413	5.9771
10	.4466	.4338	.4884	.5419	.5002	.4402	.4380	.3641
	3.9875	4.1061	3.6489	3.2880	3.5609	4.0564	4.0775	4.9082
11	.5291	.4852	.5409	.5023	.5387	.4584	.4016	.2485
	3.3677	3.6718	3.2972	3.5496	3.3065	3.8955	4.4452	7.1961
12	.4959	.5344	.4991	.5376	.5098	.4702	.3470	
	3.5936	3.3342	3.5717	3.3154	3.4977	3.7953	5.1439	
13	.5184	.4787	.4391	.4584	.4702	.4209	.2656	
	3.4363	3.7295	4.0627	3.8955	3.7953	4.2458	6.7432	
14	.4552	.4530	.4380	.4016	.3470	.2656		
	3.9150	3.9413	4.0775	4.4452	5.1439	6.7432		
15	.3641	.2988	.3641	.2485	F-SUB-Q			
	4.9082	5.9771	4.9175	7.1961	M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 100% POWER, 350 EFPD, THIS IS LEVEL 24 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .6062	* .5484	* .5848	* .6276	* .6158	* .6073	* .5526	* .4959
	* 2.8172	* 3.3803	* 3.0938	* 2.7662	* 2.8922	* 2.8285	* 3.1806	* 3.5067
9	* .5484	* .5933	* .5816	* .6051	* .6265	* .5890	* .5451	* .4006
	* 3.3803	* 3.0329	* 3.1321	* 2.9680	* 2.7721	* 3.0182	* 3.1448	* 4.3691
10	* .5848	* .5805	* .6030	* .6265	* .6115	* .5601	* .5334	* .4798
	* 3.0938	* 3.1321	* 3.0736	* 2.8451	* 3.0007	* 3.2451	* 3.2876	* 3.6837
11	* .6276	* .6051	* .6265	* .6137	* .6073	* .5505	* .4937	* .3395
	* 2.7662	* 2.9680	* 2.8451	* 3.0254	* 2.8745	* 3.2521	* 3.6366	* 5.3698
12	* .6158	* .6276	* .6115	* .6073	* .5451	* .5098	* .4391	
	* 2.8922	* 2.7684	* 3.0007	* 2.8745	* 2.9735	* 3.1486	* 4.0639	
13	* .6073	* .5890	* .5601	* .5505	* .5098	* .4605	* .3406	
	* 2.8285	* 3.0157	* 3.2451	* 3.2521	* 3.1486	* 3.4521	* 5.1040	
14	* .5526	* .5451	* .5334	* .4937	* .4402	* .3416		
	* 3.1806	* 3.1448	* 3.2876	* 3.6366	* 4.0639	* 5.1040		
15	* .4959	* .4006	* .4798	* .3395	* F-SUB-Q			
	* 3.5067	* 4.3637	* 3.6837	* 5.3698	* M-SUB-Q			

AT 100% POWER, 350 EFPD, THIS IS LEVEL 23 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .8011	* 1.1085	* 1.1610	* 1.1513	* 1.2242	* 1.1213	* 1.0881	* .6415
	* 2.1698	* 1.7185	* 1.6039	* 1.5435	* 1.4930	* 1.5718	* 1.6561	* 2.7794
9	* 1.1085	* 1.1106	* 1.1706	* 1.2038	* 1.1460	* 1.1620	* 1.0967	* .7690
	* 1.7185	* 1.6623	* 1.5934	* 1.5293	* 1.5513	* 1.5703	* 1.6045	* 2.3274
10	* 1.1610	* 1.1706	* 1.1899	* 1.1524	* 1.2102	* 1.1438	* 1.0817	* .6030
	* 1.6039	* 1.5934	* 1.5855	* 1.5887	* 1.5564	* 1.6458	* 1.6628	* 3.0068
11	* 1.1513	* 1.2038	* 1.1513	* 1.2242	* 1.1256	* 1.1256	* 1.0260	* .6126
	* 1.5435	* 1.5286	* 1.5887	* 1.5487	* 1.5963	* 1.6494	* 1.7794	* 3.0503
12	* 1.2242	* 1.1470	* 1.2102	* 1.1256	* 1.1042	* 1.0603	* .7883	
	* 1.4930	* 1.5491	* 1.5564	* 1.5963	* 1.5263	* 1.5981	* 2.3277	
13	* 1.1213	* 1.1631	* 1.1438	* 1.1256	* 1.0603	* .9928	* .6394	
	* 1.5718	* 1.5692	* 1.6451	* 1.6494	* 1.5981	* 1.7067	* 2.8054	
14	* 1.0881	* 1.0978	* 1.0817	* 1.0260	* .7883	* .6394		
	* 1.6561	* 1.6041	* 1.6628	* 1.7794	* 2.3277	* 2.8054		
15	* .6415	* .7700	* .6030	* .6126	* F-SUB-Q			
	* 2.7794	* 2.3249	* 3.0068	* 3.0503	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 100% POWER, 350 EFPD, THIS IS LEVEL 22 OF 24
 (LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	.9832	1.2809	1.3441	1.3934	1.4330	1.3612	1.2841	.7443
	1.9519	1.5202	1.4105	1.2957	1.2973	1.3147	1.4284	2.4406
9	1.2809	1.3420	1.3495	1.4052	1.3955	1.3634	1.3227	.9007
	1.5202	1.4004	1.4067	1.3334	1.2980	1.3621	1.3520	2.0219
10	1.3441	1.3495	1.3891	1.4030	1.4180	1.3334	1.3120	.7047
	1.4105	1.4073	1.3839	1.3327	1.3538	1.4377	1.3932	2.6173
11	1.3934	1.4062	1.4019	1.4373	1.3805	1.3280	1.2413	.7090
	1.2957	1.3326	1.3327	1.3458	1.3336	1.4284	1.4939	2.6894
12	1.4330	1.3966	1.4180	1.3794	1.3955	1.3248		.9200
	1.2973	1.2964	1.3538	1.3336	1.3326	1.3486		2.0429
13	1.3612	1.3645	1.3334	1.3280	1.3248	1.2338		.7529
	1.3147	1.3615	1.4372	1.4290	1.3486	1.4403		2.4494
14	1.2841	1.3227	1.3120	1.2413	.9200	.7529		
	1.4284	1.3520	1.3932	1.4939	2.0429	2.4494		
15	.7443	.9018	.7047	.7079	F-SUB-Q			
	2.4406	2.0201	2.6173	2.6894	M-SUB-Q			

AT 100% POWER, 350 EFPD, THIS IS LEVEL 21 OF 24
 (LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	1.0474	1.3645	1.4373	1.5594	1.5562	1.5262	1.4052	.7968
	1.8871	1.4565	1.3410	1.1752	1.2142	1.1888	1.3259	2.3164
9	1.3645	1.4780	1.4384	1.5208	1.5658	1.4801	1.4651	.9735
	1.4565	1.2910	1.3421	1.2516	1.1716	1.2755	1.2379	1.9054
10	1.4373	1.4373	1.5015	1.5765	1.5390	1.4330	1.4533	.7647
	1.3410	1.3429	1.3026	1.2062	1.2683	1.3602	1.2748	2.4558
11	1.5594	1.5219	1.5754	1.5637	1.5604	1.4394	1.3730	.7583
	1.1752	1.2509	1.2064	1.2607	1.2036	1.3426	1.3730	2.5552
12	1.5562	1.5679	1.5390	1.5583	1.5369	1.4833	.9907	
	1.2142	1.1704	1.2683	1.2041	1.2482	1.2402	1.9416	
13	1.5262	1.4801	1.4330	1.4394	1.4833	1.3827	.8150	
	1.1888	1.2747	1.3602	1.3426	1.2402	1.3235	2.3250	
14	1.4052	1.4651	1.4544	1.3730	.9907	.8150		
	1.3259	1.2375	1.2748	1.3730	1.9416	2.3250		
15	.7968	.9746	.7647	.7583	F-SUB-Q			
	2.3164	1.9038	2.4558	2.5552	M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 100% POWER, 350 EFPD, THIS IS LEVEL 20 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.0442	* 1.3655	* 1.4426	* 1.6065	* 1.5797	* 1.5754	* 1.4319	* .8022
	* 1.9402	* 1.4852	* 1.3608	* 1.1588	* 1.2173	* 1.1686	* 1.3237	* 2.3410
9	* 1.3655	* 1.5037	* 1.4416	* 1.5412	* 1.6161	* 1.5015	* 1.5005	* .9832
	* 1.4852	* 1.2906	* 1.3641	* 1.2582	* 1.1525	* 1.2792	* 1.2266	* 1.9231
10	* 1.4426	* 1.4405	* 1.5176	* 1.6290	* 1.5626	* 1.4437	* 1.4887	* .7743
	* 1.3608	* 1.3641	* 1.3121	* 1.1886	* 1.2721	* 1.3745	* 1.2639	* 2.4650
11	* 1.6065	* 1.5422	* 1.6268	* 1.5883	* 1.6151	* 1.4576	* 1.4030	* .7615
	* 1.1588	* 1.2571	* 1.1890	* 1.2657	* 1.1859	* 1.3529	* 1.3690	* 2.5902
12	* 1.5797	* 1.6183	* 1.5626	* 1.6129	* 1.5690	* 1.5305	* 1.0003	*
	* 1.2173	* 1.1513	* 1.2721	* 1.1865	* 1.2542	* 1.2328	* 1.9701	*
13	* 1.5754	* 1.5026	* 1.4437	* 1.4576	* 1.5305	* 1.4212	* .8236	*
	* 1.1686	* 1.2785	* 1.3745	* 1.3534	* 1.2328	* 1.3190	* 2.3612	*
14	* 1.4319	* 1.5005	* 1.4887	* 1.4030	* .9992	* .8236	*	*
	* 1.3237	* 1.2266	* 1.2639	* 1.3690	* 1.9701	* 2.3612	*	*
15	* .8022	* .9842	* .7743	* .7615	* F-SUB-Q			
	* 2.3410	* 1.9214	* 2.4661	* 2.5913	* M-SUB-Q			

AT 100% POWER, 350 EFPD, THIS IS LEVEL 19 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.0249	* 1.3409	* 1.4201	* 1.6044	* 1.5679	* 1.5776	* 1.4255	* .7936
	* 2.0057	* 1.5332	* 1.4088	* 1.1810	* 1.2512	* 1.1874	* 1.3562	* 2.4168
9	* 1.3409	* 1.4898	* 1.4191	* 1.5262	* 1.6172	* 1.4887	* 1.4951	* .9714
	* 1.5332	* 1.3225	* 1.4123	* 1.2949	* 1.1725	* 1.3158	* 1.2526	* 1.9861
10	* 1.4201	* 1.4191	* 1.5015	* 1.6290	* 1.5508	* 1.4266	* 1.4823	* .7690
	* 1.4088	* 1.4126	* 1.3517	* 1.2086	* 1.3069	* 1.4178	* 1.2905	* 2.5334
11	* 1.6044	* 1.5272	* 1.6268	* 1.5754	* 1.6161	* 1.4469	* 1.3955	* .7518
	* 1.1810	* 1.2941	* 1.2099	* 1.2973	* 1.2081	* 1.3961	* 1.3984	* 2.6743
12	* 1.5679	* 1.6194	* 1.5508	* 1.6151	* 1.5594	* 1.5283	* .9885	*
	* 1.2512	* 1.1712	* 1.3072	* 1.2088	* 1.2931	* 1.2654	* 2.0407	*
13	* 1.5776	* 1.4898	* 1.4266	* 1.4459	* 1.5272	* 1.4180	* .8150	*
	* 1.1874	* 1.3150	* 1.4178	* 1.3970	* 1.2659	* 1.3573	* 2.4553	*
14	* 1.4255	* 1.4962	* 1.4823	* 1.3955	* .9885	* .8150	*	*
	* 1.3562	* 1.2518	* 1.2905	* 1.3984	* 2.0407	* 2.4553	*	*
15	* .7936	* .9725	* .7679	* .7518	* F-SUB-Q			
	* 2.4168	* 1.9843	* 2.5351	* 2.6743	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 100% POWER, 350 EFPD, THIS IS LEVEL 18 OF 24
 (LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.0089	* 1.3270	* 1.4073	* 1.6044	* 1.5626	* 1.5829	* 1.4244	* .7883
	* 2.0634	* 1.5604	* 1.4523	* 1.2054	* 1.2846	* 1.2087	* 1.3887	* 2.4891
9	* 1.3270	* 1.4823	* 1.4062	* 1.5187	* 1.6194	* 1.4823	* 1.4940	* .9660
	* 1.5604	* 1.3387	* 1.4560	* 1.3307	* 1.1953	* 1.3510	* 1.2785	* 2.0443
10	* 1.4073	* 1.4062	* 1.4930	* 1.6301	* 1.5444	* 1.4159	* 1.4801	* .7636
	* 1.4523	* 1.4570	* 1.3816	* 1.2170	* 1.3331	* 1.4509	* 1.3162	* 2.6041
11	* 1.6044	* 1.5197	* 1.6279	* 1.5690	* 1.6172	* 1.4405	* 1.3912	* .7454
	* 1.2054	* 1.3299	* 1.2188	* 1.3176	* 1.2284	* 1.4305	* 1.4193	* 2.7338
12	* 1.5626	* 1.6204	* 1.5444	* 1.6161	* 1.5540	* 1.5272	* .9821	*
	* 1.2846	* 1.1940	* 1.3334	* 1.2290	* 1.3231	* 1.2894	* 2.0969	*
13	* 1.5829	* 1.4833	* 1.4159	* 1.4405	* 1.5272	* 1.4159	* .8097	*
	* 1.2087	* 1.3502	* 1.4509	* 1.4305	* 1.2901	* 1.3868	* 2.5258	*
14	* 1.4244	* 1.4940	* 1.4801	* 1.3912	* .9821	* .8097	*	*
	* 1.3887	* 1.2777	* 1.3162	* 1.4193	* 2.0969	* 2.5258	*	*
15	* .7883	* .9660	* .7636	* .7454	F-SUB-Q			
	* 2.4891	* 2.0436	* 2.6041	* 2.7360	M-SUB-Q			

AT 100% POWER, 350 EFPD, THIS IS LEVEL 17 OF 24
 (LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9842	* 1.3013	* 1.3827	* 1.5926	* 1.5412	* 1.5722	* 1.4094	* .7733
	* 2.1451	* 1.6188	* 1.5106	* 1.2493	* 1.3357	* 1.2520	* 1.4397	* 2.6016
9	* 1.3013	* 1.4651	* 1.3805	* 1.4962	* 1.6076	* 1.4598	* 1.4812	* .9478
	* 1.6188	* 1.3844	* 1.5146	* 1.3844	* 1.2386	* 1.4063	* 1.3246	* 2.1338
10	* 1.3827	* 1.3794	* 1.4694	* 1.6172	* 1.5219	* 1.3912	* 1.4662	* .7518
	* 1.5106	* 1.5156	* 1.4306	* 1.2510	* 1.3774	* 1.5039	* 1.3595	* 2.7105
11	* 1.5926	* 1.4973	* 1.6151	* 1.5476	* 1.6054	* 1.4191	* 1.3762	* .7304
	* 1.2493	* 1.3836	* 1.2525	* 1.3577	* 1.2601	* 1.4763	* 1.4591	* 2.8391
12	* 1.5412	* 1.6086	* 1.5219	* 1.6033	* 1.5337	* 1.5144	* .9639	*
	* 1.3357	* 1.2368	* 1.3774	* 1.2616	* 1.3675	* 1.3335	* 2.1696	*
13	* 1.5722	* 1.4608	* 1.3912	* 1.4191	* 1.5144	* 1.4030	* .7947	*
	* 1.2520	* 1.4054	* 1.5039	* 1.4763	* 1.3335	* 1.4388	* 2.6298	*
14	* 1.4094	* 1.4812	* 1.4662	* 1.3762	* .9628	* .7947	*	*
	* 1.4397	* 1.3246	* 1.3595	* 1.4591	* 2.1696	* 2.6298	*	*
15	* .7733	* .9489	* .7518	* .7304	F-SUB-Q			
	* 2.6016	* 2.1338	* 2.7105	* 2.8391	M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 100% POWER, 350 EFPD, THIS IS LEVEL 16 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9725	* 1.2884	* 1.3687	* 1.5872	* 1.5315	* 1.5679	* 1.4019	* .7668
	* 2.2287	* 1.6791	* 1.5633	* 1.3012	* 1.3838	* 1.3041	* 1.4899	* 2.7047
9	* 1.2884	* 1.4566	* 1.3666	* 1.4855	* 1.6022	* 1.4491	* 1.4758	* .9393
	* 1.6791	* 1.4347	* 1.5683	* 1.4346	* 1.2886	* 1.4577	* 1.3794	* 2.2164
10	* 1.3687	* 1.3666	* 1.4576	* 1.6119	* 1.5123	* 1.3784	* 1.4587	* .7465
	* 1.5633	* 1.5687	* 1.4751	* 1.2973	* 1.4172	* 1.5508	* 1.4085	* 2.8024
11	* 1.5872	* 1.4865	* 1.6097	* 1.5369	* 1.6001	* 1.4084	* 1.3687	* .7229
	* 1.3012	* 1.4337	* 1.2995	* 1.4012	* 1.3049	* 1.5206	* 1.5155	* 2.9258
12	* 1.5315	* 1.6044	* 1.5112	* 1.5979	* 1.5240	* 1.5069	* .9543	*
	* 1.3838	* 1.2871	* 1.4178	* 1.3064	* 1.4063	* 1.3785	* 2.2389	*
13	* 1.5679	* 1.4501	* 1.3784	* 1.4084	* 1.5069	* 1.3955	* .7861	*
	* 1.3041	* 1.4568	* 1.5508	* 1.5206	* 1.3791	* 1.4878	* 2.7092	*
14	* 1.4019	* 1.4758	* 1.4587	* 1.3677	* .9543	* .7861	*	*
	* 1.4899	* 1.3794	* 1.4085	* 1.5158	* 2.2389	* 2.7092	*	*
15	* .7668	* .9393	* .7465	* .7229	* F-SUB-Q			
	* 2.7047	* 2.2155	* 2.8059	* 2.9258	* M-SUB-Q			

AT 100% POWER, 350 EFPD, THIS IS LEVEL 15 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9478	* 1.2606	* 1.3409	* 1.5572	* 1.5048	* 1.5390	* 1.3762	* .7508
	* 2.3491	* 1.7587	* 1.6472	* 1.3826	* 1.4575	* 1.3867	* 1.5720	* 2.8587
9	* 1.2606	* 1.4255	* 1.3388	* 1.4587	* 1.5722	* 1.4223	* 1.4459	* .9189
	* 1.7587	* 1.5205	* 1.6520	* 1.5090	* 1.3677	* 1.5371	* 1.4680	* 2.3390
10	* 1.3409	* 1.3388	* 1.4298	* 1.5819	* 1.4844	* 1.3505	* 1.4287	* .7272
	* 1.6472	* 1.6523	* 1.5483	* 1.3710	* 1.4857	* 1.6291	* 1.4923	* 2.9674
11	* 1.5572	* 1.4587	* 1.5787	* 1.5090	* 1.5690	* 1.3805	* 1.3377	* .7069
	* 1.3826	* 1.5080	* 1.3735	* 1.4693	* 1.3845	* 1.6006	* 1.6073	* 3.0689
12	* 1.5048	* 1.5744	* 1.4844	* 1.5669	* 1.4951	* 1.4758	* .9339	*
	* 1.4575	* 1.3660	* 1.4857	* 1.3857	* 1.4784	* 1.4629	* 2.3565	*
13	* 1.5390	* 1.4234	* 1.3505	* 1.3805	* 1.4758	* 1.3655	* .7690	*
	* 1.3867	* 1.5365	* 1.6291	* 1.6006	* 1.4629	* 1.5792	* 2.8498	*
14	* 1.3762	* 1.4469	* 1.4287	* 1.3377	* .9339	* .7690	*	*
	* 1.5720	* 1.4670	* 1.4923	* 1.6073	* 2.3565	* 2.8498	*	*
15	* .7508	* .9189	* .7272	* .7069	* F-SUB-Q			
	* 2.8587	* 2.3390	* 2.9674	* 3.0689	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 100% POWER, 350 EFPD, THIS IS LEVEL 14 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9478	* 1.2606	* 1.3409	* 1.5744	* 1.5112	* 1.5562	* 1.3859	* .7497
	* 2.4266	* 1.8216	* 1.7104	* 1.4332	* 1.5106	* 1.4386	* 1.6239	* 2.9709
9	* 1.2606	* 1.4373	* 1.3377	* 1.4619	* 1.5894	* 1.4255	* 1.4608	* .9189
	* 1.8216	* 1.5777	* 1.7163	* 1.5657	* 1.4173	* 1.5952	* 1.5231	* 2.4262
10	* 1.3409	* 1.3377	* 1.4319	* 1.5990	* 1.4898	* 1.3495	* 1.4416	* .7315
	* 1.7104	* 1.7167	* 1.6039	* 1.4158	* 1.5361	* 1.6898	* 1.5468	* 3.0609
11	* 1.5744	* 1.4630	* 1.5958	* 1.5144	* 1.5851	* 1.3837	* 1.3473	* .7058
	* 1.4332	* 1.5647	* 1.4182	* 1.5158	* 1.4285	* 1.6534	* 1.6596	* 3.1774
12	* 1.5112	* 1.5915	* 1.4898	* 1.5829	* 1.5015	* 1.4898		* .9328
	* 1.5106	* 1.4156	* 1.5368	* 1.4303	* 1.5275	* 1.5172		* 2.4380
13	* 1.5562	* 1.4266	* 1.3495	* 1.3837	* 1.4898	* 1.3762		* .7679
	* 1.4386	* 1.5941	* 1.6898	* 1.6534	* 1.5172	* 1.6395		* 2.9541
14	* 1.3859	* 1.4608	* 1.4416	* 1.3473	* .9328	* .7679		
	* 1.6239	* 1.5221	* 1.5468	* 1.6596	* 2.4380	* 2.9541		
15	* .7497	* .9189	* .7304	* .7047	* F-SUB-Q			
	* 2.9709	* 2.4237	* 3.0609	* 3.1788	* M-SUB-Q			

AT 100% POWER, 350 EFPD, THIS IS LEVEL 13 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9393	* 1.2520	* 1.3334	* 1.5754	* 1.5080	* 1.5572	* 1.3827	* .7454
	* 2.5483	* 1.9113	* 1.7955	* 1.5110	* 1.5836	* 1.5158	* 1.7002	* 3.1154
9	* 1.2520	* 1.4330	* 1.3302	* 1.4566	* 1.5904	* 1.4191	* 1.4587	* .9125
	* 1.9113	* 1.6630	* 1.8024	* 1.6418	* 1.4930	* 1.6732	* 1.6042	* 2.5424
10	* 1.3334	* 1.3291	* 1.4255	* 1.5990	* 1.4855	* 1.3398	* 1.4384	* .7261
	* 1.7955	* 1.8024	* 1.6823	* 1.4894	* 1.6087	* 1.7729	* 1.6279	* 3.2033
11	* 1.5754	* 1.4576	* 1.5969	* 1.5101	* 1.5851	* 1.3773	* 1.3420	* .7004
	* 1.5110	* 1.6410	* 1.4913	* 1.5869	* 1.5000	* 1.7246	* 1.7437	* 3.3267
12	* 1.5080	* 1.5926	* 1.4844	* 1.5829	* 1.4973	* 1.4855		* .9264
	* 1.5836	* 1.4913	* 1.6095	* 1.5020	* 1.5920	* 1.5891		* 2.5432
13	* 1.5572	* 1.4201	* 1.3398	* 1.3762	* 1.4855	* 1.3720		* .7626
	* 1.5158	* 1.6720	* 1.7729	* 1.7246	* 1.5891	* 1.7167		* 3.0760
14	* 1.3827	* 1.4598	* 1.4384	* 1.3420	* .9264	* .7626		
	* 1.7002	* 1.6035	* 1.6279	* 1.7437	* 2.5432	* 3.0760		
15	* .7454	* .9136	* .7261	* .6994	* F-SUB-Q			
	* 3.1154	* 2.5407	* 3.2050	* 3.3267	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 100% POWER, 350 EFPD, THIS IS LEVEL 12 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9286	* 1.2391	* 1.3205	* 1.5626	* 1.4962	* 1.5433	* 1.3709	* .7368
	* 2.5591	* 1.9267	* 1.8149	* 1.5459	* 1.6118	* 1.5634	* 1.7526	* 3.2279
9	* 1.2391	* 1.4180	* 1.3163	* 1.4448	* 1.5776	* 1.4062	* 1.4448	* .9029
	* 1.9267	* 1.6907	* 1.8220	* 1.6667	* 1.5328	* 1.7104	* 1.6643	* 2.6397
10	* 1.3205	* 1.3152	* 1.4126	* 1.5862	* 1.4726	* 1.3259	* 1.4223	* .7176
	* 1.8149	* 1.8234	* 1.7067	* 1.5288	* 1.6411	* 1.8149	* 1.6919	* 3.3240
11	* 1.5626	* 1.4448	* 1.5829	* 1.4973	* 1.5701	* 1.3623	* 1.3259	* .6919
	* 1.5459	* 1.6655	* 1.5308	* 1.6162	* 1.5449	* 1.7751	* 1.8163	* 3.4511
12	* 1.4962	* 1.5797	* 1.4716	* 1.5679	* 1.4823	* 1.4694	* .9157	*
	* 1.6118	* 1.5308	* 1.6411	* 1.5480	* 1.6353	* 1.6480	* 2.6279	*
13	* 1.5433	* 1.4073	* 1.3259	* 1.3623	* 1.4694	* 1.3570	* .7540	*
	* 1.5634	* 1.7104	* 1.8149	* 1.7751	* 1.6491	* 1.7846	* 3.1928	*
14	* 1.3709	* 1.4448	* 1.4234	* 1.3259	* .9157	* .7540	*	*
	* 1.7526	* 1.6632	* 1.6919	* 1.8163	* 2.6279	* 3.1928	*	*
15	* .7368	* .9029	* .7176	* .6919	* F-SUB-Q			
	* 3.2279	* 2.6397	* 3.3240	* 3.4511	* M-SUB-Q			

AT 100% POWER, 350 EFPD, THIS IS LEVEL 11 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9350	* 1.2531	* 1.3355	* 1.5894	* 1.5165	* 1.5712	* 1.3912	* .7454
	* 2.4486	* 1.8402	* 1.7357	* 1.4722	* 1.5409	* 1.4890	* 1.6726	* 3.0867
9	* 1.2531	* 1.4394	* 1.3302	* 1.4630	* 1.6054	* 1.4244	* 1.4694	* .9136
	* 1.8402	* 1.6105	* 1.7435	* 1.5942	* 1.4594	* 1.6376	* 1.5856	* 2.5230
10	* 1.3355	* 1.3302	* 1.4287	* 1.6129	* 1.4908	* 1.3398	* 1.4448	* .7261
	* 1.7357	* 1.7446	* 1.6319	* 1.4558	* 1.5687	* 1.7383	* 1.6129	* 3.1707
11	* 1.5894	* 1.4641	* 1.6108	* 1.5165	* 1.5979	* 1.3794	* 1.3452	* .6994
	* 1.4722	* 1.5932	* 1.4585	* 1.5449	* 1.4713	* 1.6981	* 1.7319	* 3.2953
12	* 1.5165	* 1.6076	* 1.4908	* 1.5958	* 1.5015	* 1.4930	* .9253	*
	* 1.5409	* 1.4576	* 1.5687	* 1.4741	* 1.5645	* 1.5729	* 2.5122	*
13	* 1.5712	* 1.4244	* 1.3398	* 1.3794	* 1.4930	* 1.3762	* .7615	*
	* 1.4890	* 1.6365	* 1.7383	* 1.6981	* 1.5729	* 1.7030	* 3.0467	*
14	* 1.3912	* 1.4694	* 1.4448	* 1.3452	* .9253	* .7615	*	*
	* 1.6726	* 1.5856	* 1.6129	* 1.7319	* 2.5122	* 3.0467	*	*
15	* .7454	* .9136	* .7261	* .6983	* F-SUB-Q			
	* 3.0867	* 2.5226	* 3.1744	* 3.2953	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 100% POWER, 350 EFPD, THIS IS LEVEL 10 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9339	* 1.2563	* 1.3388	* 1.6044	* 1.5251	* 1.5862	* 1.4019	* .7476
	* 2.3539	* 1.7625	* 1.6616	* 1.3975	* 1.4692	* 1.4143	* 1.5940	* 2.9577
9	* 1.2563	* 1.4501	* 1.3345	* 1.4705	* 1.6204	* 1.4309	* 1.4823	* .9168
	* 1.7625	* 1.5343	* 1.6698	* 1.5225	* 1.3858	* 1.5642	* 1.5098	* 2.4151
10	* 1.3388	* 1.3334	* 1.4351	* 1.6279	* 1.4994	* 1.3441	* 1.4566	* .7283
	* 1.6616	* 1.6698	* 1.5589	* 1.3811	* 1.4963	* 1.6629	* 1.5346	* 3.0386
11	* 1.6044	* 1.4705	* 1.6247	* 1.5240	* 1.6129	* 1.3859	* 1.3548	* .6994
	* 1.3975	* 1.5215	* 1.3835	* 1.4729	* 1.3950	* 1.6183	* 1.6489	* 3.1571
12	* 1.5251	* 1.6226	* 1.4983	* 1.6097	* 1.5101	* 1.5048	* .9275	*
	* 1.4692	* 1.3835	* 1.4964	* 1.3975	* 1.4898	* 1.4936	* 2.4006	*
13	* 1.5862	* 1.4309	* 1.3441	* 1.3848	* 1.5037	* 1.3869	* .7626	*
	* 1.4143	* 1.5632	* 1.6629	* 1.6193	* 1.4936	* 1.6172	* 2.9100	*
14	* 1.4019	* 1.4823	* 1.4566	* 1.3548	* .9275	* .7626	*	*
	* 1.5940	* 1.5089	* 1.5346	* 1.6489	* 2.4006	* 2.9100	*	*
15	* .7476	* .9168	* .7272	* .6994	* F-SUB-Q			
	* 2.9577	* 2.4151	* 3.0420	* 3.1571	* M-SUB-Q			

AT 100% POWER, 350 EFPD, THIS IS LEVEL 9 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9350	* 1.2595	* 1.3430	* 1.6140	* 1.5326	* 1.5958	* 1.4084	* .7486
	* 2.2659	* 1.6937	* 1.5956	* 1.3377	* 1.4086	* 1.3541	* 1.5282	* 2.8458
9	* 1.2595	* 1.4566	* 1.3377	* 1.4758	* 1.6301	* 1.4351	* 1.4898	* .9189
	* 1.6937	* 1.4721	* 1.6034	* 1.4605	* 1.3257	* 1.5007	* 1.4461	* 2.3229
10	* 1.3430	* 1.3366	* 1.4394	* 1.6376	* 1.5048	* 1.3473	* 1.4641	* .7304
	* 1.5956	* 1.6044	* 1.4958	* 1.3212	* 1.4345	* 1.5970	* 1.4706	* 2.9202
11	* 1.6140	* 1.4769	* 1.6343	* 1.5305	* 1.6215	* 1.3902	* 1.3602	* .7004
	* 1.3377	* 1.4595	* 1.3235	* 1.4120	* 1.3348	* 1.5525	* 1.5807	* 3.0379
12	* 1.5326	* 1.6322	* 1.5048	* 1.6183	* 1.5165	* 1.5112	* .9286	*
	* 1.4086	* 1.3242	* 1.4346	* 1.3371	* 1.4267	* 1.4302	* 2.3069	*
13	* 1.5958	* 1.4362	* 1.3473	* 1.3891	* 1.5112	* 1.3923	* .7636	*
	* 1.3541	* 1.5007	* 1.5969	* 1.5525	* 1.4302	* 1.5485	* 2.7979	*
14	* 1.4084	* 1.4898	* 1.4641	* 1.3602	* .9286	* .7636	*	*
	* 1.5282	* 1.4461	* 1.4706	* 1.5807	* 2.3069	* 2.7979	*	*
15	* .7486	* .9189	* .7294	* .7004	* F-SUB-Q			
	* 2.8458	* 2.3229	* 2.9202	* 3.0379	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 100% POWER, 350 EFPD, THIS IS LEVEL 8 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9339	* 1.2606	* 1.3452	* 1.6140	* 1.5358	* 1.5958	* 1.4105	* .7486
	* 2.1968	* 1.6367	* 1.5408	* 1.2923	* 1.3575	* 1.3075	* 1.4749	* 2.7514
9	* 1.2606	* 1.4544	* 1.3388	* 1.4791	* 1.6301	* 1.4394	* 1.4898	* .9189
	* 1.6367	* 1.4252	* 1.5479	* 1.4082	* 1.2802	* 1.4466	* 1.3974	* 2.2441
10	* 1.3452	* 1.3388	* 1.4426	* 1.6376	* 1.5080	* 1.3495	* 1.4630	* .7283
	* 1.5408	* 1.5489	* 1.4420	* 1.2760	* 1.3824	* 1.5400	* 1.4220	* 2.8315
11	* 1.6140	* 1.4801	* 1.6343	* 1.5337	* 1.6204	* 1.3912	* 1.3591	* .7004
	* 1.2923	* 1.4073	* 1.2781	* 1.3606	* 1.2901	* 1.4967	* 1.5280	* 2.9378
12	* 1.5358	* 1.6322	* 1.5080	* 1.6172	* 1.5187	* 1.5101	* .9296	
	* 1.3575	* 1.2788	* 1.3825	* 1.2923	* 1.3752	* 1.3810	* 2.2250	
13	* 1.5958	* 1.4394	* 1.3495	* 1.3912	* 1.5101	* 1.3912	* .7636	
	* 1.3075	* 1.4457	* 1.5400	* 1.4967	* 1.3817	* 1.4967	* 2.7003	
14	* 1.4105	* 1.4898	* 1.4630	* 1.3591	* .9296	* .7636		
	* 1.4749	* 1.3973	* 1.4212	* 1.5280	* 2.2250	* 2.7003		
15	* .7486	* .9200	* .7272	* .7004	* F-SUB-Q			
	* 2.7514	* 2.2439	* 2.8345	* 2.9378	* M-SUB-Q			

AT 100% POWER, 350 EFPD, THIS IS LEVEL 7 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9478	* 1.2809	* 1.3666	* 1.6536	* 1.5647	* 1.6354	* 1.4416	* .7604
	* 2.0932	* 1.5570	* 1.4649	* 1.2180	* 1.2872	* 1.2334	* 1.3955	* 2.6271
9	* 1.2809	* 1.4876	* 1.3602	* 1.5048	* 1.6708	* 1.4641	* 1.5262	* .9350
	* 1.5570	* 1.3462	* 1.4722	* 1.3361	* 1.2068	* 1.3743	* 1.3198	* 2.1404
10	* 1.3666	* 1.3591	* 1.4673	* 1.6772	* 1.5358	* 1.3709	* 1.4983	* .7422
	* 1.4649	* 1.4732	* 1.3695	* 1.2024	* 1.3109	* 1.4657	* 1.3438	* 2.6929
11	* 1.6536	* 1.5058	* 1.6740	* 1.5626	* 1.6611	* 1.4180	* 1.3912	* .7111
	* 1.2180	* 1.3353	* 1.2043	* 1.2900	* 1.2149	* 1.4207	* 1.4461	* 2.8072
12	* 1.5647	* 1.6729	* 1.5358	* 1.6579	* 1.5487	* 1.5465	* .9446	
	* 1.2872	* 1.2050	* 1.3115	* 1.2168	* 1.3028	* 1.3037	* 2.1231	
13	* 1.6354	* 1.4651	* 1.3709	* 1.4169	* 1.5465	* 1.4244	* .7754	
	* 1.2334	* 1.3735	* 1.4657	* 1.4207	* 1.3037	* 1.4139	* 2.5783	
14	* 1.4416	* 1.5262	* 1.4983	* 1.3902	* .9446	* .7754		
	* 1.3955	* 1.3198	* 1.3438	* 1.4461	* 2.1231	* 2.5783		
15	* .7604	* .9361	* .7422	* .7111	* F-SUB-Q			
	* 2.6271	* 2.1387	* 2.6956	* 2.8076	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 100% POWER, 350 EFPD, THIS IS LEVEL 6 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9510	* 1.2884	* 1.3752	* 1.6654	* 1.5765	* 1.6472	* 1.4533	* .7636
	* 2.0093	* 1.4903	* 1.4009	* 1.1626	* 1.2286	* 1.1765	* 1.3320	* 2.5197
9	* 1.2884	* 1.4973	* 1.3687	* 1.5155	* 1.6836	* 1.4748	* 1.5380	* .9403
	* 1.4903	* 1.2870	* 1.4083	* 1.2765	* 1.1513	* 1.3127	* 1.2596	* 2.0492
10	* 1.3752	* 1.3677	* 1.4769	* 1.6900	* 1.5476	* 1.3805	* 1.5101	* .7465
	* 1.4009	* 1.4092	* 1.3083	* 1.1468	* 1.2514	* 1.4008	* 1.2822	* 2.5802
11	* 1.6654	* 1.5165	* 1.6868	* 1.5744	* 1.6729	* 1.4287	* 1.4019	* .7144
	* 1.1626	* 1.2758	* 1.1490	* 1.2311	* 1.1592	* 1.3557	* 1.3805	* 2.6922
12	* 1.5765	* 1.6858	* 1.5465	* 1.6697	* 1.5615	* 1.5594	* .9500	*
	* 1.2286	* 1.1501	* 1.2521	* 1.1614	* 1.2422	* 1.2436	* 2.0315	*
13	* 1.6472	* 1.4748	* 1.3805	* 1.4287	* 1.5594	* 1.4362	* .7797	*
	* 1.1765	* 1.3120	* 1.4008	* 1.3557	* 1.2436	* 1.3489	* 2.4696	*
14	* 1.4533	* 1.5380	* 1.5101	* 1.4019	* .9500	* .7797	*	*
	* 1.3320	* 1.2595	* 1.2821	* 1.3805	* 2.0315	* 2.4696	*	*
15	* .7636	* .9414	* .7454	* .7144	* F-SUB-Q			
	* 2.5197	* 2.0476	* 2.5830	* 2.6950	* M-SUB-Q			

AT 100% POWER, 350 EFPD, THIS IS LEVEL 5 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9382	* 1.2745	* 1.3602	* 1.6354	* 1.5583	* 1.6172	* 1.4341	* .7529
	* 1.9737	* 1.4600	* 1.3709	* 1.1454	* 1.2025	* 1.1594	* 1.3072	* 2.4763
9	* 1.2745	* 1.4705	* 1.3548	* 1.4983	* 1.6526	* 1.4576	* 1.5112	* .9275
	* 1.4600	* 1.2692	* 1.3772	* 1.2496	* 1.1339	* 1.2850	* 1.2405	* 2.0124
10	* 1.3602	* 1.3537	* 1.4598	* 1.6600	* 1.5305	* 1.3666	* 1.4876	* .7326
	* 1.3709	* 1.3780	* 1.2808	* 1.1290	* 1.2243	* 1.3693	* 1.2604	* 2.5459
11	* 1.6354	* 1.4994	* 1.6568	* 1.5562	* 1.6429	* 1.4137	* 1.3805	* .7058
	* 1.1454	* 1.2490	* 1.1311	* 1.2044	* 1.1415	* 1.3254	* 1.3568	* 2.6427
12	* 1.5583	* 1.6547	* 1.5305	* 1.6408	* 1.5455	* 1.5358	* .9403	*
	* 1.2025	* 1.1327	* 1.2244	* 1.1432	* 1.2143	* 1.2219	* 1.9868	*
13	* 1.6172	* 1.4587	* 1.3666	* 1.4137	* 1.5347	* 1.4148	* .7711	*
	* 1.1594	* 1.2843	* 1.3693	* 1.3255	* 1.2219	* 1.3255	* 2.4208	*
14	* 1.4341	* 1.5123	* 1.4876	* 1.3805	* .9403	* .7711	*	*
	* 1.3072	* 1.2399	* 1.2598	* 1.3568	* 1.9868	* 2.4205	*	*
15	* .7529	* .9286	* .7326	* .7058	* F-SUB-Q			
	* 2.4763	* 2.0106	* 2.5485	* 2.6427	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 100% POWER, 350 EFPD, THIS IS LEVEL 4 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9296	* 1.2638	* 1.3484	* 1.6129	* 1.5433	* 1.5936	* 1.4223	* .7465
	* 1.9424	* 1.4342	* 1.3474	* 1.1296	* 1.1816	* 1.1450	* 1.2831	* 2.4392
9	* 1.2638	* 1.4533	* 1.3441	* 1.4823	* 1.6311	* 1.4426	* 1.4951	* .9178
	* 1.4342	* 1.2505	* 1.3520	* 1.2289	* 1.1184	* 1.2645	* 1.2208	* 1.9846
10	* 1.3484	* 1.3430	* 1.4448	* 1.6386	* 1.5176	* 1.3559	* 1.4748	* .7251
	* 1.3474	* 1.3528	* 1.2604	* 1.1126	* 1.2020	* 1.3443	* 1.2375	* 2.5094
11	* 1.6129	* 1.4833	* 1.6354	* 1.5422	* 1.6247	* 1.4052	* 1.3698	* .6983
	* 1.1296	* 1.2283	* 1.1152	* 1.1827	* 1.1237	* 1.2986	* 1.3323	* 2.6034
12	* 1.5433	* 1.6333	* 1.5165	* 1.6215	* 1.5347	* 1.5219	* .9339	*
	* 1.1816	* 1.1168	* 1.2026	* 1.1254	* 1.1893	* 1.1997	* 1.9517	*
13	* 1.5936	* 1.4437	* 1.3559	* 1.4052	* 1.5219	* 1.4041	* .7647	*
	* 1.1450	* 1.2638	* 1.3443	* 1.2992	* 1.2003	* 1.3008	* 2.3829	*
14	* 1.4223	* 1.4951	* 1.4748	* 1.3698	* .9339	* .7647	*	*
	* 1.2831	* 1.2208	* 1.2375	* 1.3330	* 1.9517	* 2.3829	*	*
15	* .7465	* .9178	* .7251	* .6983	* F-SUB-Q			
	* 2.4392	* 1.9829	* 2.5119	* 2.6060	* M-SUB-Q			

AT 100% POWER, 350 EFPD, THIS IS LEVEL 3 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .8761	* 1.1867	* 1.2649	* 1.4919	* 1.4437	* 1.4737	* 1.3323	* .7015
	* 2.0229	* 1.4984	* 1.4074	* 1.1966	* 1.2372	* 1.2131	* 1.3419	* 2.5455
9	* 1.1867	* 1.3505	* 1.2627	* 1.3869	* 1.5090	* 1.3484	* 1.3902	* .8568
	* 1.4984	* 1.3194	* 1.4108	* 1.2863	* 1.1839	* 1.3253	* 1.2865	* 2.0871
10	* 1.2649	* 1.2616	* 1.3505	* 1.5176	* 1.4244	* 1.2723	* 1.3677	* .6790
	* 1.4074	* 1.4116	* 1.3209	* 1.1769	* 1.2543	* 1.4041	* 1.3078	* 2.6304
11	* 1.4919	* 1.3880	* 1.5144	* 1.4437	* 1.5069	* 1.3184	* 1.2723	* .6565
	* 1.1966	* 1.2856	* 1.1792	* 1.2372	* 1.1863	* 1.3558	* 1.4058	* 2.7243
12	* 1.4437	* 1.5101	* 1.4234	* 1.5048	* 1.4416	* 1.4137	* .8804	*
	* 1.2372	* 1.1822	* 1.2549	* 1.1881	* 1.2405	* 1.2658	* 2.0298	*
13	* 1.4737	* 1.3495	* 1.2723	* 1.3184	* 1.4137	* 1.3066	* .7186	*
	* 1.2131	* 1.3246	* 1.4041	* 1.3565	* 1.2658	* 1.3707	* 2.4892	*
14	* 1.3323	* 1.3902	* 1.3677	* 1.2723	* .8804	* .7186	*	*
	* 1.3419	* 1.2865	* 1.3078	* 1.4058	* 2.0298	* 2.4892	*	*
15	* .7015	* .8568	* .6790	* .6555	* F-SUB-Q			
	* 2.5455	* 2.0852	* 2.6333	* 2.7245	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 100% POWER, 350 EFPD, THIS IS LEVEL 2 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .7486 *	* .9928 *	* 1.0571 *	* 1.2745 *	* 1.2070 *	* 1.2606 *	* 1.1245 *	* .5965 *
	* 2.3397 *	* 1.7653 *	* 1.6611 *	* 1.3784 *	* 1.4564 *	* 1.3963 *	* 1.5665 *	* 2.9568 *
9	* .9928 *	* 1.1460 *	* 1.0549 *	* 1.1588 *	* 1.2831 *	* 1.1235 *	* 1.1706 *	* .7133 *
	* 1.7653 *	* 1.5300 *	* 1.6645 *	* 1.5162 *	* 1.3704 *	* 1.5654 *	* 1.5057 *	* 2.4744 *
10	* 1.0571 *	* 1.0539 *	* 1.1256 *	* 1.2916 *	* 1.2027 *	* 1.0614 *	* 1.1320 *	* .5751 *
	* 1.6611 *	* 1.6657 *	* 1.5602 *	* 1.3609 *	* 1.4618 *	* 1.6598 *	* 1.5582 *	* 3.0683 *
11	* 1.2745 *	* 1.1599 *	* 1.2895 *	* 1.2081 *	* 1.2831 *	* 1.1042 *	* 1.0517 *	* .5558 *
	* 1.3784 *	* 1.5161 *	* 1.3640 *	* 1.4546 *	* 1.3712 *	* 1.5960 *	* 1.6764 *	* 3.1751 *
12	* 1.2070 *	* 1.2852 *	* 1.2027 *	* 1.2809 *	* 1.2167 *	* 1.1910 *		* .7518 *
	* 1.4564 *	* 1.3688 *	* 1.4627 *	* 1.3735 *	* 1.4484 *	* 1.4811 *		* 2.3466 *
13	* 1.2606 *	* 1.1245 *	* 1.0614 *	* 1.1031 *	* 1.1899 *	* 1.0764 *		* .6083 *
	* 1.3963 *	* 1.5653 *	* 1.6598 *	* 1.5960 *	* 1.4811 *	* 1.6404 *		* 2.8990 *
14	* 1.1245 *	* 1.1706 *	* 1.1320 *	* 1.0517 *	* .7518 *	* .6083 *		
	* 1.5665 *	* 1.5057 *	* 1.5582 *	* 1.6776 *	* 2.3466 *	* 2.8990 *		
15	* .5965 *	* .7133 *	* .5741 *	* .5558 *	F-SUB-Q			
	* 2.9568 *	* 2.4718 *	* 3.0683 *	* 3.1751 *	M-SUB-Q			

AT 100% POWER, 350 EFPD, THIS IS LEVEL 1 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .5323 *	* .4584 *	* .5012 *	* .5869 *	* .5558 *	* .5805 *	* .5194 *	* .4241 *
	* 3.2548 *	* 3.7854 *	* 3.4642 *	* 2.9574 *	* 3.1255 *	* 2.9987 *	* 3.3512 *	* 4.1223 *
9	* .4584 *	* .5259 *	* .4873 *	* .5409 *	* .5923 *	* .5344 *	* .5152 *	* .3491 *
	* 3.7854 *	* 3.2955 *	* 3.5637 *	* 3.2106 *	* 2.9355 *	* 3.2544 *	* 3.3802 *	* 5.0024 *
10	* .5012 *	* .4873 *	* .5398 *	* .5965 *	* .5558 *	* .4937 *	* .4969 *	* .4209 *
	* 3.4642 *	* 3.5686 *	* 3.2147 *	* 2.9137 *	* 3.1255 *	* 3.5262 *	* 3.5104 *	* 4.1509 *
11	* .5869 *	* .5409 *	* .5955 *	* .5580 *	* .5923 *	* .5119 *	* .4584 *	* .2913 *
	* 2.9574 *	* 3.2103 *	* 2.9176 *	* 3.1134 *	* 2.9355 *	* 3.4043 *	* 3.8100 *	* 6.0050 *
12	* .5558 *	* .5923 *	* .5558 *	* .5912 *	* .5644 *	* .5248 *		* .3952 *
	* 3.1255 *	* 2.9319 *	* 3.1255 *	* 2.9392 *	* 3.0807 *	* 3.3184 *		* 4.4144 *
13	* .5805 *	* .5344 *	* .4927 *	* .5109 *	* .5248 *	* .4734 *		* .3074 *
	* 2.9987 *	* 3.2503 *	* 3.5310 *	* 3.4043 *	* 3.3184 *	* 3.6854 *		* 5.6885 *
14	* .5194 *	* .5152 *	* .4969 *	* .4584 *	* .3952 *	* .3074 *		
	* 3.3512 *	* 3.3802 *	* 3.5104 *	* 3.8100 *	* 4.4144 *	* 5.6885 *		
15	* .4241 *	* .3491 *	* .4209 *	* .2913 *	F-SUB-Q			
	* 4.1223 *	* 5.0024 *	* 4.1509 *	* 6.0050 *	M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 100% POWER, 475 EFPD, THIS IS LEVEL 24 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	.6929	.6383	.6822	.7347	.7315	.7229	.6715	.6094
	2.4207	2.8775	2.6762	2.3897	2.4613	2.4057	2.6504	2.8935
9	.6383	.6854	.6801	.7154	.7379	.7004	.6544	.4969
	2.8775	2.6561	2.7058	2.5348	2.3818	2.5641	2.6492	3.5615
10	.6822	.6790	.7079	.7347	.7251	.6662	.6394	.5890
	2.6762	2.7058	2.6349	2.4529	2.5556	2.7601	2.7765	3.0416
11	.7347	.7165	.7347	.7272	.7165	.6587	.5955	.4263
	2.3897	2.5348	2.4529	2.5141	2.3971	2.6823	3.0048	4.3305
12	.7315	.7379	.7251	.7165	.6480	.6094	.5344	
	2.4613	2.3792	2.5556	2.3971	2.4280	2.5962	3.3190	
13	.7229	.7015	.6662	.6587	.6094	.5591	.4263	
	2.4057	2.5614	2.7604	2.6823	2.5962	2.8200	4.0504	
14	.6715	.6555	.6394	.5955	.5344	.4263		
	2.6504	2.6492	2.7765	3.0048	3.3190	4.0504		
15	.6094	.4980	.5890	.4263	F-SUB-Q			
	2.8935	3.5610	3.0416	4.3305	M-SUB-Q			

AT 100% POWER, 475 EFPD, THIS IS LEVEL 23 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	.8611	1.1706	1.2295	1.2809	1.3227	1.2638	1.2070	.7379
	2.0049	1.6192	1.5254	1.3981	1.3908	1.4036	1.5057	2.4425
9	1.1706	1.2209	1.2370	1.2938	1.2884	1.2670	1.2209	.8793
	1.6192	1.5229	1.5182	1.4321	1.3911	1.4517	1.4538	2.0580
10	1.2295	1.2370	1.2745	1.2884	1.3055	1.2284	1.2081	.6961
	1.5254	1.5182	1.4899	1.4338	1.4519	1.5405	1.4996	2.6304
11	1.2809	1.2948	1.2884	1.3205	1.2638	1.2199	1.1406	.7058
	1.3981	1.4312	1.4338	1.4232	1.4107	1.5060	1.5980	2.6691
12	1.3227	1.2895	1.3055	1.2627	1.2070	1.1749	.8793	
	1.3908	1.3901	1.4519	1.4107	1.3858	1.4317	2.0790	
13	1.2638	1.2670	1.2284	1.2199	1.1749	1.1031	.7326	
	1.4036	1.4507	1.5405	1.5065	1.4317	1.5302	2.4383	
14	1.2070	1.2209	1.2081	1.1406	.8793	.7326		
	1.5057	1.4538	1.4995	1.5980	2.0790	2.4383		
15	.7379	.8793	.6961	.7058	F-SUB-Q			
	2.4425	2.0561	2.6304	2.6691	M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 100% POWER, 475 EFPD, THIS IS LEVEL 22 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.0132	* 1.2927	* 1.3570	* 1.4726	* 1.4705	* 1.4544	* 1.3537	* .8193
	* 1.8874	* 1.5017	* 1.4036	* 1.2307	* 1.2697	* 1.2341	* 1.3616	* 2.2306
9	* 1.2927	* 1.3902	* 1.3591	* 1.4362	* 1.4801	* 1.4116	* 1.3944	* .9832
	* 1.5017	* 1.3591	* 1.4028	* 1.3092	* 1.2252	* 1.3214	* 1.2855	* 1.8659
10	* 1.3570	* 1.3591	* 1.4148	* 1.4844	* 1.4512	* 1.3634	* 1.3848	* .7786
	* 1.4036	* 1.4028	* 1.3644	* 1.2639	* 1.3272	* 1.4100	* 1.3259	* 2.3830
11	* 1.4726	* 1.4373	* 1.4833	* 1.4705	* 1.4716	* 1.3666	* 1.3098	* .7797
	* 1.2307	* 1.3084	* 1.2640	* 1.3078	* 1.2457	* 1.3779	* 1.4144	* 2.4593
12	* 1.4705	* 1.4823	* 1.4512	* 1.4716	* 1.4405	* 1.3987	* .9810	*
	* 1.2697	* 1.2238	* 1.3272	* 1.2457	* 1.2868	* 1.2770	* 1.9121	*
13	* 1.4544	* 1.4126	* 1.3634	* 1.3666	* 1.3987	* 1.2970	* .8236	*
	* 1.2341	* 1.3206	* 1.4100	* 1.3779	* 1.2770	* 1.3656	* 2.2342	*
14	* 1.3537	* 1.3955	* 1.3848	* 1.3098	* .9810	* .8236	*	*
	* 1.3616	* 1.2855	* 1.3250	* 1.4144	* 1.9121	* 2.2342	*	*
15	* .8193	* .9842	* .7786	* .7786	F-SUB-Q			
	* 2.2306	* 1.8644	* 2.3830	* 2.4593	M-SUB-Q			

AT 100% POWER, 475 EFPD, THIS IS LEVEL 21 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.0485	* 1.3313	* 1.3977	* 1.5733	* 1.5305	* 1.5626	* 1.4223	* .8504
	* 1.8773	* 1.4888	* 1.3814	* 1.1655	* 1.2358	* 1.1617	* 1.3121	* 2.1776
9	* 1.3313	* 1.4662	* 1.3955	* 1.4898	* 1.5840	* 1.4683	* 1.4876	* 1.0249
	* 1.4888	* 1.3054	* 1.3849	* 1.2787	* 1.1586	* 1.2860	* 1.2183	* 1.8158
10	* 1.3977	* 1.3955	* 1.4662	* 1.5894	* 1.5112	* 1.4094	* 1.4705	* .8161
	* 1.3814	* 1.3857	* 1.3358	* 1.1977	* 1.2936	* 1.3833	* 1.2630	* 2.3073
11	* 1.5733	* 1.4908	* 1.5883	* 1.5326	* 1.5829	* 1.4276	* 1.3923	* .8065
	* 1.1655	* 1.2779	* 1.1977	* 1.2808	* 1.1822	* 1.3475	* 1.3523	* 2.4116
12	* 1.5305	* 1.5851	* 1.5112	* 1.5819	* 1.5197	* 1.5058	* 1.0228	*
	* 1.2358	* 1.1574	* 1.2936	* 1.1825	* 1.2594	* 1.2215	* 1.8784	*
13	* 1.5626	* 1.4694	* 1.4094	* 1.4276	* 1.5058	* 1.3966	* .8622	*
	* 1.1617	* 1.2852	* 1.3833	* 1.3479	* 1.2215	* 1.3074	* 2.1935	*
14	* 1.4223	* 1.4876	* 1.4705	* 1.3923	* 1.0228	* .8622	*	*
	* 1.3121	* 1.2183	* 1.2624	* 1.3523	* 1.8784	* 2.1935	*	*
15	* .8504	* 1.0260	* .8161	* .8065	F-SUB-Q			
	* 2.1776	* 1.8143	* 2.3073	* 2.4116	M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 100% POWER, 475 EFPD, THIS IS LEVEL 20 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.0260	* 1.3013	* 1.3677	* 1.5690	* 1.5069	* 1.5626	* 1.4094	* .8365
	* 1.9655	* 1.5517	* 1.4340	* 1.1838	* 1.2729	* 1.1762	* 1.3431	* 2.2477
9	* 1.3013	* 1.4523	* 1.3645	* 1.4651	* 1.5808	* 1.4459	* 1.4855	* 1.0110
	* 1.5517	* 1.3367	* 1.4395	* 1.3204	* 1.1756	* 1.3243	* 1.2346	* 1.8709
10	* 1.3677	* 1.3645	* 1.4405	* 1.5883	* 1.4876	* 1.3837	* 1.4641	* .8054
	* 1.4340	* 1.4396	* 1.3810	* 1.2170	* 1.3338	* 1.4307	* 1.2842	* 2.3726
11	* 1.5690	* 1.4662	* 1.5862	* 1.5090	* 1.5829	* 1.4116	* 1.3869	* .7915
	* 1.1838	* 1.3197	* 1.2176	* 1.3260	* 1.2047	* 1.3946	* 1.3823	* 2.4959
12	* 1.5069	* 1.5829	* 1.4876	* 1.5819	* 1.5058	* 1.5080	* 1.0078	*
	* 1.2729	* 1.1743	* 1.3339	* 1.2047	* 1.3032	* 1.2479	* 1.9505	*
13	* 1.5626	* 1.4469	* 1.3837	* 1.4116	* 1.5080	* 1.3987	* .8504	*
	* 1.1762	* 1.3235	* 1.4306	* 1.3946	* 1.2479	* 1.3377	* 2.2816	*
14	* 1.4094	* 1.4855	* 1.4641	* 1.3869	* 1.0078	* .8504	*	*
	* 1.3431	* 1.2340	* 1.2842	* 1.3823	* 1.9505	* 2.2816	*	*
15	* .8365	* 1.0110	* .8054	* .7915	F-SUB-Q			
	* 2.2477	* 1.8708	* 2.3726	* 2.4959	M-SUB-Q			

AT 100% POWER, 475 EFPD, THIS IS LEVEL 19 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9950	* 1.2627	* 1.3259	* 1.5358	* 1.4662	* 1.5326	* 1.3773	* .8140
	* 2.0518	* 1.6185	* 1.5034	* 1.2272	* 1.3306	* 1.2170	* 1.3975	* 2.3497
9	* 1.2627	* 1.4169	* 1.3227	* 1.4255	* 1.5487	* 1.4073	* 1.4566	* .9832
	* 1.6185	* 1.3824	* 1.5104	* 1.3805	* 1.2177	* 1.3831	* 1.2773	* 1.9563
10	* 1.3259	* 1.3227	* 1.3998	* 1.5551	* 1.4480	* 1.3441	* 1.4330	* .7872
	* 1.5034	* 1.5104	* 1.4447	* 1.2589	* 1.3935	* 1.4968	* 1.3301	* 2.4668
11	* 1.5358	* 1.4255	* 1.5540	* 1.4683	* 1.5508	* 1.3762	* 1.3580	* .7690
	* 1.2272	* 1.3798	* 1.2603	* 1.3839	* 1.2523	* 1.4633	* 1.4308	* 2.6081
12	* 1.4662	* 1.5497	* 1.4480	* 1.5508	* 1.4683	* 1.4791	* .9810	*
	* 1.3306	* 1.2164	* 1.3935	* 1.2529	* 1.3687	* 1.3030	* 2.0492	*
13	* 1.5326	* 1.4084	* 1.3441	* 1.3752	* 1.4791	* 1.3720	* .8290	*
	* 1.2170	* 1.3823	* 1.4968	* 1.4633	* 1.3030	* 1.3985	* 2.4072	*
14	* 1.3773	* 1.4566	* 1.4330	* 1.3570	* .9810	* .8290	*	*
	* 1.3975	* 1.2773	* 1.3301	* 1.4308	* 2.0492	* 2.4072	*	*
15	* .8140	* .9842	* .7872	* .7690	F-SUB-Q			
	* 2.3497	* 1.9563	* 2.4695	* 2.6081	M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 100% POWER, 475 EFPD, THIS IS LEVEL 18 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9746	* 1.2413	* 1.3034	* 1.5187	* 1.4448	* 1.5165	* 1.3602	* .8011
	* 2.1212	* 1.6553	* 1.5591	* 1.2629	* 1.3775	* 1.2515	* 1.4426	* 2.4356
9	* 1.2413	* 1.3977	* 1.2991	* 1.4030	* 1.5315	* 1.3859	* 1.4426	* .9693
	* 1.6553	* 1.4076	* 1.5666	* 1.4299	* 1.2529	* 1.4318	* 1.3120	* 2.0267
10	* 1.3034	* 1.2991	* 1.3773	* 1.5369	* 1.4255	* 1.3216	* 1.4169	* .7765
	* 1.5591	* 1.5666	* 1.4860	* 1.2814	* 1.4324	* 1.5427	* 1.3657	* 2.5524
11	* 1.5187	* 1.4030	* 1.5358	* 1.4448	* 1.5337	* 1.3559	* 1.3420	* .7572
	* 1.2629	* 1.4290	* 1.2824	* 1.4198	* 1.2858	* 1.5100	* 1.4601	* 2.6752
12	* 1.4448	* 1.5337	* 1.4255	* 1.5337	* 1.4469	* 1.4630	* .9660	*
	* 1.3775	* 1.2515	* 1.4324	* 1.2860	* 1.4131	* 1.3377	* 2.1180	*
13	* 1.5165	* 1.3869	* 1.3216	* 1.3559	* 1.4630	* 1.3570	* .8161	*
	* 1.2515	* 1.4317	* 1.5420	* 1.5108	* 1.3377	* 1.4395	* 2.4898	*
14	* 1.3602	* 1.4426	* 1.4169	* 1.3420	* .9660	* .8161	*	*
	* 1.4426	* 1.3119	* 1.3657	* 1.4601	* 2.1180	* 2.4898	*	*
15	* .8011	* .9693	* .7754	* .7572	* F-SUB-Q			
	* 2.4356	* 2.0265	* 2.5524	* 2.6752	* M-SUB-Q			

AT 100% POWER, 475 EFPD, THIS IS LEVEL 17 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9510	* 1.2156	* 1.2766	* 1.5005	* 1.4180	* 1.4994	* 1.3398	* .7850
	* 2.1964	* 1.7143	* 1.6195	* 1.3121	* 1.4356	* 1.3000	* 1.4984	* 2.5458
9	* 1.2156	* 1.3784	* 1.2713	* 1.3762	* 1.5123	* 1.3602	* 1.4255	* .9489
	* 1.7143	* 1.4542	* 1.6276	* 1.4894	* 1.3014	* 1.4925	* 1.3622	* 2.1178
10	* 1.2766	* 1.2713	* 1.3495	* 1.5165	* 1.3987	* 1.2938	* 1.3987	* .7615
	* 1.6195	* 1.6288	* 1.5400	* 1.3203	* 1.4825	* 1.6006	* 1.4115	* 2.6578
11	* 1.5005	* 1.3762	* 1.5155	* 1.4180	* 1.5133	* 1.3302	* 1.3238	* .7401
	* 1.3121	* 1.4885	* 1.3214	* 1.4657	* 1.3235	* 1.5610	* 1.5021	* 2.7783
12	* 1.4180	* 1.5144	* 1.3987	* 1.5133	* 1.4212	* 1.4437	* .9457	*
	* 1.4356	* 1.2999	* 1.4828	* 1.3248	* 1.4625	* 1.3853	* 2.1912	*
13	* 1.4994	* 1.3602	* 1.2938	* 1.3302	* 1.4437	* 1.3398	* .7990	*
	* 1.3000	* 1.4925	* 1.6006	* 1.5610	* 1.3858	* 1.4949	* 2.5936	*
14	* 1.3398	* 1.4255	* 1.3987	* 1.3238	* .9457	* .7990	*	*
	* 1.4984	* 1.3622	* 1.4115	* 1.5021	* 2.1912	* 2.5936	*	*
15	* .7850	* .9489	* .7604	* .7401	* F-SUB-Q			
	* 2.5458	* 2.1160	* 2.6578	* 2.7783	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 100% POWER, 475 EFPD, THIS IS LEVEL 16 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9414	* 1.2049	* 1.2649	* 1.4930	* 1.4073	* 1.4930	* 1.3323	* .7775
	* 2.2715	* 1.7723	* 1.6717	* 1.3643	* 1.4853	* 1.3523	* 1.5481	* 2.6401
9	* 1.2049	* 1.3709	* 1.2595	* 1.3645	* 1.5058	* 1.3484	* 1.4191	* .9403
	* 1.7723	* 1.5049	* 1.6811	* 1.5397	* 1.3530	* 1.5448	* 1.4153	* 2.1928
10	* 1.2649	* 1.2584	* 1.3377	* 1.5090	* 1.3880	* 1.2809	* 1.3923	* .7561
	* 1.6717	* 1.6815	* 1.5862	* 1.3683	* 1.5233	* 1.6486	* 1.4592	* 2.7434
11	* 1.4930	* 1.3655	* 1.5069	* 1.4062	* 1.5048	* 1.3195	* 1.3163	* .7326
	* 1.3643	* 1.5395	* 1.3700	* 1.5113	* 1.3697	* 1.6047	* 1.5565	* 2.8593
12	* 1.4073	* 1.5069	* 1.3880	* 1.5048	* 1.4105	* 1.4362		* .9371
	* 1.4853	* 1.3513	* 1.5241	* 1.3705	* 1.5020	* 1.4306		* 2.2549
13	* 1.4930	* 1.3495	* 1.2809	* 1.3195	* 1.4362	* 1.3323		* .7915
	* 1.3523	* 1.5448	* 1.6486	* 1.6055	* 1.4306	* 1.5417		* 2.6634
14	* 1.3323	* 1.4201	* 1.3923	* 1.3163	* .9371	* .7915		
	* 1.5481	* 1.4152	* 1.4592	* 1.5565	* 2.2549	* 2.6634		
15	* .7775	* .9403	* .7561	* .7326	* F-SUB-Q			
	* 2.6401	* 2.1926	* 2.7434	* 2.8593	* M-SUB-Q			

AT 100% POWER, 475 EFPD, THIS IS LEVEL 15 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9211	* 1.1835	* 1.2424	* 1.4683	* 1.3848	* 1.4673	* 1.3109	* .7626
	* 2.3850	* 1.8469	* 1.7514	* 1.4431	* 1.5579	* 1.4325	* 1.6257	* 2.7787
9	* 1.1835	* 1.3462	* 1.2359	* 1.3420	* 1.4801	* 1.3259	* 1.3955	* .9232
	* 1.8469	* 1.5861	* 1.7621	* 1.6146	* 1.4302	* 1.6231	* 1.4985	* 2.3031
10	* 1.2424	* 1.2359	* 1.3141	* 1.4823	* 1.3645	* 1.2574	* 1.3677	* .7401
	* 1.7514	* 1.7621	* 1.6587	* 1.4408	* 1.5924	* 1.7249	* 1.5385	* 2.8857
11	* 1.4683	* 1.3430	* 1.4812	* 1.3827	* 1.4780	* 1.2959	* 1.2916	* .7197
	* 1.4431	* 1.6135	* 1.4427	* 1.5796	* 1.4477	* 1.6829	* 1.6422	* 2.9824
12	* 1.3848	* 1.4812	* 1.3645	* 1.4780	* 1.3869	* 1.4105		* .9200
	* 1.5579	* 1.4288	* 1.5924	* 1.4486	* 1.5735	* 1.5105		* 2.3627
13	* 1.4673	* 1.3270	* 1.2574	* 1.2959	* 1.4105	* 1.3077		* .7765
	* 1.4325	* 1.6220	* 1.7249	* 1.6829	* 1.5112	* 1.6290		* 2.7889
14	* 1.3109	* 1.3955	* 1.3677	* 1.2916	* .9200	* .7765		
	* 1.6257	* 1.4985	* 1.5385	* 1.6422	* 2.3627	* 2.7889		
15	* .7626	* .9232	* .7390	* .7197	* F-SUB-Q			
	* 2.7787	* 2.3008	* 2.8860	* 2.9824	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 100% POWER, 475 EFPD, THIS IS LEVEL 14 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9264	* 1.1888	* 1.2466	* 1.4865	* 1.3944	* 1.4865	* 1.3238	* .7658
	* 2.4448	* 1.9007	* 1.8094	* 1.4918	* 1.6094	* 1.4807	* 1.6734	* 2.8694
9	* 1.1888	* 1.3623	* 1.2391	* 1.3484	* 1.4983	* 1.3313	* 1.4126	* .9264
	* 1.9007	* 1.6371	* 1.8218	* 1.6691	* 1.4787	* 1.6778	* 1.5484	* 2.3763
10	* 1.2466	* 1.2391	* 1.3195	* 1.4994	* 1.3720	* 1.2606	* 1.3837	* .7454
	* 1.8094	* 1.8221	* 1.7127	* 1.4848	* 1.6408	* 1.7800	* 1.5879	* 2.9608
11	* 1.4865	* 1.3484	* 1.4973	* 1.3902	* 1.4951	* 1.3023	* 1.3045	* .7208
	* 1.4918	* 1.6682	* 1.4872	* 1.6248	* 1.4918	* 1.7313	* 1.6883	* 3.0725
12	* 1.3944	* 1.4994	* 1.3720	* 1.4940	* 1.3944	* 1.4255	* .9221	*
	* 1.6094	* 1.4768	* 1.6408	* 1.4928	* 1.6206	* 1.5615	* 2.4321	*
13	* 1.4865	* 1.3323	* 1.2606	* 1.3013	* 1.4255	* 1.3216	* .7786	*
	* 1.4807	* 1.6766	* 1.7800	* 1.7313	* 1.5615	* 1.6843	* 2.8812	*
14	* 1.3238	* 1.4137	* 1.3837	* 1.3045	* .9221	* .7786	*	*
	* 1.6734	* 1.5474	* 1.5879	* 1.6883	* 2.4321	* 2.8812	*	*
15	* .7658	* .9264	* .7454	* .7208	* F-SUB-Q			
	* 2.8694	* 2.3741	* 2.9642	* 3.0725	* M-SUB-Q			

AT 100% POWER, 475 EFPD, THIS IS LEVEL 13 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9232	* 1.1867	* 1.2434	* 1.4908	* 1.3934	* 1.4908	* 1.3248	* .7647
	* 2.5540	* 1.9826	* 1.8905	* 1.5660	* 1.6803	* 1.5539	* 1.7448	* 2.9950
9	* 1.1867	* 1.3634	* 1.2359	* 1.3462	* 1.5015	* 1.3291	* 1.4159	* .9243
	* 1.9826	* 1.7167	* 1.9044	* 1.7427	* 1.5517	* 1.7522	* 1.6234	* 2.4765
10	* 1.2434	* 1.2349	* 1.3163	* 1.5026	* 1.3698	* 1.2563	* 1.3848	* .7433
	* 1.8905	* 1.9044	* 1.7879	* 1.5573	* 1.7121	* 1.8601	* 1.6639	* 3.0856
11	* 1.4908	* 1.3473	* 1.5005	* 1.3880	* 1.4962	* 1.2991	* 1.3045	* .7186
	* 1.5660	* 1.7414	* 1.5593	* 1.6947	* 1.5604	* 1.7986	* 1.7658	* 3.2005
12	* 1.3934	* 1.5037	* 1.3698	* 1.4962	* 1.3923	* 1.4255	* .9189	*
	* 1.6803	* 1.5505	* 1.7121	* 1.5614	* 1.6828	* 1.6286	* 2.5245	*
13	* 1.4908	* 1.3302	* 1.2563	* 1.2991	* 1.4255	* 1.3216	* .7754	*
	* 1.5539	* 1.7510	* 1.8601	* 1.7986	* 1.6286	* 1.7555	* 2.9823	*
14	* 1.3248	* 1.4159	* 1.3848	* 1.3045	* .9189	* .7754	*	*
	* 1.7448	* 1.6234	* 1.6639	* 1.7658	* 2.5245	* 2.9823	*	*
15	* .7647	* .9243	* .7433	* .7186	* F-SUB-Q			
	* 2.9950	* 2.4765	* 3.0856	* 3.2005	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 100% POWER, 475 EFPD, THIS IS LEVEL 12 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9157	* 1.1792	* 1.2349	* 1.4812	* 1.3848	* 1.4812	* 1.3163	* .7583
	* 2.6133	* 2.0406	* 1.9540	* 1.6388	* 1.7513	* 1.6331	* 1.8262	* 3.1415
9	* 1.1792	* 1.3548	* 1.2263	* 1.3377	* 1.4930	* 1.3205	* 1.4073	* .9178
	* 2.0406	* 1.7832	* 1.9687	* 1.8121	* 1.6263	* 1.8305	* 1.7079	* 2.5959
10	* 1.2349	* 1.2263	* 1.3066	* 1.4930	* 1.3612	* 1.2466	* 1.3752	* .7379
	* 1.9540	* 1.9704	* 1.8551	* 1.6297	* 1.7832	* 1.9426	* 1.7487	* 3.2324
11	* 1.4812	* 1.3388	* 1.4908	* 1.3784	* 1.4855	* 1.2895	* 1.2948	* .7133
	* 1.6388	* 1.8107	* 1.6319	* 1.7631	* 1.6365	* 1.8789	* 1.8566	* 3.3477
12	* 1.3848	* 1.4940	* 1.3612	* 1.4855	* 1.3827	* 1.4148	* .9125	*
	* 1.7513	* 1.6252	* 1.7832	* 1.6376	* 1.7565	* 1.7092	* 2.6368	*
13	* 1.4812	* 1.3216	* 1.2466	* 1.2895	* 1.4148	* 1.3109	* .7700	*
	* 1.6331	* 1.8305	* 1.9426	* 1.8789	* 1.7092	* 1.8420	* 3.1165	*
14	* 1.3163	* 1.4073	* 1.3752	* 1.2948	* .9125	* .7700	*	*
	* 1.8262	* 1.7079	* 1.7487	* 1.8566	* 2.6368	* 3.1165	*	*
15	* .7583	* .9178	* .7379	* .7133	* F-SUB-Q			
	* 3.1415	* 2.5959	* 3.2324	* 3.3477	* M-SUB-Q			

AT 100% POWER, 475 EFPD, THIS IS LEVEL 11 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9275	* 1.1952	* 1.2520	* 1.5080	* 1.4052	* 1.5101	* 1.3398	* .7700
	* 2.4979	* 1.9491	* 1.8684	* 1.5614	* 1.6738	* 1.5603	* 1.7513	* 3.0202
9	* 1.1952	* 1.3784	* 1.2424	* 1.3559	* 1.5197	* 1.3388	* 1.4330	* .9307
	* 1.9491	* 1.6968	* 1.8834	* 1.7319	* 1.5521	* 1.7552	* 1.6376	* 2.4992
10	* 1.2520	* 1.2424	* 1.3238	* 1.5176	* 1.3794	* 1.2616	* 1.3998	* .7486
	* 1.8684	* 1.8834	* 1.7738	* 1.5562	* 1.7067	* 1.8610	* 1.6786	* 3.1082
11	* 1.5080	* 1.3570	* 1.5155	* 1.3977	* 1.5101	* 1.3066	* 1.3173	* .7229
	* 1.5614	* 1.7319	* 1.5582	* 1.6871	* 1.5655	* 1.8052	* 1.7832	* 3.2191
12	* 1.4052	* 1.5208	* 1.3794	* 1.5101	* 1.4009	* 1.4384	* .9243	*
	* 1.6738	* 1.5500	* 1.7067	* 1.5676	* 1.6871	* 1.6434	* 2.5370	*
13	* 1.5101	* 1.3398	* 1.2616	* 1.3066	* 1.4384	* 1.3334	* .7797	*
	* 1.5603	* 1.7539	* 1.8610	* 1.8052	* 1.6434	* 1.7711	* 3.0009	*
14	* 1.3398	* 1.4341	* 1.3998	* 1.3173	* .9243	* .7797	*	*
	* 1.7513	* 1.6376	* 1.6786	* 1.7832	* 2.5370	* 3.0009	*	*
15	* .7700	* .9318	* .7486	* .7219	* F-SUB-Q			
	* 3.0202	* 2.4992	* 3.1082	* 3.2191	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 100% POWER, 475 EFPD, THIS IS LEVEL 10 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9296	* 1.2038	* 1.2584	* 1.5240	* 1.4159	* 1.5262	* 1.3537	* .7743
	* 2.3949	* 1.8619	* 1.7875	* 1.4887	* 1.6014	* 1.4877	* 1.6722	* 2.8903
9	* 1.2038	* 1.3934	* 1.2488	* 1.3645	* 1.5358	* 1.3473	* 1.4501	* .9371
	* 1.8619	* 1.6169	* 1.8040	* 1.6580	* 1.4798	* 1.6800	* 1.5620	* 2.3912
10	* 1.2584	* 1.2477	* 1.3323	* 1.5326	* 1.3891	* 1.2670	* 1.4137	* .7529
	* 1.7875	* 1.8040	* 1.6982	* 1.4835	* 1.6332	* 1.7834	* 1.6004	* 2.9727
11	* 1.5240	* 1.3655	* 1.5305	* 1.4062	* 1.5251	* 1.3152	* 1.3302	* .7261
	* 1.4887	* 1.6580	* 1.4859	* 1.6141	* 1.4929	* 1.7250	* 1.6988	* 3.0760
12	* 1.4159	* 1.5369	* 1.3880	* 1.5240	* 1.4105	* 1.4523	* .9296	*
	* 1.6014	* 1.4784	* 1.6332	* 1.4939	* 1.6124	* 1.5651	* 2.4220	*
13	* 1.5262	* 1.3484	* 1.2681	* 1.3152	* 1.4523	* 1.3462	* .7840	*
	* 1.4877	* 1.6800	* 1.7834	* 1.7250	* 1.5651	* 1.6854	* 2.8621	*
14	* 1.3537	* 1.4501	* 1.4137	* 1.3302	* .9296	* .7840	*	*
	* 1.6722	* 1.5615	* 1.6004	* 1.6988	* 2.4220	* 2.8621	*	*
15	* .7743	* .9371	* .7529	* .7261	* F-SUB-Q			
	* 2.8903	* 2.3900	* 2.9746	* 3.0780	* M-SUB-Q			

AT 100% POWER, 475 EFPD, THIS IS LEVEL 9 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9350	* 1.2113	* 1.2659	* 1.5369	* 1.4244	* 1.5390	* 1.3645	* .7786
	* 2.2967	* 1.7856	* 1.7139	* 1.4234	* 1.5341	* 1.4221	* 1.6000	* 2.7729
9	* 1.2113	* 1.4041	* 1.2552	* 1.3730	* 1.5476	* 1.3559	* 1.4619	* .9425
	* 1.7856	* 1.5473	* 1.7297	* 1.5892	* 1.4148	* 1.6104	* 1.4936	* 2.2922
10	* 1.2659	* 1.2552	* 1.3388	* 1.5444	* 1.3966	* 1.2734	* 1.4244	* .7583
	* 1.7139	* 1.7310	* 1.6283	* 1.4182	* 1.5643	* 1.7102	* 1.5311	* 2.8468
11	* 1.5369	* 1.3741	* 1.5422	* 1.4148	* 1.5358	* 1.3227	* 1.3398	* .7304
	* 1.4234	* 1.5881	* 1.4204	* 1.5462	* 1.4273	* 1.6524	* 1.6255	* 2.9525
12	* 1.4244	* 1.5497	* 1.3966	* 1.5347	* 1.4180	* 1.4630	* .9350	*
	* 1.5341	* 1.4131	* 1.5648	* 1.4281	* 1.5437	* 1.4955	* 2.3205	*
13	* 1.5390	* 1.3559	* 1.2734	* 1.3216	* 1.4630	* 1.3559	* .7883	*
	* 1.4221	* 1.6099	* 1.7102	* 1.6524	* 1.4960	* 1.6110	* 2.7437	*
14	* 1.3645	* 1.4619	* 1.4255	* 1.3398	* .9350	* .7883	*	*
	* 1.6000	* 1.4931	* 1.5311	* 1.6255	* 2.3205	* 2.7437	*	*
15	* .7786	* .9436	* .7583	* .7294	* F-SUB-Q			
	* 2.7729	* 2.2922	* 2.8486	* 2.9525	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 100% POWER, 475 EFPD, THIS IS LEVEL 8 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9393	* 1.2188	* 1.2734	* 1.5444	* 1.4330	* 1.5465	* 1.3709	* .7818
	* 2.2146	* 1.7166	* 1.6485	* 1.3696	* 1.4745	* 1.3684	* 1.5388	* 2.6691
9	* 1.2188	* 1.4094	* 1.2616	* 1.3816	* 1.5551	* 1.3645	* 1.4683	* .9478
	* 1.7166	* 1.4904	* 1.6637	* 1.5273	* 1.3612	* 1.5469	* 1.4371	* 2.2042
10	* 1.2734	* 1.2616	* 1.3473	* 1.5508	* 1.4052	* 1.2809	* 1.4309	* .7604
	* 1.6485	* 1.6643	* 1.5644	* 1.3644	* 1.5038	* 1.6439	* 1.4731	* 2.7456
11	* 1.5444	* 1.3816	* 1.5487	* 1.4223	* 1.5422	* 1.3291	* 1.3452	* .7336
	* 1.3696	* 1.5263	* 1.3668	* 1.4862	* 1.3736	* 1.5877	* 1.5644	* 2.8385
12	* 1.4330	* 1.5562	* 1.4041	* 1.5412	* 1.4266	* 1.4683	* .9393	*
	* 1.4745	* 1.3596	* 1.5038	* 1.3740	* 1.4829	* 1.4388	* 2.2314	*
13	* 1.5465	* 1.3645	* 1.2809	* 1.3291	* 1.4683	* 1.3602	* .7925	*
	* 1.3684	* 1.5464	* 1.6439	* 1.5877	* 1.4388	* 1.5505	* 2.6361	*
14	* 1.3709	* 1.4683	* 1.4309	* 1.3452	* .9393	* .7925	*	*
	* 1.5388	* 1.4366	* 1.4727	* 1.5644	* 2.2303	* 2.6361	*	*
15	* .7818	* .9489	* .7604	* .7336	* F-SUB-Q			
	* 2.6691	* 2.2032	* 2.7472	* 2.8385	* M-SUB-Q			

AT 100% POWER, 475 EFPD, THIS IS LEVEL 7 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9607	* 1.2466	* 1.3023	* 1.5894	* 1.4683	* 1.5926	* 1.4105	* .8011
	* 2.0979	* 1.6256	* 1.5609	* 1.2868	* 1.3930	* 1.2866	* 1.4496	* 2.5271
9	* 1.2466	* 1.4512	* 1.2906	* 1.4137	* 1.6001	* 1.3955	* 1.5133	* .9714
	* 1.6256	* 1.4019	* 1.5756	* 1.4440	* 1.2791	* 1.4644	* 1.3512	* 2.0877
10	* 1.3023	* 1.2895	* 1.3773	* 1.5969	* 1.4384	* 1.3088	* 1.4737	* .7808
	* 1.5609	* 1.5767	* 1.4801	* 1.2826	* 1.4215	* 1.5588	* 1.3867	* 2.5941
11	* 1.5894	* 1.4148	* 1.5936	* 1.4566	* 1.5872	* 1.3623	* 1.3848	* .7508
	* 1.2868	* 1.4438	* 1.2845	* 1.4045	* 1.2914	* 1.5015	* 1.4728	* 2.6938
12	* 1.4683	* 1.6022	* 1.4384	* 1.5862	* 1.4619	* 1.5112	* .9618	*
	* 1.3930	* 1.2777	* 1.4215	* 1.2928	* 1.4020	* 1.3543	* 2.1150	*
13	* 1.5926	* 1.3966	* 1.3088	* 1.3612	* 1.5112	* 1.4009	* .8107	*
	* 1.2866	* 1.4644	* 1.5588	* 1.5015	* 1.3543	* 1.4591	* 2.4989	*
14	* 1.4105	* 1.5144	* 1.4737	* 1.3848	* .9618	* .8107	*	*
	* 1.4496	* 1.3512	* 1.3867	* 1.4728	* 2.1150	* 2.4989	*	*
15	* .8011	* .9725	* .7808	* .7508	* F-SUB-Q			
	* 2.5271	* 2.0868	* 2.5956	* 2.6938	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 100% POWER, 475 EFPD, THIS IS LEVEL 6 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9757	* 1.2681	* 1.3238	* 1.6183	* 1.4940	* 1.6226	* 1.4373	* .8140
	* 1.9810	* 1.5324	* 1.4714	* 1.2107	* 1.3114	* 1.2101	* 1.3647	* 2.3937
9	* 1.2681	* 1.4769	* 1.3109	* 1.4373	* 1.6301	* 1.4201	* 1.5422	* .9885
	* 1.5324	* 1.3198	* 1.4861	* 1.3609	* 1.2033	* 1.3791	* 1.2723	* 1.9752
10	* 1.3238	* 1.3109	* 1.4009	* 1.6258	* 1.4630	* 1.3313	* 1.5015	* .7947
	* 1.4714	* 1.4870	* 1.3945	* 1.2064	* 1.3386	* 1.4693	* 1.3072	* 2.4558
11	* 1.6183	* 1.4384	* 1.6236	* 1.4823	* 1.6172	* 1.3869	* 1.4105	* .7626
	* 1.2107	* 1.3601	* 1.2082	* 1.3223	* 1.2143	* 1.4141	* 1.3896	* 2.5556
12	* 1.4940	* 1.6322	* 1.4630	* 1.6161	* 1.4887	* 1.5401	* .9778	*
	* 1.3114	* 1.2020	* 1.3386	* 1.2150	* 1.3186	* 1.2750	* 1.9997	*
13	* 1.6226	* 1.4212	* 1.3313	* 1.3859	* 1.5401	* 1.4276	* .8247	*
	* 1.2101	* 1.3789	* 1.4693	* 1.4141	* 1.2750	* 1.3751	* 2.3676	*
14	* 1.4373	* 1.5422	* 1.5015	* 1.4105	* .9778	* .8247	*	*
	* 1.3647	* 1.2722	* 1.3066	* 1.3896	* 1.9984	* 2.3676	*	*
15	* .8140	* .9885	* .7936	* .7626	* F-SUB-Q			
	* 2.3937	* 1.9749	* 2.4578	* 2.5556	* M-SUB-Q			

AT 100% POWER, 475 EFPD, THIS IS LEVEL 5 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9778	* 1.2745	* 1.3313	* 1.6194	* 1.5015	* 1.6215	* 1.4405	* .8161
	* 1.9101	* 1.4711	* 1.4117	* 1.1660	* 1.2581	* 1.1665	* 1.3122	* 2.3063
9	* 1.2745	* 1.4780	* 1.3195	* 1.4448	* 1.6311	* 1.4276	* 1.5422	* .9928
	* 1.4711	* 1.2721	* 1.4253	* 1.3049	* 1.1581	* 1.3230	* 1.2265	* 1.8990
10	* 1.3313	* 1.3184	* 1.4084	* 1.6279	* 1.4716	* 1.3388	* 1.5048	* .7936
	* 1.4117	* 1.4261	* 1.3379	* 1.1608	* 1.2833	* 1.4090	* 1.2576	* 2.3724
11	* 1.6194	* 1.4459	* 1.6258	* 1.4898	* 1.6204	* 1.3955	* 1.4126	* .7668
	* 1.1660	* 1.3044	* 1.1626	* 1.2682	* 1.1676	* 1.3546	* 1.3375	* 2.4557
12	* 1.5015	* 1.6333	* 1.4705	* 1.6194	* 1.4983	* 1.5444	* .9832	*
	* 1.2581	* 1.1570	* 1.2838	* 1.1682	* 1.2627	* 1.2252	* 1.9173	*
13	* 1.6215	* 1.4287	* 1.3398	* 1.3955	* 1.5444	* 1.4298	* .8279	*
	* 1.1665	* 1.3223	* 1.4083	* 1.3548	* 1.2252	* 1.3232	* 2.2750	*
14	* 1.4405	* 1.5433	* 1.5048	* 1.4126	* .9832	* .8279	*	*
	* 1.3122	* 1.2260	* 1.2576	* 1.3373	* 1.9173	* 2.2750	*	*
15	* .8161	* .9928	* .7936	* .7668	* F-SUB-Q			
	* 2.3063	* 1.8978	* 2.3724	* 2.4557	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 100% POWER, 475 EFPD, THIS IS LEVEL 4 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9907	* 1.2927	* 1.3495	* 1.6354	* 1.5208	* 1.6386	* 1.4619	* .8268
	* 1.8330	* 1.4094	* 1.3527	* 1.1196	* 1.2046	* 1.1195	* 1.2546	* 2.2137
9	* 1.2927	* 1.4983	* 1.3377	* 1.4630	* 1.6483	* 1.4448	* 1.5626	* 1.0046
	* 1.4094	* 1.2190	* 1.3651	* 1.2507	* 1.1117	* 1.2679	* 1.1751	* 1.8241
10	* 1.3495	* 1.3366	* 1.4255	* 1.6483	* 1.4908	* 1.3580	* 1.5262	* .8032
	* 1.3527	* 1.3659	* 1.2830	* 1.1121	* 1.2286	* 1.3488	* 1.2029	* 2.2772
11	* 1.6354	* 1.4641	* 1.6451	* 1.5101	* 1.6429	* 1.4180	* 1.4341	* .7765
	* 1.1196	* 1.2501	* 1.1141	* 1.2132	* 1.1173	* 1.2940	* 1.2796	* 2.3580
12	* 1.5208	* 1.6504	* 1.4908	* 1.6418	* 1.5219	* 1.5690	* .9982	
	* 1.2046	* 1.1106	* 1.2288	* 1.1179	* 1.2058	* 1.1705	* 1.8352	
13	* 1.6386	* 1.4459	* 1.3580	* 1.4180	* 1.5690	* 1.4512	* .8397	
	* 1.1195	* 1.2679	* 1.3488	* 1.2940	* 1.1705	* 1.2653	* 2.1817	
14	* 1.4619	* 1.5626	* 1.5262	* 1.4341	* .9982	* .8397		
	* 1.2546	* 1.1746	* 1.2029	* 1.2795	* 1.8352	* 2.1801		
15	* .8268	* 1.0046	* .8032	* .7754	* F-SUB-Q			
	* 2.2137	* 1.8227	* 2.2794	* 2.3580	* M-SUB-Q			

AT 100% POWER, 475 EFPD, THIS IS LEVEL 3 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9596	* 1.2509	* 1.3045	* 1.5594	* 1.4662	* 1.5615	* 1.4126	* .7990
	* 1.8523	* 1.4240	* 1.3678	* 1.1469	* 1.2210	* 1.1474	* 1.2697	* 2.2418
9	* 1.2509	* 1.4373	* 1.2948	* 1.4105	* 1.5712	* 1.3912	* 1.4940	* .9650
	* 1.4240	* 1.2415	* 1.3787	* 1.2683	* 1.1392	* 1.2868	* 1.2003	* 1.8575
10	* 1.3045	* 1.2938	* 1.3720	* 1.5733	* 1.4437	* 1.3130	* 1.4662	* .7754
	* 1.3678	* 1.3795	* 1.3022	* 1.1376	* 1.2401	* 1.3636	* 1.2237	* 2.3110
11	* 1.5594	* 1.4105	* 1.5701	* 1.4576	* 1.5712	* 1.3730	* 1.3784	* .7508
	* 1.1469	* 1.2676	* 1.1398	* 1.2280	* 1.1402	* 1.3064	* 1.3022	* 2.3890
12	* 1.4662	* 1.5733	* 1.4437	* 1.5701	* 1.4737	* 1.5048	* .9682	
	* 1.2210	* 1.1376	* 1.2401	* 1.1409	* 1.2167	* 1.1925	* 1.8520	
13	* 1.5615	* 1.3923	* 1.3130	* 1.3720	* 1.5048	* 1.3934	* .8118	
	* 1.1474	* 1.2866	* 1.3636	* 1.3064	* 1.1925	* 1.2889	* 2.2086	
14	* 1.4126	* 1.4951	* 1.4662	* 1.3784	* .9682	* .8118		
	* 1.2697	* 1.1998	* 1.2237	* 1.3022	* 1.8520	* 2.2086		
15	* .7990	* .9650	* .7754	* .7497	* F-SUB-Q			
	* 2.2418	* 1.8563	* 2.3110	* 2.3890	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 100% POWER, 475 EFPD, THIS IS LEVEL 2 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .8493	* 1.0935	* 1.1395	* 1.3495	* 1.2788	* 1.3527	* 1.2445	* .7026
	* 2.0613	* 1.6036	* 1.5405	* 1.3022	* 1.3753	* 1.3014	* 1.4167	* 2.5090
9	* 1.0935	* 1.2456	* 1.1331	* 1.2295	* 1.3580	* 1.2113	* 1.2948	* .8332
	* 1.6036	* 1.4086	* 1.5505	* 1.4294	* 1.2944	* 1.4537	* 1.3620	* 2.1188
10	* 1.1395	* 1.1331	* 1.1963	* 1.3602	* 1.2723	* 1.1492	* 1.2584	* .6801
	* 1.5405	* 1.5507	* 1.4689	* 1.2923	* 1.3824	* 1.5335	* 1.4018	* 2.5960
11	* 1.3495	* 1.2306	* 1.3580	* 1.2734	* 1.3602	* 1.2006	* 1.1845	* .6597
	* 1.3022	* 1.4286	* 1.2944	* 1.3816	* 1.2944	* 1.4678	* 1.4907	* 2.6746
12	* 1.2788	* 1.3602	* 1.2723	* 1.3591	* 1.2991	* 1.3034	* .8579	*
	* 1.3753	* 1.2930	* 1.3826	* 1.2951	* 1.3565	* 1.3542	* 2.0555	*
13	* 1.3527	* 1.2124	* 1.1492	* 1.2006	* 1.3034	* 1.1995	* .7154	*
	* 1.3014	* 1.4528	* 1.5335	* 1.4678	* 1.3542	* 1.4722	* 2.4679	*
14	* 1.2445	* 1.2948	* 1.2584	* 1.1845	* .8579	* .7154	*	*
	* 1.4167	* 1.3620	* 1.4018	* 1.4907	* 2.0555	* 2.4679	*	*
15	* .7026	* .8332	* .6790	* .6597	F-SUB-Q			
	* 2.5090	* 2.1173	* 2.5966	* 2.6746	M-SUB-Q			

AT 100% POWER, 475 EFPD, THIS IS LEVEL 1 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .6383	* .5516	* .5901	* .6747	* .6480	* .6758	* .6276	* .5323
	* 2.7130	* 3.1380	* 2.9352	* 2.5679	* 2.6790	* 2.5701	* 2.7692	* 3.2788
9	* .5516	* .6212	* .5719	* .6276	* .6801	* .6265	* .6212	* .4423
	* 3.1380	* 2.7890	* 3.0312	* 2.7627	* 2.5490	* 2.7725	* 2.8016	* 3.9417
10	* .5901	* .5719	* .6244	* .6822	* .6469	* .5837	* .6030	* .5280
	* 2.9352	* 3.0312	* 2.7784	* 2.5428	* 2.6796	* 2.9791	* 2.8854	* 3.3019
11	* .6747	* .6287	* .6812	* .6480	* .6812	* .6094	* .5633	* .3748
	* 2.5679	* 2.7595	* 2.5462	* 2.6790	* 2.5462	* 2.8511	* 3.0934	* 4.6530
12	* .6480	* .6812	* .6469	* .6812	* .6608	* .6265	* .4905	*
	* 2.6790	* 2.5483	* 2.6820	* 2.5483	* 2.6293	* 2.7758	* 3.5512	*
13	* .6758	* .6265	* .5826	* .6094	* .6265	* .5751	* .3909	*
	* 2.5701	* 2.7718	* 2.9820	* 2.8546	* 2.7758	* 3.0312	* 4.4623	*
14	* .6276	* .6212	* .6030	* .5633	* .4905	* .3909	*	*
	* 2.7692	* 2.8016	* 2.8854	* 3.0934	* 3.5512	* 4.4623	*	*
15	* .5323	* .4423	* .5280	* .3748	F-SUB-Q			
	* 3.2788	* 3.9417	* 3.3019	* 4.6530	M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 75% POWER, 4 EFPD, THIS IS LEVEL 24 OF 24
 (LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .4263 *	* .3952 *	* .4091 *	* .4177 *	* .3791 *	* .3663 *	* .3352 *	* .3106 *
	* 3.3651 *	* 4.2569 *	* 4.1134 *	* 3.9042 *	* 4.3934 *	* 4.3831 *	* 4.9138 *	* 5.2515 *
9	* .3952 *	* .4273 *	* .4123 *	* .3973 *	* .3866 *	* .3631 *	* .3395 *	* .2431 *
	* 4.2569 *	* 3.8456 *	* 4.1076 *	* 4.2333 *	* 4.1818 *	* 4.5661 *	* 4.7202 *	* 6.7069 *
10	* .4091 *	* .4113 *	* .4027 *	* .3973 *	* .3706 *	* .3502 *	* .3342 *	* .2988 *
	* 4.1134 *	* 4.1076 *	* 4.1966 *	* 4.0909 *	* 4.5024 *	* 4.7608 *	* 4.7924 *	* 5.4794 *
11	* .4177 *	* .3973 *	* .3973 *	* .3641 *	* .3342 *	* .3224 *	* .2977 *	* .1992 *
	* 3.9042 *	* 4.2333 *	* 4.0968 *	* 4.5950 *	* 4.4939 *	* 4.9015 *	* 5.3055 *	* 8.1805 *
12	* .3791 *	* .3877 *	* .3706 *	* .3352 *	* .2677 *	* .2560 *	* .2485 *	
	* 4.3934 *	* 4.1756 *	* 4.5024 *	* 4.4939 *	* 4.7275 *	* 4.7540 *	* 5.8858 *	
13	* .3663 *	* .3641 *	* .3502 *	* .3224 *	* .2560 *	* .2217 *	* .1714 *	
	* 4.3831 *	* 4.5590 *	* 4.7530 *	* 4.9015 *	* 4.7540 *	* 5.2508 *	* 7.7488 *	
14	* .3352 *	* .3395 *	* .3352 *	* .2977 *	* .2485 *	* .1714 *		
	* 4.9138 *	* 4.7202 *	* 4.7924 *	* 5.3055 *	* 5.8858 *	* 7.7488 *		
15	* .3106 *	* .2431 *	* .2988 *	* .1992 *	F-SUB-Q			
	* 5.2515 *	* 6.6914 *	* 5.4691 *	* 8.1805 *	M-SUB-Q			

AT 75% POWER, 4 EFPD, THIS IS LEVEL 23 OF 24
 (LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .5762 *	* .9307 *	* .9864 *	* .8268 *	* .8557 *	* .7004 *	* .7711 *	* .4434 *
	* 2.3580 *	* 1.8514 *	* 1.7849 *	* 2.0537 *	* 2.0303 *	* 2.3933 *	* 2.2233 *	* 3.8217 *
9	* .9307 *	* .8525 *	* .9864 *	* .9457 *	* .7443 *	* .8461 *	* .7486 *	* .5312 *
	* 1.8514 *	* 1.9987 *	* 1.7784 *	* 1.8504 *	* 2.2545 *	* 2.0431 *	* 2.2297 *	* 3.1917 *
10	* .9864 *	* .9864 *	* .9735 *	* .7979 *	* .8654 *	* .8589 *	* .7540 *	* .4027 *
	* 1.7849 *	* 1.7784 *	* 1.8014 *	* 2.1244 *	* 2.0025 *	* 2.0121 *	* 2.2105 *	* 4.2067 *
11	* .8268 *	* .9457 *	* .7968 *	* .8011 *	* .6865 *	* .7733 *	* .7069 *	* .4081 *
	* 2.0537 *	* 1.8492 *	* 2.1260 *	* 2.1517 *	* 2.3307 *	* 2.0935 *	* 2.2752 *	* 4.1470 *
12	* .8557 *	* .7443 *	* .8654 *	* .6865 *	* .5623 *	* .5944 *	* .5066 *	
	* 2.0303 *	* 2.2545 *	* 2.0011 *	* 2.3307 *	* 2.1128 *	* 2.2307 *	* 2.9972 *	
13	* .7004 *	* .8472 *	* .8589 *	* .7743 *	* .5944 *	* .5419 *	* .3674 *	
	* 2.3933 *	* 2.0416 *	* 2.0107 *	* 2.0935 *	* 2.2307 *	* 2.2655 *	* 3.7491 *	
14	* .7711 *	* .7497 *	* .7551 *	* .7069 *	* .5066 *	* .3674 *		
	* 2.2233 *	* 2.2279 *	* 2.2105 *	* 2.2748 *	* 2.9950 *	* 3.7491 *		
15	* .4434 *	* .5323 *	* .4027 *	* .4081 *	F-SUB-Q			
	* 3.8217 *	* 3.1848 *	* 4.2067 *	* 4.1470 *	M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 75% POWER, 4 EFPD, THIS IS LEVEL 22 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .7144	* 1.1738	* 1.2499	* 1.0603	* 1.0721	* .8954	* .9842	* .5537
	* 1.9749	* 1.5121	* 1.4491	* 1.6471	* 1.6694	* 1.9267	* 1.7990	* 3.1613
9	* 1.1738	* 1.0924	* 1.2477	* 1.1942	* .9628	* 1.0839	* .9832	* .6779
	* 1.5121	* 1.6027	* 1.4470	* 1.5085	* 1.7933	* 1.6415	* 1.7428	* 2.5795
10	* 1.2499	* 1.2477	* 1.2338	* 1.0228	* 1.1063	* 1.1053	* .9971	* .5087
	* 1.4491	* 1.4470	* 1.4635	* 1.7053	* 1.6118	* 1.6092	* 1.7187	* 3.4303
11	* 1.0603	* 1.1942	* 1.0217	* 1.0067	* .8954	* 1.0003	* .9446	* .5162
	* 1.6471	* 1.5085	* 1.7084	* 1.7644	* 1.8437	* 1.6710	* 1.7553	* 3.3947
12	* 1.0721	* .9639	* 1.1074	* .8954	* .7197	* .7915	* .6469	*
	* 1.6694	* 1.7922	* 1.6109	* 1.8437	* 1.6900	* 1.7346	* 2.4292	*
13	* .8954	* 1.0839	* 1.1063	* 1.0003	* .7915	* .7358	* .4755	*
	* 1.9267	* 1.6406	* 1.6092	* 1.6710	* 1.7346	* 1.7330	* 3.0089	*
14	* .9842	* .9832	* .9971	* .9446	* .6469	* .4755	*	*
	* 1.7990	* 1.7428	* 1.7176	* 1.7545	* 2.4292	* 3.0066	*	*
15	* .5537	* .6790	* .5087	* .5162	* F-SUB-Q			
	* 3.1613	* 2.5750	* 3.4303	* 3.3947	* M-SUB-Q			

AT 75% POWER, 4 EFPD, THIS IS LEVEL 21 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .8129	* 1.3484	* 1.4351	* 1.2391	* 1.2445	* 1.0571	* 1.1567	* .6340
	* 1.8173	* 1.3680	* 1.3040	* 1.4540	* 1.4858	* 1.6713	* 1.5759	* 2.8460
9	* 1.3484	* 1.2745	* 1.4319	* 1.3773	* 1.1406	* 1.2659	* 1.1781	* .7904
	* 1.3680	* 1.4187	* 1.3029	* 1.3510	* 1.5644	* 1.4530	* 1.4997	* 2.2878
10	* 1.4351	* 1.4319	* 1.4169	* 1.1974	* 1.2970	* 1.2927	* 1.2017	* .5955
	* 1.3040	* 1.3029	* 1.3174	* 1.5052	* 1.4230	* 1.4258	* 1.4750	* 3.0387
11	* 1.2391	* 1.3773	* 1.1952	* 1.1749	* 1.0678	* 1.1845	* 1.1438	* .6030
	* 1.4540	* 1.3510	* 1.5076	* 1.5717	* 1.6054	* 1.4728	* 1.5080	* 3.0201
12	* 1.2445	* 1.1406	* 1.2981	* 1.0678	* .8579	* .9618	* .7647	*
	* 1.4858	* 1.5636	* 1.4230	* 1.6054	* 1.4814	* 1.4857	* 2.1544	*
13	* 1.0571	* 1.2659	* 1.2927	* 1.1845	* .9618	* .9136	* .5676	*
	* 1.6713	* 1.4523	* 1.4251	* 1.4733	* 1.4857	* 1.4717	* 2.6620	*
14	* 1.1567	* 1.1792	* 1.2017	* 1.1438	* .7647	* .5676	*	*
	* 1.5759	* 1.4989	* 1.4742	* 1.5080	* 2.1544	* 2.6620	*	*
15	* .6340	* .7915	* .5955	* .6030	* F-SUB-Q			
	* 2.8460	* 2.2843	* 3.0418	* 3.0201	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 75% POWER, 4 EFPD, THIS IS LEVEL 20 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .8654	* 1.4384	* 1.5262	* 1.3334	* 1.3388	* 1.1556	* 1.2563	* .6779
	* 1.8137	* 1.3488	* 1.2789	* 1.4058	* 1.4386	* 1.5891	* 1.5100	* 2.7742
9	* 1.4384	* 1.3720	* 1.5219	* 1.4694	* 1.2456	* 1.3677	* 1.2948	* .8514
	* 1.3488	* 1.3730	* 1.2767	* 1.3184	* 1.4958	* 1.4034	* 1.4204	* 2.2140
10	* 1.5262	* 1.5219	* 1.5090	* 1.2927	* 1.4094	* 1.3998	* 1.3270	* .6469
	* 1.2789	* 1.2767	* 1.2888	* 1.4527	* 1.3705	* 1.3769	* 1.3949	* 2.9324
11	* 1.3334	* 1.4694	* 1.2906	* 1.2756	* 1.1792	* 1.2991	* 1.2723	* .6555
	* 1.4058	* 1.3184	* 1.4549	* 1.5223	* 1.5321	* 1.4163	* 1.4272	* 2.9238
12	* 1.3388	* 1.2456	* 1.4094	* 1.1781	* .9607	* 1.0817	* .8429	*
	* 1.4386	* 1.4950	* 1.3705	* 1.5323	* 1.4176	* 1.4015	* 2.0787	*
13	* 1.1556	* 1.3687	* 1.3998	* 1.2991	* 1.0817	* 1.0474	* .6340	*
	* 1.5891	* 1.4028	* 1.3769	* 1.4165	* 1.4015	* 1.3822	* 2.5656	*
14	* 1.2563	* 1.2948	* 1.3270	* 1.2723	* .8429	* .6340	*	*
	* 1.5100	* 1.4197	* 1.3943	* 1.4272	* 2.0798	* 2.5650	*	*
15	* .6779	* .8525	* .6469	* .6555	* F-SUB-Q			
	* 2.7742	* 2.2107	* 2.9324	* 2.9238	* M-SUB-Q			

AT 75% POWER, 4 EFPD, THIS IS LEVEL 19 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9243	* 1.5048	* 1.5872	* 1.3912	* 1.3987	* 1.2199	* 1.3227	* .7079
	* 1.8549	* 1.3722	* 1.3023	* 1.4186	* 1.4502	* 1.5808	* 1.5077	* 2.7950
9	* 1.5048	* 1.4330	* 1.5787	* 1.5272	* 1.3173	* 1.4373	* 1.3720	* .8932
	* 1.3722	* 1.3873	* 1.2984	* 1.3371	* 1.4934	* 1.4067	* 1.4096	* 2.2269
10	* 1.5872	* 1.5787	* 1.5669	* 1.3527	* 1.4908	* 1.4769	* 1.4148	* .6844
	* 1.3023	* 1.2984	* 1.3103	* 1.4639	* 1.3738	* 1.3827	* 1.3827	* 2.9315
11	* 1.3912	* 1.5272	* 1.3505	* 1.3505	* 1.2670	* 1.3944	* 1.3720	* .6940
	* 1.4186	* 1.3371	* 1.4661	* 1.5269	* 1.5197	* 1.4119	* 1.4086	* 2.9372
12	* 1.3987	* 1.3173	* 1.4908	* 1.2670	* 1.0753	* 1.1942	* .9136	*
	* 1.4502	* 1.4934	* 1.3732	* 1.5205	* 1.4154	* 1.3880	* 2.0828	*
13	* 1.2199	* 1.4384	* 1.4769	* 1.3944	* 1.1942	* 1.1835	* .6972	*
	* 1.5808	* 1.4060	* 1.3821	* 1.4126	* 1.3885	* 1.3656	* 2.5729	*
14	* 1.3227	* 1.3730	* 1.4148	* 1.3720	* .9136	* .6972	*	*
	* 1.5077	* 1.4096	* 1.3827	* 1.4086	* 2.0828	* 2.5729	*	*
15	* .7079	* .8943	* .6844	* .6940	* F-SUB-Q			
	* 2.7950	* 2.2236	* 2.9315	* 2.9372	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 75% POWER, 4 EFPD, THIS IS LEVEL 18 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.0239	* 1.5862	* 1.6558	* 1.4469	* 1.4566	* 1.2788	* 1.3859	* .7379 *
	* 1.9111	* 1.3922	* 1.3405	* 1.4530	* 1.4811	* 1.5987	* 1.5267	* 2.8450 *
9	* 1.5862	* 1.4940	* 1.6408	* 1.5872	* 1.3859	* 1.5090	* 1.4480	* .9350 *
	* 1.3922	* 1.4231	* 1.3351	* 1.3721	* 1.5144	* 1.4286	* 1.4231	* 2.2615 *
10	* 1.6558	* 1.6397	* 1.6290	* 1.4105	* 1.5744	* 1.5583	* 1.4983	* .7186 *
	* 1.3405	* 1.3351	* 1.3470	* 1.4965	* 1.3936	* 1.4046	* 1.3938	* 2.9768 *
11	* 1.4469	* 1.5872	* 1.4073	* 1.4319	* 1.3612	* 1.5037	* 1.4737	* .7326 *
	* 1.4530	* 1.3721	* 1.4996	* 1.5339	* 1.5211	* 1.4178	* 1.4019	* 2.9826 *
12	* 1.4566	* 1.3859	* 1.5744	* 1.3602	* 1.2595	* 1.3409		* .9928 *
	* 1.4811	* 1.5144	* 1.3936	* 1.5219	* 1.4242	* 1.3891		* 2.0994 *
13	* 1.2788	* 1.5090	* 1.5594	* 1.5037	* 1.3409	* 1.3548		* .7711 *
	* 1.5987	* 1.4279	* 1.4046	* 1.4178	* 1.3897	* 1.3646		* 2.5911 *
14	* 1.3859	* 1.4480	* 1.4994	* 1.4737		* .9928		* .7711 *
	* 1.5267	* 1.4224	* 1.3938	* 1.4025		* 2.0994		* 2.5911 *
15	* .7379	* .9350	* .7186	* .7326				* F-SUB-Q
	* 2.8450	* 2.2598	* 2.9768	* 2.9826				* M-SUB-Q

AT 75% POWER, 4 EFPD, THIS IS LEVEL 17 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.1599	* 1.6343	* 1.6922	* 1.4791	* 1.4865	* 1.3163	* 1.4234	* .7529 *
	* 2.0118	* 1.4574	* 1.4051	* 1.5333	* 1.5515	* 1.6591	* 1.5830	* 2.9697 *
9	* 1.6343	* 1.5315	* 1.6740	* 1.6172	* 1.4330	* 1.5497	* 1.5005	* .9575 *
	* 1.4574	* 1.4969	* 1.4137	* 1.4488	* 1.5804	* 1.4885	* 1.4754	* 2.3555 *
10	* 1.6922	* 1.6740	* 1.6600	* 1.4459	* 1.6311	* 1.6129	* 1.5604	* .7401 *
	* 1.4051	* 1.4144	* 1.4263	* 1.5778	* 1.4380	* 1.4483	* 1.4419	* 3.0967 *
11	* 1.4791	* 1.6172	* 1.4437	* 1.4876	* 1.4351	* 1.5851	* 1.5540	* .7583 *
	* 1.5333	* 1.4488	* 1.5804	* 1.5844	* 1.5600	* 1.4525	* 1.4325	* 3.0707 *
12	* 1.4865	* 1.4330	* 1.6311	* 1.4341	* 1.4919	* 1.4855	* 1.0539	
	* 1.5515	* 1.5795	* 1.4380	* 1.5608	* 1.4708	* 1.4290	* 2.1546	
13	* 1.3163	* 1.5508	* 1.6129	* 1.5840	* 1.4855	* 1.5058		* .8290 *
	* 1.6591	* 1.4885	* 1.4483	* 1.4532	* 1.4290	* 1.4023		* 2.6795 *
14	* 1.4234	* 1.5015	* 1.5604	* 1.5540	* 1.0539			* .8290 *
	* 1.5830	* 1.4746	* 1.4419	* 1.4325	* 2.1546			* 2.6795 *
15	* .7529	* .9575	* .7401	* .7583				* F-SUB-Q
	* 2.9697	* 2.3537	* 3.0967	* 3.0707				* M-SUB-Q

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 75% POWER, 4 EFPD, THIS IS LEVEL 16 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.2049	* 1.6740	* 1.7265	* 1.5080	* 1.5176	* 1.3505	* 1.4598	* .7690
	* 2.1294	* 1.5198	* 1.4683	* 1.6268	* 1.6340	* 1.7503	* 1.6552	* 3.1166
9	* 1.6740	* 1.5637	* 1.7061	* 1.6472	* 1.4758	* 1.5915	* 1.5476	* .9800
	* 1.5198	* 1.5763	* 1.4848	* 1.5280	* 1.6515	* 1.5611	* 1.5554	* 2.4721
10	* 1.7265	* 1.7061	* 1.6911	* 1.4780	* 1.6858	* 1.6718	* 1.6161	* .7626
	* 1.4683	* 1.4848	* 1.4947	* 1.6627	* 1.4848	* 1.4962	* 1.4968	* 3.2406
11	* 1.5080	* 1.6472	* 1.4748	* 1.5369	* 1.4973	* 1.6568	* 1.6236	* .7829
	* 1.6268	* 1.5279	* 1.6655	* 1.6436	* 1.6323	* 1.5076	* 1.4918	* 3.1694
12	* 1.5176	* 1.4758	* 1.6847	* 1.4962	* 1.6097	* 1.6001	* 1.1085	
	* 1.6340	* 1.6515	* 1.4851	* 1.6332	* 1.5204	* 1.4855	* 2.2324	
13	* 1.3505	* 1.5915	* 1.6718	* 1.6568	* 1.6001	* 1.6215	* .8804	
	* 1.7503	* 1.5603	* 1.4964	* 1.5084	* 1.4855	* 1.4542	* 2.7683	
14	* 1.4598	* 1.5476	* 1.6161	* 1.6236	* 1.1074	* .8804		
	* 1.6552	* 1.5546	* 1.4968	* 1.4926	* 2.2324	* 2.7683		
15	* .7690	* .9810	* .7626	* .7829	* F-SUB-Q			
	* 3.1166	* 2.4701	* 3.2421	* 3.1726	* M-SUB-Q			

AT 75% POWER, 4 EFPD, THIS IS LEVEL 15 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.2006	* 1.6675	* 1.7190	* 1.5015	* 1.5133	* 1.3527	* 1.4630	* .7700
	* 2.2866	* 1.6349	* 1.5832	* 1.7677	* 1.7722	* 1.9037	* 1.7845	* 3.3589
9	* 1.6675	* 1.5572	* 1.6997	* 1.6397	* 1.4812	* 1.5969	* 1.5540	* .9821
	* 1.6349	* 1.7131	* 1.6001	* 1.6466	* 1.7791	* 1.6680	* 1.6793	* 2.6690
10	* 1.7190	* 1.6986	* 1.6847	* 1.4737	* 1.6997	* 1.6890	* 1.6290	* .7636
	* 1.5832	* 1.6009	* 1.6091	* 1.8022	* 1.5819	* 1.5892	* 1.6063	* 3.4729
11	* 1.5015	* 1.6397	* 1.4716	* 1.5455	* 1.5155	* 1.6815	* 1.6451	* .7893
	* 1.7677	* 1.6466	* 1.8055	* 1.7516	* 1.7418	* 1.5963	* 1.5923	* 3.3753
12	* 1.5133	* 1.4812	* 1.6986	* 1.5144	* 1.6536	* 1.6418	* 1.1288	
	* 1.7722	* 1.7791	* 1.5827	* 1.7428	* 1.6244	* 1.5999	* 2.3789	
13	* 1.3527	* 1.5979	* 1.6879	* 1.6804	* 1.6418	* 1.6665	* .9029	
	* 1.9037	* 1.6679	* 1.5892	* 1.5971	* 1.6007	* 1.5658	* 2.9555	
14	* 1.4630	* 1.5540	* 1.6290	* 1.6440	* 1.1288	* .9029		
	* 1.7845	* 1.6792	* 1.6063	* 1.5928	* 2.3789	* 2.9555		
15	* .7700	* .9821	* .7626	* .7883	* F-SUB-Q			
	* 3.3589	* 2.6667	* 3.4729	* 3.3767	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 75% POWER, 4 EFPD, THIS IS LEVEL 14 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.2134	* 1.6858	* 1.7372	* 1.5251	* 1.5380	* 1.3827	* 1.4951	* .7818
	* 2.4425	* 1.7481	* 1.6886	* 1.8932	* 1.8823	* 2.0340	* 1.8935	* 3.5875
9	* 1.6858	* 1.5808	* 1.7179	* 1.6611	* 1.5165	* 1.6290	* 1.5958	* .9992
	* 1.7481	* 1.8324	* 1.7071	* 1.7551	* 1.8885	* 1.7643	* 1.7776	* 2.8415
10	* 1.7372	* 1.7168	* 1.7050	* 1.5005	* 1.7447	* 1.7286	* 1.6783	* .7818
	* 1.6886	* 1.7079	* 1.7164	* 1.9252	* 1.6652	* 1.6770	* 1.6974	* 3.6537
11	* 1.5251	* 1.6611	* 1.4973	* 1.5797	* 1.5604	* 1.7286	* 1.7007	* .8065
	* 1.8932	* 1.7551	* 1.9288	* 1.8492	* 1.8411	* 1.6760	* 1.6759	* 3.5652
12	* 1.5380	* 1.5165	* 1.7425	* 1.5594	* 1.7115	* 1.7082	* 1.1620	*
	* 1.8823	* 1.8875	* 1.6661	* 1.8422	* 1.6955	* 1.6765	* 2.4943	*
13	* 1.3827	* 1.6290	* 1.7275	* 1.7275	* 1.7072	* 1.7404	* .9328	*
	* 2.0340	* 1.7643	* 1.6779	* 1.6770	* 1.6774	* 1.6404	* 3.1012	*
14	* 1.4951	* 1.5958	* 1.6783	* 1.6997	* 1.1620	* .9318	*	*
	* 1.8935	* 1.7776	* 1.6974	* 1.6768	* 2.4943	* 3.1012	*	*
15	* .7818	* 1.0003	* .7818	* .8065	* F-SUB-Q			
	* 3.5875	* 2.8389	* 3.6580	* 3.5652	* M-SUB-Q			

AT 75% POWER, 4 EFPD, THIS IS LEVEL 13 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.2049	* 1.6793	* 1.7307	* 1.5251	* 1.5412	* 1.3923	* 1.5048	* .7850
	* 2.6693	* 1.9019	* 1.8394	* 2.0723	* 2.0411	* 2.2114	* 2.0413	* 3.8796
9	* 1.6793	* 1.5808	* 1.7125	* 1.6590	* 1.5272	* 1.6386	* 1.6108	* 1.0035
	* 1.9019	* 2.0056	* 1.8591	* 1.9090	* 2.0494	* 1.9049	* 1.9255	* 3.0693
10	* 1.7307	* 1.7115	* 1.7007	* 1.5026	* 1.7607	* 1.7425	* 1.6975	* .7872
	* 1.8394	* 1.8591	* 1.8679	* 2.1030	* 1.7921	* 1.8068	* 1.8327	* 3.9379
11	* 1.5251	* 1.6590	* 1.4994	* 1.5915	* 1.5776	* 1.7479	* 1.7243	* .8129
	* 2.0723	* 1.9090	* 2.1073	* 1.9917	* 1.9934	* 1.8022	* 1.8104	* 3.8315
12	* 1.5412	* 1.5272	* 1.7586	* 1.5765	* 1.7382	* 1.7372	* 1.1760	*
	* 2.0411	* 2.0494	* 1.7932	* 1.9959	* 1.8140	* 1.8031	* 2.6757	*
13	* 1.3923	* 1.6386	* 1.7425	* 1.7468	* 1.7372	* 1.7746	* .9457	*
	* 2.2114	* 1.9049	* 1.8077	* 1.8028	* 1.8037	* 1.7596	* 3.3173	*
14	* 1.5048	* 1.6108	* 1.6975	* 1.7232	* 1.1760	* .9457	*	*
	* 2.0413	* 1.9255	* 1.8336	* 1.8115	* 2.6766	* 3.3173	*	*
15	* .7850	* 1.0035	* .7861	* .8118	* F-SUB-Q			
	* 3.8796	* 3.0662	* 3.9386	* 3.8322	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 75% POWER, 4 EFPD, THIS IS LEVEL 12 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.1877	* 1.6568	* 1.7093	* 1.5080	* 1.5272	* 1.3848	* 1.4973	* .7797 *
	* 2.7788	* 1.9955	* 1.9350	* 2.1927	* 2.1639	* 2.3831	* 2.2035	* 4.2226 *
9	* 1.6568	* 1.5615	* 1.6911	* 1.6418	* 1.5197	* 1.6301	* 1.6033	* .9971 *
	* 1.9955	* 2.1170	* 1.9556	* 2.0135	* 2.1759	* 2.0265	* 2.0612	* 3.3041 *
10	* 1.7093	* 1.6900	* 1.6815	* 1.4876	* 1.7554	* 1.7372	* 1.6933	* .7829 *
	* 1.9350	* 1.9556	* 1.9667	* 2.2223	* 1.8883	* 1.9067	* 1.9544	* 4.2112 *
11	* 1.5080	* 1.6418	* 1.4844	* 1.5862	* 1.5733	* 1.7457	* 1.7222	* .8086 *
	* 2.1927	* 2.0135	* 2.2270	* 2.0915	* 2.1070	* 1.8998	* 1.9255	* 4.0795 *
12	* 1.5272	* 1.5197	* 1.7532	* 1.5722	* 1.7393	* 1.7393	* 1.7393	* 1.1749 *
	* 2.1639	* 2.1759	* 1.8895	* 2.1085	* 1.9079	* 1.9079	* 2.8214	*
13	* 1.3848	* 1.6301	* 1.7372	* 1.7447	* 1.7393	* 1.7779	* .9468 *	
	* 2.3831	* 2.0265	* 1.9079	* 1.9009	* 1.9091	* 1.8669	* 3.5039 *	
14	* 1.4973	* 1.6033	* 1.6922	* 1.7211	* 1.1749	* .9468 *		
	* 2.2035	* 2.0612	* 1.9556	* 1.9255	* 2.8214	* 3.5039 *		
15	* .7797	* .9971	* .7818	* .8086	F-SUB-Q			
	* 4.2226	* 3.3041	* 4.2112	* 4.0848	M-SUB-Q			

AT 75% POWER, 4 EFPD, THIS IS LEVEL 11 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.1899	* 1.6697	* 1.7243	* 1.5230	* 1.5455	* 1.4073	* 1.5230	* .7893 *
	* 2.7279	* 1.9483	* 1.8849	* 2.1300	* 2.0958	* 2.2973	* 2.1228	* 4.0689 *
9	* 1.6697	* 1.5776	* 1.7061	* 1.6590	* 1.5444	* 1.6568	* 1.6343	* 1.0110 *
	* 1.9483	* 2.0599	* 1.9056	* 1.9568	* 2.1085	* 1.9605	* 1.9879	* 3.1928 *
10	* 1.7243	* 1.7061	* 1.6986	* 1.5048	* 1.7875	* 1.7693	* 1.7275	* .7936 *
	* 1.8849	* 1.9056	* 1.9137	* 2.1609	* 1.8298	* 1.8493	* 1.8895	* 4.0742 *
11	* 1.5230	* 1.6590	* 1.5015	* 1.6119	* 1.6044	* 1.7800	* 1.7597	* .8215 *
	* 2.1300	* 1.9568	* 2.1654	* 2.0305	* 2.0397	* 1.8384	* 1.8581	* 3.9607 *
12	* 1.5455	* 1.5444	* 1.7864	* 1.6044	* 1.7768	* 1.7800	* 1.1974 *	
	* 2.0958	* 2.1085	* 1.8319	* 2.0411	* 1.8438	* 1.8406	* 2.7303 *	
13	* 1.4073	* 1.6568	* 1.7682	* 1.7789	* 1.7789	* 1.8228	* .9639 *	
	* 2.2973	* 1.9605	* 1.8504	* 1.8406	* 1.8416	* 1.7972	* 3.3900 *	
14	* 1.5230	* 1.6343	* 1.7275	* 1.7586	* 1.1963	* .9639 *		
	* 2.1228	* 1.9892	* 1.8895	* 1.8592	* 2.7327	* 3.3900 *		
15	* .7893	* 1.0110	* .7936	* .8204	F-SUB-Q			
	* 4.0689	* 3.1928	* 4.0795	* 3.9607	M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 75% POWER, 4 EFPD, THIS IS LEVEL 10 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	1.1760	1.6622	1.7179	1.5230	1.5455	1.4137	1.5294	.7893
	2.6881	1.9091	1.8460	2.0694	2.0200	2.1881	2.0200	3.8581
9	1.6622	1.5765	1.6997	1.6558	1.5508	1.6611	1.6451	1.0121
	1.9091	2.0083	1.8636	1.9067	2.0424	1.8986	1.9161	3.0378
10	1.7179	1.6986	1.6933	1.5058	1.7961	1.7757	1.7414	.7947
	1.8460	1.8647	1.8714	2.1000	1.7758	1.7972	1.8277	3.9161
11	1.5230	1.6547	1.5026	1.6161	1.6183	1.7886	1.7757	.8225
	2.0694	1.9067	2.1042	1.9791	1.9791	1.7870	1.7993	3.8205
12	1.5455	1.5508	1.7950	1.6172	1.7886	1.7971	1.2027	
	2.0200	2.0424	1.7778	1.9816	1.7952	1.7880	2.6607	
13	1.4137	1.6611	1.7746	1.7875	1.7971	1.8443	.9682	
	2.1881	1.8986	1.7983	1.7890	1.7880	1.7441	3.3076	
14	1.5294	1.6451	1.7404	1.7746	1.2017	.9682		
	2.0200	1.9173	1.8277	1.7993	2.6607	3.3076		
15	.7893	1.0121	.7936	.8215	F-SUB-Q			
	3.8581	3.0378	3.9161	3.8205	M-SUB-Q			

AT 75% POWER, 4 EFPD, THIS IS LEVEL 9 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	1.1674	1.6504	1.7072	1.5165	1.5401	1.4126	1.5283	.7861
	2.5647	1.8066	1.7364	1.9374	1.8952	2.0518	1.8940	3.6299
9	1.6504	1.5690	1.6900	1.6483	1.5508	1.6590	1.6451	1.0078
	1.8066	1.8849	1.7480	1.7859	1.9114	1.7748	1.7900	2.8523
10	1.7072	1.6900	1.6847	1.5005	1.7971	1.7757	1.7436	.7925
	1.7364	1.7490	1.7559	1.9679	1.6777	1.7024	1.7145	3.6596
11	1.5165	1.6472	1.4973	1.6140	1.6204	1.7907	1.7789	.8193
	1.9374	1.7859	1.9716	1.8804	1.8781	1.6996	1.7042	3.5924
12	1.5401	1.5497	1.7950	1.6204	1.7918	1.8014	1.2017	
	1.8952	1.9114	1.6786	1.8793	1.7412	1.7220	2.5336	
13	1.4126	1.6590	1.7746	1.7886	1.8014	1.8496	.9671	
	2.0518	1.7748	1.7033	1.7014	1.7230	1.6804	3.1638	
14	1.5283	1.6451	1.7425	1.7779	1.2006	.9671		
	1.8940	1.7900	1.7154	1.7052	2.5356	3.1638		
15	.7861	1.0089	.7915	.8193	F-SUB-Q			
	3.6299	2.8523	3.6596	3.5965	M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 75% POWER, 4 EFPD, THIS IS LEVEL 8 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.1535	* 1.6365	* 1.6943	* 1.5037	* 1.5294	* 1.4030	* 1.5197	* .7808
	* 2.3958	* 1.6904	* 1.6305	* 1.8298	* 1.7900	* 1.9435	* 1.7921	* 3.4422
9	* 1.6365	* 1.5551	* 1.6772	* 1.6365	* 1.5401	* 1.6515	* 1.6333	* 1.0003
	* 1.6904	* 1.7748	* 1.6451	* 1.6831	* 1.7983	* 1.6697	* 1.6886	* 2.7020
10	* 1.6943	* 1.6772	* 1.6729	* 1.4887	* 1.7896	* 1.7682	* 1.7318	* .7850
	* 1.6305	* 1.6460	* 1.6512	* 1.8547	* 1.5700	* 1.5883	* 1.6095	* 3.4612
11	* 1.5037	* 1.6365	* 1.4855	* 1.6065	* 1.6119	* 1.7832	* 1.7671	* .8140
	* 1.8298	* 1.6831	* 1.8592	* 1.7588	* 1.7578	* 1.5891	* 1.5964	* 3.3754
12	* 1.5294	* 1.5401	* 1.7875	* 1.6108	* 1.7854	* 1.7918	* 1.1942	*
	* 1.7900	* 1.7983	* 1.5716	* 1.7598	* 1.6263	* 1.6179	* 2.3794	*
13	* 1.4030	* 1.6515	* 1.7671	* 1.7821	* 1.7907	* 1.8378	* .9618	*
	* 1.9435	* 1.6697	* 1.5891	* 1.5899	* 1.6179	* 1.5803	* 2.9743	*
14	* 1.5197	* 1.6333	* 1.7307	* 1.7661	* 1.1942	* .9618	*	*
	* 1.7921	* 1.6886	* 1.6095	* 1.5972	* 2.3794	* 2.9743	*	*
15	* .7808	* 1.0014	* .7840	* .8129	* F-SUB-Q			
	* 3.4422	* 2.6997	* 3.4651	* 3.3790	* M-SUB-Q			

AT 75% POWER, 4 EFPD, THIS IS LEVEL 7 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.1610	* 1.6526	* 1.7125	* 1.5262	* 1.5508	* 1.4244	* 1.5422	* .7861
	* 2.2207	* 1.5708	* 1.5167	* 1.6987	* 1.6679	* 1.8097	* 1.6697	* 3.2324
9	* 1.6526	* 1.5776	* 1.6965	* 1.6568	* 1.5658	* 1.6718	* 1.6611	* 1.0100
	* 1.5708	* 1.6460	* 1.5316	* 1.5660	* 1.6661	* 1.5551	* 1.5660	* 2.5315
10	* 1.7125	* 1.6965	* 1.6922	* 1.5112	* 1.8175	* 1.7918	* 1.7618	* .7936
	* 1.5167	* 1.5323	* 1.5361	* 1.7202	* 1.4473	* 1.4683	* 1.4864	* 3.2291
11	* 1.5262	* 1.6568	* 1.5080	* 1.6268	* 1.6386	* 1.8089	* 1.7982	* .8204
	* 1.6987	* 1.5668	* 1.7239	* 1.6221	* 1.6170	* 1.4628	* 1.4676	* 3.1478
12	* 1.5508	* 1.5647	* 1.8153	* 1.6376	* 1.8121	* 1.8239	* 1.2059	*
	* 1.6679	* 1.6661	* 1.4493	* 1.6187	* 1.4794	* 1.4711	* 2.1911	*
13	* 1.4244	* 1.6718	* 1.7907	* 1.8068	* 1.8228	* 1.8732	* .9693	*
	* 1.8097	* 1.5551	* 1.4697	* 1.4635	* 1.4711	* 1.4360	* 2.7351	*
14	* 1.5422	* 1.6611	* 1.7607	* 1.7971	* 1.2059	* .9693	*	*
	* 1.6697	* 1.5660	* 1.4864	* 1.4683	* 2.1927	* 2.7351	*	*
15	* .7861	* 1.0100	* .7925	* .8193	* F-SUB-Q			
	* 3.2324	* 2.5295	* 3.2324	* 3.1510	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 75% POWER, 4 EFPD, THIS IS LEVEL 6 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	1.1588	1.6547	1.7168	1.5315	1.5572	1.4255	1.5455	.7850
	2.1070	1.4879	1.4353	1.6087	1.5795	1.7220	1.5867	3.0888
9	1.6547	1.5819	1.7029	1.6633	1.5701	1.6750	1.6611	1.0067
	1.4879	1.5590	1.4486	1.4815	1.5763	1.4745	1.4879	2.4181
10	1.7168	1.7018	1.6986	1.5176	1.8250	1.7961	1.7607	.7904
	1.4353	1.4493	1.4526	1.6271	1.3640	1.3863	1.4094	3.0827
11	1.5315	1.6633	1.5133	1.6333	1.6408	1.8132	1.7982	.8161
	1.6087	1.4815	1.6305	1.5271	1.5256	1.3784	1.3876	3.0028
12	1.5572	1.5701	1.8228	1.6397	1.8153	1.8250	1.2027	
	1.5795	1.5763	1.3658	1.5271	1.3869	1.3814	2.0722	
13	1.4255	1.6750	1.7950	1.8111	1.8239	1.8710	.9650	
	1.7220	1.4745	1.3876	1.3796	1.3820	1.3487	2.5816	
14	1.5455	1.6611	1.7607	1.7971	1.2027	.9650		
	1.5867	1.4879	1.4101	1.3882	2.0735	2.5816		
15	.7850	1.0067	.7904	.8150	F-SUB-Q			
	3.0888	2.4162	3.0858	3.0028	M-SUB-Q			

AT 75% POWER, 4 EFPD, THIS IS LEVEL 5 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	1.1395	1.6322	1.6975	1.5123	1.5465	1.3998	1.5219	.7722
	2.0504	1.4439	1.3894	1.5614	1.5241	1.6804	1.5444	3.0144
9	1.6322	1.5583	1.6868	1.6504	1.5487	1.6515	1.6236	.9853
	1.4439	1.5152	1.3994	1.4294	1.5293	1.4314	1.4574	2.3686
10	1.6975	1.6858	1.6836	1.4994	1.8046	1.7736	1.7190	.7711
	1.3894	1.4000	1.4025	1.5755	1.3175	1.3406	1.3808	3.0319
11	1.5123	1.6504	1.4962	1.6204	1.6097	1.7875	1.7532	.7968
	1.5614	1.4301	1.5795	1.4690	1.4794	1.3343	1.3581	2.9435
12	1.5465	1.5476	1.8025	1.6086	1.7875	1.7843	1.1781	
	1.5241	1.5301	1.3191	1.4808	1.3400	1.3446	2.0174	
13	1.3998	1.6515	1.7725	1.7854	1.7832	1.8207	.9436	
	1.6804	1.4314	1.3417	1.3354	1.3446	1.3175	2.5152	
14	1.5219	1.6236	1.7179	1.7522	1.1781	.9436		
	1.5444	1.4574	1.3814	1.3586	2.0174	2.5173		
15	.7722	.9864	.7700	.7958	F-SUB-Q			
	3.0144	2.3686	3.0349	2.9463	M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 75% POWER, 4 EFPD, THIS IS LEVEL 4 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	1.1385	1.6301	1.7029	1.5197	1.5787	1.4030	1.5305	.7711
	1.9841	1.3950	1.3377	1.4993	1.4406	1.6204	1.4829	2.9188
9	1.6301	1.5594	1.6997	1.6718	1.5572	1.6600	1.6108	.9768
	1.3950	1.4621	1.3406	1.3628	1.4669	1.3748	1.4171	2.3092
10	1.7029	1.6986	1.6954	1.5133	1.8207	1.7768	1.6986	.7636
	1.3377	1.3412	1.3446	1.5072	1.2576	1.2892	1.3475	2.9574
11	1.5197	1.6718	1.5101	1.6504	1.6140	1.7886	1.7307	.7861
	1.4993	1.3628	1.5108	1.3863	1.4223	1.2834	1.3253	2.8812
12	1.5787	1.5572	1.8186	1.6119	1.7939	1.7736	1.1674	
	1.4406	1.4669	1.2591	1.4235	1.2834	1.2999	1.9605	
13	1.4030	1.6600	1.7757	1.7875	1.7736	1.7982	.9307	
	1.6204	1.3748	1.2903	1.2845	1.2999	1.2818	2.4541	
14	1.5305	1.6108	1.6975	1.7297	1.1674	.9307		
	1.4829	1.4177	1.3481	1.3258	1.9617	2.4560		
15	.7711	.9778	.7626	.7850	F-SUB-Q			
	2.9188	2.3092	2.9602	2.8838	M-SUB-Q			

AT 75% POWER, 4 EFPD, THIS IS LEVEL 3 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	1.0913	1.5540	1.6204	1.4791	1.5926	1.3955	1.4983	.7443
	2.0148	1.4248	1.3681	1.4993	1.3882	1.5851	1.4725	2.9491
9	1.5540	1.4983	1.6354	1.6301	1.5230	1.6054	1.5347	.9328
	1.4248	1.4808	1.3551	1.3592	1.4580	1.3814	1.4439	2.3579
10	1.6204	1.6343	1.6268	1.5058	1.7704	1.6933	1.5969	.7336
	1.3681	1.3569	1.3628	1.4759	1.2561	1.3141	1.3925	2.9971
11	1.4791	1.6301	1.4994	1.6654	1.5701	1.7136	1.6140	.7454
	1.4993	1.3592	1.4822	1.3337	1.4203	1.3005	1.3802	2.9546
12	1.5926	1.5230	1.7682	1.5690	1.7736	1.7040	1.1138	
	1.3882	1.4580	1.2576	1.4223	1.2566	1.3119	1.9955	
13	1.3955	1.6054	1.6922	1.7115	1.7029	1.6900	.8804	
	1.5851	1.3814	1.3147	1.3016	1.3125	1.3225	2.5213	
14	1.4983	1.5347	1.5958	1.6129	1.1138	.8804		
	1.4725	1.4439	1.3931	1.3808	1.9968	2.5213		
15	.7443	.9328	.7326	.7454	F-SUB-Q			
	2.9491	2.3561	3.0000	2.9574	M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 75% POWER, 4 EFPD, THIS IS LEVEL 2 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9371	* 1.3034	* 1.3709	* 1.5540	* 1.4630	* 1.4940	* 1.3441	* .6522
	* 2.3007	* 1.6608	* 1.5803	* 1.3919	* 1.4780	* 1.4459	* 1.6062	* 3.2971
9	* 1.3034	* 1.4930	* 1.3720	* 1.4373	* 1.5808	* 1.3762	* 1.4319	* .8075
	* 1.6608	* 1.4513	* 1.5803	* 1.5058	* 1.3693	* 1.5747	* 1.5116	* 2.6675
10	* 1.3709	* 1.3709	* 1.4223	* 1.6172	* 1.5358	* 1.4009	* 1.4384	* .6447
	* 1.5803	* 1.5811	* 1.5233	* 1.3406	* 1.4145	* 1.5521	* 1.5087	* 3.3393
11	* 1.5540	* 1.4373	* 1.6119	* 1.5294	* 1.6568	* 1.4716	* 1.3666	* .6469
	* 1.3919	* 1.5065	* 1.3452	* 1.4190	* 1.3119	* 1.4808	* 1.5907	* 3.3322
12	* 1.4630	* 1.5808	* 1.5337	* 1.6558	* 1.6022	* 1.5969		* .9768
	* 1.4780	* 1.3693	* 1.4165	* 1.3136	* 1.3581	* 1.3652		* 2.2254
13	* 1.4940	* 1.3762	* 1.3998	* 1.4694	* 1.5969	* 1.4212		* .7518
	* 1.4459	* 1.5739	* 1.5536	* 1.4815	* 1.3658	* 1.5361		* 2.8865
14	* 1.3441	* 1.4319	* 1.4373	* 1.3655	* .9757	* .7518		
	* 1.6062	* 1.5116	* 1.5087	* 1.5915	* 2.2270	* 2.8865		
15	* .6522	* .8075	* .6447	* .6469	* F-SUB-Q			
	* 3.2971	* 2.6652	* 3.3393	* 3.3358	* M-SUB-Q			

AT 75% POWER, 4 EFPD, THIS IS LEVEL 1 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .6447	* .5441	* .5890	* .6769	* .6308	* .6512	* .5666	* .4445
	* 3.2764	* 3.8821	* 3.5841	* 3.1134	* 3.3429	* 3.2324	* 3.7161	* 4.7408
9	* .5441	* .6276	* .5644	* .6351	* .6876	* .6148	* .5687	* .3641
	* 3.8821	* 3.3645	* 3.7473	* 3.3251	* 3.0676	* 3.4346	* 3.7073	* 5.7730
10	* .5890	* .5633	* .6469	* .7079	* .6640	* .5805	* .5644	* .4573
	* 3.5841	* 3.7473	* 3.2661	* 2.9856	* 3.1896	* 3.6553	* 3.7428	* 4.6014
11	* .6769	* .6351	* .7047	* .6704	* .7186	* .6223	* .5259	* .3095
	* 3.1134	* 3.3287	* 2.9942	* 3.1638	* 2.9463	* 3.4122	* 4.0218	* 6.8169
12	* .6308	* .6876	* .6608	* .7176	* .6790	* .6351	* .4648	
	* 3.3429	* 3.0676	* 3.2026	* 2.9491	* 3.1196	* 3.3429	* 4.5612	
13	* .6512	* .6148	* .5794	* .6223	* .6351	* .5644	* .3449	
	* 3.2324	* 3.4271	* 3.6596	* 3.4122	* 3.3429	* 3.7608	* 6.1352	
14	* .5666	* .5687	* .5633	* .5259	* .4648		* .3449	
	* 3.7161	* 3.7073	* 3.7428	* 4.0270	* 4.5612		* 6.1352	
15	* .4445	* .3641	* .4573	* .3095	* F-SUB-Q			
	* 4.7408	* 5.7624	* 4.6082	* 6.8169	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 75% POWER, 50 EFPD, THIS IS LEVEL 24 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	.4059	.3802	.3984	.4091	.3791	.3684	.3352	.3074
	3.6722	4.5950	4.4135	4.1633	4.6096	4.5601	5.1309	5.5527
9	.3802	.4123	.3984	.3898	.3866	.3641	.3374	.2420
	4.5950	4.1694	4.4337	4.5094	4.3763	4.7686	4.9608	7.0487
10	.3984	.3984	.3909	.3931	.3706	.3481	.3320	.2956
	4.4135	4.4337	4.5164	4.3359	4.7221	4.9984	5.0496	5.7850
11	.4091	.3898	.3931	.3631	.3352	.3213	.2945	.1971
	4.1633	4.5094	4.3359	4.8321	4.6024	5.0412	5.5242	8.6431
12	.3791	.3877	.3706	.3352	.2710	.2549	.2442	
	4.6096	4.3695	4.7221	4.6024	4.8321	4.9058	6.1343	
13	.3684	.3652	.3481	.3213	.2549	.2206	.1692	
	4.5601	4.7608	4.9984	5.0412	4.9058	5.4189	8.0345	
14	.3352	.3374	.3320	.2945	.2442	.1692		
	5.1309	4.9608	5.0496	5.5242	6.1343	8.0345		
15	.3074	.2420	.2956	.1971	F-SUB-Q			
	5.5527	7.0487	5.7850	8.6431	M-SUB-Q			

AT 75% POWER, 50 EFPD, THIS IS LEVEL 23 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	.5580	.8964	.9500	.8225	.8675	.7229	.7765	.4434
	2.5612	1.9922	1.9323	2.1600	2.0943	2.4261	2.3093	3.9995
9	.8964	.8397	.9575	.9307	.7561	.8472	.7615	.5323
	1.9922	2.1228	1.9146	1.9661	2.3247	2.1340	2.2909	3.3337
10	.9500	.9575	.9468	.7990	.8654	.8536	.7583	.4038
	1.9323	1.9146	1.9362	2.2192	2.0943	2.1170	2.2964	4.3832
11	.8225	.9307	.7979	.8129	.6951	.7690	.7069	.4070
	2.1600	1.9661	2.2227	2.1875	2.3709	2.1656	2.3450	4.3442
12	.8675	.7572	.8654	.6951	.5805	.5987	.5023	
	2.0943	2.3228	2.0943	2.3709	2.1446	2.2522	3.0984	
13	.7229	.8472	.8536	.7690	.5987	.5451	.3652	
	2.4261	2.1325	2.1170	2.1656	2.2522	2.3165	3.8748	
14	.7765	.7615	.7583	.7069	.5034	.3652		
	2.3093	2.2890	2.2946	2.3450	3.0984	3.8748		
15	.4434	.5323	.4038	.4070	F-SUB-Q			
	3.9995	3.3299	4.3832	4.3442	M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 75% POWER, 50 EFPD, THIS IS LEVEL 22 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .6951	* 1.1353	* 1.2070	* 1.0646	* 1.1010	* .9382	* .9982	* .5558
	* 2.1412	* 1.6249	* 1.5672	* 1.7187	* 1.7032	* 1.9241	* 1.8546	* 3.2885
9	* 1.1353	* 1.0860	* 1.2145	* 1.1824	* .9875	* 1.0903	* 1.0110	* .6822
	* 1.6249	* 1.6891	* 1.5556	* 1.5961	* 1.8313	* 1.7072	* 1.7732	* 2.6805
10	* 1.2070	* 1.2145	* 1.2038	* 1.0346	* 1.1138	* 1.1021	* 1.0153	* .5152
	* 1.5672	* 1.5556	* 1.5705	* 1.7666	* 1.6780	* 1.6905	* 1.7666	* 3.5503
11	* 1.0646	* 1.1824	* 1.0335	* 1.0346	* .9146	* .9992	* .9510	* .5173
	* 1.7187	* 1.5961	* 1.7688	* 1.7744	* 1.8589	* 1.7235	* 1.8004	* 3.5375
12	* 1.1010	* .9885	* 1.1138	* .9146	* .7518	* .8032	* .6458	*
	* 1.7032	* 1.8301	* 1.6780	* 1.8592	* 1.7149	* 1.7339	* 2.5021	*
13	* .9382	* 1.0913	* 1.1031	* .9992	* .8032	* .7454	* .4745	*
	* 1.9241	* 1.7062	* 1.6895	* 1.7235	* 1.7339	* 1.7635	* 3.0982	*
14	* .9982	* 1.0110	* 1.0153	* .9510	* .6458	* .4745	*	*
	* 1.8546	* 1.7721	* 1.7666	* 1.8004	* 2.5021	* 3.0982	*	*
15	* .5558	* .6833	* .5152	* .5173	* F-SUB-Q			
	* 3.2885	* 2.6756	* 3.5503	* 3.5375	* M-SUB-Q			

AT 75% POWER, 50 EFPD, THIS IS LEVEL 21 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .7947	* 1.3055	* 1.3902	* 1.2552	* 1.2906	* 1.1245	* 1.1813	* .6415
	* 1.9694	* 1.4696	* 1.4055	* 1.5052	* 1.5016	* 1.6597	* 1.6172	* 2.9480
9	* 1.3055	* 1.2766	* 1.3966	* 1.3687	* 1.1813	* 1.2788	* 1.2231	* .7990
	* 1.4696	* 1.4842	* 1.3995	* 1.4244	* 1.5852	* 1.5070	* 1.5132	* 2.3683
10	* 1.3902	* 1.3966	* 1.3859	* 1.2231	* 1.3130	* 1.2916	* 1.2327	* .6051
	* 1.4055	* 1.3995	* 1.4115	* 1.5450	* 1.4755	* 1.4956	* 1.5060	* 3.1319
11	* 1.2552	* 1.3687	* 1.2220	* 1.2199	* 1.1010	* 1.1856	* 1.1578	* .6083
	* 1.5052	* 1.4237	* 1.5475	* 1.5647	* 1.6039	* 1.5130	* 1.5405	* 3.1385
12	* 1.2906	* 1.1813	* 1.3130	* 1.1010	* .9050	* .9832	* .7658	*
	* 1.5016	* 1.5844	* 1.4755	* 1.6039	* 1.4944	* 1.4729	* 2.2144	*
13	* 1.1245	* 1.2798	* 1.2927	* 1.1856	* .9832	* .9286	* .5676	*
	* 1.6597	* 1.5062	* 1.4956	* 1.5130	* 1.4729	* 1.4926	* 2.7349	*
14	* 1.1813	* 1.2242	* 1.2327	* 1.1578	* .7658	* .5676	*	*
	* 1.6172	* 1.5124	* 1.5060	* 1.5405	* 2.2144	* 2.7349	*	*
15	* .6415	* .8000	* .6051	* .6083	* F-SUB-Q			
	* 2.9480	* 2.3645	* 3.1319	* 3.1385	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 75% POWER, 50 EFPD, THIS IS LEVEL 20 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	.8493	1.3955	1.4855	1.3602	1.4009	1.2370	1.2916	.6897
	1.9621	1.4480	1.3731	1.4469	1.4428	1.5709	1.5412	2.8593
9	1.3955	1.3805	1.4898	1.4694	1.3002	1.3891	1.3527	.8675
	1.4480	1.4317	1.3693	1.3852	1.5052	1.4505	1.4253	2.2818
10	1.4855	1.4898	1.4812	1.3313	1.4351	1.4052	1.3687	.6608
	1.3731	1.3693	1.3788	1.4811	1.4147	1.4414	1.4183	3.0063
11	1.3602	1.4694	1.3291	1.3366	1.2252	1.3066	1.2927	.6629
	1.4469	1.3845	1.4834	1.5008	1.5092	1.4514	1.4541	3.0246
12	1.4009	1.3002	1.4351	1.2242	1.0164	1.1138		.8472
	1.4428	1.5044	1.4147	1.5100	1.4220	1.3816		2.1313
13	1.2370	1.3902	1.4052	1.3066	1.1128	1.0689		.6362
	1.5709	1.4498	1.4407	1.4516	1.3820	1.3977		2.6283
14	1.2916	1.3537	1.3698	1.2927	.8472	.6362		
	1.5412	1.4246	1.4176	1.4541	2.1313	2.6283		
15	.6897	.8686	.6608	.6629	F-SUB-Q			
	2.8593	2.2800	3.0063	3.0246	M-SUB-Q			

AT 75% POWER, 50 EFPD, THIS IS LEVEL 19 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	.9071	1.4630	1.5476	1.4266	1.4737	1.3130	1.3677	.7240
	2.0018	1.4712	1.3949	1.4551	1.4460	1.5587	1.5331	2.8698
9	1.4630	1.4491	1.5508	1.5337	1.3837	1.4673	1.4416	.9146
	1.4712	1.4434	1.3910	1.4008	1.4950	1.4523	1.4083	2.2828
10	1.5476	1.5508	1.5444	1.4019	1.5251	1.4887	1.4662	.7026
	1.3949	1.3910	1.3995	1.4857	1.4133	1.4439	1.4008	2.9959
11	1.4266	1.5337	1.3998	1.4255	1.3248	1.4094	1.3966	.7058
	1.4551	1.4001	1.4880	1.4943	1.4901	1.4428	1.4315	3.0291
12	1.4737	1.3848	1.5251	1.3248	1.1363	1.2434	.9211	
	1.4460	1.4950	1.4133	1.4904	1.4119	1.3623	2.1281	
13	1.3130	1.4683	1.4887	1.4094	1.2424	1.2113	.7026	
	1.5587	1.4516	1.4439	1.4428	1.3623	1.3772	2.6295	
14	1.3677	1.4426	1.4662	1.3955	.9211	.7026		
	1.5331	1.4076	1.4008	1.4315	2.1281	2.6295		
15	.7240	.9157	.7026	.7058	F-SUB-Q			
	2.8698	2.2810	2.9959	3.0317	M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 75% POWER, 50 EFPD, THIS IS LEVEL 18 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.0046	* 1.5412	* 1.6108	* 1.4898	* 1.5433	* 1.3805	* 1.4394	* .7572
	* 2.0583	* 1.4896	* 1.4333	* 1.4850	* 1.4703	* 1.5735	* 1.5471	* 2.9108
9	* 1.5412	* 1.5144	* 1.6140	* 1.5990	* 1.4641	* 1.5455	* 1.5251	* .9607
	* 1.4896	* 1.4737	* 1.4286	* 1.4340	* 1.5058	* 1.4739	* 1.4162	* 2.3099
10	* 1.6108	* 1.6140	* 1.6086	* 1.4694	* 1.6172	* 1.5744	* 1.5594	* .7401
	* 1.4333	* 1.4286	* 1.4360	* 1.5113	* 1.4166	* 1.4460	* 1.4005	* 3.0305
11	* 1.4898	* 1.5990	* 1.4673	* 1.5187	* 1.4309	* 1.5240	* 1.5015	* .7476
	* 1.4850	* 1.4340	* 1.5137	* 1.4978	* 1.4883	* 1.4474	* 1.4226	* 3.0264
12	* 1.5433	* 1.4641	* 1.6172	* 1.4298	* 1.3323	* 1.4105	* 1.0035	*
	* 1.4703	* 1.5050	* 1.4169	* 1.4888	* 1.4164	* 1.3577	* 2.1426	*
13	* 1.3805	* 1.5455	* 1.5744	* 1.5230	* 1.4105	* 1.3902	* .7786	*
	* 1.5735	* 1.4731	* 1.4461	* 1.4475	* 1.3583	* 1.3737	* 2.6437	*
14	* 1.4394	* 1.5251	* 1.5594	* 1.5005	* 1.0035	* .7786	*	*
	* 1.5471	* 1.4155	* 1.4005	* 1.4226	* 2.1426	* 2.6437	*	*
15	* .7572	* .9607	* .7401	* .7465	* F-SUB-Q			
	* 2.9108	* 2.3082	* 3.0305	* 3.0264	* M-SUB-Q			

AT 75% POWER, 50 EFPD, THIS IS LEVEL 17 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.1192	* 1.5872	* 1.6440	* 1.5272	* 1.5808	* 1.4244	* 1.4823	* .7743
	* 2.1673	* 1.5596	* 1.4995	* 1.5503	* 1.5351	* 1.6314	* 1.5997	* 3.0288
9	* 1.5872	* 1.5551	* 1.6451	* 1.6322	* 1.5187	* 1.5904	* 1.5819	* .9864
	* 1.5596	* 1.5295	* 1.4958	* 1.5002	* 1.5479	* 1.5258	* 1.4636	* 2.4020
10	* 1.6440	* 1.6451	* 1.6408	* 1.5123	* 1.6793	* 1.6279	* 1.6279	* .7647
	* 1.4995	* 1.4958	* 1.4993	* 1.5688	* 1.4498	* 1.4890	* 1.4302	* 3.1350
11	* 1.5272	* 1.6322	* 1.5090	* 1.5829	* 1.5133	* 1.6086	* 1.5851	* .7743
	* 1.5503	* 1.5002	* 1.5714	* 1.5411	* 1.5263	* 1.4818	* 1.4527	* 3.1052
12	* 1.5808	* 1.5187	* 1.6793	* 1.5123	* 1.5722	* 1.5754	* 1.0678	*
	* 1.5351	* 1.5479	* 1.4498	* 1.5270	* 1.4573	* 1.3940	* 2.1986	*
13	* 1.4244	* 1.5904	* 1.6279	* 1.6076	* 1.5744	* 1.5487	* .8397	*
	* 1.6314	* 1.5251	* 1.4891	* 1.4825	* 1.3941	* 1.4110	* 2.7317	*
14	* 1.4823	* 1.5819	* 1.6279	* 1.5851	* 1.0678	* .8397	*	*
	* 1.5997	* 1.4636	* 1.4302	* 1.4528	* 2.1986	* 2.7317	*	*
15	* .7743	* .9864	* .7647	* .7743	* F-SUB-Q			
	* 3.0288	* 2.4001	* 3.1382	* 3.1059	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 75% POWER, 50 EFPD, THIS IS LEVEL 16 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	1.1610	1.6236	1.6750	1.5583	1.6161	1.4619	1.5230	.7925
	2.2927	1.6267	1.5719	1.6367	1.6074	1.7169	1.6706	3.1748
9	1.6236	1.5894	1.6761	1.6633	1.5658	1.6333	1.6301	1.0110
	1.6267	1.6110	1.5687	1.5735	1.6163	1.5874	1.5298	2.5148
10	1.6750	1.6761	1.6729	1.5487	1.7361	1.6858	1.6858	.7883
	1.5719	1.5695	1.5711	1.6495	1.4980	1.5404	1.4858	3.2490
11	1.5583	1.6633	1.5455	1.6397	1.5819	1.6825	1.6568	.8000
	1.6367	1.5735	1.6522	1.6001	1.5885	1.5377	1.5150	3.2065
12	1.6161	1.5658	1.7350	1.5808	1.6922	1.6986	1.1224	
	1.6074	1.6156	1.4980	1.5893	1.5071	1.4479	2.2780	
13	1.4619	1.6333	1.6847	1.6815	1.6975	1.6675	.8911	
	1.7169	1.5866	1.5412	1.5385	1.4479	1.4630	2.8231	
14	1.5230	1.6311	1.6858	1.6568	1.1224	.8911		
	1.6706	1.5298	1.4864	1.5156	2.2783	2.8231		
15	.7925	1.0121	.7883	.8000	F-SUB-Q			
	3.1748	2.5127	3.2490	3.2090	M-SUB-Q			

AT 75% POWER, 50 EFPD, THIS IS LEVEL 15 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	1.1545	1.6161	1.6665	1.5508	1.6140	1.4619	1.5262	.7947
	2.4636	1.7524	1.6966	1.7802	1.7294	1.8615	1.7970	3.4147
9	1.6161	1.5808	1.6686	1.6568	1.5722	1.6386	1.6343	1.0132
	1.7524	1.7535	1.6929	1.6961	1.7428	1.6979	1.6517	2.6947
10	1.6665	1.6675	1.6654	1.5444	1.7479	1.7018	1.6965	.7893
	1.6966	1.6933	1.6947	1.7904	1.5986	1.6383	1.5986	3.4803
11	1.5508	1.6568	1.5422	1.6515	1.6011	1.7072	1.6772	.8065
	1.7802	1.6961	1.7936	1.7020	1.7127	1.6331	1.6189	3.4153
12	1.6140	1.5722	1.7468	1.5990	1.7339	1.7425	1.1438	
	1.7294	1.7428	1.5996	1.7132	1.6121	1.5598	2.4325	
13	1.4619	1.6386	1.7007	1.7061	1.7425	1.7125	.9146	
	1.8615	1.6979	1.6392	1.6340	1.5605	1.5760	3.0124	
14	1.5262	1.6354	1.6965	1.6761	1.1438	.9146		
	1.7970	1.6517	1.5992	1.6196	2.4325	3.0124		
15	.7947	1.0142	.7893	.8065	F-SUB-Q			
	3.4147	2.6924	3.4842	3.4182	M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 75% POWER, 50 EFPD, THIS IS LEVEL 14 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	1.1652	1.6301	1.6804	1.5744	1.6386	1.4930	1.5583	.8065
	2.6357	1.8767	1.8148	1.9073	1.8384	1.9788	1.9016	3.6381
9	1.6301	1.6044	1.6836	1.6761	1.6086	1.6665	1.6772	1.0314
	1.8767	1.8781	1.8084	1.8105	1.8520	1.8011	1.7514	2.8568
10	1.6804	1.6836	1.6825	1.5808	1.7907	1.7382	1.7457	.8086
	1.8148	1.8095	1.8095	1.8971	1.6860	1.7329	1.6914	3.6639
11	1.5744	1.6761	1.5754	1.6900	1.6568	1.7532	1.7318	.8236
	1.9073	1.8105	1.9042	1.7952	1.7982	1.7175	1.7070	3.6107
12	1.6386	1.6086	1.7896	1.6558	1.7918	1.8121	1.1760	
	1.8384	1.8520	1.6869	1.7993	1.6851	1.6383	2.5521	
13	1.4930	1.6675	1.7372	1.7522	1.8121	1.7854	.9425	
	1.9788	1.8011	1.7339	1.7185	1.6390	1.6560	3.1710	
14	1.5583	1.6772	1.7457	1.7307	1.1749	.9425		
	1.9016	1.7514	1.6922	1.7070	2.5542	3.1710		
15	.8065	1.0314	.8075	.8236	F-SUB-Q			
	3.6381	2.8542	3.6682	3.6117	M-SUB-Q			

AT 75% POWER, 50 EFPD, THIS IS LEVEL 13 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	1.1524	1.6183	1.6697	1.5712	1.6397	1.4983	1.5658	.8075
	2.8748	2.0440	1.9779	2.0867	1.9931	2.1502	2.0467	3.9186
9	1.6183	1.6001	1.6750	1.6708	1.6172	1.6708	1.6890	1.0335
	2.0440	2.0563	1.9679	1.9692	2.0123	1.9471	1.9003	3.0852
10	1.6697	1.6750	1.6750	1.5915	1.8036	1.7479	1.7629	.8118
	1.9779	1.9692	1.9704	2.0606	1.8178	1.8724	1.8309	3.9483
11	1.5712	1.6708	1.5862	1.7007	1.6793	1.7693	1.7511	.8279
	2.0867	1.9692	2.0688	1.9345	1.9396	1.8450	1.8457	3.8893
12	1.6397	1.6172	1.8014	1.6783	1.8143	1.8410	1.1877	
	1.9931	2.0123	1.8200	1.9405	1.8063	1.7640	2.7425	
13	1.4983	1.6708	1.7468	1.7693	1.8400	1.8164	.9543	
	2.1502	1.9471	1.8735	1.8461	1.7640	1.7794	3.3976	
14	1.5658	1.6890	1.7618	1.7511	1.1867	.9543		
	2.0467	1.9003	1.8309	1.8468	2.7425	3.3985		
15	.8075	1.0335	.8107	.8279	F-SUB-Q			
	3.9186	3.0822	3.9533	3.8893	M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 75% POWER, 50 EFPD, THIS IS LEVEL 12 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.1320	* 1.5904	* 1.6418	* 1.5476	* 1.6204	* 1.4833	* 1.5530	* .8000
	* 2.9026	* 2.0708	* 2.0057	* 2.1285	* 2.0318	* 2.2191	* 2.1170	* 4.0955
9	* 1.5904	* 1.5744	* 1.6504	* 1.6472	* 1.6033	* 1.6558	* 1.6750	* 1.0239
	* 2.0708	* 2.0929	* 1.9955	* 1.9993	* 2.0558	* 1.9892	* 1.9654	* 3.2092
10	* 1.6418	* 1.6493	* 1.6493	* 1.5787	* 1.7907	* 1.7350	* 1.7511	* .8054
	* 2.0057	* 1.9968	* 1.9968	* 2.0915	* 1.8438	* 1.9033	* 1.8838	* 4.0795
11	* 1.5476	* 1.6472	* 1.5722	* 1.6900	* 1.6740	* 1.7639	* 1.7425	* .8215
	* 2.1285	* 1.9993	* 2.1000	* 1.9568	* 1.9791	* 1.8781	* 1.8975	* 4.0063
12	* 1.6204	* 1.6033	* 1.7896	* 1.6729	* 1.8078	* 1.8368	* 1.824	
	* 2.0318	* 2.0558	* 1.8460	* 1.9804	* 1.8330	* 1.8045	* 2.7987	
13	* 1.4833	* 1.6558	* 1.7339	* 1.7629	* 1.8357	* 1.8132	* .9521	
	* 2.2191	* 1.9892	* 1.9044	* 1.8793	* 1.8055	* 1.8266	* 3.4766	
14	* 1.5530	* 1.6750	* 1.7511	* 1.7414	* 1.1824	* .9510		
	* 2.1170	* 1.9654	* 1.8849	* 1.8975	* 2.7987	* 3.4766		
15	* .8000	* 1.0239	* .8043	* .8215	* F-SUB-Q			
	* 4.0955	* 3.2092	* 4.0848	* 4.0063	* M-SUB-Q			

AT 75% POWER, 50 EFPD, THIS IS LEVEL 11 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.1267	* 1.5936	* 1.6472	* 1.5572	* 1.6333	* 1.4994	* 1.5722	* .8065
	* 2.8601	* 2.0278	* 1.9593	* 2.0722	* 1.9729	* 2.1490	* 2.0437	* 3.9557
9	* 1.5936	* 1.5819	* 1.6579	* 1.6558	* 1.6226	* 1.6729	* 1.6986	* 1.0335
	* 2.0278	* 2.0411	* 1.9483	* 1.9483	* 1.9968	* 1.9338	* 1.8998	* 3.1103
10	* 1.6472	* 1.6568	* 1.6568	* 1.5979	* 1.8143	* 1.7564	* 1.7800	* .8129
	* 1.9593	* 1.9495	* 1.9507	* 2.0384	* 1.7962	* 1.8547	* 1.8255	* 3.9607
11	* 1.5572	* 1.6558	* 1.5915	* 1.7104	* 1.7029	* 1.7907	* 1.7725	* .8300
	* 2.0722	* 1.9483	* 2.0464	* 1.9079	* 1.9184	* 1.8234	* 1.8406	* 3.9014
12	* 1.6333	* 1.6226	* 1.8132	* 1.7018	* 1.8368	* 1.8721	* 1.1984	
	* 1.9729	* 1.9968	* 1.7983	* 1.9196	* 1.7788	* 1.7461	* 2.7232	
13	* 1.4994	* 1.6729	* 1.7554	* 1.7896	* 1.8710	* 1.8507	* .9650	
	* 2.1490	* 1.9326	* 1.8558	* 1.8245	* 1.7470	* 1.7658	* 3.3790	
14	* 1.5722	* 1.6997	* 1.7789	* 1.7714	* 1.1984	* .9650		
	* 2.0437	* 1.8998	* 1.8255	* 1.8416	* 2.7232	* 3.3827		
15	* .8065	* 1.0346	* .8118	* .8300	* F-SUB-Q			
	* 3.9557	* 3.1072	* 3.9657	* 3.9014	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 75% POWER, 50 EFPD, THIS IS LEVEL 10 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.1063	* 1.5744	* 1.6290	* 1.5465	* 1.6236	* 1.4962	* 1.5701	* .8011
	* 2.8368	* 1.9866	* 1.9126	* 2.0122	* 1.9033	* 2.0491	* 1.9483	* 3.7653
9	* 1.5744	* 1.5701	* 1.6408	* 1.6418	* 1.6194	* 1.6643	* 1.6997	* 1.0282
	* 1.9866	* 1.9892	* 1.9044	* 1.8975	* 1.9386	* 1.8793	* 1.8234	* 2.9602
10	* 1.6290	* 1.6397	* 1.6397	* 1.5958	* 1.8111	* 1.7500	* 1.7832	* .8086
	* 1.9126	* 1.9056	* 1.9079	* 1.9904	* 1.7549	* 1.8149	* 1.7688	* 3.8112
11	* 1.5465	* 1.6408	* 1.5894	* 1.7050	* 1.7072	* 1.7907	* 1.7768	* .8268
	* 2.0122	* 1.8975	* 1.9981	* 1.8680	* 1.8725	* 1.7829	* 1.7910	* 3.7698
12	* 1.6236	* 1.6194	* 1.8089	* 1.7061	* 1.8378	* 1.8796	* 1.1963	
	* 1.9033	* 1.9386	* 1.7559	* 1.8736	* 1.7393	* 1.7042	* 2.6652	
13	* 1.4962	* 1.6643	* 1.7489	* 1.7896	* 1.8796	* 1.8614	* .9628	
	* 2.0491	* 1.8793	* 1.8160	* 1.7839	* 1.7042	* 1.7230	* 3.3181	
14	* 1.5701	* 1.6997	* 1.7821	* 1.7757	* 1.1952	* .9628		
	* 1.9483	* 1.8234	* 1.7688	* 1.7921	* 2.6652	* 3.3181		
15	* .8011	* 1.0292	* .8075	* .8257	F-SUB-Q			
	* 3.7653	* 2.9602	* 3.8158	* 3.7744	M-SUB-Q			

AT 75% POWER, 50 EFPD, THIS IS LEVEL 9 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.0871	* 1.5487	* 1.6054	* 1.5272	* 1.6044	* 1.4833	* 1.5562	* .7915
	* 2.7067	* 1.8929	* 1.8107	* 1.9009	* 1.8024	* 1.9398	* 1.8449	* 3.5760
9	* 1.5487	* 1.5497	* 1.6183	* 1.6194	* 1.6054	* 1.6472	* 1.6858	* 1.0164
	* 1.8929	* 1.8826	* 1.8014	* 1.7941	* 1.8298	* 1.7718	* 1.7202	* 2.8062
10	* 1.6054	* 1.6172	* 1.6161	* 1.5819	* 1.7961	* 1.7339	* 1.7704	* .8011
	* 1.8107	* 1.8034	* 1.8055	* 1.8929	* 1.6617	* 1.7278	* 1.6688	* 3.5965
11	* 1.5272	* 1.6194	* 1.5754	* 1.6890	* 1.6965	* 1.7779	* 1.7639	* .8172
	* 1.9009	* 1.7952	* 1.9009	* 1.7859	* 1.8097	* 1.7107	* 1.7052	* 3.5760
12	* 1.6044	* 1.6054	* 1.7939	* 1.6965	* 1.8250	* 1.8700	* 1.1856	
	* 1.8024	* 1.8298	* 1.6626	* 1.8107	* 1.6941	* 1.6512	* 2.5522	
13	* 1.4833	* 1.6472	* 1.7329	* 1.7768	* 1.8689	* 1.8518	* .9543	
	* 1.9398	* 1.7718	* 1.7287	* 1.7126	* 1.6520	* 1.6697	* 3.1896	
14	* 1.5562	* 1.6868	* 1.7693	* 1.7639	* 1.1845	* .9543		
	* 1.8449	* 1.7202	* 1.6688	* 1.7052	* 2.5543	* 3.1896		
15	* .7915	* 1.0174	* .8000	* .8172	F-SUB-Q			
	* 3.5760	* 2.8062	* 3.5965	* 3.5800	M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 75% POWER, 50 EFPD, THIS IS LEVEL 8 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	1.0624	1.5176	1.5754	1.4951	1.5765	1.4566	1.5294	.7775
	2.5605	1.7952	1.7268	1.8181	1.7230	1.8592	1.7668	3.4309
9	1.5176	1.5165	1.5883	1.5904	1.5765	1.6215	1.6558	.9992
	1.7952	1.7972	1.7173	1.7126	1.7432	1.6877	1.6451	2.6858
10	1.5754	1.5872	1.5872	1.5530	1.7682	1.7082	1.7393	.7850
	1.7268	1.7183	1.7202	1.7931	1.5747	1.6305	1.5875	3.4384
11	1.4951	1.5894	1.5465	1.6633	1.6697	1.7522	1.7339	.8032
	1.8181	1.7126	1.8003	1.6895	1.7145	1.6187	1.6154	3.3973
12	1.5765	1.5765	1.7661	1.6686	1.7982	1.8400	1.1663	
	1.7230	1.7432	1.5755	1.7164	1.6005	1.5676	2.4237	
13	1.4566	1.6215	1.7061	1.7500	1.8389	1.8207	.9393	
	1.8592	1.6877	1.6314	1.6204	1.5684	1.5859	3.0290	
14	1.5294	1.6558	1.7382	1.7329	1.1652	.9393		
	1.7668	1.6451	1.5875	1.6162	2.4237	3.0290		
15	.7775	.9992	.7840	.8022	F-SUB-Q			
	3.4309	2.6858	3.4422	3.4010	M-SUB-Q			

AT 75% POWER, 50 EFPD, THIS IS LEVEL 7 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	1.0539	1.5090	1.5690	1.4962	1.5744	1.4608	1.5315	.7733
	2.4106	1.6950	1.6331	1.7136	1.6297	1.7539	1.6688	3.2661
9	1.5090	1.5165	1.5829	1.5851	1.5808	1.6172	1.6622	.9950
	1.6950	1.6913	1.6229	1.6195	1.6373	1.5948	1.5475	2.5501
10	1.5690	1.5819	1.5808	1.5583	1.7693	1.7050	1.7468	.7829
	1.6331	1.6246	1.6254	1.6750	1.4759	1.5308	1.4879	3.2492
11	1.4962	1.5851	1.5508	1.6622	1.6761	1.7522	1.7414	.7990
	1.7136	1.6195	1.6822	1.5803	1.5859	1.5101	1.5043	3.2092
12	1.5744	1.5808	1.7671	1.6750	1.8025	1.8485	1.1620	
	1.6297	1.6373	1.4780	1.5867	1.4752	1.4439	2.2624	
13	1.4608	1.6183	1.7040	1.7511	1.8485	1.8314	.9350	
	1.7539	1.5948	1.5323	1.5116	1.4446	1.4608	2.8240	
14	1.5315	1.6622	1.7457	1.7404	1.1620	.9350		
	1.6688	1.5475	1.4879	1.5050	2.2624	2.8240		
15	.7733	.9950	.7829	.7979	F-SUB-Q			
	3.2661	2.5501	3.2526	3.2125	M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 75% POWER, 50 EFPD, THIS IS LEVEL 6 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.0335	* 1.4833	* 1.5444	* 1.4737	* 1.5530	* 1.4362	* 1.5069	* .7583
	* 2.3281	* 1.6356	* 1.5747	* 1.6529	* 1.5716	* 1.6968	* 1.6137	* 3.1734
9	* 1.4833	* 1.4930	* 1.5594	* 1.5626	* 1.5572	* 1.5926	* 1.6343	* .9746
	* 1.6356	* 1.6314	* 1.5637	* 1.5606	* 1.5779	* 1.5383	* 1.4964	* 2.4774
10	* 1.5444	* 1.5572	* 1.5562	* 1.5347	* 1.7447	* 1.6783	* 1.7168	* .7679
	* 1.5747	* 1.5653	* 1.5668	* 1.6087	* 1.4165	* 1.4711	* 1.4346	* 3.1542
11	* 1.4737	* 1.5626	* 1.5283	* 1.6376	* 1.6483	* 1.7254	* 1.7115	* .7818
	* 1.6529	* 1.5606	* 1.6154	* 1.5152	* 1.5160	* 1.4446	* 1.4466	* 3.1103
12	* 1.5530	* 1.5572	* 1.7425	* 1.6472	* 1.7757	* 1.8186	* 1.1395	*
	* 1.5716	* 1.5779	* 1.4184	* 1.5167	* 1.4069	* 1.3784	* 2.1729	*
13	* 1.4362	* 1.5926	* 1.6772	* 1.7232	* 1.8175	* 1.7993	* .9157	*
	* 1.6968	* 1.5383	* 1.4725	* 1.4459	* 1.3790	* 1.3937	* 2.7067	*
14	* 1.5069	* 1.6343	* 1.7157	* 1.7104	* 1.1395	* .9157	*	*
	* 1.6137	* 1.4964	* 1.4353	* 1.4473	* 2.1744	* 2.7067	*	*
15	* .7583	* .9757	* .7668	* .7818	* F-SUB-Q			
	* 3.1734	* 2.4754	* 3.1574	* 3.1134	* M-SUB-Q			

AT 75% POWER, 50 EFPD, THIS IS LEVEL 5 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9960	* 1.4330	* 1.4962	* 1.4212	* 1.5037	* 1.3794	* 1.4501	* .7304
	* 2.3126	* 1.6204	* 1.5559	* 1.6416	* 1.5536	* 1.6950	* 1.6071	* 3.1606
9	* 1.4330	* 1.4384	* 1.5123	* 1.5144	* 1.4994	* 1.5390	* 1.5637	* .9350
	* 1.6204	* 1.6212	* 1.5429	* 1.5406	* 1.5668	* 1.5226	* 1.4971	* 2.4774
10	* 1.4962	* 1.5112	* 1.5080	* 1.4791	* 1.6858	* 1.6204	* 1.6386	* .7326
	* 1.5559	* 1.5444	* 1.5467	* 1.5940	* 1.3987	* 1.4540	* 1.4353	* 3.1638
11	* 1.4212	* 1.5144	* 1.4726	* 1.5851	* 1.5808	* 1.6600	* 1.6333	* .7486
	* 1.6416	* 1.5406	* 1.6013	* 1.4921	* 1.5050	* 1.4287	* 1.4452	* 3.1103
12	* 1.5037	* 1.4983	* 1.6836	* 1.5797	* 1.7115	* 1.7382	* 1.0935	*
	* 1.5536	* 1.5676	* 1.4006	* 1.5058	* 1.3882	* 1.3699	* 2.1564	*
13	* 1.3794	* 1.5390	* 1.6194	* 1.6590	* 1.7382	* 1.7147	* .8771	*
	* 1.6950	* 1.5226	* 1.4553	* 1.4301	* 1.3705	* 1.3888	* 2.6881	*
14	* 1.4501	* 1.5637	* 1.6386	* 1.6322	* 1.0935	* .8771	*	*
	* 1.6071	* 1.4971	* 1.4360	* 1.4459	* 2.1579	* 2.6881	*	*
15	* .7304	* .9350	* .7326	* .7476	* F-SUB-Q			
	* 3.1606	* 2.4774	* 3.1670	* 3.1103	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 75% POWER, 50 EFPD, THIS IS LEVEL 4 OF 24
 (LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9703	* 1.3966	* 1.4651	* 1.3902	* 1.4855	* 1.3516	* 1.4169	* .7090
	* 2.2923	* 1.6054	* 1.5338	* 1.6195	* 1.5167	* 1.6697	* 1.5883	* 3.1447
9	* 1.3966	* 1.4009	* 1.4844	* 1.4898	* 1.4641	* 1.5037	* 1.5133	* .9029
	* 1.6054	* 1.6062	* 1.5167	* 1.5116	* 1.5475	* 1.5021	* 1.4921	* 2.4774
10	* 1.4651	* 1.4823	* 1.4791	* 1.4523	* 1.6504	* 1.5787	* 1.5776	* .7069
	* 1.5338	* 1.5182	* 1.5233	* 1.5637	* 1.3754	* 1.4373	* 1.4366	* 3.1670
11	* 1.3902	* 1.4887	* 1.4459	* 1.5604	* 1.5326	* 1.6140	* 1.5722	* .7197
	* 1.6195	* 1.5116	* 1.5708	* 1.4567	* 1.4907	* 1.4126	* 1.4452	* 3.1165
12	* 1.4855	* 1.4641	* 1.6483	* 1.5315	* 1.6750	* 1.6804	* 1.0560	
	* 1.5167	* 1.5475	* 1.3772	* 1.4914	* 1.3628	* 1.3610	* 2.1490	
13	* 1.3516	* 1.5037	* 1.5776	* 1.6129	* 1.6793	* 1.6493	* .8439	
	* 1.6697	* 1.5021	* 1.4386	* 1.4139	* 1.3616	* 1.3857	* 2.6858	
14	* 1.4169	* 1.5133	* 1.5776	* 1.5712	* 1.0560	* .8439		
	* 1.5883	* 1.4921	* 1.4373	* 1.4459	* 2.1505	* 2.6858		
15	* .7090	* .9029	* .7069	* .7197	* F-SUB-Q			
	* 3.1447	* 2.4774	* 3.1702	* 3.1196	* M-SUB-Q			

AT 75% POWER, 50 EFPD, THIS IS LEVEL 3 OF 24
 (LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9050	* 1.2927	* 1.3655	* 1.3205	* 1.4298	* 1.2938	* 1.3366	* .6619
	* 2.3922	* 1.6859	* 1.5997	* 1.6590	* 1.5316	* 1.6941	* 1.6365	* 3.2798
9	* 1.2927	* 1.3002	* 1.3859	* 1.4062	* 1.3730	* 1.4041	* 1.3955	* .8332
	* 1.6859	* 1.6822	* 1.5787	* 1.5582	* 1.6013	* 1.5629	* 1.5708	* 2.6140
10	* 1.3655	* 1.3837	* 1.3966	* 1.3912	* 1.5455	* 1.4576	* 1.4351	* .6555
	* 1.5997	* 1.5803	* 1.5692	* 1.5827	* 1.4248	* 1.5108	* 1.5323	* 3.3181
11	* 1.3205	* 1.4052	* 1.3848	* 1.4973	* 1.4384	* 1.5005	* 1.4212	* .6619
	* 1.6590	* 1.5590	* 1.5899	* 1.4704	* 1.5368	* 1.4725	* 1.5513	* 3.2971
12	* 1.4298	* 1.3730	* 1.5433	* 1.4384	* 1.5851	* 1.5487	* .9757	
	* 1.5316	* 1.6013	* 1.4268	* 1.5376	* 1.3950	* 1.4307	* 2.2575	
13	* 1.2938	* 1.4041	* 1.4566	* 1.4994	* 1.5487	* 1.4973	* .7743	
	* 1.6941	* 1.5629	* 1.5116	* 1.4738	* 1.4307	* 1.4787	* 2.8393	
14	* 1.3366	* 1.3966	* 1.4351	* 1.4201	* .9757	* .7743		
	* 1.6365	* 1.5708	* 1.5323	* 1.5521	* 2.2575	* 2.8393		
15	* .6619	* .8343	* .6555	* .6608	* F-SUB-Q			
	* 3.2798	* 2.6118	* 3.3216	* 3.3006	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 75% POWER, 50 EFPD, THIS IS LEVEL 2 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .7583	* 1.0560	* 1.1256	* 1.3173	* 1.2445	* 1.2852	* 1.1470	* .5612
	* 2.7962	* 2.0174	* 1.8963	* 1.6221	* 1.7192	* 1.6635	* 1.8636	* 3.7927
9	* 1.0560	* 1.2242	* 1.1299	* 1.2134	* 1.3462	* 1.1663	* 1.2231	* .6929
	* 2.0174	* 1.7432	* 1.8929	* 1.7648	* 1.5907	* 1.8352	* 1.7500	* 3.0706
10	* 1.1256	* 1.1288	* 1.1942	* 1.3794	* 1.2991	* 1.1738	* 1.2231	* .5558
	* 1.8963	* 1.8952	* 1.7941	* 1.5559	* 1.6538	* 1.8330	* 1.7539	* 3.8392
11	* 1.3173	* 1.2124	* 1.3741	* 1.3023	* 1.4159	* 1.2434	* 1.1578	* .5537
	* 1.6221	* 1.7648	* 1.5614	* 1.6503	* 1.5211	* 1.7345	* 1.8581	* 3.8534
12	* 1.2445	* 1.3462	* 1.2959	* 1.4137	* 1.3602	* 1.3570		* .8236
	* 1.7192	* 1.5915	* 1.6582	* 1.5233	* 1.5851	* 1.5915		* 2.6118
13	* 1.2852	* 1.1663	* 1.1727	* 1.2424	* 1.3570	* 1.2102		* .6405
	* 1.6635	* 1.8341	* 1.8341	* 1.7354	* 1.5915	* 1.7859		* 3.3573
14	* 1.1470	* 1.2231	* 1.2231	* 1.1567		* .8236		* .6405
	* 1.8636	* 1.7500	* 1.7539	* 1.8581		* 2.6118		* 3.3573
15	* .5612	* .6940	* .5548	* .5526	* F-SUB-Q			
	* 3.7927	* 3.0706	* 3.8392	* 3.8581	* M-SUB-Q			

AT 75% POWER, 50 EFPD, THIS IS LEVEL 1 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .5130	* .4348	* .4787	* .5601	* .5226	* .5462	* .4755	* .3738
	* 4.0531	* 4.7770	* 4.3458	* 3.7161	* 3.9910	* 3.8158	* 4.3762	* 5.5577
9	* .4348	* .5044	* .4605	* .5237	* .5708	* .5109	* .4766	* .3074
	* 4.7770	* 4.1225	* 4.5282	* 3.9809	* 3.6511	* 4.0848	* 4.3701	* 6.7580
10	* .4787	* .4605	* .5323	* .5869	* .5494	* .4809	* .4712	* .3845
	* 4.3458	* 4.5347	* 3.9259	* 3.5556	* 3.8112	* 4.3640	* 4.4257	* 5.4228
11	* .5601	* .5237	* .5858	* .5548	* .5976	* .5162	* .4391	* .2603
	* 3.7161	* 3.9859	* 3.5678	* 3.7835	* 3.5039	* 4.0689	* 4.7698	* 8.0024
12	* .5226	* .5708	* .5473	* .5976	* .5655	* .5291		* .3866
	* 3.9910	* 3.6511	* 3.8251	* 3.5078	* 3.7117	* 3.9708		* 5.4228
13	* .5462	* .5109	* .4798	* .5162	* .5291	* .4712		* .2902
	* 3.8158	* 4.0795	* 4.3701	* 4.0689	* 3.9708	* 4.4572		* 7.2262
14	* .4755	* .4766	* .4712	* .4380	* .3866	* .2892		
	* 4.3762	* 4.3701	* 4.4257	* 4.7698	* 5.4322	* 7.2262		
15	* .3738	* .3074	* .3845	* .2603	* F-SUB-Q			
	* 5.5577	* 6.7580	* 5.4228	* 8.0024	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 75% POWER, 100 EFPD, THIS IS LEVEL 24 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .4091 *	* .3856 *	* .4113 *	* .4263 *	* .4016 *	* .3941 *	* .3566 *	* .3224 *
	* 3.8475 *	* 4.6540 *	* 4.3409 *	* 4.0498 *	* 4.4001 *	* 4.3293 *	* 4.8972 *	* 5.3680 *
9	* .3856 *	* .4220 *	* .4081 *	* .4059 *	* .4113 *	* .3866 *	* .3577 *	* .2549 *
	* 4.6540 *	* 4.1207 *	* 4.3868 *	* 4.3868 *	* 4.1694 *	* 4.5518 *	* 4.7440 *	* 6.7852 *
10	* .4113 *	* .4081 *	* .4016 *	* .4123 *	* .3920 *	* .3674 *	* .3491 *	* .3095 *
	* 4.3409 *	* 4.3868 *	* 4.4473 *	* 4.1818 *	* 4.5305 *	* 4.8081 *	* 4.8667 *	* 5.5955 *
11	* .4263 *	* .4059 *	* .4123 *	* .3834 *	* .3577 *	* .3374 *	* .3084 *	* .2067 *
	* 4.0498 *	* 4.3868 *	* 4.1818 *	* 4.6391 *	* 4.5318 *	* 5.0196 *	* 5.4916 *	* 8.3691 *
12	* .4016 *	* .4123 *	* .3920 *	* .3577 *	* .2902 *	* .2699 *	* .2549 *	
	* 4.4001 *	* 4.1694 *	* 4.5305 *	* 4.5318 *	* 4.7545 *	* 4.8705 *	* 6.1846 *	
13	* .3941 *	* .3877 *	* .3674 *	* .3374 *	* .2699 *	* .2324 *	* .1767 *	
	* 4.3293 *	* 4.5447 *	* 4.8160 *	* 5.0196 *	* 4.8705 *	* 5.3757 *	* 8.0776 *	
14	* .3566 *	* .3577 *	* .3491 *	* .3084 *	* .2549 *	* .1767 *		
	* 4.8972 *	* 4.7440 *	* 4.8667 *	* 5.4810 *	* 6.1846 *	* 8.0776 *		
15	* .3224 *	* .2549 *	* .3095 *	* .2067 *	F-SUB-Q			
	* 5.3680 *	* 6.7852 *	* 5.5955 *	* 8.3691 *	M-SUB-Q			

AT 75% POWER, 100 EFPD, THIS IS LEVEL 23 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .5644 *	* .9029 *	* .9660 *	* .8557 *	* .9211 *	* .7818 *	* .8193 *	* .4648 *
	* 2.6910 *	* 2.0691 *	* 1.9234 *	* 2.1024 *	* 2.0011 *	* 2.2780 *	* 2.2199 *	* 3.8724 *
9	* .9029 *	* .8643 *	* .9735 *	* .9585 *	* .8118 *	* .8868 *	* .8097 *	* .5580 *
	* 2.0691 *	* 2.0869 *	* 1.9071 *	* 1.9311 *	* 2.2054 *	* 2.0647 *	* 2.1833 *	* 3.2234 *
10	* .9660 *	* .9735 *	* .9639 *	* .8375 *	* .9050 *	* .8868 *	* .8000 *	* .4252 *
	* 1.9234 *	* 1.9071 *	* 1.9247 *	* 2.1453 *	* 2.0275 *	* 2.0632 *	* 2.2037 *	* 4.2310 *
11	* .8557 *	* .9596 *	* .8365 *	* .8632 *	* .7347 *	* .7990 *	* .7379 *	* .4252 *
	* 2.1024 *	* 1.9311 *	* 2.1469 *	* 2.1450 *	* 2.3481 *	* 2.1816 *	* 2.3575 *	* 4.2188 *
12	* .9211 *	* .8140 *	* .9061 *	* .7347 *	* .6233 *	* .6287 *	* .5205 *	
	* 2.0011 *	* 2.1985 *	* 2.0275 *	* 2.3481 *	* 2.1191 *	* 2.2230 *	* 3.1282 *	
13	* .7818 *	* .8879 *	* .8879 *	* .7990 *	* .6287 *	* .5708 *	* .3781 *	
	* 2.2780 *	* 2.0647 *	* 2.0632 *	* 2.1816 *	* 2.2230 *	* 2.3163 *	* 3.9084 *	
14	* .8193 *	* .8097 *	* .8000 *	* .7379 *	* .5205 *	* .3781 *		
	* 2.2199 *	* 2.1833 *	* 2.2037 *	* 2.3557 *	* 3.1282 *	* 3.9084 *		
15	* .4648 *	* .5591 *	* .4252 *	* .4252 *	F-SUB-Q			
	* 3.8724 *	* 3.2163 *	* 4.2310 *	* 4.2188 *	M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 75% POWER, 100 EFPD, THIS IS LEVEL 22 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .7004	* 1.1353	* 1.2199	* 1.1074	* 1.1706	* 1.0196	* 1.0507	* .5816
	* 2.2623	* 1.6954	* 1.5689	* 1.6732	* 1.6225	* 1.7978	* 1.7870	* 3.1922
9	* 1.1353	* 1.1160	* 1.2263	* 1.2145	* 1.0549	* 1.1363	* 1.0721	* .7122
	* 1.6954	* 1.6644	* 1.5597	* 1.5731	* 1.7482	* 1.6600	* 1.6941	* 2.6023
10	* 1.2199	* 1.2263	* 1.2177	* 1.0849	* 1.1599	* 1.1374	* 1.0667	* .5387
	* 1.5689	* 1.5597	* 1.5714	* 1.7063	* 1.6315	* 1.6591	* 1.7032	* 3.4383
11	* 1.1074	* 1.2145	* 1.0839	* 1.0988	* .9650	* 1.0314	* .9864	* .5376
	* 1.6732	* 1.5731	* 1.7073	* 1.7415	* 1.8403	* 1.7427	* 1.8198	* 3.4504
12	* 1.1706	* 1.0571	* 1.1610	* .9650	* .8075	* .8397	* .6640	*
	* 1.6225	* 1.7428	* 1.6306	* 1.8403	* 1.6979	* 1.7156	* 2.5408	*
13	* 1.0196	* 1.1374	* 1.1385	* 1.0314	* .8397	* .7743	* .4884	*
	* 1.7978	* 1.6591	* 1.6581	* 1.7428	* 1.7156	* 1.7737	* 3.1459	*
14	* 1.0507	* 1.0731	* 1.0667	* .9864	* .6640	* .4884	*	*
	* 1.7870	* 1.6931	* 1.7022	* 1.8198	* 2.5408	* 3.1428	*	*
15	* .5816	* .7133	* .5387	* .5376	* F-SUB-Q			
	* 3.1922	* 2.5977	* 3.4383	* 3.4504	* M-SUB-Q			

AT 75% POWER, 100 EFPD, THIS IS LEVEL 21 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .7968	* 1.2970	* 1.3987	* 1.3023	* 1.3720	* 1.2220	* 1.2413	* .6672
	* 2.0889	* 1.5359	* 1.4142	* 1.4674	* 1.4320	* 1.5484	* 1.5618	* 2.8709
9	* 1.2970	* 1.3066	* 1.4030	* 1.3998	* 1.2595	* 1.3259	* 1.2916	* .8300
	* 1.5359	* 1.4689	* 1.4102	* 1.4102	* 1.5116	* 1.4725	* 1.4525	* 2.3110
10	* 1.3987	* 1.4030	* 1.3944	* 1.2809	* 1.3623	* 1.3248	* 1.2863	* .6308
	* 1.4142	* 1.4102	* 1.4203	* 1.4934	* 1.4396	* 1.4777	* 1.4599	* 3.0481
11	* 1.3023	* 1.4009	* 1.2798	* 1.2948	* 1.1588	* 1.2145	* 1.1920	* .6265
	* 1.4674	* 1.4102	* 1.4950	* 1.5327	* 1.5805	* 1.5365	* 1.5683	* 3.0798
12	* 1.3720	* 1.2627	* 1.3634	* 1.1578	* .9682	* 1.0217	* .7797	*
	* 1.4320	* 1.5076	* 1.4396	* 1.5805	* 1.4827	* 1.4637	* 2.2612	*
13	* 1.2220	* 1.3270	* 1.3248	* 1.2145	* 1.0217	* .9553	* .5783	*
	* 1.5484	* 1.4718	* 1.4769	* 1.5365	* 1.4637	* 1.5111	* 2.7943	*
14	* 1.2413	* 1.2916	* 1.2873	* 1.1920	* .7797	* .5783	*	*
	* 1.5618	* 1.4518	* 1.4599	* 1.5683	* 2.2614	* 2.7943	*	*
15	* .6672	* .8311	* .6308	* .6265	* F-SUB-Q			
	* 2.8709	* 2.3074	* 3.0449	* 3.0798	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 75% POWER, 100 EFPD, THIS IS LEVEL 20 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .8461	* 1.3794	* 1.4876	* 1.4084	* 1.4865	* 1.3430	* 1.3516	* .7154
	* 2.0874	* 1.5154	* 1.3884	* 1.4141	* 1.3788	* 1.4668	* 1.4934	* 2.7950
9	* 1.3794	* 1.4084	* 1.4908	* 1.4983	* 1.3805	* 1.4341	* 1.4212	* .8964
	* 1.5154	* 1.4218	* 1.3852	* 1.3762	* 1.4360	* 1.4242	* 1.3749	* 2.2356
10	* 1.4876	* 1.4908	* 1.4833	* 1.3912	* 1.4833	* 1.4319	* 1.4191	* .6844
	* 1.3884	* 1.3852	* 1.3942	* 1.4339	* 1.3865	* 1.4324	* 1.3829	* 2.9382
11	* 1.4084	* 1.4983	* 1.3902	* 1.4137	* 1.2841	* 1.3302	* 1.3195	* .6790
	* 1.4141	* 1.3756	* 1.4353	* 1.4742	* 1.4885	* 1.4740	* 1.4878	* 2.9913
12	* 1.4865	* 1.3837	* 1.4833	* 1.2820	* 1.0817	* 1.1513	* .8557	*
	* 1.3788	* 1.4332	* 1.3865	* 1.4892	* 1.4139	* 1.3788	* 2.1882	*
13	* 1.3430	* 1.4341	* 1.4319	* 1.3291	* 1.1513	* 1.0881	* .6415	*
	* 1.4668	* 1.4235	* 1.4317	* 1.4747	* 1.3788	* 1.4248	* 2.7012	*
14	* 1.3516	* 1.4212	* 1.4191	* 1.3195	* .8557	* .6415	*	*
	* 1.4934	* 1.3743	* 1.3829	* 1.4885	* 2.1897	* 2.7012	*	*
15	* .7154	* .8975	* .6844	* .6790	* F-SUB-Q			
	* 2.7950	* 2.2339	* 2.9382	* 2.9913	* M-SUB-Q			

AT 75% POWER, 100 EFPD, THIS IS LEVEL 19 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .8964	* 1.4362	* 1.5433	* 1.4748	* 1.5604	* 1.4223	* 1.4255	* .7476
	* 2.1314	* 1.5521	* 1.4166	* 1.4249	* 1.3853	* 1.4580	* 1.4927	* 2.8213
9	* 1.4362	* 1.4716	* 1.5465	* 1.5594	* 1.4576	* 1.5069	* 1.5069	* .9403
	* 1.5521	* 1.4398	* 1.4140	* 1.3969	* 1.4327	* 1.4342	* 1.3657	* 2.2503
10	* 1.5433	* 1.5455	* 1.5401	* 1.4630	* 1.5690	* 1.5080	* 1.5101	* .7229
	* 1.4166	* 1.4140	* 1.4227	* 1.4420	* 1.3910	* 1.4446	* 1.3748	* 2.9459
11	* 1.4748	* 1.5594	* 1.4619	* 1.5037	* 1.3837	* 1.4244	* 1.4137	* .7165
	* 1.4249	* 1.3962	* 1.4434	* 1.4698	* 1.4696	* 1.4701	* 1.4721	* 3.0169
12	* 1.5604	* 1.4608	* 1.5690	* 1.3805	* 1.1984	* 1.2777	* .9232	*
	* 1.3853	* 1.4292	* 1.3910	* 1.4698	* 1.4058	* 1.3644	* 2.1945	*
13	* 1.4223	* 1.5069	* 1.5080	* 1.4234	* 1.2777	* 1.2188	* .7026	*
	* 1.4580	* 1.4335	* 1.4439	* 1.4708	* 1.3644	* 1.4120	* 2.7157	*
14	* 1.4255	* 1.5069	* 1.5101	* 1.4137	* .9232	* .7026	*	*
	* 1.4927	* 1.3650	* 1.3741	* 1.4721	* 2.1945	* 2.7157	*	*
15	* .7476	* .9414	* .7229	* .7165	* F-SUB-Q			
	* 2.8213	* 2.2486	* 2.9459	* 3.0169	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 75% POWER, 100 EFPD, THIS IS LEVEL 18 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9864	* 1.5048	* 1.5990	* 1.5358	* 1.6301	* 1.4930	* 1.4930	* .7775
	* 2.1909	* 1.5813	* 1.4617	* 1.4487	* 1.4125	* 1.4767	* 1.5145	* 2.8748
9	* 1.5048	* 1.5326	* 1.6044	* 1.6204	* 1.5347	* 1.5776	* 1.5862	* .9821
	* 1.5813	* 1.4797	* 1.4589	* 1.4353	* 1.4552	* 1.4646	* 1.3805	* 2.2907
10	* 1.5990	* 1.6033	* 1.6001	* 1.5294	* 1.6558	* 1.5862	* 1.5969	* .7572
	* 1.4617	* 1.4596	* 1.4660	* 1.4737	* 1.4165	* 1.4760	* 1.3904	* 3.0004
11	* 1.5358	* 1.6204	* 1.5283	* 1.5990	* 1.4876	* 1.5305	* 1.5090	* .7540
	* 1.4487	* 1.4347	* 1.4752	* 1.4739	* 1.4707	* 1.4804	* 1.4687	* 3.0768
12	* 1.6301	* 1.5347	* 1.6558	* 1.4844	* 1.3912	* 1.4384	* .9992	*
	* 1.4125	* 1.4516	* 1.4165	* 1.4709	* 1.4127	* 1.3634	* 2.2170	*
13	* 1.4930	* 1.5787	* 1.5862	* 1.5294	* 1.4384	* 1.3859	* .7722	*
	* 1.4767	* 1.4631	* 1.4760	* 1.4811	* 1.3638	* 1.4142	* 2.7405	*
14	* 1.4930	* 1.5862	* 1.5969	* 1.5090	* .9992	* .7722	*	*
	* 1.5145	* 1.3798	* 1.3904	* 1.4687	* 2.2181	* 2.7405	*	*
15	* .7775	* .9832	* .7572	* .7540	* F-SUB-Q			
	* 2.8748	* 2.2889	* 3.0004	* 3.0768	* M-SUB-Q			

AT 75% POWER, 100 EFPD, THIS IS LEVEL 17 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.0817	* 1.5433	* 1.6236	* 1.5765	* 1.6665	* 1.5369	* 1.5315	* .7915
	* 2.3112	* 1.6581	* 1.5507	* 1.5158	* 1.4798	* 1.5381	* 1.5740	* 3.0108
9	* 1.5433	* 1.5701	* 1.6301	* 1.6493	* 1.5862	* 1.6161	* 1.6376	* 1.0035
	* 1.6581	* 1.5668	* 1.5468	* 1.5129	* 1.5213	* 1.5351	* 1.4349	* 2.3945
10	* 1.6236	* 1.6290	* 1.6301	* 1.5797	* 1.7125	* 1.6301	* 1.6568	* .7775
	* 1.5507	* 1.5476	* 1.5523	* 1.5413	* 1.4741	* 1.5447	* 1.4477	* 3.1350
11	* 1.5765	* 1.6493	* 1.5787	* 1.6622	* 1.5679	* 1.6108	* 1.5797	* .7775
	* 1.5158	* 1.5114	* 1.5461	* 1.5159	* 1.5095	* 1.5225	* 1.5067	* 3.1970
12	* 1.6665	* 1.5872	* 1.7115	* 1.5637	* 1.6161	* 1.6054	* 1.0571	*
	* 1.4798	* 1.5182	* 1.4741	* 1.5095	* 1.4566	* 1.4045	* 2.2838	*
13	* 1.5369	* 1.6161	* 1.6301	* 1.6097	* 1.6054	* 1.5369	* .8279	*
	* 1.5381	* 1.5343	* 1.5447	* 1.5226	* 1.4045	* 1.4595	* 2.8411	*
14	* 1.5315	* 1.6376	* 1.6568	* 1.5797	* 1.0571	* .8279	*	*
	* 1.5740	* 1.4349	* 1.4477	* 1.5067	* 2.2840	* 2.8411	*	*
15	* .7915	* 1.0046	* .7765	* .7765	* F-SUB-Q			
	* 3.0108	* 2.3926	* 3.1350	* 3.1970	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 75% POWER, 100 EFPD, THIS IS LEVEL 16 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.1224	* 1.5744	* 1.6483	* 1.6097	* 1.6997	* 1.5722	* 1.5669	* .8065
	* 2.4475	* 1.7345	* 1.6490	* 1.6110	* 1.5615	* 1.6304	* 1.6525	* 3.1748
9	* 1.5744	* 1.5990	* 1.6558	* 1.6761	* 1.6301	* 1.6515	* 1.6804	* 1.0239
	* 1.7345	* 1.6575	* 1.6411	* 1.6007	* 1.6063	* 1.6210	* 1.5189	* 2.5231
10	* 1.6483	* 1.6547	* 1.6633	* 1.6343	* 1.7618	* 1.6729	* 1.7061	* .7968
	* 1.6490	* 1.6420	* 1.6337	* 1.6129	* 1.5278	* 1.6057	* 1.5172	* 3.2944
11	* 1.6097	* 1.6761	* 1.6290	* 1.7179	* 1.6354	* 1.6793	* 1.6397	* .7990
	* 1.6110	* 1.5999	* 1.6177	* 1.5792	* 1.5761	* 1.5807	* 1.5765	* 3.3117
12	* 1.6997	* 1.6301	* 1.7618	* 1.6354	* 1.7393	* 1.7275	* 1.1074	*
	* 1.5615	* 1.6063	* 1.5278	* 1.5761	* 1.5101	* 1.4626	* 2.3743	*
13	* 1.5722	* 1.6526	* 1.6729	* 1.6783	* 1.7275	* 1.6483	* .8761	*
	* 1.6304	* 1.6202	* 1.6057	* 1.5815	* 1.4633	* 1.5193	* 2.9474	*
14	* 1.5669	* 1.6804	* 1.7061	* 1.6397	* 1.1063	* .8761	*	*
	* 1.6525	* 1.5181	* 1.5172	* 1.5773	* 2.3743	* 2.9474	*	*
15	* .8065	* 1.0249	* .7968	* .7990	* F-SUB-Q			
	* 3.1748	* 2.5231	* 3.2944	* 3.3153	* M-SUB-Q			

AT 75% POWER, 100 EFPD, THIS IS LEVEL 15 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.1138	* 1.5647	* 1.6354	* 1.6022	* 1.6933	* 1.5679	* 1.5637	* .8043
	* 2.6329	* 1.8688	* 1.7805	* 1.7667	* 1.6961	* 1.7834	* 1.7887	* 3.4337
9	* 1.5647	* 1.5872	* 1.6451	* 1.6675	* 1.6301	* 1.6504	* 1.6772	* 1.0217
	* 1.8688	* 1.8050	* 1.7705	* 1.7379	* 1.7367	* 1.7405	* 1.6599	* 2.7354
10	* 1.6354	* 1.6440	* 1.6600	* 1.6440	* 1.7661	* 1.6793	* 1.7093	* .7947
	* 1.7805	* 1.7715	* 1.7546	* 1.7313	* 1.6333	* 1.7134	* 1.6367	* 3.5582
11	* 1.6022	* 1.6686	* 1.6386	* 1.7265	* 1.6643	* 1.6975	* 1.6515	* .8011
	* 1.7667	* 1.7362	* 1.7373	* 1.6816	* 1.7029	* 1.6936	* 1.6942	* 3.5362
12	* 1.6933	* 1.6301	* 1.7661	* 1.6633	* 1.7768	* 1.7661	* 1.1235	*
	* 1.6961	* 1.7357	* 1.6342	* 1.7038	* 1.6166	* 1.5792	* 2.5436	*
13	* 1.5679	* 1.6515	* 1.6793	* 1.6965	* 1.7661	* 1.6858	* .8954	*
	* 1.7834	* 1.7405	* 1.7144	* 1.6937	* 1.5793	* 1.6410	* 3.1504	*
14	* 1.5637	* 1.6783	* 1.7082	* 1.6504	* 1.1235	* .8954	*	*
	* 1.7887	* 1.6599	* 1.6367	* 1.6942	* 2.5457	* 3.1504	*	*
15	* .8043	* 1.0228	* .7947	* .8011	* F-SUB-Q			
	* 3.4337	* 2.7330	* 3.5623	* 3.5384	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 75% POWER, 100 EFPD, THIS IS LEVEL 14 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.1213	* 1.5722	* 1.6451	* 1.6290	* 1.7147	* 1.5969	* 1.5904	* .8129 *
	* 2.8130	* 2.0019	* 1.9046	* 1.8903	* 1.8130	* 1.9133	* 1.9039	* 3.6769 *
9	* 1.5722	* 1.6065	* 1.6568	* 1.6868	* 1.6633	* 1.6718	* 1.7147	* 1.0357 *
	* 2.0019	* 1.9328	* 1.8930	* 1.8527	* 1.8477	* 1.8509	* 1.7639	* 2.9214 *
10	* 1.6451	* 1.6558	* 1.6793	* 1.6836	* 1.7993	* 1.7072	* 1.7500	* .8097 *
	* 1.9046	* 1.8941	* 1.8684	* 1.8347	* 1.7290	* 1.8162	* 1.7352	* 3.7561 *
11	* 1.6290	* 1.6868	* 1.6783	* 1.7607	* 1.7157	* 1.7393	* 1.6965	* .8140 *
	* 1.8903	* 1.8516	* 1.8407	* 1.7751	* 1.7943	* 1.7786	* 1.7895	* 3.7444 *
12	* 1.7147	* 1.6633	* 1.7982	* 1.7147	* 1.8282	* 1.8293	* 1.1492 *	
	* 1.8130	* 1.8468	* 1.7290	* 1.7949	* 1.6986	* 1.6666	* 2.6798 *	
13	* 1.5969	* 1.6729	* 1.7061	* 1.7382	* 1.8293	* 1.7489	* .9189 *	
	* 1.9133	* 1.8500	* 1.8162	* 1.7796	* 1.6671	* 1.7347	* 3.3350 *	
14	* 1.5904	* 1.7147	* 1.7500	* 1.6954	* 1.1481	* .9189 *		
	* 1.9039	* 1.7637	* 1.7352	* 1.7900	* 2.6798	* 3.3350 *		
15	* .8129	* 1.0357	* .8097	* .8140	* F-SUB-Q			
	* 3.6769	* 2.9214	* 3.7598	* 3.7444	* M-SUB-Q			

AT 75% POWER, 100 EFPD, THIS IS LEVEL 13 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.1063	* 1.5572	* 1.6322	* 1.6268	* 1.7104	* 1.5979	* 1.5915	* .8107 *
	* 2.9877	* 2.1277	* 2.0307	* 2.0294	* 1.9386	* 2.0672	* 2.0589	* 3.9836 *
9	* 1.5572	* 1.5979	* 1.6451	* 1.6804	* 1.6654	* 1.6697	* 1.7190	* 1.0335 *
	* 2.1277	* 2.0672	* 2.0150	* 1.9729	* 1.9828	* 1.9855	* 1.9155	* 3.1609 *
10	* 1.6322	* 1.6440	* 1.6740	* 1.6911	* 1.8014	* 1.7082	* 1.7575	* .8097 *
	* 2.0307	* 2.0163	* 1.9817	* 1.9553	* 1.8413	* 1.9410	* 1.8796	* 4.0509 *
11	* 1.6268	* 1.6804	* 1.6847	* 1.7650	* 1.7297	* 1.7500	* 1.7061	* .8150 *
	* 2.0294	* 1.9729	* 1.9627	* 1.8802	* 1.9120	* 1.8962	* 1.9358	* 4.0393 *
12	* 1.7104	* 1.6654	* 1.8004	* 1.7286	* 1.8432	* 1.8496	* 1.1545 *	
	* 1.9386	* 1.9828	* 1.8424	* 1.9132	* 1.8009	* 1.7877	* 2.8748 *	
13	* 1.5979	* 1.6697	* 1.7072	* 1.7489	* 1.8496	* 1.7693	* .9253 *	
	* 2.0672	* 1.9855	* 1.9422	* 1.8973	* 1.7877	* 1.8651	* 3.5723 *	
14	* 1.5915	* 1.7190	* 1.7564	* 1.7061	* 1.1545	* .9253 *		
	* 2.0589	* 1.9155	* 1.8808	* 1.9370	* 2.8748	* 3.5723 *		
15	* .8107	* 1.0335	* .8097	* .8140	* F-SUB-Q			
	* 3.9836	* 3.1583	* 4.0551	* 4.0393	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 75% POWER, 100 EFPD, THIS IS LEVEL 12 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.0828	* 1.5262	* 1.6022	* 1.6022	* 1.6858	* 1.5754	* 1.5722	* .8000
	* 3.0261	* 2.1534	* 2.0504	* 2.0518	* 1.9495	* 2.0860	* 2.0874	* 4.0848
9	* 1.5262	* 1.5669	* 1.6161	* 1.6558	* 1.6440	* 1.6472	* 1.6975	* 1.0196
	* 2.1534	* 2.0972	* 2.0344	* 1.9866	* 2.0019	* 1.9968	* 1.9374	* 3.2191
10	* 1.6022	* 1.6151	* 1.6483	* 1.6708	* 1.7800	* 1.6890	* 1.7372	* .8000
	* 2.0504	* 2.0358	* 1.9968	* 1.9741	* 1.8515	* 1.9519	* 1.8963	* 4.1062
11	* 1.6022	* 1.6558	* 1.6643	* 1.7457	* 1.7136	* 1.7350	* 1.6890	* .8054
	* 2.0518	* 1.9866	* 1.9816	* 1.8906	* 1.9303	* 1.9056	* 1.9544	* 4.0848
12	* 1.6858	* 1.6440	* 1.7789	* 1.7136	* 1.8282	* 1.8368	* 1.1438	*
	* 1.9495	* 2.0019	* 1.8515	* 1.9303	* 1.8107	* 1.8034	* 2.8892	*
13	* 1.5754	* 1.6483	* 1.6879	* 1.7339	* 1.8357	* 1.7575	* .9178	*
	* 2.0860	* 1.9968	* 1.9532	* 1.9067	* 1.8034	* 1.8849	* 3.6048	*
14	* 1.5722	* 1.6975	* 1.7361	* 1.6890	* 1.1438	* .9178	*	*
	* 2.0874	* 1.9374	* 1.8963	* 1.9556	* 2.8892	* 3.6048	*	*
15	* .8000	* 1.0196	* .7990	* .8043	* F-SUB-Q			
	* 4.0848	* 3.2191	* 4.1062	* 4.0848	* M-SUB-Q			

AT 75% POWER, 100 EFPD, THIS IS LEVEL 11 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.0753	* 1.5230	* 1.6022	* 1.6108	* 1.6933	* 1.5862	* 1.5851	* .8032
	* 2.9885	* 2.1142	* 2.0083	* 1.9981	* 1.8998	* 2.0278	* 2.0187	* 3.9557
9	* 1.5230	* 1.5701	* 1.6172	* 1.6611	* 1.6568	* 1.6558	* 1.7147	* 1.0249
	* 2.1142	* 2.0504	* 1.9917	* 1.9410	* 1.9507	* 1.9483	* 1.8793	* 3.1321
10	* 1.6022	* 1.6161	* 1.6536	* 1.6847	* 1.7950	* 1.6997	* 1.7554	* .8032
	* 2.0083	* 1.9930	* 1.9556	* 1.9303	* 1.8076	* 1.9126	* 1.8438	* 4.0012
11	* 1.6108	* 1.6611	* 1.6793	* 1.7575	* 1.7329	* 1.7522	* 1.7082	* .8097
	* 1.9981	* 1.9422	* 1.9374	* 1.8536	* 1.8838	* 1.8625	* 1.9091	* 3.9961
12	* 1.6933	* 1.6568	* 1.7929	* 1.7318	* 1.8475	* 1.8625	* 1.1535	*
	* 1.8998	* 1.9507	* 1.8086	* 1.8849	* 1.7668	* 1.7549	* 2.8265	*
13	* 1.5862	* 1.6568	* 1.6986	* 1.7511	* 1.8614	* 1.7832	* .9264	*
	* 2.0278	* 1.9483	* 1.9137	* 1.8636	* 1.7549	* 1.8330	* 3.5236	*
14	* 1.5851	* 1.7147	* 1.7554	* 1.7072	* 1.1535	* .9264	*	*
	* 2.0187	* 1.8793	* 1.8449	* 1.9091	* 2.8291	* 3.5236	*	*
15	* .8032	* 1.0249	* .8032	* .8086	* F-SUB-Q			
	* 3.9557	* 3.1321	* 4.0063	* 3.9961	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 75% POWER, 100 EFPD, THIS IS LEVEL 10 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.0517	* 1.4983	* 1.5787	* 1.5979	* 1.6761	* 1.5754	* 1.5744	* .7936
	* 2.9491	* 2.0626	* 1.9519	* 1.9196	* 1.8277	* 1.9374	* 1.9243	* 3.7608
9	* 1.4983	* 1.5519	* 1.5947	* 1.6429	* 1.6472	* 1.6397	* 1.7072	* 1.0142
	* 2.0626	* 1.9917	* 1.9410	* 1.8793	* 1.8929	* 1.8906	* 1.7972	* 2.9715
10	* 1.5787	* 1.5936	* 1.6343	* 1.6761	* 1.7811	* 1.6847	* 1.7489	* .7958
	* 1.9519	* 1.9422	* 1.9102	* 1.8849	* 1.7628	* 1.8714	* 1.7839	* 3.8345
11	* 1.5979	* 1.6429	* 1.6697	* 1.7425	* 1.7265	* 1.7425	* 1.7029	* .8011
	* 1.9196	* 1.8781	* 1.8918	* 1.8192	* 1.8482	* 1.8319	* 1.8547	* 3.8581
12	* 1.6761	* 1.6472	* 1.7800	* 1.7254	* 1.8389	* 1.8603	* 1.1449	*
	* 1.8277	* 1.8929	* 1.7628	* 1.8482	* 1.7373	* 1.7211	* 2.7838	*
13	* 1.5754	* 1.6397	* 1.6836	* 1.7414	* 1.8593	* 1.7821	* .9189	*
	* 1.9374	* 1.8895	* 1.8725	* 1.8330	* 1.7220	* 1.7993	* 3.4766	*
14	* 1.5744	* 1.7072	* 1.7489	* 1.7018	* 1.1438	* .9189	*	*
	* 1.9243	* 1.7972	* 1.7839	* 1.8547	* 2.7838	* 3.4766	*	*
15	* .7936	* 1.0153	* .7947	* .8011	* F-SUB-Q			
	* 3.7608	* 2.9715	* 3.8345	* 3.8581	* M-SUB-Q			

AT 75% POWER, 100 EFPD, THIS IS LEVEL 9 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.0292	* 1.4673	* 1.5476	* 1.5712	* 1.6472	* 1.5519	* 1.5519	* .7808
	* 2.8265	* 1.9729	* 1.8558	* 1.8266	* 1.7412	* 1.8449	* 1.8330	* 3.5924
9	* 1.4673	* 1.5240	* 1.5647	* 1.6140	* 1.6226	* 1.6140	* 1.6847	* .9982
	* 1.9729	* 1.8940	* 1.8438	* 1.7890	* 1.7941	* 1.7931	* 1.7061	* 2.8342
10	* 1.5476	* 1.5626	* 1.6044	* 1.6515	* 1.7564	* 1.6590	* 1.7265	* .7840
	* 1.8558	* 1.8449	* 1.8181	* 1.8024	* 1.6750	* 1.7809	* 1.6904	* 3.6383
11	* 1.5712	* 1.6140	* 1.6451	* 1.7168	* 1.7040	* 1.7190	* 1.6804	* .7883
	* 1.8266	* 1.7880	* 1.8086	* 1.7393	* 1.7829	* 1.7608	* 1.7708	* 3.6725
12	* 1.6472	* 1.6226	* 1.7543	* 1.7040	* 1.8153	* 1.8389	* 1.1278	*
	* 1.7412	* 1.7941	* 1.6759	* 1.7839	* 1.6904	* 1.6661	* 2.6607	*
13	* 1.5519	* 1.6140	* 1.6579	* 1.7179	* 1.8378	* 1.7618	* .9050	*
	* 1.8449	* 1.7931	* 1.7809	* 1.7618	* 1.6670	* 1.7393	* 3.3322	*
14	* 1.5519	* 1.6847	* 1.7265	* 1.6804	* 1.1278	* .9050	*	*
	* 1.8330	* 1.7052	* 1.6904	* 1.7718	* 2.6607	* 3.3322	*	*
15	* .7808	* .9982	* .7829	* .7883	* F-SUB-Q			
	* 3.5924	* 2.8316	* 3.6383	* 3.6768	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 75% POWER, 100 EFPD, THIS IS LEVEL 8 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9992	* 1.4287	* 1.5090	* 1.5305	* 1.6086	* 1.5123	* 1.5165	* .7626
	* 2.6881	* 1.8838	* 1.7829	* 1.7618	* 1.6759	* 1.7809	* 1.7668	* 3.4651
9	* 1.4287	* 1.4812	* 1.5262	* 1.5765	* 1.5829	* 1.5776	* 1.6429	* .9746
	* 1.8838	* 1.8202	* 1.7698	* 1.7202	* 1.7211	* 1.7192	* 1.6425	* 2.7279
10	* 1.5090	* 1.5240	* 1.5669	* 1.6108	* 1.7179	* 1.6226	* 1.6847	* .7636
	* 1.7829	* 1.7708	* 1.7393	* 1.7173	* 1.5980	* 1.6996	* 1.6187	* 3.5039
11	* 1.5305	* 1.5754	* 1.6044	* 1.6772	* 1.6643	* 1.6825	* 1.6408	* .7700
	* 1.7618	* 1.7183	* 1.7239	* 1.6547	* 1.7033	* 1.6759	* 1.6868	* 3.5117
12	* 1.6086	* 1.5819	* 1.7157	* 1.6633	* 1.7768	* 1.7971	* 1.1031	
	* 1.6759	* 1.7211	* 1.5989	* 1.7033	* 1.6071	* 1.5915	* 2.5397	
13	* 1.5123	* 1.5776	* 1.6215	* 1.6815	* 1.7961	* 1.7222	* .8857	
	* 1.7809	* 1.7183	* 1.6996	* 1.6777	* 1.5923	* 1.6635	* 3.1863	
14	* 1.5165	* 1.6429	* 1.6847	* 1.6397	* 1.1021	* .8857		
	* 1.7668	* 1.6425	* 1.6187	* 1.6877	* 2.5397	* 3.1863		
15	* .7626	* .9746	* .7626	* .7690	* F-SUB-Q			
	* 3.4651	* 2.7279	* 3.5039	* 3.5117	* M-SUB-Q			

AT 75% POWER, 100 EFPD, THIS IS LEVEL 7 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9832	* 1.4094	* 1.4898	* 1.5208	* 1.5926	* 1.5026	* 1.5058	* .7518
	* 2.5522	* 1.7941	* 1.7014	* 1.6750	* 1.5980	* 1.6932	* 1.6822	* 3.3251
9	* 1.4094	* 1.4705	* 1.5069	* 1.5583	* 1.5744	* 1.5604	* 1.6365	* .9628
	* 1.7941	* 1.7278	* 1.6877	* 1.6391	* 1.6297	* 1.6373	* 1.5567	* 2.6096
10	* 1.4898	* 1.5058	* 1.5487	* 1.6022	* 1.7040	* 1.6065	* 1.6793	* .7561
	* 1.7014	* 1.6886	* 1.6538	* 1.6162	* 1.5130	* 1.6087	* 1.5286	* 3.3358
11	* 1.5208	* 1.5583	* 1.5958	* 1.6622	* 1.6579	* 1.6697	* 1.6343	* .7604
	* 1.6750	* 1.6391	* 1.6229	* 1.5614	* 1.5851	* 1.5708	* 1.5843	* 3.3393
12	* 1.5926	* 1.5733	* 1.7029	* 1.6568	* 1.7650	* 1.7918	* 1.0903	
	* 1.5980	* 1.6297	* 1.5138	* 1.5859	* 1.4935	* 1.4759	* 2.3885	
13	* 1.5026	* 1.5615	* 1.6054	* 1.6686	* 1.7918	* 1.7179	* .8750	
	* 1.6932	* 1.6373	* 1.6095	* 1.5723	* 1.4766	* 1.5429	* 2.9885	
14	* 1.5058	* 1.6365	* 1.6783	* 1.6343	* 1.0903	* .8750		
	* 1.6822	* 1.5567	* 1.5286	* 1.5851	* 2.3885	* 2.9885		
15	* .7518	* .9639	* .7551	* .7593	* F-SUB-Q			
	* 3.3251	* 2.6096	* 3.3358	* 3.3429	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 75% POWER, 100 EFPD, THIS IS LEVEL 6 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9553	* 1.3720	* 1.4523	* 1.4812	* 1.5530	* 1.4641	* 1.4683	* .7315
	* 2.4892	* 1.7480	* 1.6582	* 1.6339	* 1.5582	* 1.6538	* 1.6416	* 3.2593
9	* 1.3720	* 1.4319	* 1.4683	* 1.5187	* 1.5337	* 1.5208	* 1.5947	* .9361
	* 1.7480	* 1.6831	* 1.6434	* 1.5964	* 1.5867	* 1.5948	* 1.5189	* 2.5543
10	* 1.4523	* 1.4673	* 1.5090	* 1.5615	* 1.6633	* 1.5658	* 1.6354	* .7347
	* 1.6582	* 1.6442	* 1.6087	* 1.5684	* 1.4690	* 1.5606	* 1.4871	* 3.2593
11	* 1.4812	* 1.5187	* 1.5551	* 1.6215	* 1.6151	* 1.6279	* 1.5926	* .7379
	* 1.6339	* 1.5964	* 1.5755	* 1.5130	* 1.5308	* 1.5160	* 1.5368	* 3.2627
12	* 1.5530	* 1.5337	* 1.6611	* 1.6140	* 1.7222	* 1.7479	* 1.0603	*
	* 1.5582	* 1.5867	* 1.4697	* 1.5316	* 1.4379	* 1.4203	* 2.3126	*
13	* 1.4641	* 1.5208	* 1.5647	* 1.6268	* 1.7468	* 1.6750	* .8504	*
	* 1.6538	* 1.5948	* 1.5621	* 1.5167	* 1.4210	* 1.4829	* 2.8865	*
14	* 1.4683	* 1.5947	* 1.6354	* 1.5926	* 1.0603	* .8504	*	*
	* 1.6416	* 1.5182	* 1.4879	* 1.5368	* 2.3126	* 2.8865	*	*
15	* .7315	* .9361	* .7347	* .7379	* F-SUB-Q			
	* 3.2593	* 2.5543	* 3.2627	* 3.2627	* M-SUB-Q			

AT 75% POWER, 100 EFPD, THIS IS LEVEL 5 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9104	* 1.3098	* 1.3891	* 1.4073	* 1.4823	* 1.3880	* 1.3955	* .6961
	* 2.4992	* 1.7519	* 1.6590	* 1.6477	* 1.5621	* 1.6697	* 1.6547	* 3.2833
9	* 1.3098	* 1.3612	* 1.4062	* 1.4512	* 1.4566	* 1.4512	* 1.5080	* .8889
	* 1.7519	* 1.6950	* 1.6425	* 1.5980	* 1.5972	* 1.5980	* 1.5368	* 2.5816
10	* 1.3891	* 1.4041	* 1.4416	* 1.4823	* 1.5862	* 1.4940	* 1.5465	* .6951
	* 1.6590	* 1.6442	* 1.6104	* 1.5771	* 1.4711	* 1.5606	* 1.5036	* 3.3006
11	* 1.4073	* 1.4512	* 1.4758	* 1.5476	* 1.5305	* 1.5497	* 1.5069	* .7004
	* 1.6477	* 1.5980	* 1.5835	* 1.5108	* 1.5368	* 1.5152	* 1.5490	* 3.2867
12	* 1.4823	* 1.4566	* 1.5840	* 1.5305	* 1.6397	* 1.6526	* 1.0089	*
	* 1.5621	* 1.5980	* 1.4718	* 1.5368	* 1.4353	* 1.4268	* 2.3143	*
13	* 1.3880	* 1.4523	* 1.4930	* 1.5487	* 1.6526	* 1.5819	* .8086	*
	* 1.6697	* 1.5980	* 1.5614	* 1.5160	* 1.4274	* 1.4907	* 2.8892	*
14	* 1.3955	* 1.5080	* 1.5455	* 1.5058	* 1.0089	* .8086	*	*
	* 1.6547	* 1.5368	* 1.5036	* 1.5498	* 2.3143	* 2.8892	*	*
15	* .6961	* .8889	* .6940	* .7004	* F-SUB-Q			
	* 3.2833	* 2.5795	* 3.3041	* 3.2902	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 75% POWER, 100 EFPD, THIS IS LEVEL 4 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .8750	* 1.2574	* 1.3377	* 1.3548	* 1.4330	* 1.3334	* 1.3409	* .6672
	* 2.5112	* 1.7598	* 1.6617	* 1.6503	* 1.5582	* 1.6759	* 1.6626	* 3.3111
9	* 1.2574	* 1.3055	* 1.3559	* 1.4009	* 1.3966	* 1.3944	* 1.4384	* .8461
	* 1.7598	* 1.7042	* 1.6416	* 1.5956	* 1.6046	* 1.6029	* 1.5536	* 2.6162
10	* 1.3377	* 1.3548	* 1.3891	* 1.4244	* 1.5262	* 1.4330	* 1.4716	* .6619
	* 1.6617	* 1.6434	* 1.6095	* 1.5795	* 1.4704	* 1.5660	* 1.5226	* 3.3465
11	* 1.3548	* 1.4009	* 1.4191	* 1.4940	* 1.4673	* 1.4844	* 1.4330	* .6662
	* 1.6503	* 1.5964	* 1.5859	* 1.5050	* 1.5398	* 1.5196	* 1.5668	* 3.3322
12	* 1.4330	* 1.3966	* 1.5251	* 1.4673	* 1.5765	* 1.5754	* .9618	
	* 1.5582	* 1.6054	* 1.4711	* 1.5406	* 1.4340	* 1.4373	* 2.3333	
13	* 1.3334	* 1.3944	* 1.4319	* 1.4833	* 1.5744	* 1.5037	* .7690	
	* 1.6759	* 1.6029	* 1.5668	* 1.5204	* 1.4373	* 1.5043	* 2.9161	
14	* 1.3409	* 1.4384	* 1.4705	* 1.4330	* .9618	* .7690		
	* 1.6626	* 1.5536	* 1.5226	* 1.5676	* 2.3350	* 2.9161		
15	* .6672	* .8472	* .6619	* .6651	* F-SUB-Q			
	* 3.3111	* 2.6140	* 3.3501	* 3.3358	* M-SUB-Q			

AT 75% POWER, 100 EFPD, THIS IS LEVEL 3 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .8032	* 1.1460	* 1.2252	* 1.2563	* 1.3355	* 1.2349	* 1.2338	* .6115
	* 2.6584	* 1.8781	* 1.7618	* 1.7268	* 1.6237	* 1.7578	* 1.7539	* 3.5157
9	* 1.1460	* 1.1856	* 1.2424	* 1.3013	* 1.2863	* 1.2766	* 1.2981	* .7668
	* 1.8781	* 1.8223	* 1.7412	* 1.6679	* 1.6904	* 1.7005	* 1.6715	* 2.8088
10	* 1.2252	* 1.2413	* 1.2852	* 1.3184	* 1.3987	* 1.3013	* 1.3152	* .6030
	* 1.7618	* 1.7432	* 1.6886	* 1.6538	* 1.5559	* 1.6741	* 1.6529	* 3.5719
11	* 1.2563	* 1.3002	* 1.3130	* 1.3902	* 1.3527	* 1.3516	* 1.2766	* .6030
	* 1.7268	* 1.6679	* 1.6608	* 1.5684	* 1.6187	* 1.6170	* 1.7061	* 3.5800
12	* 1.3355	* 1.2863	* 1.3977	* 1.3527	* 1.4512	* 1.4201	* .8739	
	* 1.6237	* 1.6913	* 1.5575	* 1.6187	* 1.5079	* 1.5429	* 2.4912	
13	* 1.2349	* 1.2766	* 1.3002	* 1.3516	* 1.4201	* 1.3430	* .6951	
	* 1.7578	* 1.6996	* 1.6750	* 1.6179	* 1.5436	* 1.6305	* 3.1290	
14	* 1.2338	* 1.2981	* 1.3152	* 1.2756	* .8739	* .6951		
	* 1.7539	* 1.6715	* 1.6529	* 1.7070	* 2.4912	* 3.1290		
15	* .6115	* .7679	* .6019	* .6019	* F-SUB-Q			
	* 3.5157	* 2.8062	* 3.5760	* 3.5841	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 75% POWER, 100 EFPD, THIS IS LEVEL 2 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .6640	* .9221	* .9928	* 1.1845	* 1.1213	* 1.1620	* 1.0282	* .5077
	* 3.1542	* 2.2806	* 2.1257	* 1.7849	* 1.8872	* 1.8213	* 2.0558	* 4.1443
9	* .9221	* 1.0764	* .9971	* 1.0860	* 1.2081	* 1.0464	* 1.0903	* .6244
	* 2.2806	* 1.9580	* 2.1199	* 1.9495	* 1.7539	* 2.0226	* 1.9410	* 3.3754
10	* .9928	* .9960	* 1.0646	* 1.2370	* 1.1578	* 1.0335	* 1.0839	* .5002
	* 2.1257	* 2.1213	* 1.9892	* 1.7173	* 1.8362	* 2.0585	* 1.9556	* 4.2169
11	* 1.1845	* 1.0860	* 1.2327	* 1.1652	* 1.2606	* 1.0967	* 1.0185	* .4937
	* 1.7849	* 1.9507	* 1.7220	* 1.8255	* 1.6913	* 1.9447	* 2.0846	* 4.2687
12	* 1.1213	* 1.2081	* 1.1556	* 1.2595	* 1.2049	* 1.1931		* .7229
	* 1.8872	* 1.7539	* 1.8406	* 1.6932	* 1.7708	* 1.7890		* 2.9380
13	* 1.1620	* 1.0474	* 1.0324	* 1.0956	* 1.1931	* 1.0656		* .5655
	* 1.8213	* 2.0213	* 2.0599	* 1.9459	* 1.7890	* 2.0045		* 3.7563
14	* 1.0282	* 1.0903	* 1.0839	* 1.0185		* .7229		* .5655
	* 2.0558	* 1.9410	* 1.9556	* 2.0860		* 2.9407		* 3.7563
15	* .5077	* .6244	* .4991	* .4937				* F-SUB-Q
	* 4.1443	* 3.3717	* 4.2169	* 4.2745				* M-SUB-Q

AT 75% POWER, 100 EFPD, THIS IS LEVEL 1 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .4455	* .3791	* .4220	* .4991	* .4637	* .4884	* .4252	* .3352
	* 4.6082	* 5.4041	* 4.8814	* 4.1279	* 4.4509	* 4.2169	* 4.8361	* 6.1352
9	* .3791	* .4423	* .4081	* .4637	* .5077	* .4541	* .4252	* .2752
	* 5.4041	* 4.6424	* 5.0549	* 4.4572	* 4.0583	* 4.5479	* 4.8361	* 7.4677
10	* .4220	* .4081	* .4691	* .5216	* .4852	* .4230	* .4188	* .3416
	* 4.8814	* 5.0630	* 4.4008	* 3.9657	* 4.2745	* 4.8966	* 4.9275	* 6.0172
11	* .4991	* .4627	* .5194	* .4873	* .5280	* .4520	* .3877	* .2324
	* 4.1279	* 4.4572	* 3.9758	* 4.2571	* 3.9259	* 4.5947	* 5.3304	* 8.8639
12	* .4637	* .5077	* .4830	* .5280	* .4980	* .4648	* .3384	
	* 4.4509	* 4.0583	* 4.2862	* 3.9309	* 4.1664	* 4.4636	* 6.1112	
13	* .4884	* .4541	* .4230	* .4520	* .4648	* .4145	* .2560	
	* 4.2169	* 4.5413	* 4.9043	* 4.5947	* 4.4636	* 5.0063	* 8.1061	
14	* .4252	* .4252	* .4177	* .3877	* .3384	* .2549		
	* 4.8361	* 4.8361	* 4.9275	* 5.3304	* 6.1112	* 8.1061		
15	* .3352	* .2752	* .3416	* .2324				* F-SUB-Q
	* 6.1352	* 7.4677	* 6.0172	* 8.8891				* M-SUB-Q

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 75% POWER, 150 EFPD, THIS IS LEVEL 24 OF 24
 (LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	.4241	.4038	.4359	.4562	.4380	.4316	.3888	.3481
	3.8930	4.5294	4.1696	3.8542	4.1273	4.0412	4.5898	5.0798
9	.4038	.4434	.4295	.4338	.4477	.4209	.3877	.2752
	4.5294	3.9913	4.2331	4.1756	3.9115	4.2767	4.4612	6.4124
10	.4359	.4295	.4263	.4445	.4241	.3963	.3759	.3331
	4.1696	4.2331	4.2641	3.9593	4.2704	4.5397	4.5991	5.3137
11	.4562	.4338	.4445	.4145	.3898	.3620	.3309	.2217
	3.8542	4.1756	3.9593	4.3762	4.3593	4.8791	5.2000	7.9227
12	.4380	.4487	.4241	.3898	.3159	.2913	.2710	
	4.1273	3.9061	4.2659	4.3593	4.5738	4.7220	6.0720	
13	.4316	.4209	.3963	.3620	.2913	.2506	.1885	
	4.0412	4.2704	4.5450	4.8791	4.7220	5.2090	7.9021	
14	.3888	.3888	.3759	.3309	.2710	.1885		
	4.5898	4.4612	4.5936	5.2000	6.0720	7.9021		
15	.3481	.2752	.3331	.2217	F-SUB-Q			
	5.0798	6.4124	5.3040	7.9227	M-SUB-Q			

AT 75% POWER, 150 EFPD, THIS IS LEVEL 23 OF 24
 (LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	.5816	.9286	1.0025	.9061	.9917	.8547	.8782	.4959
	2.7453	2.0457	1.8859	2.0225	1.8916	2.1238	2.1138	3.6976
9	.9286	.9050	1.0100	1.0067	.8825	.9436	.8707	.5955
	2.0457	2.0283	1.8694	1.8730	2.0655	1.9758	2.0696	3.0763
10	1.0025	1.0100	1.0003	.8911	.9628	.9361	.8568	.4541
	1.8859	1.8694	1.8872	2.0510	1.9405	1.9879	2.0953	4.0306
11	.9061	1.0067	.8911	.9275	.7979	.8429	.7808	.4509
	2.0225	1.8730	2.0525	2.0309	2.2566	2.1529	2.2891	4.0417
12	.9917	.8846	.9628	.7968	.6747	.6694	.5473	
	1.8916	2.0595	1.9392	2.2566	2.0609	2.1659	3.1033	
13	.8547	.9446	.9361	.8429	.6694	.6051	.3973	
	2.1238	1.9745	1.9876	2.1529	2.1659	2.2770	3.8731	
14	.8782	.8707	.8568	.7808	.5473	.3973		
	2.1138	2.0692	2.0937	2.2891	3.1033	3.8731		
15	.4959	.5965	.4541	.4509	F-SUB-Q			
	3.6976	3.0731	4.0265	4.0417	M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 75% POWER, 150 EFPD, THIS IS LEVEL 22 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .7144	* 1.1524	* 1.2509	* 1.1610	* 1.2520	* 1.1063	* 1.1160	* .6148
	* 2.3284	* 1.6955	* 1.5540	* 1.6206	* 1.5414	* 1.6837	* 1.7122	* 3.0703
9	* 1.1524	* 1.1556	* 1.2574	* 1.2616	* 1.1395	* 1.1942	* 1.1406	* .7518
	* 1.6955	* 1.6329	* 1.5461	* 1.5390	* 1.6432	* 1.6050	* 1.6187	* 2.5073
10	* 1.2509	* 1.2574	* 1.2477	* 1.1449	* 1.2199	* 1.1835	* 1.1267	* .5698
	* 1.5540	* 1.5461	* 1.5586	* 1.6440	* 1.5744	* 1.6180	* 1.6361	* 3.3054
11	* 1.1610	* 1.2616	* 1.1438	* 1.1738	* 1.0357	* 1.0731	* 1.0282	* .5623
	* 1.6206	* 1.5390	* 1.6449	* 1.6553	* 1.7794	* 1.7364	* 1.7899	* 3.3419
12	* 1.2520	* 1.1417	* 1.2209	* 1.0346	* .8664	* .8804	* .6876	*
	* 1.5414	* 1.6387	* 1.5744	* 1.7794	* 1.6658	* 1.6872	* 2.5462	*
13	* 1.1063	* 1.1952	* 1.1845	* 1.0731	* .8804	* .8065	* .5055	*
	* 1.6837	* 1.6041	* 1.6180	* 1.7364	* 1.6872	* 1.7683	* 3.1494	*
14	* 1.1160	* 1.1406	* 1.1267	* 1.0282	* .6876	* .5055	*	*
	* 1.7122	* 1.6187	* 1.6359	* 1.7899	* 2.5462	* 3.1494	*	*
15	* .6148	* .7529	* .5698	* .5623	* F-SUB-Q			
	* 3.0703	* 2.5052	* 3.3054	* 3.3419	* M-SUB-Q			

AT 75% POWER, 150 EFPD, THIS IS LEVEL 21 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .8043	* 1.3013	* 1.4201	* 1.3580	* 1.4544	* 1.3163	* 1.3045	* .6983
	* 2.1654	* 1.5518	* 1.4114	* 1.4229	* 1.3714	* 1.4593	* 1.5094	* 2.7859
9	* 1.3013	* 1.3398	* 1.4223	* 1.4416	* 1.3505	* 1.3794	* 1.3570	* .8654
	* 1.5518	* 1.4510	* 1.4093	* 1.3889	* 1.4289	* 1.4372	* 1.4020	* 2.2497
10	* 1.4201	* 1.4223	* 1.4137	* 1.3398	* 1.4191	* 1.3602	* 1.3388	* .6576
	* 1.4114	* 1.4100	* 1.4186	* 1.4468	* 1.4014	* 1.4573	* 1.4209	* 2.9611
11	* 1.3580	* 1.4416	* 1.3388	* 1.3677	* 1.2359	* 1.2445	* 1.2242	* .6469
	* 1.4229	* 1.3882	* 1.4475	* 1.4679	* 1.5354	* 1.5450	* 1.5517	* 3.0096
12	* 1.4544	* 1.3537	* 1.4191	* 1.2349	* 1.0271	* 1.0581	* .7947	*
	* 1.3714	* 1.4255	* 1.4012	* 1.5354	* 1.4663	* 1.4548	* 2.2932	*
13	* 1.3163	* 1.3794	* 1.3602	* 1.2445	* 1.0581	* .9746	* .5880	*
	* 1.4593	* 1.4365	* 1.4573	* 1.5450	* 1.4548	* 1.5279	* 2.8325	*
14	* 1.3045	* 1.3580	* 1.3398	* 1.2242	* .7947	* .5880	*	*
	* 1.5094	* 1.4018	* 1.4209	* 1.5517	* 2.2932	* 2.8325	*	*
15	* .6983	* .8664	* .6576	* .6469	* F-SUB-Q			
	* 2.7859	* 2.2480	* 2.9611	* 3.0096	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 75% POWER, 150 EFPD, THIS IS LEVEL 20 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .8450	* 1.3666	* 1.4983	* 1.4748	* 1.5615	* 1.4351	* 1.4073	* .7411
	* 2.1759	* 1.5450	* 1.3957	* 1.3608	* 1.3284	* 1.3894	* 1.4558	* 2.7370
9	* 1.3666	* 1.4298	* 1.4994	* 1.5347	* 1.4694	* 1.4791	* 1.4758	* .9243
	* 1.5450	* 1.4161	* 1.3946	* 1.3569	* 1.3660	* 1.3928	* 1.3377	* 2.1921
10	* 1.4983	* 1.4983	* 1.4983	* 1.4448	* 1.5272	* 1.4523	* 1.4566	* .7058
	* 1.3957	* 1.3951	* 1.3970	* 1.3948	* 1.3560	* 1.4204	* 1.3546	* 2.8700
11	* 1.4748	* 1.5358	* 1.4448	* 1.4791	* 1.3591	* 1.3430	* 1.3345	* .6908
	* 1.3608	* 1.3558	* 1.3948	* 1.4222	* 1.4563	* 1.4924	* 1.4846	* 2.9373
12	* 1.5615	* 1.4716	* 1.5272	* 1.3559	* 1.1299	* 1.1727	* .8579	*
	* 1.3284	* 1.3634	* 1.3560	* 1.4563	* 1.4099	* 1.3840	* 2.2396	*
13	* 1.4351	* 1.4812	* 1.4533	* 1.3420	* 1.1727	* 1.0860	* .6415	*
	* 1.3894	* 1.3915	* 1.4204	* 1.4931	* 1.3844	* 1.4581	* 2.7648	*
14	* 1.4073	* 1.4758	* 1.4576	* 1.3345	* .8579	* .6415	*	*
	* 1.4558	* 1.3371	* 1.3546	* 1.4846	* 2.2396	* 2.7648	*	*
15	* .7411	* .9243	* .7058	* .6908	* F-SUB-Q			
	* 2.7370	* 2.1905	* 2.8700	* 2.9373	* M-SUB-Q			

AT 75% POWER, 150 EFPD, THIS IS LEVEL 19 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .8804	* 1.4084	* 1.5412	* 1.5487	* 1.6268	* 1.5069	* 1.4683	* .7658
	* 2.2272	* 1.5881	* 1.4248	* 1.3525	* 1.3329	* 1.3794	* 1.4527	* 2.7560
9	* 1.4084	* 1.4812	* 1.5444	* 1.5947	* 1.5401	* 1.5412	* 1.5476	* .9585
	* 1.5881	* 1.4377	* 1.4235	* 1.3671	* 1.3595	* 1.3992	* 1.3311	* 2.2085
10	* 1.5412	* 1.5433	* 1.5519	* 1.5197	* 1.5990	* 1.5133	* 1.5305	* .7358
	* 1.4248	* 1.4241	* 1.4202	* 1.3893	* 1.3636	* 1.4378	* 1.3521	* 2.8847
11	* 1.5487	* 1.5958	* 1.5197	* 1.5572	* 1.4480	* 1.4180	* 1.4084	* .7208
	* 1.3525	* 1.3659	* 1.3894	* 1.4278	* 1.4445	* 1.5006	* 1.4916	* 2.9809
12	* 1.6268	* 1.5433	* 1.5990	* 1.4448	* 1.2252	* 1.2745	* .9114	*
	* 1.3329	* 1.3570	* 1.3636	* 1.4452	* 1.4112	* 1.3806	* 2.2627	*
13	* 1.5069	* 1.5422	* 1.5133	* 1.4169	* 1.2745	* 1.1888	* .6887	*
	* 1.3794	* 1.3979	* 1.4378	* 1.5006	* 1.3806	* 1.4595	* 2.8027	*
14	* 1.4683	* 1.5476	* 1.5305	* 1.4084	* .9114	* .6887	*	*
	* 1.4527	* 1.3305	* 1.3521	* 1.4916	* 2.2627	* 2.8027	*	*
15	* .7658	* .9585	* .7358	* .7197	* F-SUB-Q			
	* 2.7560	* 2.2068	* 2.8847	* 2.9809	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 75% POWER, 150 EFPD, THIS IS LEVEL 18 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9510	* 1.4630	* 1.5872	* 1.6151	* 1.6879	* 1.5712	* 1.5251	* .7904
	* 2.2919	* 1.6445	* 1.4702	* 1.3711	* 1.3602	* 1.3959	* 1.4767	* 2.8205
9	* 1.4630	* 1.5337	* 1.5904	* 1.6515	* 1.6044	* 1.5990	* 1.6129	* .9917
	* 1.6445	* 1.4759	* 1.4681	* 1.3995	* 1.3788	* 1.4283	* 1.3503	* 2.2574
10	* 1.5872	* 1.5904	* 1.6151	* 1.5926	* 1.6718	* 1.5754	* 1.5990	* .7636
	* 1.4702	* 1.4682	* 1.4577	* 1.4114	* 1.3934	* 1.4761	* 1.3751	* 2.9543
11	* 1.6151	* 1.6526	* 1.5926	* 1.6408	* 1.5433	* 1.5069	* 1.4844	* .7497
	* 1.3711	* 1.3983	* 1.4114	* 1.4585	* 1.4516	* 1.5206	* 1.5223	* 3.0643
12	* 1.6879	* 1.6076	* 1.6718	* 1.5390	* 1.3859	* 1.4105	* .9735	*
	* 1.3602	* 1.3756	* 1.3934	* 1.4523	* 1.4254	* 1.3893	* 2.3012	*
13	* 1.5712	* 1.6011	* 1.5754	* 1.5058	* 1.4105	* 1.3280	* .7486	*
	* 1.3959	* 1.4277	* 1.4754	* 1.5206	* 1.3893	* 1.4723	* 2.8469	*
14	* 1.5251	* 1.6129	* 1.5990	* 1.4844	* .9735	* .7486	*	*
	* 1.4767	* 1.3497	* 1.3745	* 1.5230	* 2.3012	* 2.8469	*	*
15	* .7904	* .9917	* .7636	* .7497	* F-SUB-Q			
	* 2.8205	* 2.2574	* 2.9546	* 3.0646	* M-SUB-Q			

AT 75% POWER, 150 EFPD, THIS IS LEVEL 17 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.0335	* 1.4951	* 1.6044	* 1.6536	* 1.7168	* 1.6097	* 1.5530	* .7990
	* 2.4164	* 1.7373	* 1.5624	* 1.4381	* 1.4320	* 1.4616	* 1.5476	* 2.9787
9	* 1.4951	* 1.5637	* 1.6086	* 1.6772	* 1.6515	* 1.6247	* 1.6526	* 1.0046
	* 1.7373	* 1.5651	* 1.5600	* 1.4775	* 1.4445	* 1.5051	* 1.4155	* 2.3824
10	* 1.6044	* 1.6076	* 1.6472	* 1.6472	* 1.7157	* 1.6086	* 1.6429	* .7775
	* 1.5624	* 1.5608	* 1.5422	* 1.4829	* 1.4679	* 1.5619	* 1.4448	* 3.1091
11	* 1.6536	* 1.6783	* 1.6451	* 1.6975	* 1.6183	* 1.5765	* 1.5412	* .7658
	* 1.4381	* 1.4767	* 1.4837	* 1.5094	* 1.4947	* 1.5712	* 1.5719	* 3.2437
12	* 1.7168	* 1.6526	* 1.7157	* 1.6140	* 1.5851	* 1.5637	* 1.0228	*
	* 1.4320	* 1.4416	* 1.4679	* 1.4947	* 1.4750	* 1.4379	* 2.3833	*
13	* 1.6097	* 1.6258	* 1.6086	* 1.5765	* 1.5637	* 1.4683	* .7968	*
	* 1.4616	* 1.5036	* 1.5619	* 1.5717	* 1.4383	* 1.5284	* 2.9691	*
14	* 1.5530	* 1.6526	* 1.6429	* 1.5412	* 1.0228	* .7968	*	*
	* 1.5476	* 1.4149	* 1.4447	* 1.5724	* 2.3833	* 2.9691	*	*
15	* .7990	* 1.0057	* .7765	* .7658	* F-SUB-Q			
	* 2.9787	* 2.3805	* 3.1091	* 3.2441	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 75% POWER, 150 EFPD, THIS IS LEVEL 16 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.0849	* 1.5230	* 1.6215	* 1.6847	* 1.7425	* 1.6397	* 1.5787	* .8086
	* 2.5587	* 1.8259	* 1.6723	* 1.5367	* 1.5222	* 1.5575	* 1.6380	* 3.1627
9	* 1.5230	* 1.5926	* 1.6279	* 1.7007	* 1.6911	* 1.6504	* 1.6847	* 1.0185
	* 1.8259	* 1.6852	* 1.6695	* 1.5742	* 1.5415	* 1.5996	* 1.5099	* 2.5319
10	* 1.6215	* 1.6279	* 1.6772	* 1.6975	* 1.7554	* 1.6408	* 1.6804	* .7915
	* 1.6723	* 1.6705	* 1.6457	* 1.5832	* 1.5602	* 1.6645	* 1.5442	* 3.2981
11	* 1.6847	* 1.7029	* 1.6933	* 1.7468	* 1.6793	* 1.6386	* 1.5894	* .7818
	* 1.5367	* 1.5726	* 1.5858	* 1.5756	* 1.5630	* 1.6369	* 1.6517	* 3.4439
12	* 1.7425	* 1.6922	* 1.7554	* 1.6761	* 1.7254	* 1.6911	* 1.0667	*
	* 1.5222	* 1.5376	* 1.5602	* 1.5643	* 1.5336	* 1.5032	* 2.4859	*
13	* 1.6397	* 1.6515	* 1.6408	* 1.6376	* 1.6911	* 1.5808	* .8418	*
	* 1.5575	* 1.5981	* 1.6645	* 1.6378	* 1.5032	* 1.5975	* 3.0889	*
14	* 1.5787	* 1.6847	* 1.6804	* 1.5894	* 1.0667	* .8418	*	*
	* 1.6380	* 1.5091	* 1.5442	* 1.6517	* 2.4868	* 3.0889	*	*
15	* .8086	* 1.0196	* .7915	* .7818	* F-SUB-Q			
	* 3.1627	* 2.5300	* 3.2984	* 3.4439	* M-SUB-Q			

AT 75% POWER, 150 EFPD, THIS IS LEVEL 15 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.0785	* 1.5123	* 1.6065	* 1.6697	* 1.7307	* 1.6279	* 1.5690	* .8032
	* 2.7598	* 1.9668	* 1.8372	* 1.6964	* 1.6638	* 1.7167	* 1.7869	* 3.4497
9	* 1.5123	* 1.5765	* 1.6140	* 1.6890	* 1.6836	* 1.6397	* 1.6729	* 1.0121
	* 1.9668	* 1.8495	* 1.8339	* 1.7239	* 1.7002	* 1.7483	* 1.6633	* 2.7637
10	* 1.6065	* 1.6140	* 1.6708	* 1.6986	* 1.7522	* 1.6354	* 1.6740	* .7850
	* 1.8372	* 1.8350	* 1.7757	* 1.7069	* 1.6771	* 1.7910	* 1.6987	* 3.6153
11	* 1.6697	* 1.6911	* 1.6933	* 1.7511	* 1.6975	* 1.6515	* 1.5926	* .7818
	* 1.6964	* 1.7220	* 1.7118	* 1.6875	* 1.6909	* 1.7568	* 1.7825	* 3.6795
12	* 1.7307	* 1.6847	* 1.7522	* 1.6933	* 1.7618	* 1.7286	* 1.0806	*
	* 1.6638	* 1.6964	* 1.6772	* 1.6918	* 1.6449	* 1.6262	* 2.6686	*
13	* 1.6279	* 1.6408	* 1.6354	* 1.6504	* 1.7275	* 1.6172	* .8589	*
	* 1.7167	* 1.7465	* 1.7910	* 1.7578	* 1.6267	* 1.7288	* 3.3094	*
14	* 1.5690	* 1.6740	* 1.6740	* 1.5915	* 1.0796	* .8589	*	*
	* 1.7869	* 1.6624	* 1.6987	* 1.7827	* 2.6686	* 3.3094	*	*
15	* .8032	* 1.0121	* .7850	* .7808	* F-SUB-Q			
	* 3.4497	* 2.7637	* 3.6191	* 3.6833	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 75% POWER, 150 EFPD, THIS IS LEVEL 14 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.0860	* 1.5187	* 1.6129	* 1.6965	* 1.7489	* 1.6558	* 1.5894	* .8086
	* 2.9447	* 2.1029	* 1.9758	* 1.8338	* 1.7947	* 1.8507	* 1.9168	* 3.7209
9	* 1.5187	* 1.5958	* 1.6226	* 1.7040	* 1.7157	* 1.6547	* 1.7029	* 1.0207
	* 2.1029	* 1.9772	* 1.9658	* 1.8635	* 1.8242	* 1.8864	* 1.7927	* 2.9771
10	* 1.6129	* 1.6215	* 1.6868	* 1.7350	* 1.7779	* 1.6526	* 1.7072	* .7968
	* 1.9758	* 1.9671	* 1.8891	* 1.8102	* 1.7767	* 1.9047	* 1.8030	* 3.8752
11	* 1.6965	* 1.7050	* 1.7297	* 1.7789	* 1.7436	* 1.6858	* 1.6279	* .7904
	* 1.8338	* 1.8624	* 1.8146	* 1.7829	* 1.7907	* 1.8565	* 1.8866	* 3.9057
12	* 1.7489	* 1.7157	* 1.7779	* 1.7393	* 1.8078	* 1.7854	* 1.1010	*
	* 1.7947	* 1.8240	* 1.7767	* 1.7917	* 1.7385	* 1.7261	* 2.8263	*
13	* 1.6558	* 1.6558	* 1.6526	* 1.6847	* 1.7843	* 1.6729	* .8782	*
	* 1.8507	* 1.8852	* 1.9047	* 1.8576	* 1.7271	* 1.8346	* 3.5188	*
14	* 1.5894	* 1.7029	* 1.7072	* 1.6279	* 1.0999	* .8782	*	*
	* 1.9168	* 1.7918	* 1.8030	* 1.8866	* 2.8267	* 3.5188	*	*
15	* .8086	* 1.0207	* .7958	* .7893	* F-SUB-Q			
	* 3.7209	* 2.9743	* 3.8781	* 3.9057	* M-SUB-Q			

AT 75% POWER, 150 EFPD, THIS IS LEVEL 13 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.0721	* 1.5026	* 1.5990	* 1.6922	* 1.7404	* 1.6536	* 1.5862	* .8032
	* 3.0852	* 2.2028	* 2.0725	* 1.9516	* 1.9043	* 1.9968	* 2.0878	* 4.0603
9	* 1.5026	* 1.5851	* 1.6097	* 1.6954	* 1.7147	* 1.6472	* 1.7018	* 1.0153
	* 2.2028	* 2.0825	* 2.0589	* 1.9544	* 1.9262	* 2.0124	* 1.9407	* 3.2461
10	* 1.5990	* 1.6086	* 1.6783	* 1.7361	* 1.7746	* 1.6461	* 1.7082	* .7936
	* 2.0725	* 2.0602	* 1.9754	* 1.9026	* 1.8678	* 2.0137	* 1.9346	* 4.1700
11	* 1.6922	* 1.6954	* 1.7318	* 1.7789	* 1.7511	* 1.6911	* 1.6322	* .7883
	* 1.9516	* 1.9544	* 1.9085	* 1.8644	* 1.8876	* 1.9617	* 2.0241	* 4.2037
12	* 1.7404	* 1.7147	* 1.7746	* 1.7468	* 1.8175	* 1.7993	* 1.1021	*
	* 1.9043	* 1.9262	* 1.8689	* 1.8911	* 1.8251	* 1.8374	* 3.0079	*
13	* 1.6536	* 1.6483	* 1.6461	* 1.6900	* 1.7982	* 1.6868	* .8814	*
	* 1.9968	* 2.0111	* 2.0137	* 1.9630	* 1.8374	* 1.9590	* 3.7580	*
14	* 1.5862	* 1.7018	* 1.7072	* 1.6322	* 1.1021	* .8814	*	*
	* 2.0878	* 1.9407	* 1.9346	* 2.0254	* 3.0108	* 3.7580	*	*
15	* .8032	* 1.0164	* .7936	* .7872	* F-SUB-Q			
	* 4.0603	* 3.2457	* 4.1756	* 4.2037	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 75% POWER, 150 EFPD, THIS IS LEVEL 12 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.0496	* 1.4726	* 1.5679	* 1.6622	* 1.7136	* 1.6268	* 1.5626	* .7904
	* 3.1258	* 2.2318	* 2.0958	* 1.9791	* 1.9196	* 2.0213	* 2.1014	* 4.1388
9	* 1.4726	* 1.5519	* 1.5797	* 1.6686	* 1.6879	* 1.6215	* 1.6761	* .9992
	* 2.2318	* 2.1199	* 2.0818	* 1.9729	* 1.9519	* 2.0292	* 1.9642	* 3.2867
10	* 1.5679	* 1.5787	* 1.6515	* 1.7115	* 1.7500	* 1.6236	* 1.6836	* .7818
	* 2.0958	* 2.0832	* 1.9955	* 1.9291	* 1.8838	* 2.0318	* 1.9580	* 4.2056
11	* 1.6622	* 1.6686	* 1.7061	* 1.7554	* 1.7297	* 1.6729	* 1.6108	* .7775
	* 1.9791	* 1.9729	* 1.9338	* 1.8804	* 1.9114	* 1.9791	* 2.0518	* 4.2398
12	* 1.7136	* 1.6879	* 1.7489	* 1.7275	* 1.7982	* 1.7811	* 1.0903	*
	* 1.9196	* 1.9519	* 1.8849	* 1.9161	* 1.8416	* 1.8614	* 3.0349	*
13	* 1.6268	* 1.6236	* 1.6226	* 1.6718	* 1.7811	* 1.6697	* .8739	*
	* 2.0213	* 2.0278	* 2.0318	* 1.9804	* 1.8614	* 1.9854	* 3.7927	*
14	* 1.5626	* 1.6761	* 1.6836	* 1.6097	* 1.0903	* .8739	*	*
	* 2.1014	* 1.9642	* 1.9593	* 2.0518	* 3.0349	* 3.7927	*	*
15	* .7904	* 1.0003	* .7818	* .7765	* F-SUB-Q			
	* 4.1388	* 3.2867	* 4.2056	* 4.2398	* M-SUB-Q			

AT 75% POWER, 150 EFPD, THIS IS LEVEL 11 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.0410	* 1.4683	* 1.5669	* 1.6718	* 1.7190	* 1.6376	* 1.5722	* .7925
	* 3.0919	* 2.1942	* 2.0558	* 1.9279	* 1.8747	* 1.9605	* 2.0358	* 3.9910
9	* 1.4683	* 1.5540	* 1.5787	* 1.6729	* 1.6997	* 1.6268	* 1.6890	* 1.0025
	* 2.1942	* 2.0763	* 2.0437	* 1.9326	* 1.9056	* 1.9829	* 1.9114	* 3.1928
10	* 1.5669	* 1.5776	* 1.6536	* 1.7243	* 1.7586	* 1.6290	* 1.6975	* .7840
	* 2.0558	* 2.0451	* 1.9593	* 1.8883	* 1.8449	* 1.9942	* 1.9114	* 4.1009
11	* 1.6718	* 1.6729	* 1.7190	* 1.7650	* 1.7468	* 1.6836	* 1.6247	* .7797
	* 1.9279	* 1.9303	* 1.8940	* 1.8504	* 1.8725	* 1.9422	* 2.0109	* 4.1608
12	* 1.7190	* 1.6997	* 1.7586	* 1.7447	* 1.8132	* 1.8014	* 1.0967	*
	* 1.8747	* 1.9044	* 1.8460	* 1.8747	* 1.8045	* 1.8181	* 2.9828	*
13	* 1.6376	* 1.6279	* 1.6279	* 1.6825	* 1.8004	* 1.6890	* .8782	*
	* 1.9605	* 1.9816	* 1.9942	* 1.9435	* 1.8192	* 1.9398	* 3.7249	*
14	* 1.5722	* 1.6900	* 1.6975	* 1.6236	* 1.0956	* .8782	*	*
	* 2.0358	* 1.9114	* 1.9114	* 2.0109	* 2.9828	* 3.7249	*	*
15	* .7925	* 1.0025	* .7840	* .7786	* F-SUB-Q			
	* 3.9910	* 3.1896	* 4.1062	* 4.1664	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 75% POWER, 150 EFPD, THIS IS LEVEL 10 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	1.0185	1.4448	1.5433	1.6579	1.7007	1.6258	1.5604	.7818
	3.0290	2.1285	1.9854	1.8416	1.7952	1.8680	1.9338	3.7973
9	1.4448	1.5358	1.5562	1.6526	1.6879	1.6086	1.6793	.9907
	2.1285	2.0057	1.9804	1.8592	1.8406	1.8963	1.8170	3.0261
10	1.5433	1.5551	1.6343	1.7115	1.7425	1.6108	1.6879	.7754
	1.9854	1.9816	1.9056	1.8352	1.7910	1.9362	1.8395	3.9063
11	1.6579	1.6526	1.7061	1.7479	1.7393	1.6708	1.6161	.7700
	1.8416	1.8581	1.8406	1.8055	1.8352	1.9137	1.9422	3.9961
12	1.7007	1.6879	1.7425	1.7372	1.8014	1.7950	1.0849	
	1.7952	1.8395	1.7921	1.8395	1.7788	1.7900	2.9188	
13	1.6258	1.6097	1.6097	1.6697	1.7939	1.6836	.8707	
	1.8680	1.8952	1.9362	1.9149	1.7900	1.9102	3.6596	
14	1.5604	1.6793	1.6879	1.6151	1.0849	.8707		
	1.9338	1.8170	1.8395	1.9422	2.9215	3.6596		
15	.7818	.9917	.7743	.7700	F-SUB-Q			
	3.7973	3.0231	3.9112	3.9961	M-SUB-Q			

AT 75% POWER, 150 EFPD, THIS IS LEVEL 9 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	.9971	1.4148	1.5133	1.6301	1.6708	1.6001	1.5358	.7679
	2.9026	2.0331	1.8895	1.7549	1.7117	1.7809	1.8438	3.6341
9	1.4148	1.5058	1.5262	1.6236	1.6611	1.5808	1.6547	.9735
	2.0331	1.9091	1.8815	1.7698	1.7451	1.8066	1.7268	2.8865
10	1.5133	1.5251	1.6044	1.6847	1.7157	1.5851	1.6633	.7626
	1.8895	1.8826	1.8128	1.7500	1.7005	1.8406	1.7422	3.7117
11	1.6301	1.6226	1.6793	1.7200	1.7147	1.6461	1.5926	.7561
	1.7549	1.7688	1.7529	1.7278	1.7529	1.8298	1.8569	3.8019
12	1.6708	1.6611	1.7147	1.7136	1.7757	1.7714	1.0678	
	1.7117	1.7451	1.7014	1.7578	1.7211	1.7202	2.7937	
13	1.6001	1.5829	1.5840	1.6451	1.7714	1.6622	.8568	
	1.7809	1.8055	1.8406	1.8309	1.7211	1.8384	3.5039	
14	1.5358	1.6547	1.6633	1.5926	1.0678	.8568		
	1.8438	1.7268	1.7432	1.8569	2.7937	3.5039		
15	.7679	.9746	.7615	.7561	F-SUB-Q			
	3.6341	2.8865	3.7161	3.8019	M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 75% POWER, 150 EFPD, THIS IS LEVEL 8 OF 24
 (LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9671	* 1.3773	* 1.4748	* 1.5840	* 1.6301	* 1.5562	* 1.4994	* .7497
	* 2.7592	* 1.9435	* 1.8160	* 1.6968	* 1.6486	* 1.7220	* 1.7778	* 3.5078
9	* 1.3773	* 1.4619	* 1.4876	* 1.5840	* 1.6161	* 1.5444	* 1.6129	* .9500
	* 1.9435	* 1.8373	* 1.8066	* 1.7033	* 1.6786	* 1.7383	* 1.6643	* 2.7813
10	* 1.4748	* 1.4865	* 1.5647	* 1.6408	* 1.6750	* 1.5487	* 1.6215	* .7422
	* 1.8160	* 1.8086	* 1.7345	* 1.6750	* 1.6263	* 1.7578	* 1.6706	* 3.5800
11	* 1.5840	* 1.5840	* 1.6343	* 1.6804	* 1.6718	* 1.6097	* 1.5540	* .7390
	* 1.6968	* 1.7014	* 1.6786	* 1.6434	* 1.6750	* 1.7412	* 1.7678	* 3.6299
12	* 1.6301	* 1.6161	* 1.6740	* 1.6708	* 1.7361	* 1.7297	* 1.0442	*
	* 1.6486	* 1.6786	* 1.6263	* 1.6786	* 1.6365	* 1.6451	* 2.6629	*
13	* 1.5562	* 1.5455	* 1.5476	* 1.6086	* 1.7286	* 1.6226	* .8375	*
	* 1.7220	* 1.7373	* 1.7578	* 1.7432	* 1.6451	* 1.7569	* 3.3501	*
14	* 1.4994	* 1.6129	* 1.6215	* 1.5530	* 1.0442	* .8375	*	*
	* 1.7778	* 1.6635	* 1.6706	* 1.7678	* 2.6652	* 3.3501	*	*
15	* .7497	* .9510	* .7411	* .7390	F-SUB-Q			
	* 3.5078	* 2.7813	* 3.5800	* 3.6341	M-SUB-Q			

AT 75% POWER, 150 EFPD, THIS IS LEVEL 7 OF 24
 (LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9521	* 1.3580	* 1.4544	* 1.5733	* 1.6119	* 1.5465	* 1.4876	* .7390
	* 2.6228	* 1.8536	* 1.7364	* 1.6137	* 1.5747	* 1.6391	* 1.6950	* 3.3681
9	* 1.3580	* 1.4491	* 1.4673	* 1.5637	* 1.6065	* 1.5251	* 1.6054	* .9393
	* 1.8536	* 1.7441	* 1.7258	* 1.6271	* 1.5907	* 1.6617	* 1.5787	* 2.6629
10	* 1.4544	* 1.4662	* 1.5455	* 1.6311	* 1.6600	* 1.5305	* 1.6151	* .7347
	* 1.7364	* 1.7278	* 1.6520	* 1.5811	* 1.5429	* 1.6732	* 1.5795	* 3.4085
11	* 1.5733	* 1.5637	* 1.6236	* 1.6622	* 1.6643	* 1.5947	* 1.5465	* .7283
	* 1.6137	* 1.6263	* 1.5859	* 1.5551	* 1.5684	* 1.6339	* 1.6617	* 3.4612
12	* 1.6119	* 1.6065	* 1.6590	* 1.6633	* 1.7222	* 1.7232	* 1.0314	*
	* 1.5747	* 1.5907	* 1.5436	* 1.5723	* 1.5226	* 1.5256	* 2.5092	*
13	* 1.5465	* 1.5262	* 1.5305	* 1.5936	* 1.7232	* 1.6161	* .8268	*
	* 1.6391	* 1.6608	* 1.6732	* 1.6356	* 1.5256	* 1.6288	* 3.1415	*
14	* 1.4876	* 1.6054	* 1.6140	* 1.5465	* 1.0314	* .8268	*	*
	* 1.6950	* 1.5787	* 1.5795	* 1.6626	* 2.5092	* 3.1415	*	*
15	* .7390	* .9393	* .7347	* .7283	F-SUB-Q			
	* 3.3681	* 2.6607	* 3.4122	* 3.4651	M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 75% POWER, 150 EFPD, THIS IS LEVEL 6 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9232	* 1.3195	* 1.4137	* 1.5272	* 1.5679	* 1.5015	* 1.4480	* .7176
	* 2.5626	* 1.8086	* 1.6959	* 1.5803	* 1.5391	* 1.6054	* 1.6573	* 3.3041
9	* 1.3195	* 1.4094	* 1.4266	* 1.5208	* 1.5615	* 1.4833	* 1.5626	* .9125
	* 1.8086	* 1.7033	* 1.6850	* 1.5891	* 1.5536	* 1.6246	* 1.5421	* 2.6075
10	* 1.4137	* 1.4255	* 1.5026	* 1.5862	* 1.6161	* 1.4898	* 1.5722	* .7144
	* 1.6959	* 1.6859	* 1.6112	* 1.5398	* 1.5014	* 1.6297	* 1.5376	* 3.3358
11	* 1.5272	* 1.5208	* 1.5797	* 1.6183	* 1.6194	* 1.5540	* 1.5069	* .7079
	* 1.5803	* 1.5891	* 1.5452	* 1.5101	* 1.5204	* 1.5787	* 1.6129	* 3.3790
12	* 1.5679	* 1.5615	* 1.6161	* 1.6183	* 1.6783	* 1.6793	* 1.0035	*
	* 1.5391	* 1.5536	* 1.5021	* 1.5219	* 1.4676	* 1.4690	* 2.4293	*
13	* 1.5015	* 1.4844	* 1.4898	* 1.5530	* 1.6783	* 1.5754	* .8043	*
	* 1.6054	* 1.6237	* 1.6297	* 1.5795	* 1.4697	* 1.5676	* 3.0319	*
14	* 1.4480	* 1.5626	* 1.5722	* 1.5058	* 1.0025	* .8043	*	*
	* 1.6573	* 1.5421	* 1.5383	* 1.6129	* 2.4293	* 3.0319	*	*
15	* .7176	* .9125	* .7133	* .7079	* F-SUB-Q			
	* 3.3041	* 2.6075	* 3.3393	* 3.3827	* M-SUB-Q			

AT 75% POWER, 150 EFPD, THIS IS LEVEL 5 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .8782	* 1.2563	* 1.3473	* 1.4405	* 1.4898	* 1.4159	* 1.3730	* .6833
	* 2.5795	* 1.8181	* 1.7033	* 1.6038	* 1.5498	* 1.6305	* 1.6741	* 3.3322
9	* 1.2563	* 1.3345	* 1.3612	* 1.4469	* 1.4737	* 1.4126	* 1.4748	* .8654
	* 1.8181	* 1.7211	* 1.6895	* 1.5980	* 1.5731	* 1.6356	* 1.5629	* 2.6360
10	* 1.3473	* 1.3602	* 1.4287	* 1.4994	* 1.5369	* 1.4201	* 1.4855	* .6747
	* 1.7033	* 1.6913	* 1.6187	* 1.5551	* 1.5087	* 1.6331	* 1.5559	* 3.3790
11	* 1.4405	* 1.4459	* 1.4930	* 1.5390	* 1.5272	* 1.4780	* 1.4244	* .6726
	* 1.6038	* 1.5989	* 1.5614	* 1.5145	* 1.5338	* 1.5795	* 1.6280	* 3.4047
12	* 1.4898	* 1.4737	* 1.5369	* 1.5262	* 1.5947	* 1.5862	* .9543	*
	* 1.5498	* 1.5739	* 1.5094	* 1.5346	* 1.4690	* 1.4773	* 2.4312	*
13	* 1.4159	* 1.4126	* 1.4191	* 1.4769	* 1.5862	* 1.4887	* .7647	*
	* 1.6305	* 1.6348	* 1.6339	* 1.5811	* 1.4773	* 1.5755	* 3.0349	*
14	* 1.3730	* 1.4758	* 1.4855	* 1.4234	* .9543	* .7636	*	*
	* 1.6741	* 1.5629	* 1.5559	* 1.6280	* 2.4312	* 3.0349	*	*
15	* .6833	* .8654	* .6747	* .6715	* F-SUB-Q			
	* 3.3322	* 2.6338	* 3.3827	* 3.4047	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 75% POWER, 150 EFPD, THIS IS LEVEL 4 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .8397	* 1.2017	* 1.2895	* 1.3730	* 1.4276	* 1.3484	* 1.3120	* .6512
	* 2.6031	* 1.8341	* 1.7164	* 1.6221	* 1.5598	* 1.6512	* 1.6913	* 3.3717
9	* 1.2017	* 1.2734	* 1.3045	* 1.3837	* 1.4041	* 1.3495	* 1.4019	* .8225
	* 1.8341	* 1.7402	* 1.7005	* 1.6095	* 1.5915	* 1.6503	* 1.5859	* 2.6789
10	* 1.2895	* 1.3034	* 1.3666	* 1.4287	* 1.4716	* 1.3570	* 1.4105	* .6415
	* 1.7164	* 1.7014	* 1.6314	* 1.5692	* 1.5174	* 1.6460	* 1.5787	* 3.4346
11	* 1.3730	* 1.3837	* 1.4234	* 1.4737	* 1.4544	* 1.4105	* 1.3527	* .6383
	* 1.6221	* 1.6104	* 1.5755	* 1.5211	* 1.5482	* 1.5899	* 1.6494	* 3.4574
12	* 1.4276	* 1.4030	* 1.4716	* 1.4533	* 1.5240	* 1.5080	* .9093	
	* 1.5598	* 1.5915	* 1.5182	* 1.5482	* 1.4766	* 1.4921	* 2.4560	
13	* 1.3484	* 1.3495	* 1.3559	* 1.4094	* 1.5080	* 1.4137	* .7261	
	* 1.6512	* 1.6494	* 1.6468	* 1.5907	* 1.4921	* 1.5915	* 3.0676	
14	* 1.3120	* 1.4019	* 1.4105	* 1.3527	* .9093	* .7261		
	* 1.6913	* 1.5859	* 1.5787	* 1.6503	* 2.4560	* 3.0676		
15	* .6512	* .8225	* .6415	* .6383	* F-SUB-Q			
	* 3.3717	* 2.6766	* 3.4346	* 3.4612	* M-SUB-Q			

AT 75% POWER, 150 EFPD, THIS IS LEVEL 3 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .7668	* 1.0871	* 1.1717	* 1.2509	* 1.3088	* 1.2284	* 1.1952	* .5933
	* 2.7739	* 1.9704	* 1.8362	* 1.7278	* 1.6520	* 1.7598	* 1.8045	* 3.6048
9	* 1.0871	* 1.1460	* 1.1845	* 1.2659	* 1.2745	* 1.2263	* 1.2552	* .7411
	* 1.9704	* 1.8781	* 1.8192	* 1.7079	* 1.7005	* 1.7618	* 1.7202	* 2.8918
10	* 1.1717	* 1.1835	* 1.2445	* 1.3002	* 1.3388	* 1.2242	* 1.2552	* .5805
	* 1.8362	* 1.8202	* 1.7373	* 1.6732	* 1.6187	* 1.7698	* 1.7220	* 3.6898
11	* 1.2509	* 1.2659	* 1.2938	* 1.3495	* 1.3184	* 1.2766	* 1.2017	* .5751
	* 1.7278	* 1.7089	* 1.6795	* 1.6104	* 1.6529	* 1.7033	* 1.8024	* 3.7249
12	* 1.3088	* 1.2745	* 1.3377	* 1.3184	* 1.3869	* 1.3495	* .8225	
	* 1.6520	* 1.7005	* 1.6195	* 1.6538	* 1.5716	* 1.6145	* 2.6316	
13	* 1.2284	* 1.2274	* 1.2231	* 1.2756	* 1.3495	* 1.2606	* .6555	
	* 1.7598	* 1.7598	* 1.7708	* 1.7042	* 1.6145	* 1.7287	* 3.3006	
14	* 1.1952	* 1.2552	* 1.2552	* 1.2017	* .8225	* .6544		
	* 1.8045	* 1.7202	* 1.7230	* 1.8024	* 2.6316	* 3.3006		
15	* .5933	* .7411	* .5805	* .5751	* F-SUB-Q			
	* 3.6048	* 2.8918	* 3.6898	* 3.7294	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 75% POWER, 150 EFPD, THIS IS LEVEL 2 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	.6308	.8718	.9414	1.1363	1.0764	1.1149	.9821	.4884
	3.3041	2.4032	2.2318	1.8547	1.9605	1.8906	2.1417	4.2862
9	.8718	1.0196	.9457	1.0378	1.1545	.9992	1.0346	.5976
	2.4032	2.0599	2.2254	2.0344	1.8298	2.1085	2.0358	3.5078
10	.9414	.9457	1.0153	1.1792	1.0978	.9693	1.0207	.4777
	2.2318	2.2270	2.0790	1.7941	1.9279	2.1805	2.0653	4.3823
11	1.1363	1.0367	1.1760	1.1074	1.1910	1.0260	.9532	.4691
	1.8547	2.0344	1.8003	1.9126	1.7829	2.0667	2.2144	4.4699
12	1.0764	1.1545	1.0956	1.1888	1.1342	1.1128	.6758	
	1.9605	1.8298	1.9315	1.7849	1.8725	1.9079	3.1258	
13	1.1149	1.0003	.9693	1.0260	1.1128	.9950	.5312	
	1.8906	2.1070	2.1805	2.0680	1.9079	2.1344	3.9758	
14	.9821	1.0346	1.0207	.9532	.6758	.5312		
	2.1417	2.0358	2.0667	2.2160	3.1258	3.9758		
15	.4884	.5976	.4777	.4680	F-SUB-Q			
	4.2862	3.5039	4.3884	4.4763	M-SUB-Q			

AT 75% POWER, 150 EFPD, THIS IS LEVEL 1 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	.4230	.3609	.4027	.4787	.4455	.4691	.4091	.3234
	4.8286	5.6479	5.0877	4.2804	4.6082	4.3701	5.0144	6.3339
9	.3609	.4220	.3909	.4423	.4862	.4348	.4081	.2645
	5.6479	4.8436	5.2499	4.6493	4.2226	4.7265	5.0144	7.7068
10	.4027	.3909	.4477	.4980	.4605	.4016	.3984	.3267
	5.0877	5.2588	4.6014	4.1334	4.4763	5.1379	5.1463	6.2579
11	.4787	.4423	.4959	.4605	.5002	.4263	.3674	.2217
	4.2804	4.6493	4.1498	4.4827	4.1225	4.8511	5.5874	9.2300
12	.4455	.4862	.4595	.5002	.4723	.4380	.3192	
	4.6082	4.2226	4.4892	4.1279	4.3762	4.7052	6.4382	
13	.4691	.4348	.4006	.4263	.4380	.3909	.2420	
	4.3701	4.7265	5.1463	4.8511	4.7052	5.2765	8.5026	
14	.4091	.4081	.3984	.3674	.3192	.2420		
	5.0144	5.0144	5.1463	5.5874	6.4382	8.5026		
15	.3234	.2645	.3267	.2217	F-SUB-Q			
	6.3339	7.7068	6.2579	9.2300	M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 75% POWER, 250 EFPD, THIS IS LEVEL 24 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .4734	* .4616	* .5098	* .5484	* .5334	* .5280	* .4755	* .4198
	* 3.7072	* 4.2273	* 3.8163	* 3.4330	* 3.6334	* 3.5502	* 4.0385	* 4.5284
9	* .4616	* .5109	* .5034	* .5226	* .5441	* .5098	* .4712	* .3352
	* 4.2273	* 3.7045	* 3.8639	* 3.7150	* 3.4591	* 3.7864	* 3.9528	* 5.6762
10	* .5098	* .5034	* .5044	* .5301	* .5130	* .4755	* .4509	* .3995
	* 3.8163	* 3.8639	* 3.8475	* 3.5485	* 3.7747	* 4.0592	* 4.1136	* 4.7501
11	* .5484	* .5226	* .5301	* .4991	* .4712	* .4316	* .3952	* .2667
	* 3.4330	* 3.7111	* 3.5485	* 3.8845	* 3.8720	* 4.3960	* 4.6650	* 7.0522
12	* .5334	* .5441	* .5130	* .4712	* .3813	* .3470	* .3192	
	* 3.6334	* 3.4541	* 3.7747	* 3.8703	* 4.0446	* 4.2385	* 5.5475	
13	* .5280	* .5109	* .4745	* .4316	* .3470	* .2988	* .2238	
	* 3.5502	* 3.7815	* 4.0604	* 4.3960	* 4.2385	* 4.6844	* 7.1517	
14	* .4755	* .4712	* .4509	* .3952	* .3192	* .2238		
	* 4.0385	* 3.9528	* 4.1136	* 4.6650	* 5.5475	* 7.1517		
15	* .4198	* .3352	* .3995	* .2667	* F-SUB-Q			
	* 4.5284	* 5.6671	* 4.7501	* 7.0522	* M-SUB-Q			

AT 75% POWER, 250 EFPD, THIS IS LEVEL 23 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .6362	* 1.0110	* 1.1096	* 1.0549	* 1.1599	* 1.0239	* 1.0260	* .5805
	* 2.6907	* 1.9971	* 1.8112	* 1.8450	* 1.7275	* 1.8949	* 1.9371	* 3.3872
9	* 1.0110	* 1.0121	* 1.1192	* 1.1395	* 1.0474	* 1.0946	* 1.0217	* .6961
	* 1.9971	* 1.9281	* 1.7950	* 1.7601	* 1.8579	* 1.8231	* 1.8844	* 2.8229
10	* 1.1096	* 1.1181	* 1.1096	* 1.0260	* 1.1085	* 1.0592	* .9917	* .5323
	* 1.8112	* 1.7950	* 1.8097	* 1.8944	* 1.8024	* 1.8748	* 1.9327	* 3.6853
11	* 1.0549	* 1.1406	* 1.0260	* 1.0817	* .9468	* .9532	* .8889	* .5205
	* 1.8450	* 1.7590	* 1.8955	* 1.8506	* 2.0381	* 2.0276	* 2.1384	* 3.7333
12	* 1.1599	* 1.0496	* 1.1085	* .9468	* .7915	* .7679	* .6190	
	* 1.7275	* 1.8540	* 1.8024	* 2.0381	* 1.8988	* 1.9992	* 2.9376	
13	* 1.0239	* 1.0956	* 1.0592	* .9532	* .7679	* .6887	* .4530	
	* 1.8949	* 1.8218	* 1.8736	* 2.0276	* 1.9992	* 2.1294	* 3.6435	
14	* 1.0260	* 1.0228	* .9917	* .8900	* .6190	* .4530		
	* 1.9371	* 1.8841	* 1.9327	* 2.1384	* 2.9376	* 3.6435		
15	* .5805	* .6961	* .5323	* .5205	* F-SUB-Q			
	* 3.3872	* 2.8201	* 3.6816	* 3.7333	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 75% POWER, 250 EFPD, THIS IS LEVEL 22 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .7615	* 1.2134	* 1.3420	* 1.3398	* 1.4223	* 1.3002	* 1.2638	* .6994
	* 2.3420	* 1.7070	* 1.5361	* 1.4855	* 1.4419	* 1.5237	* 1.6115	* 2.8832
9	* 1.2134	* 1.2563	* 1.3462	* 1.3923	* 1.3238	* 1.3441	* 1.2938	* .8493
	* 1.7070	* 1.5918	* 1.5295	* 1.4757	* 1.4986	* 1.5194	* 1.5212	* 2.3695
10	* 1.3420	* 1.3462	* 1.3452	* 1.3002	* 1.3591	* 1.2916	* 1.2541	* .6480
	* 1.5361	* 1.5295	* 1.5302	* 1.5327	* 1.5034	* 1.5747	* 1.5614	* 3.0938
11	* 1.3398	* 1.3934	* 1.3002	* 1.3270	* 1.1984	* 1.1695	* 1.1256	* .6276
	* 1.4855	* 1.4749	* 1.5327	* 1.5483	* 1.6385	* 1.6842	* 1.7313	* 3.1767
12	* 1.4223	* 1.3270	* 1.3591	* 1.1974	* .9885	* .9789	* .7497	*
	* 1.4419	* 1.4953	* 1.5026	* 1.6394	* 1.5798	* 1.6073	* 2.4815	*
13	* 1.3002	* 1.3452	* 1.2916	* 1.1695	* .9789	* .8793	* .5537	*
	* 1.5237	* 1.5180	* 1.5741	* 1.6842	* 1.6073	* 1.7137	* 3.0567	*
14	* 1.2638	* 1.2938	* 1.2552	* 1.1256	* .7497	* .5537	*	*
	* 1.6115	* 1.5210	* 1.5608	* 1.7313	* 2.4815	* 3.0567	*	*
15	* .6994	* .8504	* .6480	* .6276	* F-SUB-Q			
	* 2.8832	* 2.3657	* 3.0931	* 3.1767	* M-SUB-Q			

AT 75% POWER, 250 EFPD, THIS IS LEVEL 21 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .8343	* 1.3270	* 1.4791	* 1.5562	* 1.6033	* 1.5187	* 1.4330	* .7711
	* 2.2265	* 1.6033	* 1.4292	* 1.3103	* 1.3139	* 1.3372	* 1.4560	* 2.6776
9	* 1.3270	* 1.4362	* 1.4791	* 1.5604	* 1.5422	* 1.5112	* 1.4865	* .9468
	* 1.6033	* 1.4274	* 1.4289	* 1.3514	* 1.3190	* 1.3870	* 1.3549	* 2.1803
10	* 1.4791	* 1.4791	* 1.4994	* 1.5048	* 1.5315	* 1.4341	* 1.4373	* .7261
	* 1.4292	* 1.4296	* 1.4086	* 1.3557	* 1.3724	* 1.4578	* 1.3979	* 2.8400
11	* 1.5562	* 1.5615	* 1.5037	* 1.4973	* 1.3934	* 1.3066	* 1.2873	* .6951
	* 1.3103	* 1.3506	* 1.3559	* 1.4086	* 1.4361	* 1.5370	* 1.5498	* 2.9476
12	* 1.6033	* 1.5455	* 1.5315	* 1.3912	* 1.1310	* 1.1288	* .8332	*
	* 1.3139	* 1.3164	* 1.3724	* 1.4375	* 1.4312	* 1.4310	* 2.2983	*
13	* 1.5187	* 1.5123	* 1.4341	* 1.3055	* 1.1288	* 1.0153	* .6180	*
	* 1.3372	* 1.3857	* 1.4578	* 1.5370	* 1.4310	* 1.5286	* 2.8264	*
14	* 1.4330	* 1.4876	* 1.4373	* 1.2873	* .8332	* .6180	*	*
	* 1.4560	* 1.3549	* 1.3979	* 1.5498	* 2.2983	* 2.8264	*	*
15	* .7711	* .9478	* .7261	* .6951	* F-SUB-Q			
	* 2.6776	* 2.1787	* 2.8400	* 2.9486	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 75% POWER, 250 EFPD, THIS IS LEVEL 20 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .8514	* 1.3548	* 1.5197	* 1.6504	* 1.6750	* 1.6172	* 1.5015	* .7958
	* 2.2732	* 1.6282	* 1.4420	* 1.2745	* 1.2988	* 1.2936	* 1.4360	* 2.6881
9	* 1.3548	* 1.5015	* 1.5176	* 1.6236	* 1.6429	* 1.5765	* 1.5669	* .9789
	* 1.6282	* 1.4113	* 1.4427	* 1.3430	* 1.2771	* 1.3723	* 1.3247	* 2.1762
10	* 1.5197	* 1.5176	* 1.5583	* 1.5990	* 1.6011	* 1.4844	* 1.5155	* .7540
	* 1.4420	* 1.4434	* 1.4046	* 1.3192	* 1.3571	* 1.4548	* 1.3633	* 2.8202
11	* 1.6504	* 1.6247	* 1.5979	* 1.5679	* 1.4833	* 1.3591	* 1.3527	* .7176
	* 1.2745	* 1.3418	* 1.3198	* 1.3952	* 1.3874	* 1.5235	* 1.5251	* 2.9524
12	* 1.6750	* 1.6451	* 1.6011	* 1.4801	* 1.1974	* 1.1995		* .8654
	* 1.2988	* 1.2749	* 1.3571	* 1.3883	* 1.4101	* 1.3981		* 2.3011
13	* 1.6172	* 1.5776	* 1.4844	* 1.3591	* 1.1984	* 1.0806		* .6458
	* 1.2936	* 1.3710	* 1.4543	* 1.5238	* 1.3983	* 1.4982		* 2.8308
14	* 1.5015	* 1.5679	* 1.5155	* 1.3527		* .8654		* .6458
	* 1.4360	* 1.3241	* 1.3630	* 1.5251		* 2.3011		* 2.8308
15	* .7958	* .9800	* .7540	* .7176	* F-SUB-Q			
	* 2.6881	* 2.1757	* 2.8202	* 2.9524	* M-SUB-Q			

AT 75% POWER, 250 EFPD, THIS IS LEVEL 19 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .8579	* 1.3570	* 1.5262	* 1.6890	* 1.7007	* 1.6579	* 1.5262	* .8011
	* 2.3538	* 1.6985	* 1.4930	* 1.2886	* 1.3260	* 1.3041	* 1.4605	* 2.7545
9	* 1.3570	* 1.5230	* 1.5251	* 1.6461	* 1.6868	* 1.5990	* 1.5969	* .9875
	* 1.6985	* 1.4497	* 1.4945	* 1.3749	* 1.2874	* 1.4036	* 1.3429	* 2.2345
10	* 1.5262	* 1.5251	* 1.5808	* 1.6440	* 1.6301	* 1.5015	* 1.5465	* .7647
	* 1.4930	* 1.4952	* 1.4435	* 1.3319	* 1.3887	* 1.5017	* 1.3891	* 2.8888
11	* 1.6890	* 1.6472	* 1.6429	* 1.6011	* 1.5294	* 1.3848	* 1.3805	* .7261
	* 1.2886	* 1.3741	* 1.3328	* 1.4263	* 1.3958	* 1.5641	* 1.5666	* 3.0564
12	* 1.7007	* 1.6900	* 1.6301	* 1.5262	* 1.2381	* 1.2424		* .8846
	* 1.3260	* 1.2852	* 1.3894	* 1.3978	* 1.4408	* 1.4268		* 2.3721
13	* 1.6579	* 1.6011	* 1.5015	* 1.3848	* 1.2424	* 1.1245		* .6651
	* 1.3041	* 1.4023	* 1.5012	* 1.5641	* 1.4268	* 1.5327		* 2.9284
14	* 1.5262	* 1.5979	* 1.5465	* 1.3805		* .8836		* .6651
	* 1.4605	* 1.3425	* 1.3885	* 1.5674		* 2.3721		* 2.9284
15	* .8011	* .9885	* .7647	* .7261	* F-SUB-Q			
	* 2.7545	* 2.2328	* 2.8897	* 3.0574	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 75% POWER, 250 EFPD, THIS IS LEVEL 18 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .8761	* 1.3741	* 1.5390	* 1.7254	* 1.7265	* 1.6933	* 1.5487	* .8086
	* 2.4397	* 1.7790	* 1.5590	* 1.3233	* 1.3723	* 1.3373	* 1.5072	* 2.8571
9	* 1.3741	* 1.5487	* 1.5390	* 1.6697	* 1.7275	* 1.6226	* 1.6247	* .9982
	* 1.7790	* 1.5037	* 1.5609	* 1.4268	* 1.3197	* 1.4542	* 1.3829	* 2.3198
10	* 1.5390	* 1.5380	* 1.6076	* 1.6879	* 1.6633	* 1.5230	* 1.5765	* .7743
	* 1.5590	* 1.5612	* 1.5007	* 1.3688	* 1.4413	* 1.5660	* 1.4356	* 3.0029
11	* 1.7254	* 1.6708	* 1.6868	* 1.6429	* 1.5819	* 1.4266	* 1.4126	* .7368
	* 1.3233	* 1.4254	* 1.3699	* 1.4798	* 1.4190	* 1.6090	* 1.6277	* 3.1955
12	* 1.7265	* 1.7297	* 1.6633	* 1.5787	* 1.3045	* 1.3098		* .9146
	* 1.3723	* 1.3177	* 1.4415	* 1.4203	* 1.4781	* 1.4596		* 2.4480
13	* 1.6933	* 1.6236	* 1.5230	* 1.4255	* 1.3098	* 1.1931		* .6972
	* 1.3373	* 1.4533	* 1.5655	* 1.6098	* 1.4603	* 1.5710		* 3.0212
14	* 1.5487	* 1.6247	* 1.5765	* 1.4126		* .9146		* .6972
	* 1.5072	* 1.3827	* 1.4351	* 1.6277		* 2.4480		* 3.0212
15	* .8086	* .9992	* .7743	* .7368				* F-SUB-Q
	* 2.8571	* 2.3180	* 3.0029	* 3.1955				* M-SUB-Q

AT 75% POWER, 250 EFPD, THIS IS LEVEL 17 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9264	* 1.3837	* 1.5315	* 1.7372	* 1.7265	* 1.7050	* 1.5476	* .8032
	* 2.5787	* 1.8763	* 1.6699	* 1.4022	* 1.4594	* 1.4146	* 1.5968	* 3.0475
9	* 1.3837	* 1.5594	* 1.5315	* 1.6675	* 1.7425	* 1.6194	* 1.6311	* .9939
	* 1.8763	* 1.6054	* 1.6723	* 1.5202	* 1.3973	* 1.5483	* 1.4670	* 2.4734
10	* 1.5315	* 1.5305	* 1.6108	* 1.7136	* 1.6729	* 1.5251	* 1.5872	* .7733
	* 1.6699	* 1.6732	* 1.6027	* 1.4525	* 1.5361	* 1.6760	* 1.5263	* 3.1981
11	* 1.7372	* 1.6686	* 1.7125	* 1.6654	* 1.6247	* 1.4608	* 1.4351	* .7379
	* 1.4022	* 1.5189	* 1.4534	* 1.5435	* 1.4708	* 1.6825	* 1.6964	* 3.4237
12	* 1.7265	* 1.7457	* 1.6729	* 1.6215	* 1.4298	* 1.3998		* .9403
	* 1.4594	* 1.3953	* 1.5361	* 1.4725	* 1.5457	* 1.5297		* 2.5639
13	* 1.7050	* 1.6204	* 1.5251	* 1.4608	* 1.3998	* 1.2873		* .7272
	* 1.4146	* 1.5473	* 1.6757	* 1.6827	* 1.5297	* 1.6500		* 3.1828
14	* 1.5476	* 1.6311	* 1.5883	* 1.4341		* .9403		* .7272
	* 1.5968	* 1.4667	* 1.5263	* 1.6964		* 2.5639		* 3.1828
15	* .8032	* .9939	* .7733	* .7379				* F-SUB-Q
	* 3.0475	* 2.4713	* 3.2015	* 3.4237				* M-SUB-Q

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 75% POWER, 250 EFPD, THIS IS LEVEL 16 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	.9907	1.4030	1.5326	1.7468	1.7297	1.7136	1.5508	.8022
	2.7329	1.9822	1.7956	1.5080	1.5617	1.5177	1.7036	3.2597
9	1.4030	1.5744	1.5337	1.6708	1.7564	1.6215	1.6376	.9939
	1.9822	1.7244	1.7995	1.6296	1.5019	1.6581	1.5778	2.6478
10	1.5326	1.5326	1.6226	1.7414	1.6879	1.5347	1.6011	.7765
	1.7956	1.8005	1.7183	1.5458	1.6443	1.7995	1.6438	3.4174
11	1.7468	1.6718	1.7382	1.6954	1.6761	1.5048	1.4608	.7433
	1.5080	1.6278	1.5490	1.6219	1.5490	1.7652	1.7935	3.6559
12	1.7297	1.7586	1.6879	1.6740	1.5712	1.5230		.9735
	1.5617	1.4994	1.6443	1.5507	1.6181	1.6108		2.6925
13	1.7136	1.6226	1.5347	1.5048	1.5230	1.4009		.7647
	1.5177	1.6563	1.7995	1.7654	1.6108	1.7369		3.3297
14	1.5508	1.6376	1.6011	1.4608	.9735	.7647		
	1.7036	1.5770	1.6435	1.7935	2.6925	3.3297		
15	.8022	.9939	.7765	.7433	F-SUB-Q			
	3.2597	2.6455	3.4187	3.6587	M-SUB-Q			

AT 75% POWER, 250 EFPD, THIS IS LEVEL 15 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	1.0025	1.3934	1.5090	1.7179	1.7029	1.6858	1.5251	.7883
	2.9509	2.1322	1.9738	1.6692	1.7119	1.6782	1.8650	3.5707
9	1.3934	1.5530	1.5112	1.6461	1.7297	1.5958	1.6097	.9768
	2.1322	1.8775	1.9700	1.7885	1.6618	1.8177	1.7441	2.9005
10	1.5090	1.5101	1.6054	1.7286	1.6729	1.5176	1.5787	.7626
	1.9738	1.9712	1.8476	1.6743	1.7654	1.9355	1.8099	3.7580
11	1.7179	1.6472	1.7254	1.6900	1.6911	1.5133	1.4544	.7368
	1.6692	1.7864	1.6771	1.7444	1.6817	1.8996	1.9488	3.9197
12	1.7029	1.7318	1.6729	1.6879	1.6343	1.5776		.9853
	1.7119	1.6597	1.7661	1.6837	1.7411	1.7490		2.8940
13	1.6858	1.5969	1.5176	1.5133	1.5776	1.4533		.7818
	1.6782	1.8166	1.9355	1.9008	1.7490	1.8860		3.5798
14	1.5251	1.6097	1.5787	1.4544	.9853	.7818		
	1.8650	1.7437	1.8099	1.9488	2.8940	3.5798		
15	.7883	.9778	.7615	.7368	F-SUB-Q			
	3.5707	2.8978	3.7596	3.9197	M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 75% POWER, 250 EFPD, THIS IS LEVEL 14 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	1.0142	1.3998	1.5112	1.7361	1.7093	1.7029	1.5347	.7883
	3.1314	2.2695	2.1051	1.8037	1.8466	1.8105	2.0024	3.8491
9	1.3998	1.5701	1.5133	1.6515	1.7500	1.6001	1.6247	.9789
	2.2695	2.0007	2.1008	1.9224	1.7875	1.9631	1.8828	3.1248
10	1.5112	1.5123	1.6151	1.7597	1.6858	1.5251	1.5990	.7679
	2.1051	2.1023	1.9646	1.7747	1.8729	2.0587	1.9219	4.0362
11	1.7361	1.6526	1.7564	1.7104	1.7350	1.5380	1.4812	.7411
	1.8037	1.9208	1.7778	1.8450	1.7841	2.0172	2.0624	4.1602
12	1.7093	1.7522	1.6858	1.7318	1.6815	1.6333	1.0025	
	1.8466	1.7844	1.8733	1.7872	1.8459	1.8595	3.0770	
13	1.7029	1.6011	1.5251	1.5380	1.6333	1.5080	.8011	
	1.8105	1.9619	2.0587	2.0172	1.8604	2.0054	3.8065	
14	1.5347	1.6258	1.5990	1.4812	1.0025	.8011		
	2.0024	1.8828	1.9219	2.0629	3.0770	3.8065		
15	.7883	.9800	.7679	.7411	F-SUB-Q			
	3.8491	3.1237	4.0362	4.1602	M-SUB-Q			

AT 75% POWER, 250 EFPD, THIS IS LEVEL 13 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	1.0046	1.3891	1.4973	1.7286	1.6986	1.6954	1.5262	.7818
	3.2868	2.3829	2.2122	1.9108	1.9519	1.9492	2.1736	4.1906
9	1.3891	1.5615	1.5005	1.6397	1.7436	1.5883	1.6172	.9714
	2.3829	2.1136	2.2075	2.0202	1.8945	2.0878	2.0428	3.3978
10	1.4973	1.4994	1.6054	1.7586	1.6793	1.5155	1.5947	.7626
	2.2122	2.2075	2.0616	1.8751	1.9717	2.1843	2.0714	4.3382
11	1.7286	1.6408	1.7554	1.7061	1.7414	1.5433	1.4823	.7379
	1.9108	2.0189	1.8796	1.9386	1.8911	2.1423	2.2209	4.4687
12	1.6986	1.7457	1.6783	1.7382	1.6890	1.6461	1.0035	
	1.9519	1.8911	1.9729	1.8945	1.9544	1.9968	3.2868	
13	1.6954	1.5894	1.5155	1.5422	1.6461	1.5219	.8054	
	1.9492	2.0864	2.1843	2.1423	1.9968	2.1562	4.0720	
14	1.5262	1.6172	1.5947	1.4823	1.0035	.8054		
	2.1736	2.0428	2.0714	2.2209	3.2868	4.0720		
15	.7818	.9714	.7626	.7368	F-SUB-Q			
	4.1906	3.3978	4.3382	4.4687	M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 75% POWER, 250 EFPD, THIS IS LEVEL 12 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	.9875	1.3645	1.4726	1.6997	1.6729	1.6675	1.5015	.7679
	3.3251	2.4125	2.2382	1.9422	1.9741	1.9804	2.1988	4.2804
9	1.3645	1.5326	1.4758	1.6140	1.7157	1.5637	1.5915	.9553
	2.4125	2.1520	2.2350	2.0451	1.9267	2.1127	2.0763	3.4536
10	1.4726	1.4748	1.5819	1.7329	1.6558	1.4930	1.5701	.7508
	2.2382	2.2366	2.0888	1.9091	1.9968	2.2144	2.1070	4.3946
11	1.6997	1.6151	1.7297	1.6847	1.7211	1.5262	1.4619	.7272
	1.9422	2.0437	1.9126	1.9642	1.9255	2.1729	2.2657	4.5413
12	1.6729	1.7179	1.6547	1.7179	1.6729	1.6311		.9939
	1.9741	1.9243	1.9981	1.9291	1.9829	2.0344		3.3358
13	1.6675	1.5647	1.4930	1.5262	1.6301	1.5090		.7990
	1.9804	2.1113	2.2144	2.1729	2.0358	2.2004		4.1443
14	1.5015	1.5915	1.5701	1.4619	.9939	.7990		
	2.1988	2.0763	2.1070	2.2674	3.3358	4.1443		
15	.7679	.9553	.7497	.7272	F-SUB-Q			
	4.2804	3.4536	4.4008	4.5413	M-SUB-Q			

AT 75% POWER, 250 EFPD, THIS IS LEVEL 11 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	.9853	1.3666	1.4748	1.7147	1.6804	1.6825	1.5123	.7700
	3.1670	2.2940	2.1300	1.8427	1.8793	1.8770	2.0777	4.0322
9	1.3666	1.5412	1.4780	1.6215	1.7307	1.5690	1.6044	.9585
	2.2940	2.0411	2.1285	1.9471	1.8287	2.0109	1.9691	3.2695
10	1.4748	1.4769	1.5883	1.7500	1.6643	1.4973	1.5829	.7529
	2.1300	2.1300	1.9930	1.8192	1.9067	2.1156	2.0019	4.1664
11	1.7147	1.6226	1.7468	1.6943	1.7404	1.5380	1.4748	.7294
	1.8427	1.9459	1.8223	1.8793	1.8352	2.0735	2.1579	4.3218
12	1.6804	1.7329	1.6643	1.7372	1.6879	1.6493		.9992
	1.8793	1.8266	1.9067	1.8384	1.8929	1.9374		3.1798
13	1.6825	1.5701	1.4973	1.5380	1.6493	1.5262		.8054
	1.8770	2.0096	2.1156	2.0749	1.9374	2.0929		3.9408
14	1.5123	1.6044	1.5829	1.4748	.9992	.8054		
	2.0777	1.9691	2.0019	2.1594	3.1798	3.9408		
15	.7700	.9585	.7529	.7294	F-SUB-Q			
	4.0322	3.2661	4.1719	4.3218	M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 75% POWER, 250 EFPD, THIS IS LEVEL 10 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9703	* 1.3527	* 1.4608	* 1.7082	* 1.6697	* 1.6772	* 1.5058	* .7636
	* 3.0290	* 2.1850	* 2.0200	* 1.7287	* 1.7678	* 1.7569	* 1.9483	* 3.8019
9	* 1.3527	* 1.5326	* 1.4641	* 1.6086	* 1.7254	* 1.5583	* 1.5990	* .9510
	* 2.1850	* 1.9362	* 2.0226	* 1.8384	* 1.7192	* 1.8940	* 1.8449	* 3.0736
10	* 1.4608	* 1.4630	* 1.5765	* 1.7457	* 1.6536	* 1.4855	* 1.5787	* .7465
	* 2.0200	* 2.0239	* 1.8952	* 1.7192	* 1.8107	* 2.0122	* 1.8952	* 3.9358
11	* 1.7082	* 1.6097	* 1.7425	* 1.6847	* 1.7372	* 1.5305	* 1.4705	* .7229
	* 1.7287	* 1.8362	* 1.7230	* 1.7819	* 1.7354	* 1.9704	* 2.0424	* 4.1116
12	* 1.6697	* 1.7275	* 1.6536	* 1.7350	* 1.6804	* 1.6472	* .9928	*
	* 1.7678	* 1.7164	* 1.8107	* 1.7393	* 1.7983	* 1.8384	* 3.0261	*
13	* 1.6772	* 1.5594	* 1.4855	* 1.5294	* 1.6461	* 1.5251	* .8000	*
	* 1.7569	* 1.8929	* 2.0122	* 1.9704	* 1.8384	* 1.9866	* 3.7608	*
14	* 1.5058	* 1.5990	* 1.5787	* 1.4705	* .9928	* .8000	*	*
	* 1.9483	* 1.8449	* 1.8952	* 2.0424	* 3.0261	* 3.7608	*	*
15	* .7636	* .9510	* .7465	* .7229	* F-SUB-Q			
	* 3.8019	* 3.0736	* 3.9358	* 4.1170	* M-SUB-Q			

AT 75% POWER, 250 EFPD, THIS IS LEVEL 9 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9564	* 1.3345	* 1.4416	* 1.6911	* 1.6504	* 1.6611	* 1.4908	* .7540
	* 2.8865	* 2.0708	* 1.9067	* 1.6331	* 1.6715	* 1.6617	* 1.8438	* 3.6131
9	* 1.3345	* 1.5133	* 1.4448	* 1.5904	* 1.7082	* 1.5401	* 1.5829	* .9393
	* 2.0708	* 1.8277	* 1.9079	* 1.7364	* 1.6221	* 1.7910	* 1.7432	* 2.9134
10	* 1.4416	* 1.4448	* 1.5572	* 1.7286	* 1.6365	* 1.4673	* 1.5637	* .7379
	* 1.9067	* 1.9091	* 1.7890	* 1.6280	* 1.7079	* 1.9009	* 1.7819	* 3.7205
11	* 1.6911	* 1.5915	* 1.7254	* 1.6665	* 1.7222	* 1.5144	* 1.4566	* .7144
	* 1.6331	* 1.7354	* 1.6314	* 1.6950	* 1.6538	* 1.8793	* 1.9459	* 3.8917
12	* 1.6504	* 1.7104	* 1.6354	* 1.7190	* 1.6643	* 1.6333	* .9810	*
	* 1.6715	* 1.6195	* 1.7089	* 1.6564	* 1.7145	* 1.7519	* 2.8918	*
13	* 1.6611	* 1.5412	* 1.4673	* 1.5144	* 1.6322	* 1.5123	* .7915	*
	* 1.6617	* 1.7900	* 1.9009	* 1.8804	* 1.7529	* 1.8940	* 3.5965	*
14	* 1.4908	* 1.5840	* 1.5637	* 1.4566	* .9810	* .7915	*	*
	* 1.8438	* 1.7432	* 1.7819	* 1.9459	* 2.8918	* 3.5965	*	*
15	* .7540	* .9393	* .7379	* .7144	* F-SUB-Q			
	* 3.6131	* 2.9134	* 3.7205	* 3.8917	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 50% POWER, 475 EFPD, THIS IS LEVEL 8 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .7593	* 1.1727	* 1.3205	* 1.6590	* 1.5433	* 1.6868	* 1.4973	* .8397
	* 4.0322	* 2.9971	* 2.6577	* 2.1344	* 2.2906	* 2.1047	* 2.3656	* 4.1757
9	* 1.1727	* 1.4223	* 1.3045	* 1.4683	* 1.6718	* 1.4705	* 1.5958	* 1.0153
	* 2.9971	* 2.4807	* 2.6958	* 2.4057	* 2.1228	* 2.4057	* 2.2254	* 3.4715
10	* 1.3205	* 1.3034	* 1.3784	* 1.5904	* 1.4512	* 1.3173	* 1.5069	* .8011
	* 2.6577	* 2.6958	* 2.5703	* 2.2392	* 2.4509	* 2.6943	* 2.3668	* 4.4028
11	* 1.6590	* 1.4683	* 1.5904	* 1.4062	* 1.4384	* 1.2134	* 1.3259	* .7379
	* 2.1344	* 2.4044	* 2.2392	* 2.5411	* 2.4243	* 2.8514	* 2.7130	* 4.8138
12	* 1.5433	* 1.6740	* 1.4512	* 1.4373	* 1.0849	* 1.1460	* .8375	*
	* 2.2906	* 2.1199	* 2.4509	* 2.4281	* 2.6562	* 2.5945	* 4.0706	*
13	* 1.6868	* 1.4705	* 1.3173	* 1.2134	* 1.1460	* 1.0528	* .6544	*
	* 2.1047	* 2.4057	* 2.6927	* 2.8514	* 2.5945	* 2.8189	* 4.9043	*
14	* 1.4973	* 1.5958	* 1.5080	* 1.3259	* .8375	* .6544	*	*
	* 2.3656	* 2.2244	* 2.3668	* 2.7130	* 4.0706	* 4.9043	*	*
15	* .8397	* 1.0164	* .8011	* .7379	F-SUB-Q			
	* 4.1757	* 3.4689	* 4.4028	* 4.8138	M-SUB-Q			

AT 50% POWER, 475 EFPD, THIS IS LEVEL 7 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .7893	* 1.2038	* 1.3441	* 1.6922	* 1.5658	* 1.7179	* 1.5230	* .8525
	* 3.5637	* 2.6866	* 2.4143	* 1.9299	* 2.0832	* 1.9056	* 2.1451	* 3.8034
9	* 1.2038	* 1.4630	* 1.3270	* 1.4898	* 1.7050	* 1.4887	* 1.6279	* 1.0314
	* 2.6866	* 2.2339	* 2.4483	* 2.1871	* 1.9196	* 2.1911	* 2.0126	* 3.1606
10	* 1.3441	* 1.3259	* 1.4052	* 1.6301	* 1.4791	* 1.3398	* 1.5422	* .8172
	* 2.4143	* 2.4496	* 2.3304	* 2.0196	* 2.2212	* 2.4470	* 2.1373	* 3.9944
11	* 1.6922	* 1.4908	* 1.6290	* 1.4426	* 1.4940	* 1.2563	* 1.3677	* .7540
	* 1.9299	* 2.1860	* 2.0204	* 2.2940	* 2.1353	* 2.5343	* 2.4381	* 4.3660
12	* 1.5658	* 1.7072	* 1.4791	* 1.4930	* 1.1406	* 1.2156	* .8718	*
	* 2.0832	* 1.9180	* 2.2212	* 2.1382	* 2.3958	* 2.3292	* 3.6159	*
13	* 1.7179	* 1.4898	* 1.3409	* 1.2563	* 1.2156	* 1.1235	* .6897	*
	* 1.9056	* 2.1901	* 2.4470	* 2.5343	* 2.3292	* 2.5397	* 4.3946	*
14	* 1.5230	* 1.6279	* 1.5422	* 1.3677	* .8718	* .6897	*	*
	* 2.1451	* 2.0126	* 2.1373	* 2.4381	* 3.6131	* 4.3946	*	*
15	* .8525	* 1.0314	* .8172	* .7540	F-SUB-Q			
	* 3.8034	* 3.1584	* 3.9944	* 4.3660	M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 75% POWER, 250 EFPD, THIS IS LEVEL 8 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9371	* 1.3109	* 1.4180	* 1.6579	* 1.6247	* 1.6290	* 1.4651	* .7411
	* 2.7375	* 1.9654	* 1.8202	* 1.5660	* 1.5972	* 1.5940	* 1.7668	* 3.4651
9	* 1.3109	* 1.4812	* 1.4212	* 1.5637	* 1.6750	* 1.5155	* 1.5551	* .9232
	* 1.9654	* 1.7461	* 1.8202	* 1.6590	* 1.5544	* 1.7117	* 1.6697	* 2.7912
10	* 1.4180	* 1.4201	* 1.5326	* 1.6965	* 1.6108	* 1.4448	* 1.5347	* .7240
	* 1.8202	* 1.8213	* 1.7014	* 1.5490	* 1.6237	* 1.8066	* 1.7014	* 3.5678
11	* 1.6579	* 1.5647	* 1.6922	* 1.6397	* 1.6900	* 1.4919	* 1.4298	* .7026
	* 1.5660	* 1.6573	* 1.5521	* 1.6038	* 1.5731	* 1.7890	* 1.8449	* 3.6985
12	* 1.6247	* 1.6772	* 1.6097	* 1.6868	* 1.6397	* 1.6044		* .9660
	* 1.5972	* 1.5521	* 1.6246	* 1.5771	* 1.6356	* 1.6786		* 2.7495
13	* 1.6290	* 1.5165	* 1.4448	* 1.4908	* 1.6044	* 1.4855		* .7786
	* 1.5940	* 1.7107	* 1.8066	* 1.7900	* 1.6795	* 1.8160		* 3.4384
14	* 1.4651	* 1.5551	* 1.5347	* 1.4298	* .9660	* .7786		
	* 1.7668	* 1.6697	* 1.7014	* 1.8449	* 2.7495	* 3.4384		
15	* .7411	* .9243	* .7229	* .7026	* F-SUB-Q			
	* 3.4651	* 2.7887	* 3.5678	* 3.7029	* M-SUB-Q			

AT 75% POWER, 250 EFPD, THIS IS LEVEL 7 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9318	* 1.3045	* 1.4116	* 1.6633	* 1.6215	* 1.6343	* 1.4673	* .7379
	* 2.5923	* 1.8636	* 1.7297	* 1.4780	* 1.5152	* 1.5058	* 1.6723	* 3.3006
9	* 1.3045	* 1.4844	* 1.4148	* 1.5594	* 1.6804	* 1.5112	* 1.5604	* .9211
	* 1.8636	* 1.6468	* 1.7287	* 1.5739	* 1.4662	* 1.6254	* 1.5755	* 2.6517
10	* 1.4116	* 1.4137	* 1.5272	* 1.7018	* 1.6076	* 1.4394	* 1.5422	* .7229
	* 1.7297	* 1.7297	* 1.6112	* 1.4547	* 1.5353	* 1.7117	* 1.6005	* 3.3790
11	* 1.6633	* 1.5604	* 1.6986	* 1.6376	* 1.6975	* 1.4908	* 1.4362	* .6994
	* 1.4780	* 1.5731	* 1.4580	* 1.5123	* 1.4697	* 1.6741	* 1.7268	* 3.5078
12	* 1.6215	* 1.6836	* 1.6065	* 1.6943	* 1.6397	* 1.6119		* .9628
	* 1.5152	* 1.4635	* 1.5361	* 1.4725	* 1.5263	* 1.5575		* 2.5838
13	* 1.6343	* 1.5123	* 1.4394	* 1.4898	* 1.6119	* 1.4930		* .7765
	* 1.5058	* 1.6246	* 1.7117	* 1.6750	* 1.5575	* 1.6840		* 3.2158
14	* 1.4673	* 1.5604	* 1.5422	* 1.4351	* .9628	* .7765		
	* 1.6723	* 1.5755	* 1.6005	* 1.7278	* 2.5838	* 3.2158		
15	* .7379	* .9211	* .7229	* .6994	* F-SUB-Q			
	* 3.3006	* 2.6517	* 3.3790	* 3.5078	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 75% POWER, 250 EFPD, THIS IS LEVEL 6 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	.9136	1.2820	1.3859	1.6333	1.5936	1.6044	1.4437	.7240
	2.5193	1.8086	1.6795	1.4366	1.4711	1.4635	1.6237	3.2158
9	1.2820	1.4566	1.3902	1.5315	1.6504	1.4844	1.5358	.9050
	1.8086	1.5997	1.6777	1.5286	1.4242	1.5787	1.5286	2.5795
10	1.3859	1.3891	1.5005	1.6718	1.5808	1.4159	1.5176	.7111
	1.6795	1.6786	1.5621	1.4094	1.4871	1.6573	1.5490	3.2833
11	1.6333	1.5326	1.6675	1.6097	1.6686	1.4673	1.4137	.6876
	1.4366	1.5271	1.4126	1.4628	1.4190	1.6120	1.6670	3.4047
12	1.5936	1.6526	1.5797	1.6654	1.6151	1.5883	.9468	
	1.4711	1.4223	1.4879	1.4216	1.4683	1.4957	2.4912	
13	1.6044	1.4855	1.4159	1.4673	1.5872	1.4705	.7636	
	1.4635	1.5779	1.6573	1.6129	1.4964	1.6170	3.0949	
14	1.4437	1.5358	1.5176	1.4137	.9468	.7636		
	1.6237	1.5286	1.5490	1.6679	2.4912	3.0949		
15	.7240	.9061	.7101	.6865	F-SUB-Q			
	3.2158	2.5774	3.2867	3.4047	M-SUB-Q			

AT 75% POWER, 250 EFPD, THIS IS LEVEL 5 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	.8782	1.2338	1.3345	1.5562	1.5305	1.5283	1.3848	.6961
	2.5254	1.8076	1.6777	1.4499	1.4731	1.4780	1.6288	3.2224
9	1.2338	1.3880	1.3388	1.4716	1.5722	1.4266	1.4694	.8697
	1.8076	1.6145	1.6741	1.5301	1.4379	1.5803	1.5376	2.5859
10	1.3345	1.3388	1.4416	1.5926	1.5208	1.3645	1.4523	.6801
	1.6777	1.6750	1.5621	1.4203	1.4850	1.6529	1.5567	3.3041
11	1.5562	1.4726	1.5894	1.5476	1.5926	1.4126	1.3548	.6619
	1.4499	1.5286	1.4242	1.4608	1.4261	1.6054	1.6715	3.4010
12	1.5305	1.5733	1.5197	1.5894	1.5530	1.5219	.9136	
	1.4731	1.4360	1.4857	1.4287	1.4621	1.4950	2.4774	
13	1.5283	1.4276	1.3645	1.4126	1.5219	1.4084	.7358	
	1.4780	1.5795	1.6529	1.6062	1.4957	1.6162	3.0797	
14	1.3848	1.4694	1.4523	1.3537	.9136	.7358		
	1.6288	1.5368	1.5567	1.6715	2.4774	3.0797		
15	.6961	.8707	.6801	.6619	F-SUB-Q			
	3.2224	2.5859	3.3076	3.4010	M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 75% POWER, 250 EFPD, THIS IS LEVEL 4 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .8482	* 1.1910	* 1.2873	* 1.4898	* 1.4737	* 1.4641	* 1.3345	* .6715
	* 2.5377	* 1.8181	* 1.6868	* 1.4676	* 1.4822	* 1.4957	* 1.6391	* 3.2492
9	* 1.1910	* 1.3313	* 1.2927	* 1.4169	* 1.5037	* 1.3720	* 1.4126	* .8365
	* 1.8181	* 1.6331	* 1.6813	* 1.5406	* 1.4560	* 1.5932	* 1.5505	* 2.6118
10	* 1.2873	* 1.2916	* 1.3869	* 1.5251	* 1.4651	* 1.3163	* 1.3966	* .6544
	* 1.6868	* 1.6831	* 1.5731	* 1.4366	* 1.4928	* 1.6608	* 1.5692	* 3.3358
11	* 1.4898	* 1.4180	* 1.5208	* 1.4908	* 1.5272	* 1.3634	* 1.3045	* .6372
	* 1.4676	* 1.5398	* 1.4399	* 1.4676	* 1.4386	* 1.6095	* 1.6813	* 3.4309
12	* 1.4737	* 1.5048	* 1.4641	* 1.5240	* 1.4983	* 1.4651	* .8814	*
	* 1.4822	* 1.4547	* 1.4935	* 1.4419	* 1.4656	* 1.5014	* 2.4872	*
13	* 1.4641	* 1.3730	* 1.3152	* 1.3634	* 1.4651	* 1.3570	* .7090	*
	* 1.4957	* 1.5915	* 1.6608	* 1.6104	* 1.5014	* 1.6229	* 3.0949	*
14	* 1.3345	* 1.4126	* 1.3966	* 1.3034	* .8814	* .7090	*	*
	* 1.6391	* 1.5505	* 1.5692	* 1.6822	* 2.4872	* 3.0949	*	*
15	* .6715	* .8365	* .6544	* .6362	* F-SUB-Q			
	* 3.2492	* 2.6096	* 3.3358	* 3.4309	* M-SUB-Q			

AT 75% POWER, 250 EFPD, THIS IS LEVEL 3 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .7786	* 1.0860	* 1.1749	* 1.3473	* 1.3441	* 1.3238	* 1.2177	* .6148
	* 2.7044	* 1.9483	* 1.8076	* 1.5835	* 1.5867	* 1.6145	* 1.7549	* 3.4689
9	* 1.0860	* 1.1995	* 1.1802	* 1.2916	* 1.3580	* 1.2488	* 1.2745	* .7593
	* 1.9483	* 1.7708	* 1.8003	* 1.6494	* 1.5739	* 1.7089	* 1.6795	* 2.8138
10	* 1.1749	* 1.1792	* 1.2616	* 1.3773	* 1.3388	* 1.1974	* 1.2531	* .5965
	* 1.8076	* 1.8014	* 1.6877	* 1.5513	* 1.5940	* 1.7829	* 1.7079	* 3.5800
11	* 1.3473	* 1.2927	* 1.3741	* 1.3591	* 1.3794	* 1.2424	* 1.1749	* .5816
	* 1.5835	* 1.6486	* 1.5559	* 1.5708	* 1.5528	* 1.7239	* 1.8234	* 3.6768
12	* 1.3441	* 1.3591	* 1.3377	* 1.3773	* 1.3677	* 1.3238	* .8065	*
	* 1.5867	* 1.5723	* 1.5948	* 1.5559	* 1.5660	* 1.6212	* 2.6539	*
13	* 1.3238	* 1.2499	* 1.1974	* 1.2424	* 1.3238	* 1.2231	* .6469	*
	* 1.6145	* 1.7079	* 1.7829	* 1.7249	* 1.6221	* 1.7569	* 3.3146	*
14	* 1.2177	* 1.2745	* 1.2531	* 1.1749	* .8065	* .6469	*	*
	* 1.7549	* 1.6786	* 1.7079	* 1.8234	* 2.6562	* 3.3146	*	*
15	* .6148	* .7604	* .5965	* .5805	* F-SUB-Q			
	* 3.4689	* 2.8113	* 3.5800	* 3.6768	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 75% POWER, 250 EFPD, THIS IS LEVEL 2 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	.6458	.8782	.9489	1.1545	1.0946	1.1342	.9992	.5077
	3.2125	2.3686	2.1988	1.8118	1.9126	1.8482	2.1014	4.1334
9	.8782	1.0249	.9510	1.0496	1.1642	1.0121	1.0442	.6148
	2.3686	2.0331	2.1958	1.9930	1.7983	2.0708	2.0122	3.4234
10	.9489	.9500	1.0228	1.1824	1.0978	.9618	1.0142	.4916
	2.1988	2.1973	2.0451	1.7718	1.9067	2.1805	2.0722	4.2745
11	1.1545	1.0496	1.1792	1.1063	1.1781	1.0067	.9403	.4777
	1.8118	1.9917	1.7758	1.8940	1.7819	2.0888	2.2382	4.4070
12	1.0946	1.1652	1.0978	1.1760	1.1160	1.0860	.6672	
	1.9126	1.7962	1.9079	1.7849	1.8826	1.9386	3.1542	
13	1.1342	1.0121	.9618	1.0057	1.0860	.9725	.5301	
	1.8482	2.0694	2.1805	2.0902	1.9398	2.1699	3.9758	
14	.9992	1.0442	1.0142	.9403	.6672	.5301		
	2.1014	2.0109	2.0722	2.2382	3.1542	3.9758		
15	.5077	.6148	.4916	.4766	F-SUB-Q			
	4.1334	3.4196	4.2745	4.4070	M-SUB-Q			

AT 75% POWER, 250 EFPD, THIS IS LEVEL 1 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	.4402	.3781	.4198	.4991	.4680	.4894	.4295	.3427
	4.6493	5.4134	4.8814	4.1116	4.3946	4.1999	4.7917	6.0288
9	.3781	.4391	.4091	.4584	.5034	.4509	.4273	.2817
	5.4134	4.6631	5.0224	4.4892	4.0795	4.5612	4.8212	7.3450
10	.4198	.4081	.4605	.5119	.4723	.4155	.4123	.3427
	4.8814	5.0224	4.4572	4.0166	4.3518	4.9587	4.9983	6.0288
11	.4991	.4573	.5098	.4745	.5087	.4327	.3791	.2345
	4.1116	4.4892	4.0270	4.3337	4.0426	4.7625	5.4511	8.8389
12	.4680	.5044	.4712	.5077	.4819	.4445	.3277	
	4.3946	4.0742	4.3640	4.0531	4.2804	4.6493	6.3211	
13	.4894	.4520	.4145	.4327	.4445	.3973	.2506	
	4.1999	4.5545	4.9666	4.7698	4.6493	5.1976	8.2777	
14	.4295	.4273	.4123	.3791	.3277	.2506		
	4.7917	4.8212	4.9983	5.4511	6.3211	8.2777		
15	.3427	.2817	.3427	.2345	F-SUB-Q			
	6.0288	7.3450	6.0288	8.8389	M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 75% POWER, 350 EFPD, THIS IS LEVEL 24 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	.5387	.5398	.6062	.6629	.6522	.6490	.5890	.5194
	3.3614	3.8088	3.3928	3.0106	3.1489	3.0706	3.4705	3.9017
9	.5398	.5987	.5987	.6340	.6619	.6233	.5783	.4177
	3.8088	3.3361	3.4329	3.2384	3.0138	3.2903	3.4230	4.8508
10	.6062	.5987	.6083	.6415	.6244	.5762	.5494	.4916
	3.3928	3.4363	3.3712	3.1038	3.2780	3.5493	3.5952	4.1087
11	.6629	.6351	.6415	.6062	.5719	.5216	.4798	.3320
	3.0106	3.2378	3.1038	3.3705	3.3431	3.8054	4.0630	6.0235
12	.6522	.6629	.6244	.5719	.4595	.4166	.3866	
	3.1489	3.0101	3.2780	3.3431	3.4637	3.6776	4.8338	
13	.6490	.6244	.5762	.5216	.4166	.3620	.2752	
	3.0706	3.2866	3.5503	3.8054	3.6776	4.0471	6.1422	
14	.5890	.5783	.5494	.4798	.3866	.2752		
	3.4705	3.4230	3.5933	4.0584	4.8338	6.1422		
15	.5194	.4177	.4916	.3320	F-SUB-Q			
	3.9017	4.8495	4.1087	6.0235	M-SUB-Q			

AT 75% POWER, 350 EFPD, THIS IS LEVEL 23 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	.6908	1.1063	1.2327	1.2520	1.3355	1.2295	1.1942	.6865
	2.5407	1.9118	1.7157	1.6388	1.5832	1.6673	1.7606	3.0367
9	1.1063	1.1481	1.2402	1.3002	1.2456	1.2649	1.1942	.8204
	1.9118	1.7868	1.7032	1.6254	1.6464	1.6668	1.7067	2.5400
10	1.2327	1.2402	1.2456	1.2092	1.2702	1.1952	1.1438	.6319
	1.7157	1.7033	1.6920	1.6923	1.6567	1.7515	1.7708	3.2901
11	1.2520	1.3013	1.2092	1.2402	1.1138	1.0774	1.0185	.6115
	1.6388	1.6243	1.6923	1.6945	1.8023	1.8706	1.9661	3.3592
12	1.3355	1.2477	1.2702	1.1128	.9007	.8804	.7069	
	1.5832	1.6435	1.6567	1.8024	1.7256	1.8118	2.6951	
13	1.2295	1.2659	1.1963	1.0774	.8804	.7829	.5237	
	1.6673	1.6658	1.7505	1.8706	1.8118	1.9440	3.2993	
14	1.1942	1.1942	1.1449	1.0196	.7069	.5237		
	1.7606	1.7059	1.7699	1.9658	2.6951	3.2993		
15	.6865	.8215	.6319	.6115	F-SUB-Q			
	3.0367	2.5378	3.2901	3.3592	M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 75% POWER, 350 EFPD, THIS IS LEVEL 22 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .8075	* 1.2766	* 1.4309	* 1.5240	* 1.5722	* 1.5005	* 1.4148	* .7979
	* 2.2869	* 1.6952	* 1.5088	* 1.3701	* 1.3692	* 1.3882	* 1.5164	* 2.6688
9	* 1.2766	* 1.3902	* 1.4341	* 1.5251	* 1.5197	* 1.4898	* 1.4459	* .9628
	* 1.6952	* 1.5046	* 1.5040	* 1.4129	* 1.3711	* 1.4403	* 1.4332	* 2.2059
10	* 1.4309	* 1.4330	* 1.4587	* 1.4705	* 1.4930	* 1.3966	* 1.3912	* .7411
	* 1.5088	* 1.5040	* 1.4760	* 1.4174	* 1.4355	* 1.5269	* 1.4791	* 2.8568
11	* 1.5240	* 1.5262	* 1.4705	* 1.4598	* 1.3527	* 1.2649	* 1.2316	* .7079
	* 1.3701	* 1.4121	* 1.4174	* 1.4718	* 1.4967	* 1.6126	* 1.6588	* 2.9638
12	* 1.5722	* 1.5219	* 1.4940	* 1.3516	* 1.0892	* 1.0742	* .8225	*
	* 1.3692	* 1.3691	* 1.4355	* 1.4975	* 1.4988	* 1.5226	* 2.3588	*
13	* 1.5005	* 1.4908	* 1.3977	* 1.2649	* 1.0742	* .9575	* .6158	*
	* 1.3882	* 1.4396	* 1.5263	* 1.6134	* 1.5226	* 1.6341	* 2.8717	*
14	* 1.4148	* 1.4459	* 1.3912	* 1.2316	* .8225	* .6158	*	*
	* 1.5164	* 1.4332	* 1.4785	* 1.6588	* 2.3588	* 2.8717	*	*
15	* .7979	* .9639	* .7411	* .7079	* F-SUB-Q			
	* 2.6688	* 2.2043	* 2.8561	* 2.9638	* M-SUB-Q			

AT 75% POWER, 350 EFPD, THIS IS LEVEL 21 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .8622	* 1.3505	* 1.5240	* 1.7007	* 1.7050	* 1.6825	* 1.5455	* .8525
	* 2.2297	* 1.6390	* 1.4452	* 1.2493	* 1.2888	* 1.2599	* 1.4126	* 2.5425
9	* 1.3505	* 1.5262	* 1.5219	* 1.6472	* 1.7061	* 1.6140	* 1.5990	* 1.0367
	* 1.6390	* 1.3977	* 1.4466	* 1.3339	* 1.2431	* 1.3563	* 1.3180	* 2.0889
10	* 1.5240	* 1.5219	* 1.5712	* 1.6461	* 1.6161	* 1.4951	* 1.5380	* .8011
	* 1.4452	* 1.4473	* 1.3992	* 1.2873	* 1.3538	* 1.4577	* 1.3636	* 2.6979
11	* 1.7007	* 1.6483	* 1.6461	* 1.5808	* 1.5058	* 1.3591	* 1.3580	* .7561
	* 1.2493	* 1.3332	* 1.2879	* 1.3858	* 1.3562	* 1.5242	* 1.5306	* 2.8311
12	* 1.7050	* 1.7082	* 1.6161	* 1.5037	* 1.2006	* 1.1910	* .8814	*
	* 1.2888	* 1.2413	* 1.3538	* 1.3568	* 1.4096	* 1.4068	* 2.2548	*
13	* 1.6825	* 1.6151	* 1.4951	* 1.3591	* 1.1910	* 1.0635	* .6619	*
	* 1.2599	* 1.3557	* 1.4575	* 1.5242	* 1.4068	* 1.5099	* 2.7405	*
14	* 1.5455	* 1.5990	* 1.5390	* 1.3580	* .8804	* .6619	*	*
	* 1.4126	* 1.3179	* 1.3630	* 1.5306	* 2.2548	* 2.7405	*	*
15	* .8525	* 1.0378	* .8011	* .7561	* F-SUB-Q			
	* 2.5425	* 2.0874	* 2.6979	* 2.8311	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 75% POWER, 350 EFPD, THIS IS LEVEL 20 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .8579	* 1.3409	* 1.5208	* 1.7447	* 1.7222	* 1.7297	* 1.5679	* .8547
	* 2.3190	* 1.6996	* 1.4899	* 1.2475	* 1.3074	* 1.2529	* 1.4289	* 2.6053
9	* 1.3409	* 1.5433	* 1.5155	* 1.6600	* 1.7543	* 1.6290	* 1.6301	* 1.0410
	* 1.6996	* 1.4179	* 1.4936	* 1.3585	* 1.2366	* 1.3765	* 1.3226	* 2.1358
10	* 1.5208	* 1.5155	* 1.5797	* 1.6900	* 1.6333	* 1.4973	* 1.5669	* .8086
	* 1.4899	* 1.4942	* 1.4301	* 1.2860	* 1.3738	* 1.4897	* 1.3655	* 2.7350
11	* 1.7447	* 1.6611	* 1.6890	* 1.5979	* 1.5422	* 1.3645	* 1.3784	* .7561
	* 1.2475	* 1.3576	* 1.2863	* 1.4100	* 1.3480	* 1.5541	* 1.5435	* 2.9005
12	* 1.7222	* 1.7564	* 1.6322	* 1.5401	* 1.2209	* 1.2156	* .8836	*
	* 1.3074	* 1.2350	* 1.3738	* 1.3487	* 1.4304	* 1.4126	* 2.3144	*
13	* 1.7297	* 1.6301	* 1.4983	* 1.3645	* 1.2156	* 1.0871	* .6662	*
	* 1.2529	* 1.3758	* 1.4897	* 1.5541	* 1.4132	* 1.5221	* 2.8111	*
14	* 1.5679	* 1.6301	* 1.5669	* 1.3784	* .8836	* .6662	*	*
	* 1.4289	* 1.3226	* 1.3651	* 1.5435	* 2.3144	* 2.8111	*	*
15	* .8547	* 1.0410	* .8086	* .7561	* F-SUB-Q			
	* 2.6053	* 2.1342	* 2.7364	* 2.9020	* M-SUB-Q			

AT 75% POWER, 350 EFPD, THIS IS LEVEL 19 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .8397	* 1.3088	* 1.4876	* 1.7339	* 1.7007	* 1.7232	* 1.5508	* .8397
	* 2.4307	* 1.7985	* 1.5682	* 1.2870	* 1.3610	* 1.2870	* 1.4811	* 2.7152
9	* 1.3088	* 1.5219	* 1.4823	* 1.6365	* 1.7468	* 1.6065	* 1.6151	* 1.0228
	* 1.7985	* 1.4828	* 1.5736	* 1.4179	* 1.2742	* 1.4363	* 1.3668	* 2.2282
10	* 1.4876	* 1.4823	* 1.5551	* 1.6815	* 1.6129	* 1.4705	* 1.5519	* .7979
	* 1.5682	* 1.5740	* 1.4985	* 1.3276	* 1.4351	* 1.5673	* 1.4193	* 2.8510
11	* 1.7339	* 1.6376	* 1.6804	* 1.5787	* 1.5347	* 1.3452	* 1.3645	* .7433
	* 1.2870	* 1.4172	* 1.3282	* 1.4726	* 1.3902	* 1.6264	* 1.6148	* 3.0564
12	* 1.7007	* 1.7489	* 1.6129	* 1.5326	* 1.2124	* 1.2092	* .8718	*
	* 1.3610	* 1.2727	* 1.4351	* 1.3915	* 1.4947	* 1.4720	* 2.4316	*
13	* 1.7232	* 1.6076	* 1.4705	* 1.3452	* 1.2092	* 1.0839	* .6608	*
	* 1.2870	* 1.4349	* 1.5668	* 1.6269	* 1.4720	* 1.5907	* 2.9658	*
14	* 1.5508	* 1.6161	* 1.5519	* 1.3645	* .8718	* .6608	*	*
	* 1.4811	* 1.3668	* 1.4190	* 1.6148	* 2.4316	* 2.9658	*	*
15	* .8397	* 1.0228	* .7979	* .7433	* F-SUB-Q			
	* 2.7152	* 2.2266	* 2.8525	* 3.0564	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 75% POWER, 350 EFPD, THIS IS LEVEL 18 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .8290	* 1.2916	* 1.4673	* 1.7275	* 1.6868	* 1.7200	* 1.5401	* .8300
	* 2.5405	* 1.8856	* 1.6570	* 1.3425	* 1.4294	* 1.3381	* 1.5489	* 2.8493
9	* 1.2916	* 1.5090	* 1.4619	* 1.6204	* 1.7414	* 1.5904	* 1.6076	* 1.0110
	* 1.8856	* 1.5570	* 1.6634	* 1.4922	* 1.3286	* 1.5090	* 1.4259	* 2.3404
10	* 1.4673	* 1.4619	* 1.5412	* 1.6783	* 1.6022	* 1.4544	* 1.5433	* .7904
	* 1.6570	* 1.6638	* 1.5799	* 1.3879	* 1.5119	* 1.6572	* 1.4878	* 3.0011
11	* 1.7275	* 1.6215	* 1.6772	* 1.5722	* 1.5358	* 1.3398	* 1.3591	* .7368
	* 1.3425	* 1.4914	* 1.3885	* 1.5458	* 1.4383	* 1.6969	* 1.6976	* 3.2330
12	* 1.6868	* 1.7436	* 1.6022	* 1.5337	* 1.2156	* 1.2167	* .8718	*
	* 1.4294	* 1.3268	* 1.5119	* 1.4390	* 1.5574	* 1.5263	* 2.5409	*
13	* 1.7200	* 1.5915	* 1.4544	* 1.3388	* 1.2167	* 1.0956	* .6651	*
	* 1.3381	* 1.5082	* 1.6572	* 1.6969	* 1.5263	* 1.6532	* 3.0973	*
14	* 1.5401	* 1.6076	* 1.5433	* 1.3591	* .8718	* .6651	*	*
	* 1.5489	* 1.4259	* 1.4874	* 1.6976	* 2.5409	* 3.0973	*	*
15	* .8300	* 1.0121	* .7904	* .7368	* F-SUB-Q			
	* 2.8493	* 2.3386	* 3.0011	* 3.2349	* M-SUB-Q			

AT 75% POWER, 350 EFPD, THIS IS LEVEL 17 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .8225	* 1.2723	* 1.4373	* 1.7082	* 1.6568	* 1.7018	* 1.5144	* .8118
	* 2.6898	* 1.9961	* 1.7862	* 1.4361	* 1.5331	* 1.4284	* 1.6539	* 3.0605
9	* 1.2723	* 1.4930	* 1.4319	* 1.5904	* 1.7243	* 1.5594	* 1.5862	* .9907
	* 1.9961	* 1.6726	* 1.7947	* 1.6037	* 1.4207	* 1.6208	* 1.5240	* 2.5133
10	* 1.4373	* 1.4319	* 1.5165	* 1.6675	* 1.5797	* 1.4287	* 1.5262	* .7765
	* 1.7862	* 1.7947	* 1.7013	* 1.4873	* 1.6260	* 1.7886	* 1.5955	* 3.2196
11	* 1.7082	* 1.5915	* 1.6665	* 1.5572	* 1.5358	* 1.3345	* 1.3527	* .7251
	* 1.4361	* 1.6024	* 1.4880	* 1.6267	* 1.5051	* 1.7874	* 1.7819	* 3.4923
12	* 1.6568	* 1.7265	* 1.5797	* 1.5326	* 1.2316	* 1.2391	* .8718	*
	* 1.5331	* 1.4190	* 1.6264	* 1.5074	* 1.6422	* 1.6110	* 2.6818	*
13	* 1.7018	* 1.5604	* 1.4287	* 1.3334	* 1.2391	* 1.1256	* .6726	*
	* 1.4284	* 1.6199	* 1.7886	* 1.7885	* 1.6110	* 1.7508	* 3.2894	*
14	* 1.5144	* 1.5872	* 1.5262	* 1.3516	* .8718	* .6726	*	*
	* 1.6539	* 1.5240	* 1.5955	* 1.7819	* 2.6818	* 3.2860	*	*
15	* .8118	* .9907	* .7765	* .7251	* F-SUB-Q			
	* 3.0605	* 2.5112	* 3.2196	* 3.4941	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 75% POWER, 350 EFPD, THIS IS LEVEL 16 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .8675	* 1.2777	* 1.4244	* 1.6986	* 1.6397	* 1.6900	* 1.5005	* .8022
	* 2.8502	* 2.1159	* 1.9249	* 1.5517	* 1.6478	* 1.5416	* 1.7715	* 3.2865
9	* 1.2777	* 1.4930	* 1.4191	* 1.5754	* 1.7157	* 1.5433	* 1.5744	* .9800
	* 2.1159	* 1.7886	* 1.9359	* 1.7256	* 1.5348	* 1.7428	* 1.6444	* 2.7003
10	* 1.4244	* 1.4180	* 1.5090	* 1.6686	* 1.5733	* 1.4201	* 1.5208	* .7711
	* 1.9249	* 1.9365	* 1.8235	* 1.5832	* 1.7432	* 1.9263	* 1.7261	* 3.4516
11	* 1.6986	* 1.5765	* 1.6675	* 1.5637	* 1.5690	* 1.3548	* 1.3591	* .7229
	* 1.5517	* 1.7247	* 1.5857	* 1.7172	* 1.5941	* 1.8820	* 1.8914	* 3.7462
12	* 1.6397	* 1.7179	* 1.5733	* 1.5658	* 1.3238	* 1.3141	* .8911	*
	* 1.6478	* 1.5328	* 1.7432	* 1.5958	* 1.7267	* 1.7017	* 2.8229	*
13	* 1.6900	* 1.5433	* 1.4201	* 1.3548	* 1.3141	* 1.1952	* .6983	*
	* 1.5416	* 1.7418	* 1.9256	* 1.8820	* 1.7027	* 1.8489	* 3.4510	*
14	* 1.5005	* 1.5754	* 1.5208	* 1.3591	* .8911	* .6983	*	*
	* 1.7715	* 1.6444	* 1.7261	* 1.8914	* 2.8229	* 3.4510	*	*
15	* .8022	* .9800	* .7711	* .7229	* F-SUB-Q			
	* 3.2865	* 2.6990	* 3.4537	* 3.7462	* M-SUB-Q			

AT 75% POWER, 350 EFPD, THIS IS LEVEL 15 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9082	* 1.2756	* 1.3977	* 1.6611	* 1.6044	* 1.6504	* 1.4651	* .7840
	* 3.0723	* 2.2689	* 2.1025	* 1.7174	* 1.8065	* 1.7046	* 1.9403	* 3.5967
9	* 1.2756	* 1.4716	* 1.3923	* 1.5433	* 1.6783	* 1.5090	* 1.5380	* .9575
	* 2.2689	* 1.9416	* 2.1059	* 1.8934	* 1.6995	* 1.9109	* 1.8187	* 2.9579
10	* 1.3977	* 1.3923	* 1.4865	* 1.6461	* 1.5519	* 1.3977	* 1.4919	* .7529
	* 2.1025	* 2.1074	* 1.9598	* 1.7196	* 1.8720	* 2.0710	* 1.8977	* 3.7988
11	* 1.6611	* 1.5444	* 1.6440	* 1.5540	* 1.5819	* 1.3677	* 1.3495	* .7133
	* 1.7174	* 1.8922	* 1.7226	* 1.8495	* 1.7331	* 2.0264	* 2.0574	* 4.0130
12	* 1.6044	* 1.6804	* 1.5508	* 1.5797	* 1.4201	* 1.3944	* .9050	*
	* 1.8065	* 1.6970	* 1.8727	* 1.7351	* 1.8587	* 1.8487	* 3.0363	*
13	* 1.6504	* 1.5101	* 1.3987	* 1.3666	* 1.3944	* 1.2691	* .7197	*
	* 1.7046	* 1.9104	* 2.0710	* 2.0277	* 1.8498	* 2.0074	* 3.7056	*
14	* 1.4651	* 1.5380	* 1.4919	* 1.3495	* .9050	* .7197	*	*
	* 1.9403	* 1.8182	* 1.8977	* 2.0574	* 3.0363	* 3.7056	*	*
15	* .7840	* .9585	* .7518	* .7133	* F-SUB-Q			
	* 3.5967	* 2.9551	* 3.7988	* 4.0163	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 75% POWER, 350 EFPD, THIS IS LEVEL 14 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9510	* 1.2927	* 1.3998	* 1.6740	* 1.6054	* 1.6611	* 1.4694	* .7818
	* 3.2465	* 2.4046	* 2.2353	* 1.8460	* 1.9450	* 1.8371	* 2.0799	* 3.8723
9	* 1.2927	* 1.4930	* 1.3944	* 1.5444	* 1.6922	* 1.5080	* 1.5476	* .9575
	* 2.4046	* 2.0629	* 2.2408	* 2.0244	* 1.8216	* 2.0607	* 1.9587	* 3.1799
10	* 1.3998	* 1.3934	* 1.4940	* 1.6740	* 1.5615	* 1.4041	* 1.5080	* .7572
	* 2.2353	* 2.2418	* 2.0796	* 1.8209	* 1.9839	* 2.1999	* 2.0140	* 4.0653
11	* 1.6740	* 1.5455	* 1.6718	* 1.5754	* 1.6354	* 1.4009	* 1.3784	* .7176
	* 1.8460	* 2.0231	* 1.8238	* 1.9551	* 1.8393	* 2.1498	* 2.1751	* 4.2515
12	* 1.6054	* 1.6943	* 1.5615	* 1.6322	* 1.5112	* 1.4876	* .9296	*
	* 1.9450	* 1.8188	* 1.9844	* 1.8415	* 1.9695	* 1.9648	* 3.2237	*
13	* 1.6611	* 1.5090	* 1.4041	* 1.4009	* 1.4865	* 1.3580	* .7486	*
	* 1.8371	* 2.0593	* 2.1993	* 2.1498	* 1.9648	* 2.1317	* 3.9357	*
14	* 1.4694	* 1.5476	* 1.5080	* 1.3773	* .9296	* .7486	*	*
	* 2.0799	* 1.9587	* 2.0140	* 2.1751	* 3.2237	* 3.9357	*	*
15	* .7818	* .9575	* .7561	* .7176	F-SUB-Q			
	* 3.8723	* 3.1799	* 4.0707	* 4.2551	M-SUB-Q			

AT 75% POWER, 350 EFPD, THIS IS LEVEL 13 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9553	* 1.2916	* 1.3912	* 1.6665	* 1.5947	* 1.6526	* 1.4598	* .7743
	* 3.4352	* 2.5483	* 2.3738	* 1.9752	* 2.0739	* 1.9955	* 2.2520	* 4.2001
9	* 1.2916	* 1.4919	* 1.3859	* 1.5337	* 1.6858	* 1.4962	* 1.5401	* .9489
	* 2.5483	* 2.2004	* 2.3792	* 2.1526	* 1.9529	* 2.2106	* 2.1325	* 3.4479
10	* 1.3912	* 1.3848	* 1.4898	* 1.6793	* 1.5572	* 1.3977	* 1.5048	* .7518
	* 2.3738	* 2.3811	* 2.2106	* 1.9492	* 2.1133	* 2.3559	* 2.1712	* 4.3686
11	* 1.6665	* 1.5347	* 1.6761	* 1.5776	* 1.6515	* 1.4137	* 1.3848	* .7154
	* 1.9752	* 2.1512	* 1.9516	* 2.0795	* 1.9702	* 2.2935	* 2.3414	* 4.5628
12	* 1.5947	* 1.6879	* 1.5572	* 1.6483	* 1.5401	* 1.5197	* .9403	*
	* 2.0739	* 1.9504	* 2.1133	* 1.9740	* 2.1033	* 2.1122	* 3.4428	*
13	* 1.6526	* 1.4973	* 1.3977	* 1.4137	* 1.5197	* 1.3934	* .7626	*
	* 1.9955	* 2.2091	* 2.3559	* 2.2935	* 2.1122	* 2.2964	* 4.2059	*
14	* 1.4598	* 1.5401	* 1.5048	* 1.3848	* .9403	* .7626	*	*
	* 2.2520	* 2.1325	* 2.1712	* 2.3414	* 3.4428	* 4.2059	*	*
15	* .7743	* .9500	* .7518	* .7154	F-SUB-Q			
	* 4.2001	* 3.4479	* 4.3696	* 4.5628	M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 75% POWER, 350 EFPD, THIS IS LEVEL 12 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9468	* 1.2788	* 1.3730	* 1.6440	* 1.5744	* 1.6290	* 1.4394	* .7626
	* 3.4805	* 2.5859	* 2.4125	* 2.0174	* 2.1070	* 2.0384	* 2.3075	* 4.3397
9	* 1.2788	* 1.4737	* 1.3687	* 1.5144	* 1.6622	* 1.4758	* 1.5176	* .9361
	* 2.5859	* 2.2478	* 2.4199	* 2.1881	* 1.9955	* 2.2478	* 2.1881	* 3.5476
10	* 1.3730	* 1.3677	* 1.4737	* 1.6622	* 1.5412	* 1.3816	* 1.4855	* .7411
	* 2.4125	* 2.4218	* 2.2478	* 1.9930	* 2.1490	* 2.3995	* 2.2334	* 4.4763
11	* 1.6440	* 1.5155	* 1.6600	* 1.5647	* 1.6397	* 1.4094	* 1.3730	* .7090
	* 2.0174	* 2.1866	* 1.9968	* 2.1156	* 2.0187	* 2.3455	* 2.4143	* 4.6771
12	* 1.5744	* 1.6654	* 1.5412	* 1.6376	* 1.5380	* 1.5187	* .9382	*
	* 2.1070	* 1.9930	* 2.1505	* 2.0226	* 2.1461	* 2.1729	* 3.5276	*
13	* 1.6290	* 1.4769	* 1.3816	* 1.4094	* 1.5187	* 1.3955	* .7636	*
	* 2.0384	* 2.2462	* 2.3995	* 2.3455	* 2.1744	* 2.3633	* 4.3218	*
14	* 1.4394	* 1.5176	* 1.4865	* 1.3730	* .9371	* .7636	*	*
	* 2.3075	* 2.1881	* 2.2334	* 2.4143	* 3.5276	* 4.3218	*	*
15	* .7626	* .9361	* .7411	* .7090	* F-SUB-Q			
	* 4.3397	* 3.5476	* 4.4763	* 4.6771	* M-SUB-Q			

AT 75% POWER, 350 EFPD, THIS IS LEVEL 11 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9510	* 1.2873	* 1.3816	* 1.6622	* 1.5851	* 1.6461	* 1.4523	* .7668
	* 3.2867	* 2.4464	* 2.2889	* 1.9173	* 2.0083	* 1.9374	* 2.1850	* 4.0795
9	* 1.2873	* 1.4898	* 1.3762	* 1.5251	* 1.6815	* 1.4855	* 1.5337	* .9425
	* 2.4464	* 2.1242	* 2.2990	* 2.0860	* 1.8986	* 2.1417	* 2.0749	* 3.3465
10	* 1.3816	* 1.3752	* 1.4844	* 1.6847	* 1.5540	* 1.3902	* 1.5026	* .7476
	* 2.2889	* 2.3007	* 2.1446	* 1.9021	* 2.0545	* 2.2906	* 2.1213	* 4.2226
11	* 1.6622	* 1.5262	* 1.6815	* 1.5797	* 1.6665	* 1.4276	* 1.3912	* .7144
	* 1.9173	* 2.0846	* 1.9056	* 2.0252	* 1.9231	* 2.2366	* 2.2923	* 4.4194
12	* 1.5851	* 1.6836	* 1.5540	* 1.6633	* 1.5594	* 1.5455	* .9489	*
	* 2.0083	* 1.8963	* 2.0558	* 1.9267	* 2.0518	* 2.0680	* 3.3429	*
13	* 1.6461	* 1.4865	* 1.3902	* 1.4266	* 1.5455	* 1.4201	* .7743	*
	* 1.9374	* 2.1402	* 2.2906	* 2.2366	* 2.0680	* 2.2462	* 4.0795	*
14	* 1.4523	* 1.5337	* 1.5026	* 1.3912	* .9489	* .7754	*	*
	* 2.1850	* 2.0749	* 2.1213	* 2.2923	* 3.3429	* 4.0795	*	*
15	* .7668	* .9425	* .7465	* .7144	* F-SUB-Q			
	* 4.0795	* 3.3429	* 4.2226	* 4.4194	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 75% POWER, 350 EFPD, THIS IS LEVEL 10 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9446	* 1.2831	* 1.3752	* 1.6654	* 1.5819	* 1.6483	* 1.4512	* .7636
	* 3.0858	* 2.2889	* 2.1314	* 1.7688	* 1.8569	* 1.7819	* 2.0122	* 3.7744
9	* 1.2831	* 1.4908	* 1.3709	* 1.5208	* 1.6847	* 1.4812	* 1.5347	* .9393
	* 2.2889	* 1.9791	* 2.1461	* 1.9350	* 1.7539	* 1.9829	* 1.9102	* 3.0888
10	* 1.3752	* 1.3698	* 1.4812	* 1.6890	* 1.5519	* 1.3848	* 1.5048	* .7443
	* 2.1314	* 2.1475	* 2.0032	* 1.7688	* 1.9184	* 2.1431	* 1.9741	* 3.9161
11	* 1.6654	* 1.5219	* 1.6858	* 1.5776	* 1.6718	* 1.4276	* 1.3944	* .7122
	* 1.7688	* 1.9338	* 1.7718	* 1.8895	* 1.7900	* 2.0929	* 2.1358	* 4.1388
12	* 1.5819	* 1.6868	* 1.5508	* 1.6686	* 1.5615	* 1.5519	* .9478	*
	* 1.8569	* 1.7519	* 1.9196	* 1.7941	* 1.9196	* 1.9315	* 3.1352	*
13	* 1.6483	* 1.4812	* 1.3848	* 1.4276	* 1.5519	* 1.4276	* .7754	*
	* 1.7819	* 1.9816	* 2.1431	* 2.0943	* 1.9326	* 2.1000	* 3.8345	*
14	* 1.4512	* 1.5358	* 1.5048	* 1.3944	* .9478	* .7754	*	*
	* 2.0122	* 1.9102	* 1.9741	* 2.1358	* 3.1352	* 3.8298	*	*
15	* .7636	* .9403	* .7443	* .7122	* F-SUB-Q			
	* 3.7744	* 3.0858	* 3.9161	* 4.1388	* M-SUB-Q			

AT 75% POWER, 350 EFPD, THIS IS LEVEL 9 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9393	* 1.2756	* 1.3677	* 1.6590	* 1.5744	* 1.6429	* 1.4459	* .7593
	* 2.8812	* 2.1213	* 1.9704	* 1.6356	* 1.7211	* 1.6512	* 1.8669	* 3.5117
9	* 1.2756	* 1.4844	* 1.3623	* 1.5133	* 1.6783	* 1.4726	* 1.5294	* .9339
	* 2.1213	* 1.8277	* 1.9829	* 1.7910	* 1.6221	* 1.8384	* 1.7708	* 2.8706
10	* 1.3677	* 1.3612	* 1.4737	* 1.6847	* 1.5444	* 1.3773	* 1.4994	* .7411
	* 1.9704	* 1.9841	* 1.8536	* 1.6416	* 1.7748	* 1.9841	* 1.8213	* 3.6299
11	* 1.6590	* 1.5144	* 1.6815	* 1.5712	* 1.6675	* 1.4223	* 1.3902	* .7079
	* 1.6356	* 1.7900	* 1.6442	* 1.7618	* 1.6750	* 1.9630	* 1.9955	* 3.8345
12	* 1.5744	* 1.6815	* 1.5444	* 1.6643	* 1.5562	* 1.5487	* .9436	*
	* 1.7211	* 1.6195	* 1.7748	* 1.6786	* 1.7993	* 1.8107	* 2.9435	*
13	* 1.6429	* 1.4737	* 1.3773	* 1.4223	* 1.5487	* 1.4255	* .7722	*
	* 1.6512	* 1.8373	* 1.9829	* 1.9642	* 1.8107	* 1.9679	* 3.6006	*
14	* 1.4459	* 1.5305	* 1.4994	* 1.3902	* .9436	* .7722	*	*
	* 1.8669	* 1.7698	* 1.8213	* 1.9955	* 2.9435	* 3.6006	*	*
15	* .7593	* .9350	* .7401	* .7079	* F-SUB-Q			
	* 3.5117	* 2.8706	* 3.6299	* 3.8345	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 75% POWER, 350 EFPD, THIS IS LEVEL 8 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9296	* 1.2659	* 1.3570	* 1.6429	* 1.5626	* 1.6268	* 1.4330	* .7518
	* 2.6675	* 1.9691	* 1.8406	* 1.5331	* 1.6104	* 1.5498	* 1.7510	* 3.3006
9	* 1.2659	* 1.4683	* 1.3516	* 1.5015	* 1.6622	* 1.4619	* 1.5144	* .9264
	* 1.9691	* 1.7061	* 1.8515	* 1.6741	* 1.5189	* 1.7202	* 1.6617	* 2.6927
10	* 1.3570	* 1.3516	* 1.4630	* 1.6675	* 1.5326	* 1.3666	* 1.4844	* .7326
	* 1.8406	* 1.8526	* 1.7249	* 1.5278	* 1.6520	* 1.8471	* 1.7033	* 3.4085
11	* 1.6429	* 1.5026	* 1.6643	* 1.5594	* 1.6504	* 1.4116	* 1.3762	* .7026
	* 1.5331	* 1.6732	* 1.5301	* 1.6322	* 1.5559	* 1.8255	* 1.8526	* 3.5719
12	* 1.5626	* 1.6643	* 1.5326	* 1.6472	* 1.5444	* 1.5347		* .9371
	* 1.6104	* 1.5174	* 1.6520	* 1.5590	* 1.6768	* 1.6932		* 2.7351
13	* 1.6268	* 1.4630	* 1.3666	* 1.4116	* 1.5347	* 1.4116		* .7668
	* 1.5498	* 1.7192	* 1.8471	* 1.8266	* 1.6941	* 1.8460		* 3.3609
14	* 1.4330	* 1.5144	* 1.4844	* 1.3762	* .9371	* .7668		
	* 1.7510	* 1.6617	* 1.7033	* 1.8526	* 2.7351	* 3.3609		
15	* .7518	* .9275	* .7315	* .7026	* F-SUB-Q			
	* 3.3006	* 2.6904	* 3.4122	* 3.5719	* M-SUB-Q			

AT 75% POWER, 350 EFPD, THIS IS LEVEL 7 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9350	* 1.2734	* 1.3655	* 1.6654	* 1.5765	* 1.6504	* 1.4512	* .7572
	* 2.4676	* 1.8266	* 1.7107	* 1.4145	* 1.4942	* 1.4307	* 1.6221	* 3.0767
9	* 1.2734	* 1.4876	* 1.3591	* 1.5133	* 1.6858	* 1.4726	* 1.5358	* .9339
	* 1.8266	* 1.5731	* 1.7202	* 1.5544	* 1.4012	* 1.5980	* 1.5346	* 2.5052
10	* 1.3655	* 1.3591	* 1.4726	* 1.6911	* 1.5455	* 1.3752	* 1.5058	* .7401
	* 1.7107	* 1.7211	* 1.5989	* 1.4031	* 1.5286	* 1.7136	* 1.5692	* 3.1606
11	* 1.6654	* 1.5144	* 1.6879	* 1.5733	* 1.6750	* 1.4244	* 1.3955	* .7069
	* 1.4145	* 1.5536	* 1.4056	* 1.5072	* 1.4229	* 1.6741	* 1.7005	* 3.3181
12	* 1.5765	* 1.6879	* 1.5455	* 1.6718	* 1.5604	* 1.5572		* .9436
	* 1.4942	* 1.3994	* 1.5293	* 1.4255	* 1.5338	* 1.5406		* 2.5173
13	* 1.6504	* 1.4737	* 1.3752	* 1.4244	* 1.5572	* 1.4330		* .7722
	* 1.4307	* 1.5972	* 1.7136	* 1.6750	* 1.5406	* 1.6768		* 3.0827
14	* 1.4512	* 1.5358	* 1.5058	* 1.3955	* .9436	* .7722		
	* 1.6221	* 1.5346	* 1.5692	* 1.7005	* 2.5173	* 3.0827		
15	* .7572	* .9339	* .7390	* .7069	* F-SUB-Q			
	* 3.0767	* 2.5032	* 3.1606	* 3.3181	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 75% POWER, 350 EFPD, THIS IS LEVEL 6 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9296	* 1.2691	* 1.3602	* 1.6600	* 1.5712	* 1.6451	* 1.4480	* .7540
	* 2.3420	* 1.7306	* 1.6221	* 1.3406	* 1.4158	* 1.3557	* 1.5368	* 2.9270
9	* 1.2691	* 1.4823	* 1.3548	* 1.5080	* 1.6804	* 1.4683	* 1.5326	* .9307
	* 1.7306	* 1.4907	* 1.6305	* 1.4731	* 1.3270	* 1.5152	* 1.4540	* 2.3794
10	* 1.3602	* 1.3537	* 1.4673	* 1.6868	* 1.5412	* 1.3709	* 1.5026	* .7368
	* 1.6221	* 1.6314	* 1.5138	* 1.3253	* 1.4459	* 1.6221	* 1.4843	* 3.0000
11	* 1.6600	* 1.5090	* 1.6836	* 1.5679	* 1.6708	* 1.4223	* 1.3923	* .7036
	* 1.3406	* 1.4725	* 1.3281	* 1.4235	* 1.3423	* 1.5763	* 1.6046	* 3.1447
12	* 1.5712	* 1.6825	* 1.5412	* 1.6675	* 1.5572	* 1.5551	* .9403	
	* 1.4158	* 1.3253	* 1.4466	* 1.3452	* 1.4419	* 1.4473	* 2.3740	
13	* 1.6451	* 1.4683	* 1.3709	* 1.4212	* 1.5540	* 1.4309	* .7700	
	* 1.3557	* 1.5145	* 1.6221	* 1.5763	* 1.4473	* 1.5739	* 2.9026	
14	* 1.4480	* 1.5326	* 1.5026	* 1.3923	* .9403	* .7700		
	* 1.5368	* 1.4540	* 1.4843	* 1.6046	* 2.3740	* 2.9026		
15	* .7540	* .9307	* .7368	* .7036	* F-SUB-Q			
	* 2.9270	* 2.3776	* 3.0028	* 3.1447	* M-SUB-Q			

AT 75% POWER, 350 EFPD, THIS IS LEVEL 5 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9093	* 1.2434	* 1.3334	* 1.6129	* 1.5369	* 1.5979	* 1.4126	* .7368
	* 2.2889	* 1.6859	* 1.5795	* 1.3152	* 1.3802	* 1.3309	* 1.5021	* 2.8627
9	* 1.2434	* 1.4416	* 1.3280	* 1.4758	* 1.6322	* 1.4362	* 1.4908	* .9093
	* 1.6859	* 1.4628	* 1.5867	* 1.4360	* 1.3021	* 1.4766	* 1.4261	* 2.3246
10	* 1.3334	* 1.3270	* 1.4362	* 1.6397	* 1.5090	* 1.3441	* 1.4651	* .7176
	* 1.5795	* 1.5875	* 1.4738	* 1.2983	* 1.4075	* 1.5771	* 1.4513	* 2.9463
11	* 1.6129	* 1.4769	* 1.6365	* 1.5347	* 1.6236	* 1.3934	* 1.3591	* .6897
	* 1.3152	* 1.4346	* 1.3010	* 1.3851	* 1.3136	* 1.5293	* 1.5676	* 3.0646
12	* 1.5369	* 1.6354	* 1.5090	* 1.6215	* 1.5262	* 1.5155	* .9232	
	* 1.3802	* 1.3005	* 1.4075	* 1.3158	* 1.3994	* 1.4113	* 2.3024	
13	* 1.5979	* 1.4373	* 1.3441	* 1.3934	* 1.5155	* 1.3955	* .7551	
	* 1.3309	* 1.4759	* 1.5771	* 1.5301	* 1.4113	* 1.5331	* 2.8163	
14	* 1.4126	* 1.4908	* 1.4651	* 1.3580	* .9232	* .7551		
	* 1.5021	* 1.4255	* 1.4513	* 1.5676	* 2.3024	* 2.8163		
15	* .7368	* .9104	* .7165	* .6897	* F-SUB-Q			
	* 2.8627	* 2.3229	* 2.9491	* 3.0676	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 75% POWER, 350 EFPD, THIS IS LEVEL 4 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .8932	* 1.2220	* 1.3098	* 1.5765	* 1.5080	* 1.5594	* 1.3891	* .7240
	* 2.2462	* 1.6529	* 1.5490	* 1.2956	* 1.3545	* 1.3130	* 1.4731	* 2.8138
9	* 1.2220	* 1.4126	* 1.3055	* 1.4469	* 1.5947	* 1.4084	* 1.4608	* .8921
	* 1.6529	* 1.4379	* 1.5551	* 1.4101	* 1.2824	* 1.4506	* 1.4019	* 2.2872
10	* 1.3098	* 1.3045	* 1.4084	* 1.6033	* 1.4812	* 1.3216	* 1.4394	* .7036
	* 1.5490	* 1.5559	* 1.4473	* 1.2771	* 1.3796	* 1.5452	* 1.4229	* 2.8972
11	* 1.5765	* 1.4480	* 1.6001	* 1.5069	* 1.5894	* 1.3720	* 1.3355	* .6769
	* 1.2956	* 1.4094	* 1.2792	* 1.3575	* 1.2903	* 1.4942	* 1.5353	* 3.0115
12	* 1.5080	* 1.5979	* 1.4812	* 1.5872	* 1.5015	* 1.4887	* .9082	*
	* 1.3545	* 1.2808	* 1.3796	* 1.2924	* 1.3670	* 1.3808	* 2.2527	*
13	* 1.5594	* 1.4094	* 1.3216	* 1.3720	* 1.4887	* 1.3720	* .7422	*
	* 1.3130	* 1.4499	* 1.5452	* 1.4950	* 1.3814	* 1.4993	* 2.7592	*
14	* 1.3891	* 1.4608	* 1.4394	* 1.3355	* .9082	* .7422	*	*
	* 1.4731	* 1.4019	* 1.4229	* 1.5353	* 2.2527	* 2.7592	*	*
15	* .7240	* .8932	* .7036	* .6769	* F-SUB-Q			
	* 2.8138	* 2.2856	* 2.8999	* 3.0144	* M-SUB-Q			

AT 75% POWER, 350 EFPD, THIS IS LEVEL 3 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .8365	* 1.1385	* 1.2188	* 1.4448	* 1.3966	* 1.4287	* 1.2895	* .6758
	* 2.3385	* 1.7268	* 1.6195	* 1.3742	* 1.4203	* 1.3919	* 1.5421	* 2.9380
9	* 1.1385	* 1.3002	* 1.2156	* 1.3409	* 1.4619	* 1.3045	* 1.3462	* .8257
	* 1.7268	* 1.5182	* 1.6237	* 1.4773	* 1.3586	* 1.5219	* 1.4787	* 2.4069
10	* 1.2188	* 1.2156	* 1.3045	* 1.4705	* 1.3784	* 1.2284	* 1.3238	* .6544
	* 1.6195	* 1.6246	* 1.5182	* 1.3510	* 1.4399	* 1.6145	* 1.5043	* 3.0378
11	* 1.4448	* 1.3420	* 1.4673	* 1.3966	* 1.4608	* 1.2766	* 1.2306	* .6308
	* 1.3742	* 1.4766	* 1.3539	* 1.4210	* 1.3628	* 1.5598	* 1.6195	* 3.1478
12	* 1.3966	* 1.4641	* 1.3773	* 1.4587	* 1.3966	* 1.3698	* .8493	*
	* 1.4203	* 1.3569	* 1.4406	* 1.3652	* 1.4255	* 1.4567	* 2.3438	*
13	* 1.4287	* 1.3055	* 1.2284	* 1.2756	* 1.3698	* 1.2659	* .6919	*
	* 1.3919	* 1.5211	* 1.6145	* 1.5606	* 1.4567	* 1.5787	* 2.8785	*
14	* 1.2895	* 1.3462	* 1.3238	* 1.2306	* .8493	* .6919	*	*
	* 1.5421	* 1.4787	* 1.5043	* 1.6195	* 2.3438	* 2.8785	*	*
15	* .6758	* .8268	* .6533	* .6308	* F-SUB-Q			
	* 2.9380	* 2.4050	* 3.0378	* 3.1478	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 75% POWER, 350 EFPD, THIS IS LEVEL 2 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .7090	* .9436	* 1.0078	* 1.2209	* 1.1567	* 1.2081	* 1.0774	* .5698
	* 2.7091	* 2.0411	* 1.9161	* 1.5875	* 1.6768	* 1.6079	* 1.8055	* 3.4196
9	* .9436	* 1.0924	* 1.0067	* 1.1085	* 1.2295	* 1.0764	* 1.1224	* .6812
	* 2.0411	* 1.7668	* 1.9196	* 1.7470	* 1.5771	* 1.8034	* 1.7354	* 2.8601
10	* 1.0078	* 1.0057	* 1.0764	* 1.2381	* 1.1524	* 1.0153	* 1.0839	* .5494
	* 1.9161	* 1.9208	* 1.7983	* 1.5676	* 1.6831	* 1.9126	* 1.7972	* 3.5476
11	* 1.2209	* 1.1096	* 1.2359	* 1.1578	* 1.2306	* 1.0581	* 1.0078	* .5301
	* 1.5875	* 1.7461	* 1.5708	* 1.6759	* 1.5787	* 1.8406	* 1.9362	* 3.6768
12	* 1.1567	* 1.2316	* 1.1513	* 1.2284	* 1.1663	* 1.1417	* .7186	
	* 1.6768	* 1.5755	* 1.6840	* 1.5819	* 1.6688	* 1.7089	* 2.7138	
13	* 1.2081	* 1.0774	* 1.0153	* 1.0571	* 1.1417	* 1.0324	* .5816	
	* 1.6079	* 1.8024	* 1.9126	* 1.8416	* 1.7089	* 1.8940	* 3.3609	
14	* 1.0774	* 1.1224	* 1.0839	* 1.0078	* .7186	* .5816		
	* 1.8055	* 1.7354	* 1.7972	* 1.9362	* 2.7138	* 3.3609		
15	* .5698	* .6822	* .5484	* .5301	F-SUB-Q			
	* 3.4196	* 2.8575	* 3.5516	* 3.6768	M-SUB-Q			

AT 75% POWER, 350 EFPD, THIS IS LEVEL 1 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .4980	* .4295	* .4712	* .5526	* .5237	* .5462	* .4894	* .3995
	* 3.7881	* 4.4008	* 4.0218	* 3.4271	* 3.6257	* 3.4728	* 3.8869	* 4.7917
9	* .4295	* .4927	* .4584	* .5087	* .5569	* .5034	* .4852	* .3288
	* 4.4008	* 3.8298	* 4.1388	* 3.7249	* 3.4010	* 3.7698	* 3.9210	* 5.8159
10	* .4712	* .4573	* .5087	* .5612	* .5237	* .4648	* .4680	* .3963
	* 4.0218	* 4.1388	* 3.7294	* 3.3754	* 3.6215	* 4.0901	* 4.0742	* 4.8212
11	* .5526	* .5098	* .5601	* .5259	* .5580	* .4819	* .4316	* .2742
	* 3.4271	* 3.7205	* 3.3827	* 3.6089	* 3.4010	* 3.9507	* 4.4257	* 6.9843
12	* .5237	* .5580	* .5237	* .5569	* .5323	* .4948	* .3727	
	* 3.6257	* 3.3973	* 3.6257	* 3.4085	* 3.5719	* 3.8534	* 5.1379	
13	* .5462	* .5044	* .4648	* .4819	* .4948	* .4466	* .2892	
	* 3.4728	* 3.7698	* 4.0955	* 3.9507	* 3.8534	* 4.2804	* 6.6291	
14	* .4894	* .4852	* .4680	* .4316	* .3727	* .2892		
	* 3.8869	* 3.9210	* 4.0742	* 4.4257	* 5.1379	* 6.6291		
15	* .3995	* .3288	* .3963	* .2742	F-SUB-Q			
	* 4.7917	* 5.8159	* 4.8212	* 6.9843	M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 75% POWER, 475 EFPD, THIS IS LEVEL 24 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .6447 *	* .6555 *	* .7422 *	* .8161 *	* .8150 *	* .8129 *	* .7540 *	* .6737 *
	* 3.0032 *	* 3.3067 *	* 2.9272 *	* 2.5921 *	* 2.6701 *	* 2.6017 *	* 2.8782 *	* 3.2073 *
9	* .6555 *	* .7229 *	* .7336 *	* .7893 *	* .8193 *	* .7818 *	* .7326 *	* .5473 *
	* 3.3067 *	* 2.9137 *	* 2.9600 *	* 2.7568 *	* 2.5796 *	* 2.7830 *	* 2.8742 *	* 3.9412 *
10	* .7422 *	* .7336 *	* .7518 *	* .7893 *	* .7786 *	* .7197 *	* .6929 *	* .6362 *
	* 2.9272 *	* 2.9631 *	* 2.8784 *	* 2.6671 *	* 2.7824 *	* 3.0101 *	* 3.0236 *	* 3.3811 *
11	* .8161 *	* .7893 *	* .7893 *	* .7540 *	* .7090 *	* .6522 *	* .6094 *	* .4391 *
	* 2.5921 *	* 2.7550 *	* 2.6671 *	* 2.8617 *	* 2.9373 *	* 3.2759 *	* 3.3863 *	* 4.8451 *
12	* .8150 *	* .8193 *	* .7786 *	* .7090 *	* .5762 *	* .5248 *	* .4948 *	
	* 2.6701 *	* 2.5772 *	* 2.7824 *	* 2.9373 *	* 2.9939 *	* 3.2223 *	* 4.1785 *	
13	* .8129 *	* .7818 *	* .7197 *	* .6522 *	* .5248 *	* .4637 *	* .3609 *	
	* 2.6017 *	* 2.7821 *	* 3.0110 *	* 3.2759 *	* 3.2223 *	* 3.5284 *	* 5.2231 *	
14	* .7540 *	* .7336 *	* .6929 *	* .6094 *	* .4948 *	* .3609 *		
	* 2.8782 *	* 2.8713 *	* 3.0236 *	* 3.3863 *	* 4.1785 *	* 5.2231 *		
15	* .6737 *	* .5484 *	* .6362 *	* .4391 *	F-SUB-Q			
	* 3.2073 *	* 3.9375 *	* 3.3811 *	* 4.8451 *	M-SUB-Q			

AT 75% POWER, 475 EFPD, THIS IS LEVEL 23 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .7615 *	* 1.2156 *	* 1.3645 *	* 1.4608 *	* 1.5144 *	* 1.4566 *	* 1.3923 *	* .8311 *
	* 2.4283 *	* 1.8201 *	* 1.6274 *	* 1.4771 *	* 1.4684 *	* 1.4807 *	* 1.5932 *	* 2.6563 *
9	* 1.2156 *	* 1.3184 *	* 1.3698 *	* 1.4651 *	* 1.4662 *	* 1.4469 *	* 1.3966 *	* .9875 *
	* 1.8201 *	* 1.6305 *	* 1.6187 *	* 1.5162 *	* 1.4695 *	* 1.5338 *	* 1.5383 *	* 2.2329 *
10	* 1.3645 *	* 1.3698 *	* 1.3955 *	* 1.4116 *	* 1.4362 *	* 1.3484 *	* 1.3420 *	* .7679 *
	* 1.6274 *	* 1.6187 *	* 1.5847 *	* 1.5198 *	* 1.5388 *	* 1.6349 *	* 1.5913 *	* 2.8646 *
11	* 1.4608 *	* 1.4662 *	* 1.4116 *	* 1.3998 *	* 1.2884 *	* 1.2188 *	* 1.1856 *	* .7411 *
	* 1.4771 *	* 1.5154 *	* 1.5198 *	* 1.5733 *	* 1.6547 *	* 1.7811 *	* 1.7756 *	* 2.9278 *
12	* 1.5144 *	* 1.4683 *	* 1.4362 *	* 1.2873 *	* 1.0185 *	* 1.0207 *	* .8257 *	
	* 1.4684 *	* 1.4680 *	* 1.5388 *	* 1.6557 *	* 1.6480 *	* 1.7178 *	* 2.5335 *	
13	* 1.4566 *	* 1.4480 *	* 1.3484 *	* 1.2188 *	* 1.0207 *	* .9093 *	* .6276 *	
	* 1.4807 *	* 1.5328 *	* 1.6349 *	* 1.7811 *	* 1.7178 *	* 1.8512 *	* 3.0518 *	
14	* 1.3923 *	* 1.3966 *	* 1.3420 *	* 1.1856 *	* .8257 *	* .6276 *		
	* 1.5932 *	* 1.5383 *	* 1.5913 *	* 1.7756 *	* 2.5335 *	* 3.0518 *		
15	* .8311 *	* .9885 *	* .7679 *	* .7411 *	F-SUB-Q			
	* 2.6563 *	* 2.2312 *	* 2.8646 *	* 2.9278 *	M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 75% POWER, 475 EFPD, THIS IS LEVEL 22 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .8397	* 1.3302	* 1.5037	* 1.6815	* 1.6858	* 1.6815	* 1.5637	* .9232
	* 2.2798	* 1.6913	* 1.4996	* 1.2998	* 1.3377	* 1.2981	* 1.4397	* 2.4292
9	* 1.3302	* 1.4962	* 1.5037	* 1.6268	* 1.6890	* 1.6151	* 1.6033	* 1.1042
	* 1.6913	* 1.4554	* 1.4979	* 1.3860	* 1.2910	* 1.3937	* 1.3589	* 2.0300
10	* 1.5037	* 1.5026	* 1.5465	* 1.6247	* 1.5947	* 1.4930	* 1.5380	* .8589
	* 1.4996	* 1.4984	* 1.4519	* 1.3384	* 1.4049	* 1.4951	* 1.4023	* 2.5916
11	* 1.6815	* 1.6279	* 1.6247	* 1.5530	* 1.4705	* 1.3505	* 1.3591	* .8161
	* 1.2998	* 1.3851	* 1.3390	* 1.4395	* 1.4591	* 1.6297	* 1.5695	* 2.7003
12	* 1.6858	* 1.6911	* 1.5947	* 1.4694	* 1.1417	* 1.1642	* .9114	*
	* 1.3377	* 1.2896	* 1.4049	* 1.4598	* 1.5179	* 1.5181	* 2.3156	*
13	* 1.6815	* 1.6151	* 1.4930	* 1.3505	* 1.1642	* 1.0378	* .6961	*
	* 1.2981	* 1.3930	* 1.4948	* 1.6297	* 1.5181	* 1.6405	* 2.7792	*
14	* 1.5637	* 1.6033	* 1.5380	* 1.3591	* .9114	* .6961	*	*
	* 1.4397	* 1.3587	* 1.4023	* 1.5695	* 2.3156	* 2.7792	*	*
15	* .9232	* 1.1053	* .8589	* .8161	* F-SUB-Q			
	* 2.4292	* 2.0286	* 2.5916	* 2.7003	* M-SUB-Q			

AT 75% POWER, 475 EFPD, THIS IS LEVEL 21 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .8611	* 1.3516	* 1.5358	* 1.7854	* 1.7436	* 1.7961	* 1.6343	* .9521
	* 2.2825	* 1.6940	* 1.4911	* 1.2369	* 1.3102	* 1.2279	* 1.3942	* 2.3856
9	* 1.3516	* 1.5647	* 1.5305	* 1.6772	* 1.7971	* 1.6708	* 1.6997	* 1.1428
	* 1.6940	* 1.4136	* 1.4956	* 1.3620	* 1.2268	* 1.3648	* 1.2940	* 1.9856
10	* 1.5358	* 1.5305	* 1.5894	* 1.7232	* 1.6461	* 1.5305	* 1.6215	* .8943
	* 1.4911	* 1.4963	* 1.4358	* 1.2763	* 1.3795	* 1.4812	* 1.3461	* 2.5271
11	* 1.7854	* 1.6783	* 1.7232	* 1.6022	* 1.5530	* 1.3880	* 1.4309	* .8375
	* 1.2369	* 1.3610	* 1.2763	* 1.4154	* 1.3764	* 1.5922	* 1.5039	* 2.6625
12	* 1.7436	* 1.7993	* 1.6461	* 1.5519	* 1.1877	* 1.2242	* .9371	*
	* 1.3102	* 1.2256	* 1.3795	* 1.3777	* 1.4888	* 1.4570	* 2.2639	*
13	* 1.7961	* 1.6708	* 1.5305	* 1.3869	* 1.2242	* 1.0956	* .7186	*
	* 1.2279	* 1.3641	* 1.4807	* 1.5931	* 1.4570	* 1.5748	* 2.7292	*
14	* 1.6343	* 1.6997	* 1.6215	* 1.4309	* .9371	* .7186	*	*
	* 1.3942	* 1.2934	* 1.3461	* 1.5039	* 2.2639	* 2.7292	*	*
15	* .9521	* 1.1438	* .8943	* .8375	* F-SUB-Q			
	* 2.3856	* 1.9842	* 2.5271	* 2.6625	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 75% POWER, 475 EFPD, THIS IS LEVEL 20 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	.8397	1.3034	1.4844	1.7629	1.6997	1.7789	1.6033	.9275
	2.3582	1.7952	1.5747	1.2739	1.3685	1.2601	1.4475	2.4973
9	1.3034	1.5305	1.4769	1.6311	1.7768	1.6279	1.6804	1.1138
	1.7952	1.4716	1.5814	1.4282	1.2613	1.4254	1.3301	2.0769
10	1.4844	1.4758	1.5422	1.6997	1.6033	1.4833	1.5969	.8739
	1.5747	1.5817	1.5084	1.3164	1.4418	1.5522	1.3842	2.6270
11	1.7629	1.6322	1.6997	1.5583	1.5337	1.3462	1.4073	.8129
	1.2739	1.4275	1.3166	1.4850	1.3878	1.6277	1.5531	2.7862
12	1.6997	1.7789	1.6033	1.5326	1.1706	1.2059		.9104
	1.3685	1.2598	1.4420	1.3891	1.5183	1.4636		2.3259
13	1.7789	1.6290	1.4833	1.3462	1.2059	1.0828		.6994
	1.2601	1.4250	1.5519	1.6277	1.4636	1.5861		2.7894
14	1.6033	1.6804	1.5969	1.4073	.9104	.6994		
	1.4475	1.3299	1.3842	1.5531	2.3259	2.7894		
15	.9275	1.1138	.8739	.8129	F-SUB-Q			
	2.4973	2.0754	2.6278	2.7862	M-SUB-Q			

AT 75% POWER, 475 EFPD, THIS IS LEVEL 19 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	.8140	1.2466	1.4191	1.7050	1.6343	1.7243	1.5465	.8911
	2.4937	1.9219	1.6796	1.3381	1.4497	1.3186	1.5246	2.6374
9	1.2466	1.4726	1.4105	1.5658	1.7190	1.5647	1.6268	1.0699
	1.9219	1.5623	1.6890	1.5151	1.3242	1.5095	1.3925	2.1926
10	1.4191	1.4105	1.4780	1.6429	1.5401	1.4201	1.5433	.8439
	1.6796	1.6897	1.6065	1.3845	1.5327	1.6560	1.4592	2.7719
11	1.7050	1.5669	1.6429	1.4962	1.4855	1.2916	1.3580	.7808
	1.3381	1.5138	1.3848	1.5796	1.4439	1.7103	1.6478	2.9738
12	1.6343	1.7211	1.5401	1.4833	1.1385	1.1685		.8761
	1.4497	1.3226	1.5327	1.4446	1.5900	1.5225		2.4478
13	1.7243	1.5647	1.4201	1.2916	1.1674	1.0528		.6747
	1.3186	1.5091	1.6560	1.7104	1.5225	1.6490		2.9273
14	1.5465	1.6279	1.5444	1.3580	.8761			.6747
	1.5246	1.3918	1.4584	1.6478	2.4478			2.9273
15	.8911	1.0710	.8429	.7808	F-SUB-Q			
	2.6374	2.1920	2.7719	2.9738	M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 75% POWER, 475 EFPD, THIS IS LEVEL 18 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .7904	* 1.2092	* 1.3741	* 1.6654	* 1.5872	* 1.6847	* 1.5069	* .8664
	* 2.6177	* 2.0045	* 1.7864	* 1.4087	* 1.5372	* 1.3859	* 1.6080	* 2.7849
9	* 1.2092	* 1.4330	* 1.3645	* 1.5197	* 1.6793	* 1.5197	* 1.5904	* 1.0399
	* 2.0045	* 1.6507	* 1.7970	* 1.6079	* 1.3941	* 1.6003	* 1.4628	* 2.3177
10	* 1.3741	* 1.3645	* 1.4330	* 1.6033	* 1.4962	* 1.3762	* 1.5058	* .8204
	* 1.7864	* 1.7970	* 1.7076	* 1.4621	* 1.6290	* 1.7640	* 1.5397	* 2.9342
11	* 1.6654	* 1.5208	* 1.6033	* 1.4523	* 1.4501	* 1.2531	* 1.3238	* .7593
	* 1.4087	* 1.6071	* 1.4625	* 1.6711	* 1.5091	* 1.7977	* 1.7478	* 3.1652
12	* 1.5872	* 1.6815	* 1.4962	* 1.4491	* 1.1117	* 1.1428	* .8525	*
	* 1.5372	* 1.3923	* 1.6290	* 1.5099	* 1.6716	* 1.5902	* 2.5748	*
13	* 1.6847	* 1.5197	* 1.3762	* 1.2531	* 1.1428	* 1.0335	* .6597	*
	* 1.3859	* 1.5995	* 1.7640	* 1.7987	* 1.5902	* 1.7229	* 3.0746	*
14	* 1.5069	* 1.5904	* 1.5058	* 1.3238	* .8525	* .6597	*	*
	* 1.6080	* 1.4628	* 1.5394	* 1.7478	* 2.5748	* 3.0715	*	*
15	* .8664	* 1.0410	* .8204	* .7583	* F-SUB-Q			
	* 2.7849	* 2.3159	* 2.9361	* 3.1664	* M-SUB-Q			

AT 75% POWER, 475 EFPD, THIS IS LEVEL 17 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .7636	* 1.1695	* 1.3280	* 1.6236	* 1.5369	* 1.6429	* 1.4641	* .8386
	* 2.7603	* 2.1199	* 1.9256	* 1.5117	* 1.6534	* 1.4845	* 1.7204	* 2.9917
9	* 1.1695	* 1.3944	* 1.3184	* 1.4705	* 1.6365	* 1.4694	* 1.5497	* 1.0067
	* 2.1199	* 1.7735	* 1.9399	* 1.7320	* 1.4953	* 1.7216	* 1.5660	* 2.4907
10	* 1.3280	* 1.3173	* 1.3859	* 1.5626	* 1.4491	* 1.3302	* 1.4673	* .7958
	* 1.9256	* 1.9404	* 1.8438	* 1.5727	* 1.7554	* 1.9061	* 1.6530	* 3.1549
11	* 1.6236	* 1.4716	* 1.5626	* 1.4073	* 1.4137	* 1.2145	* 1.2916	* .7347
	* 1.5117	* 1.7304	* 1.5727	* 1.7625	* 1.5865	* 1.8980	* 1.8401	* 3.4206
12	* 1.5369	* 1.6386	* 1.4491	* 1.4126	* 1.0806	* 1.1171	* .8290	*
	* 1.6534	* 1.4938	* 1.7557	* 1.5878	* 1.7651	* 1.6817	* 2.7176	*
13	* 1.6429	* 1.4705	* 1.3302	* 1.2145	* 1.1171	* 1.0142	* .6426	*
	* 1.4845	* 1.7216	* 1.9061	* 1.8980	* 1.6817	* 1.8265	* 3.2627	*
14	* 1.4641	* 1.5497	* 1.4683	* 1.2916	* .8290	* .6426	*	*
	* 1.7204	* 1.5655	* 1.6530	* 1.8401	* 2.7176	* 3.2627	*	*
15	* .8386	* 1.0078	* .7958	* .7347	* F-SUB-Q			
	* 2.9917	* 2.4907	* 3.1549	* 3.4206	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 75% POWER, 475 EFPD, THIS IS LEVEL 16 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .7518	* 1.1492	* 1.3023	* 1.5969	* 1.5069	* 1.6172	* 1.4384	* .8225 *
	* 2.9100	* 2.2388	* 2.0710	* 1.6316	* 1.7754	* 1.6004	* 1.8405	* 3.2047 *
9	* 1.1492	* 1.3730	* 1.2916	* 1.4416	* 1.6108	* 1.4405	* 1.5251	* .9875 *
	* 2.2388	* 1.8821	* 2.0889	* 1.8619	* 1.6142	* 1.8493	* 1.6868	* 2.6692 *
10	* 1.3023	* 1.2916	* 1.3602	* 1.5390	* 1.4234	* 1.3034	* 1.4459	* .7829 *
	* 2.0710	* 2.0889	* 1.9695	* 1.6747	* 1.8810	* 2.0527	* 1.7844	* 3.3765 *
11	* 1.5969	* 1.4426	* 1.5380	* 1.3837	* 1.3966	* 1.1963	* 1.2766	* .7229 *
	* 1.6316	* 1.8608	* 1.6775	* 1.8592	* 1.6787	* 1.9938	* 1.9490	* 3.6703 *
12	* 1.5069	* 1.6119	* 1.4234	* 1.3955	* 1.0667	* 1.1085		* .8204 *
	* 1.7754	* 1.6125	* 1.8821	* 1.6801	* 1.8526	* 1.7738		* 2.8522 *
13	* 1.6172	* 1.4405	* 1.3045	* 1.1963	* 1.1085	* 1.0121		* .6405 *
	* 1.6004	* 1.8489	* 2.0527	* 1.9944	* 1.7738	* 1.9229		* 3.4144 *
14	* 1.4384	* 1.5251	* 1.4459	* 1.2766	* .8204	* .6405		
	* 1.8405	* 1.6868	* 1.7844	* 1.9490	* 2.8522	* 3.4144		
15	* .8225	* .9885	* .7829	* .7229	* F-SUB-Q			
	* 3.2047	* 2.6692	* 3.3765	* 3.6703	* M-SUB-Q			

AT 75% POWER, 475 EFPD, THIS IS LEVEL 15 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .7390	* 1.1278	* 1.2702	* 1.5530	* 1.4673	* 1.5701	* 1.3987	* .8000 *
	* 3.1240	* 2.3873	* 2.2407	* 1.7995	* 1.9383	* 1.7642	* 2.0071	* 3.4963 *
9	* 1.1278	* 1.3420	* 1.2595	* 1.4041	* 1.5669	* 1.4009	* 1.4823	* .9618 *
	* 2.3873	* 2.0292	* 2.2538	* 2.0342	* 1.7798	* 2.0205	* 1.8579	* 2.9103 *
10	* 1.2702	* 1.2595	* 1.3280	* 1.5015	* 1.3902	* 1.2723	* 1.4094	* .7615 *
	* 2.2407	* 2.2538	* 2.1068	* 1.8128	* 2.0126	* 2.1971	* 1.9576	* 3.6946 *
11	* 1.5530	* 1.4052	* 1.5005	* 1.3559	* 1.3730	* 1.1781	* 1.2509	* .7090 *
	* 1.7995	* 2.0333	* 1.8150	* 1.9958	* 1.8180	* 2.1378	* 2.1085	* 3.9136 *
12	* 1.4673	* 1.5679	* 1.3902	* 1.3709	* 1.0571	* 1.1021		* .8129 *
	* 1.9383	* 1.7780	* 2.0126	* 1.8185	* 1.9858	* 1.9172		* 3.0544 *
13	* 1.5701	* 1.4019	* 1.2723	* 1.1781	* 1.1021	* 1.0121		* .6405 *
	* 1.7642	* 2.0192	* 2.1971	* 2.1378	* 1.9172	* 2.0772		* 3.6473 *
14	* 1.3987	* 1.4833	* 1.4094	* 1.2509	* .8129	* .6405		
	* 2.0071	* 1.8568	* 1.9576	* 2.1085	* 3.0544	* 3.6473		
15	* .8000	* .9628	* .7604	* .7090	* F-SUB-Q			
	* 3.4963	* 2.9085	* 3.6946	* 3.9136	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 75% POWER, 475 EFPD, THIS IS LEVEL 14 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .7647	* 1.1438	* 1.2723	* 1.5615	* 1.4662	* 1.5787	* 1.4019	* .7990
	* 3.2713	* 2.5125	* 2.3691	* 1.9227	* 2.0769	* 1.8941	* 2.1431	* 3.7426
9	* 1.1438	* 1.3612	* 1.2616	* 1.4030	* 1.5754	* 1.3977	* 1.4908	* .9618
	* 2.5125	* 2.1422	* 2.3820	* 2.1604	* 1.9026	* 2.1690	* 1.9923	* 3.1141
10	* 1.2723	* 1.2606	* 1.3334	* 1.5165	* 1.3955	* 1.2745	* 1.4223	* .7647
	* 2.3691	* 2.3837	* 2.2237	* 1.9121	* 2.1223	* 2.3208	* 2.0690	* 3.9390
11	* 1.5615	* 1.4030	* 1.5165	* 1.3709	* 1.4094	* 1.2038	* 1.2734	* .7133
	* 1.9227	* 2.1589	* 1.9145	* 2.0993	* 1.9231	* 2.2573	* 2.2170	* 4.1218
12	* 1.4662	* 1.5765	* 1.3955	* 1.4073	* 1.1063	* 1.1642	* .8354	*
	* 2.0769	* 1.9002	* 2.1223	* 1.9255	* 2.0978	* 2.0294	* 3.2240	*
13	* 1.5787	* 1.3987	* 1.2756	* 1.2038	* 1.1642	* 1.0742	* .6662	*
	* 1.8941	* 2.1674	* 2.3208	* 2.2573	* 2.0294	* 2.1969	* 3.8545	*
14	* 1.4019	* 1.4908	* 1.4223	* 1.2734	* .8354	* .6662	*	*
	* 2.1431	* 1.9918	* 2.0677	* 2.2170	* 3.2209	* 3.8545	*	*
15	* .7990	* .9618	* .7647	* .7133	* F-SUB-Q			
	* 3.7426	* 3.1141	* 3.9390	* 4.1218	* M-SUB-Q			

AT 75% POWER, 475 EFPD, THIS IS LEVEL 13 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .8343	* 1.1652	* 1.2713	* 1.5594	* 1.4587	* 1.5733	* 1.3955	* .7936
	* 3.4735	* 2.6728	* 2.5297	* 2.0687	* 2.2232	* 2.0522	* 2.3099	* 4.0396
9	* 1.1652	* 1.3741	* 1.2606	* 1.3977	* 1.5722	* 1.3902	* 1.4865	* .9564
	* 2.6728	* 2.2981	* 2.5463	* 2.3122	* 2.0471	* 2.3270	* 2.1612	* 3.3609
10	* 1.2713	* 1.2606	* 1.3366	* 1.5240	* 1.3987	* 1.2756	* 1.4244	* .7626
	* 2.5297	* 2.5463	* 2.3774	* 2.0526	* 2.2673	* 2.4824	* 2.2213	* 4.2094
11	* 1.5594	* 1.3987	* 1.5230	* 1.3859	* 1.4512	* 1.2370	* 1.2906	* .7154
	* 2.0687	* 2.3105	* 2.0566	* 2.2411	* 2.0612	* 2.3991	* 2.3742	* 4.3922
12	* 1.4587	* 1.5744	* 1.3987	* 1.4491	* 1.2295	* 1.2659	* .8622	*
	* 2.2232	* 2.0444	* 2.2673	* 2.0626	* 2.2324	* 2.1716	* 3.4236	*
13	* 1.5733	* 1.3912	* 1.2756	* 1.2370	* 1.2659	* 1.1588	* .6983	*
	* 2.0522	* 2.3269	* 2.4824	* 2.3992	* 2.1716	* 2.3508	* 4.0929	*
14	* 1.3955	* 1.4876	* 1.4244	* 1.2906	* .8632	* .6983	*	*
	* 2.3099	* 2.1612	* 2.2198	* 2.3742	* 3.4236	* 4.0925	*	*
15	* .7936	* .9575	* .7626	* .7154	* F-SUB-Q			
	* 4.0396	* 3.3585	* 4.2137	* 4.3984	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 75% POWER, 475 EFPD, THIS IS LEVEL 12 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .8900	* 1.1824	* 1.2670	* 1.5465	* 1.4459	* 1.5562	* 1.3805	* .7850
	* 3.5436	* 2.7256	* 2.5838	* 2.1285	* 2.2773	* 2.1228	* 2.3977	* 4.2226
9	* 1.1824	* 1.3784	* 1.2552	* 1.3880	* 1.5594	* 1.3784	* 1.4726	* .9478
	* 2.7256	* 2.3561	* 2.6031	* 2.3668	* 2.1099	* 2.3922	* 2.2446	* 3.4921
10	* 1.2670	* 1.2552	* 1.3355	* 1.5219	* 1.3966	* 1.2734	* 1.4191	* .7572
	* 2.5838	* 2.6031	* 2.4331	* 2.1199	* 2.3281	* 2.5543	* 2.3075	* 4.3518
11	* 1.5465	* 1.3891	* 1.5208	* 1.3955	* 1.4823	* 1.2649	* 1.3002	* .7165
	* 2.1285	* 2.3650	* 2.1228	* 2.3024	* 2.1329	* 2.4754	* 2.4715	* 4.5413
12	* 1.4459	* 1.5604	* 1.3966	* 1.4801	* 1.3248	* 1.3537	* .8857	
	* 2.2773	* 2.1070	* 2.3281	* 2.1358	* 2.3007	* 2.2543	* 3.5355	
13	* 1.5562	* 1.3784	* 1.2734	* 1.2638	* 1.3537	* 1.2381	* .7272	
	* 2.1228	* 2.3922	* 2.5543	* 2.4754	* 2.2543	* 2.4426	* 4.2283	
14	* 1.3805	* 1.4726	* 1.4191	* 1.3002	* .8857	* .7272		
	* 2.3977	* 2.2446	* 2.3075	* 2.4715	* 3.5355	* 4.2283		
15	* .7850	* .9489	* .7572	* .7165	* F-SUB-Q			
	* 4.2226	* 3.4882	* 4.3518	* 4.5413	* M-SUB-Q			

AT 75% POWER, 475 EFPD, THIS IS LEVEL 11 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9253	* 1.2124	* 1.2852	* 1.5701	* 1.4630	* 1.5797	* 1.3998	* .7936
	* 3.3537	* 2.5988	* 2.4794	* 2.0572	* 2.2082	* 2.0531	* 2.3092	* 4.0115
9	* 1.2124	* 1.4105	* 1.2734	* 1.4052	* 1.5829	* 1.3934	* 1.4951	* .9607
	* 2.5988	* 2.2527	* 2.5012	* 2.2889	* 2.0437	* 2.3160	* 2.1609	* 3.3251
10	* 1.2852	* 1.2734	* 1.3580	* 1.5583	* 1.4212	* 1.2938	* 1.4459	* .7690
	* 2.4794	* 2.5032	* 2.3508	* 2.0518	* 2.2559	* 2.4676	* 2.2223	* 4.1388
11	* 1.5701	* 1.4062	* 1.5562	* 1.4287	* 1.5358	* 1.3088	* 1.3366	* .7304
	* 2.0572	* 2.2889	* 2.0545	* 2.2302	* 2.0640	* 2.3885	* 2.3650	* 4.3099
12	* 1.4630	* 1.5851	* 1.4201	* 1.5337	* 1.3998	* 1.4319	* .9200	
	* 2.2082	* 2.0411	* 2.2559	* 2.0667	* 2.2286	* 2.1714	* 3.3754	
13	* 1.5797	* 1.3934	* 1.2938	* 1.3088	* 1.4319	* 1.3173	* .7626	
	* 2.0531	* 2.3160	* 2.4676	* 2.3885	* 2.1714	* 2.3438	* 4.0063	
14	* 1.3998	* 1.4962	* 1.4459	* 1.3366	* .9200	* .7626		
	* 2.3092	* 2.1609	* 2.2207	* 2.3650	* 3.3754	* 4.0063		
15	* .7936	* .9607	* .7679	* .7304	* F-SUB-Q			
	* 4.0115	* 3.3216	* 4.1388	* 4.3099	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 75% POWER, 475 EFPD, THIS IS LEVEL 10 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9361	* 1.2242	* 1.2906	* 1.5819	* 1.4673	* 1.5894	* 1.4062	* .7958
	* 3.0676	* 2.3722	* 2.2674	* 1.8756	* 2.0187	* 1.8711	* 2.1065	* 3.6693
9	* 1.2242	* 1.4266	* 1.2788	* 1.4094	* 1.5947	* 1.3966	* 1.5058	* .9639
	* 2.3722	* 2.0504	* 2.2889	* 2.0943	* 1.8633	* 2.1194	* 1.9701	* 3.0424
10	* 1.2906	* 1.2788	* 1.3666	* 1.5787	* 1.4298	* 1.3013	* 1.4587	* .7711
	* 2.2674	* 2.2889	* 2.1505	* 1.8736	* 2.0640	* 2.2608	* 2.0252	* 3.7881
11	* 1.5819	* 1.4105	* 1.5765	* 1.4437	* 1.5626	* 1.3345	* 1.3570	* .7358
	* 1.8756	* 2.0929	* 1.8759	* 2.0424	* 1.8883	* 2.1927	* 2.1609	* 3.9457
12	* 1.4673	* 1.5958	* 1.4298	* 1.5604	* 1.4330	* 1.4705	* .9371	*
	* 2.0187	* 1.8614	* 2.0640	* 1.8906	* 2.0464	* 1.9904	* 3.0980	*
13	* 1.5894	* 1.3966	* 1.3013	* 1.3345	* 1.4705	* 1.3570	* .7808	*
	* 1.8711	* 2.1194	* 2.2608	* 2.1927	* 1.9904	* 2.1490	* 3.6855	*
14	* 1.4062	* 1.5058	* 1.4587	* 1.3570	* .9371	* .7808	*	*
	* 2.1065	* 1.9688	* 2.0252	* 2.1609	* 3.0980	* 3.6855	*	*
15	* .7958	* .9639	* .7711	* .7358	* F-SUB-Q			
	* 3.6693	* 3.0395	* 3.7902	* 3.9457	* M-SUB-Q			

AT 75% POWER, 475 EFPD, THIS IS LEVEL 9 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9414	* 1.2295	* 1.2927	* 1.5851	* 1.4683	* 1.5926	* 1.4084	* .7947
	* 2.8113	* 2.1747	* 2.0807	* 1.7177	* 1.8517	* 1.7119	* 1.9270	* 3.3664
9	* 1.2295	* 1.4341	* 1.2809	* 1.4116	* 1.5979	* 1.3966	* 1.5090	* .9650
	* 2.1747	* 1.8774	* 2.1003	* 1.9223	* 1.7065	* 1.9450	* 1.8026	* 2.7886
10	* 1.2927	* 1.2809	* 1.3709	* 1.5872	* 1.4341	* 1.3034	* 1.4651	* .7733
	* 2.0807	* 2.1017	* 1.9744	* 1.7168	* 1.8944	* 2.0766	* 1.8563	* 3.4758
11	* 1.5851	* 1.4126	* 1.5851	* 1.4501	* 1.5754	* 1.3473	* 1.3677	* .7390
	* 1.7177	* 1.9211	* 1.7196	* 1.8751	* 1.7320	* 2.0152	* 1.9820	* 3.6248
12	* 1.4683	* 1.6001	* 1.4341	* 1.5733	* 1.4480	* 1.4898	* .9457	*
	* 1.8517	* 1.7046	* 1.8944	* 1.7339	* 1.8804	* 1.8255	* 2.8496	*
13	* 1.5926	* 1.3977	* 1.3034	* 1.3473	* 1.4898	* 1.3773	* .7915	*
	* 1.7119	* 1.9438	* 2.0766	* 2.0161	* 1.8255	* 1.9691	* 3.3863	*
14	* 1.4084	* 1.5101	* 1.4651	* 1.3677	* .9457	* .7915	*	*
	* 1.9270	* 1.8021	* 1.8563	* 1.9820	* 2.8496	* 3.3863	*	*
15	* .7947	* .9650	* .7733	* .7390	* F-SUB-Q			
	* 3.3664	* 2.7874	* 3.4759	* 3.6248	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 75% POWER, 475 EFPD, THIS IS LEVEL 8 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9414	* 1.2306	* 1.2927	* 1.5808	* 1.4662	* 1.5872	* 1.4052	* .7936
	* 2.6034	* 2.0091	* 1.9195	* 1.5845	* 1.7055	* 1.5805	* 1.7802	* 3.1113
9	* 1.2306	* 1.4309	* 1.2809	* 1.4105	* 1.5936	* 1.3955	* 1.5048	* .9639
	* 2.0091	* 1.7391	* 1.9398	* 1.7712	* 1.5749	* 1.7915	* 1.6651	* 2.5725
10	* 1.2927	* 1.2798	* 1.3709	* 1.5862	* 1.4341	* 1.3045	* 1.4630	* .7711
	* 1.9195	* 1.9404	* 1.8241	* 1.5884	* 1.7511	* 1.9194	* 1.7181	* 3.2153
11	* 1.5808	* 1.4105	* 1.5840	* 1.4501	* 1.5754	* 1.3516	* 1.3677	* .7401
	* 1.5845	* 1.7707	* 1.5908	* 1.7315	* 1.6005	* 1.8579	* 1.8340	* 3.3504
12	* 1.4662	* 1.5958	* 1.4341	* 1.5733	* 1.4523	* 1.4940	* .9500	
	* 1.7055	* 1.5734	* 1.7518	* 1.6022	* 1.7334	* 1.6850	* 2.6258	
13	* 1.5872	* 1.3955	* 1.3045	* 1.3516	* 1.4940	* 1.3816	* .7968	
	* 1.5805	* 1.7910	* 1.9194	* 1.8579	* 1.6850	* 1.8191	* 3.1202	
14	* 1.4052	* 1.5048	* 1.4630	* 1.3677	* .9500	* .7968		
	* 1.7802	* 1.6646	* 1.7176	* 1.8340	* 2.6258	* 3.1202		
15	* .7936	* .9650	* .7711	* .7401	* F-SUB-Q			
	* 3.1113	* 2.5704	* 3.2153	* 3.3504	* M-SUB-Q			

AT 75% POWER, 475 EFPD, THIS IS LEVEL 7 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9564	* 1.2499	* 1.3120	* 1.6140	* 1.4898	* 1.6215	* 1.4330	* .8065
	* 2.3739	* 1.8321	* 1.7530	* 1.4388	* 1.5571	* 1.4362	* 1.6195	* 2.8448
9	* 1.2499	* 1.4619	* 1.2991	* 1.4319	* 1.6268	* 1.4159	* 1.5380	* .9800
	* 1.8321	* 1.5755	* 1.7714	* 1.6175	* 1.4300	* 1.6378	* 1.5111	* 2.3507
10	* 1.3120	* 1.2981	* 1.3923	* 1.6204	* 1.4576	* 1.3227	* 1.4951	* .7861
	* 1.7530	* 1.7724	* 1.6639	* 1.4412	* 1.5952	* 1.7525	* 1.5578	* 2.9273
11	* 1.6140	* 1.4319	* 1.6183	* 1.4748	* 1.6108	* 1.3773	* 1.3998	* .7529
	* 1.4388	* 1.6170	* 1.4435	* 1.5795	* 1.4552	* 1.6983	* 1.6661	* 3.0590
12	* 1.4898	* 1.6290	* 1.4576	* 1.6097	* 1.4801	* 1.5305	* .9671	
	* 1.5571	* 1.4283	* 1.5952	* 1.4573	* 1.5834	* 1.5333	* 2.4034	
13	* 1.6215	* 1.4169	* 1.3227	* 1.3773	* 1.5305	* 1.4169	* .8118	
	* 1.4362	* 1.6369	* 1.7520	* 1.6983	* 1.5333	* 1.6543	* 2.8563	
14	* 1.4330	* 1.5390	* 1.4951	* 1.3998	* .9671	* .8118		
	* 1.6195	* 1.5111	* 1.5574	* 1.6661	* 2.4034	* 2.8563		
15	* .8065	* .9810	* .7861	* .7529	* F-SUB-Q			
	* 2.8448	* 2.3489	* 2.9273	* 3.0605	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 75% POWER, 475 EFPD, THIS IS LEVEL 6 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9639	* 1.2606	* 1.3216	* 1.6290	* 1.5015	* 1.6354	* 1.4469	* .8129
	* 2.2045	* 1.6999	* 1.6282	* 1.3351	* 1.4460	* 1.3326	* 1.5033	* 2.6503
9	* 1.2606	* 1.4758	* 1.3088	* 1.4426	* 1.6418	* 1.4276	* 1.5530	* .9885
	* 1.6999	* 1.4608	* 1.6453	* 1.5023	* 1.3263	* 1.5212	* 1.4022	* 2.1852
10	* 1.3216	* 1.3088	* 1.4030	* 1.6365	* 1.4694	* 1.3334	* 1.5090	* .7936
	* 1.6282	* 1.6462	* 1.5434	* 1.3337	* 1.4791	* 1.6261	* 1.4436	* 2.7206
11	* 1.6290	* 1.4437	* 1.6333	* 1.4887	* 1.6279	* 1.3912	* 1.4137	* .7593
	* 1.3351	* 1.5015	* 1.3357	* 1.4625	* 1.3443	* 1.5701	* 1.5407	* 2.8405
12	* 1.5015	* 1.6440	* 1.4694	* 1.6268	* 1.4962	* 1.5476		* .9768
	* 1.4460	* 1.3247	* 1.4791	* 1.3460	* 1.4629	* 1.4161		* 2.2257
13	* 1.6354	* 1.4276	* 1.3345	* 1.3912	* 1.5476	* 1.4330		* .8204
	* 1.3326	* 1.5209	* 1.6257	* 1.5701	* 1.4161	* 1.5298		* 2.6480
14	* 1.4469	* 1.5530	* 1.5101	* 1.4137	* .9768	* .8204		
	* 1.5033	* 1.4022	* 1.4436	* 1.5407	* 2.2257	* 2.6480		
15	* .8129	* .9896	* .7925	* .7593	* F-SUB-Q			
	* 2.6503	* 2.1837	* 2.7218	* 2.8417	* M-SUB-Q			

AT 75% POWER, 475 EFPD, THIS IS LEVEL 5 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9575	* 1.2563	* 1.3173	* 1.6129	* 1.4951	* 1.6194	* 1.4362	* .8075
	* 2.1020	* 1.6141	* 1.5467	* 1.2740	* 1.3746	* 1.2733	* 1.4329	* 2.5278
9	* 1.2563	* 1.4630	* 1.3055	* 1.4362	* 1.6268	* 1.4212	* 1.5380	* .9842
	* 1.6141	* 1.3942	* 1.5621	* 1.4270	* 1.2655	* 1.4451	* 1.3392	* 2.0810
10	* 1.3173	* 1.3045	* 1.3977	* 1.6226	* 1.4641	* 1.3302	* 1.4983	* .7861
	* 1.5467	* 1.5629	* 1.4651	* 1.2702	* 1.4043	* 1.5425	* 1.3752	* 2.6015
11	* 1.6129	* 1.4373	* 1.6204	* 1.4823	* 1.6161	* 1.3880	* 1.4041	* .7572
	* 1.2740	* 1.4264	* 1.2720	* 1.3880	* 1.2785	* 1.4856	* 1.4664	* 2.6991
12	* 1.4951	* 1.6290	* 1.4630	* 1.6151	* 1.4919	* 1.5390		* .9746
	* 1.3746	* 1.2640	* 1.4043	* 1.2795	* 1.3837	* 1.3438		* 2.1084
13	* 1.6194	* 1.4223	* 1.3302	* 1.3880	* 1.5390	* 1.4244		* .8193
	* 1.2733	* 1.4451	* 1.5421	* 1.4856	* 1.3438	* 1.4528		* 2.5075
14	* 1.4362	* 1.5390	* 1.4983	* 1.4041	* .9746			* .8193
	* 1.4329	* 1.3392	* 1.3752	* 1.4664	* 2.1084			* 2.5075
15	* .8075	* .9842	* .7861	* .7572	* F-SUB-Q			
	* 2.5278	* 2.0796	* 2.6015	* 2.6991	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 75% POWER, 475 EFPD, THIS IS LEVEL 4 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9628	* 1.2638	* 1.3238	* 1.6140	* 1.5005	* 1.6204	* 1.4448	* .8118
	* 2.0041	* 1.5370	* 1.4733	* 1.2167	* 1.3091	* 1.2159	* 1.3628	* 2.4125
9	* 1.2638	* 1.4694	* 1.3120	* 1.4405	* 1.6279	* 1.4255	* 1.5433	* .9875
	* 1.5370	* 1.3278	* 1.4873	* 1.3604	* 1.2080	* 1.3784	* 1.2762	* 1.9863
10	* 1.3238	* 1.3109	* 1.4019	* 1.6279	* 1.4705	* 1.3366	* 1.5069	* .7893
	* 1.4733	* 1.4880	* 1.3966	* 1.2094	* 1.3360	* 1.4681	* 1.3077	* 2.4834
11	* 1.6140	* 1.4416	* 1.6247	* 1.4887	* 1.6236	* 1.3987	* 1.4137	* .7604
	* 1.2167	* 1.3595	* 1.2112	* 1.3199	* 1.2152	* 1.4088	* 1.3934	* 2.5744
12	* 1.5005	* 1.6301	* 1.4705	* 1.6226	* 1.5026	* 1.5497		* .9810
	* 1.3091	* 1.2063	* 1.3363	* 1.2159	* 1.3124	* 1.2744		* 2.0028
13	* 1.6204	* 1.4266	* 1.3366	* 1.3987	* 1.5497	* 1.4330		* .8247
	* 1.2159	* 1.3778	* 1.4677	* 1.4088	* 1.2744	* 1.3787		* 2.3839
14	* 1.4448	* 1.5433	* 1.5069	* 1.4137	* .9810	* .8247		
	* 1.3628	* 1.2762	* 1.3075	* 1.3931	* 2.0028	* 2.3839		
15	* .8118	* .9885	* .7893	* .7604	* F-SUB-Q			
	* 2.4125	* 1.9850	* 2.4834	* 2.5744	* M-SUB-Q			

AT 75% POWER, 475 EFPD, THIS IS LEVEL 3 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9253	* 1.2134	* 1.2691	* 1.5251	* 1.4330	* 1.5294	* 1.3816	* .7786
	* 2.0182	* 1.5491	* 1.4858	* 1.2434	* 1.3237	* 1.2429	* 1.3759	* 2.4358
9	* 1.2134	* 1.3987	* 1.2595	* 1.3762	* 1.5369	* 1.3602	* 1.4630	* .9414
	* 1.5491	* 1.3489	* 1.4979	* 1.3756	* 1.2348	* 1.3952	* 1.3006	* 2.0176
10	* 1.2691	* 1.2584	* 1.3377	* 1.5390	* 1.4105	* 1.2809	* 1.4341	* .7551
	* 1.4858	* 1.4986	* 1.4139	* 1.2339	* 1.3451	* 1.4798	* 1.3271	* 2.5122
11	* 1.5251	* 1.3773	* 1.5358	* 1.4234	* 1.5390	* 1.3420	* 1.3473	* .7304
	* 1.2434	* 1.3750	* 1.2361	* 1.3325	* 1.2368	* 1.4177	* 1.4135	* 2.5999
12	* 1.4330	* 1.5390	* 1.4105	* 1.5380	* 1.4416	* 1.4726		* .9446
	* 1.3237	* 1.2334	* 1.3451	* 1.2375	* 1.3198	* 1.2941		* 2.0137
13	* 1.5294	* 1.3602	* 1.2820	* 1.3420	* 1.4726	* 1.3634		* .7915
	* 1.2429	* 1.3946	* 1.4798	* 1.4183	* 1.2941	* 1.3996		* 2.4049
14	* 1.3816	* 1.4641	* 1.4351	* 1.3473	* .9446	* .7915		
	* 1.3759	* 1.3006	* 1.3268	* 1.4135	* 2.0137	* 2.4049		
15	* .7786	* .9414	* .7551	* .7304	* F-SUB-Q			
	* 2.4358	* 2.0163	* 2.5122	* 2.5999	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 75% POWER, 475 EFPD, THIS IS LEVEL 2 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .8129	* 1.0507	* 1.0978	* 1.3055	* 1.2359	* 1.3098	* 1.2049	* .6790
	* 2.2458	* 1.7444	* 1.6739	* 1.4125	* 1.4921	* 1.4109	* 1.5360	* 2.7269
9	* 1.0507	* 1.1995	* 1.0913	* 1.1877	* 1.3141	* 1.1717	* 1.2552	* .8054
	* 1.7444	* 1.5304	* 1.6842	* 1.5509	* 1.4039	* 1.5764	* 1.4765	* 2.3020
10	* 1.0978	* 1.0913	* 1.1545	* 1.3163	* 1.2306	* 1.1106	* 1.2188	* .6565
	* 1.6739	* 1.6847	* 1.5949	* 1.4024	* 1.4996	* 1.6641	* 1.5211	* 2.8229
11	* 1.3055	* 1.1888	* 1.3141	* 1.2306	* 1.3173	* 1.1620	* 1.1470	* .6362
	* 1.4125	* 1.5502	* 1.4046	* 1.4992	* 1.4042	* 1.5928	* 1.6179	* 2.9110
12	* 1.2359	* 1.3152	* 1.2306	* 1.3163	* 1.2574	* 1.2627	* .8300	
	* 1.4921	* 1.4024	* 1.5003	* 1.4052	* 1.4717	* 1.4696	* 2.2345	
13	* 1.3098	* 1.1727	* 1.1106	* 1.1620	* 1.2627	* 1.1620	* .6908	
	* 1.4109	* 1.5760	* 1.6636	* 1.5936	* 1.4696	* 1.5981	* 2.6870	
14	* 1.2049	* 1.2552	* 1.2188	* 1.1470	* .8300	* .6908		
	* 1.5360	* 1.4765	* 1.5211	* 1.6179	* 2.2345	* 2.6870		
15	* .6790	* .8054	* .6565	* .6362	* F-SUB-Q			
	* 2.7269	* 2.3012	* 2.8229	* 2.9124	* M-SUB-Q			

AT 75% POWER, 475 EFPD, THIS IS LEVEL 1 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .6030	* .5216	* .5591	* .6405	* .6158	* .6426	* .5976	* .5066
	* 2.9648	* 3.4283	* 3.2067	* 2.8001	* 2.9205	* 2.7989	* 3.0192	* 3.5774
9	* .5216	* .5869	* .5430	* .5965	* .6458	* .5955	* .5912	* .4198
	* 3.4283	* 3.0457	* 3.3086	* 3.0106	* 2.7790	* 3.0222	* 3.0531	* 4.3041
10	* .5591	* .5419	* .5933	* .6480	* .6148	* .5548	* .5741	* .5023
	* 3.2067	* 3.3086	* 3.0296	* 2.7716	* 2.9233	* 3.2484	* 3.1469	* 3.6063
11	* .6405	* .5976	* .6469	* .6158	* .6480	* .5794	* .5355	* .3566
	* 2.8001	* 3.0077	* 2.7765	* 2.9205	* 2.7765	* 3.1109	* 3.3746	* 5.0852
12	* .6158	* .6469	* .6148	* .6480	* .6287	* .5965	* .4659	
	* 2.9205	* 2.7765	* 2.9233	* 2.7777	* 2.8656	* 3.0280	* 3.8794	
13	* .6426	* .5955	* .5537	* .5794	* .5965	* .5473	* .3716	
	* 2.7989	* 3.0193	* 3.2517	* 3.1125	* 3.0280	* 3.3067	* 4.8787	
14	* .5976	* .5912	* .5741	* .5355	* .4659	* .3716		
	* 3.0192	* 3.0531	* 3.1469	* 3.3746	* 3.8794	* 4.8787		
15	* .5066	* .4209	* .5023	* .3566	* F-SUB-Q			
	* 3.5774	* 4.3012	* 3.6063	* 5.0852	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 50% POWER, 4 EFPD, THIS IS LEVEL 24 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	.4305	.4155	.4327	.4402	.3963	.3813	.3481	.3192
	* 3.9135	* 4.9156	* 4.9491	* 4.9222	* 5.6777	* 5.7528	* 6.4631	* 7.0260
9	.4155	.4498	.4370	.4209	.4038	.3781	.3556	.2495
	* 4.9156	* 4.5569	* 4.9323	* 5.2949	* 5.3110	* 5.7489	* 6.0206	* 8.9448
10	.4327	.4370	.4263	.4155	.3866	.3674	.3502	.3052
	* 4.9491	* 4.9323	* 5.1267	* 5.0514	* 5.4778	* 5.6925	* 5.9155	* 7.1553
11	.4402	.4209	.4155	.3781	.3416	.3331	.3084	.2013
	* 4.9222	* 5.2949	* 5.0544	* 5.5090	* 5.2193	* 5.6555	* 6.1162	* 10.1105
12	.3963	.4038	.3866	.3416	.2635	.2560	.2485	
	* 5.6777	* 5.3077	* 5.4778	* 5.2193	* 5.4572	* 5.4581	* 6.8839	
13	.3813	.3781	.3674	.3331	.2560	.2174	.1660	
	* 5.7528	* 5.7450	* 5.6925	* 5.6555	* 5.4581	* 6.0334	* 9.1448	
14	.3481	.3556	.3502	.3084	.2485	.1660		
	* 6.4631	* 6.0206	* 5.9155	* 6.1162	* 6.8839	* 9.1448		
15	.3192	.2495	.3052	.2013	F-SUB-Q			
	* 7.0260	* 8.9448	* 7.1553	* 10.1105	M-SUB-Q			

AT 50% POWER, 4 EFPD, THIS IS LEVEL 23 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	.5955	1.0067	1.0785	.8975	.9221	.7476	.8279	.4637
	* 2.7064	* 2.0876	* 2.0524	* 2.4865	* 2.5410	* 3.0376	* 2.8421	* 5.0234
9	1.0067	.9264	1.0806	1.0314	.7990	.9136	.8043	.5569
	* 2.0876	* 2.3319	* 2.0816	* 2.2371	* 2.7115	* 2.4785	* 2.7500	* 4.1622
10	1.0785	1.0806	1.0646	.8622	.9361	.9286	.8118	.4188
	* 2.0524	* 2.0821	* 2.1322	* 2.5552	* 2.3205	* 2.3261	* 2.6156	* 5.3272
11	.8975	1.0314	.8611	.8547	.7283	.8247	.7529	.4209
	* 2.4865	* 2.2371	* 2.5583	* 2.4515	* 2.6449	* 2.3541	* 2.5721	* 5.0136
12	.9221	.7990	.9361	.7283	.5666	.6126	.5194	
	* 2.5410	* 2.7098	* 2.3205	* 2.6449	* 2.3758	* 2.5136	* 3.4380	
13	.7476	.9136	.9296	.8247	.6126	.5441	.3641	
	* 3.0376	* 2.4771	* 2.3261	* 2.3541	* 2.5136	* 2.5543	* 4.3542	
14	.8279	.8054	.8118	.7529	.5194	.3641		
	* 2.8421	* 2.7482	* 2.6148	* 2.5721	* 3.4380	* 4.3542		
15	.4637	.5580	.4188	.4209	F-SUB-Q			
	* 5.0234	* 4.1583	* 5.3272	* 5.0136	M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 50% POWER, 4 EFPD, THIS IS LEVEL 22 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .7443	* 1.2756	* 1.3698	* 1.1535	* 1.1599	* .9585	* 1.0592	* .5805
	* 2.2700	* 1.7088	* 1.6697	* 1.9943	* 2.0896	* 2.4461	* 2.2874	* 4.1337
9	* 1.2756	* 1.1899	* 1.3698	* 1.3055	* 1.0367	* 1.1727	* 1.0592	* .7122
	* 1.7088	* 1.8741	* 1.6983	* 1.8242	* 2.1557	* 1.9929	* 2.1443	* 3.3649
10	* 1.3698	* 1.3698	* 1.3527	* 1.1085	* 1.2006	* 1.1984	* 1.0753	* .5312
	* 1.6697	* 1.6989	* 1.7340	* 2.0508	* 1.8670	* 1.8579	* 2.0284	* 4.3467
11	* 1.1535	* 1.3055	* 1.1063	* 1.0774	* .9521	* 1.0689	* 1.0078	* .5334
	* 1.9943	* 1.8242	* 2.0537	* 2.0120	* 2.0934	* 1.8813	* 1.9850	* 4.0967
12	* 1.1599	* 1.0367	* 1.2006	* .9521	* .7304	* .8193	* .6662	*
	* 2.0896	* 2.1546	* 1.8670	* 2.0939	* 1.9011	* 1.9546	* 2.7889	*
13	* .9585	* 1.1738	* 1.1984	* 1.0689	* .8193	* .7433	* .4723	*
	* 2.4461	* 1.9920	* 1.8579	* 1.8813	* 1.9546	* 1.9542	* 3.4925	*
14	* 1.0592	* 1.0603	* 1.0764	* 1.0078	* .6662	* .4723	*	*
	* 2.2874	* 2.1432	* 2.0284	* 1.9850	* 2.7889	* 3.4925	*	*
15	* .5805	* .7133	* .5312	* .5334	F-SUB-Q			
	* 4.1337	* 3.3598	* 4.3467	* 4.0967	M-SUB-Q			

AT 50% POWER, 4 EFPD, THIS IS LEVEL 21 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .8504	* 1.4544	* 1.5604	* 1.3377	* 1.3377	* 1.1278	* 1.2391	* .6629
	* 2.1110	* 1.5643	* 1.5264	* 1.7855	* 1.8804	* 2.1494	* 2.0200	* 3.7408
9	* 1.4544	* 1.3773	* 1.5583	* 1.4940	* 1.2188	* 1.3602	* 1.2627	* .8268
	* 1.5643	* 1.6834	* 1.5523	* 1.6579	* 1.9042	* 1.7876	* 1.8654	* 2.9987
10	* 1.5604	* 1.5583	* 1.5401	* 1.2873	* 1.3966	* 1.3891	* 1.2841	* .6180
	* 1.5264	* 1.5523	* 1.5824	* 1.8331	* 1.6688	* 1.6638	* 1.7628	* 3.8911
11	* 1.3377	* 1.4940	* 1.2852	* 1.2466	* 1.1267	* 1.2541	* 1.2102	* .6190
	* 1.7855	* 1.6576	* 1.8367	* 1.8116	* 1.8414	* 1.6760	* 1.7225	* 3.6817
12	* 1.3377	* 1.2199	* 1.3966	* 1.1267	* .8729	* .9875	* .7797	*
	* 1.8804	* 1.9034	* 1.6694	* 1.8421	* 1.6833	* 1.6896	* 2.4961	*
13	* 1.1278	* 1.3612	* 1.3902	* 1.2541	* .9875	* .9168	* .5580	*
	* 2.1494	* 1.7865	* 1.6644	* 1.6763	* 1.6896	* 1.6738	* 3.1142	*
14	* 1.2391	* 1.2638	* 1.2852	* 1.2102	* .7797	* .5580	*	*
	* 2.0200	* 1.8649	* 1.7624	* 1.7225	* 2.4961	* 3.1142	*	*
15	* .6629	* .8279	* .6180	* .6190	F-SUB-Q			
	* 3.7408	* 2.9947	* 3.8911	* 3.6817	M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 50% POWER, 4 EFPD, THIS IS LEVEL 20 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .8943	* 1.5262	* 1.6343	* 1.4212	* 1.4244	* 1.2220	* 1.3334	* .7036
	* 2.1427	* 1.5721	* 1.5297	* 1.7532	* 1.8454	* 2.0663	* 1.9586	* 3.6818
9	* 1.5262	* 1.4608	* 1.6333	* 1.5733	* 1.3141	* 1.4523	* 1.3730	* .8846
	* 1.5721	* 1.6666	* 1.5531	* 1.6440	* 1.8470	* 1.7512	* 1.7894	* 2.9278
10	* 1.6343	* 1.6333	* 1.6161	* 1.3709	* 1.4951	* 1.4844	* 1.4009	* .6651
	* 1.5297	* 1.5536	* 1.5784	* 1.7984	* 1.6368	* 1.6359	* 1.6959	* 3.7883
11	* 1.4212	* 1.5733	* 1.3687	* 1.3313	* 1.2220	* 1.3516	* 1.3227	* .6651
	* 1.7532	* 1.6440	* 1.8014	* 1.7846	* 1.7861	* 1.6404	* 1.6578	* 3.6146
12	* 1.4244	* 1.3152	* 1.4951	* 1.2209	* .9564	* 1.0860	* .8418	*
	* 1.8454	* 1.8464	* 1.6374	* 1.7864	* 1.6374	* 1.6204	* 2.4460	*
13	* 1.2220	* 1.4533	* 1.4844	* 1.3516	* 1.0860	* 1.0239	* .6073	*
	* 2.0663	* 1.7505	* 1.6365	* 1.6407	* 1.6204	* 1.5970	* 3.0431	*
14	* 1.3334	* 1.3741	* 1.4009	* 1.3227	* .8418	* .6073	*	*
	* 1.9586	* 1.7888	* 1.6959	* 1.6581	* 2.4466	* 3.0431	*	*
15	* .7036	* .8857	* .6651	* .6651	* F-SUB-Q			
	* 3.6818	* 2.9259	* 3.7890	* 3.6161	* M-SUB-Q			

AT 50% POWER, 4 EFPD, THIS IS LEVEL 19 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9146	* 1.5530	* 1.6633	* 1.4598	* 1.4683	* 1.2766	* 1.3891	* .7283
	* 2.2359	* 1.6326	* 1.5889	* 1.8027	* 1.8939	* 2.0860	* 1.9862	* 3.7586
9	* 1.5530	* 1.4973	* 1.6643	* 1.6086	* 1.3687	* 1.5037	* 1.4373	* .9168
	* 1.6326	* 1.7171	* 1.6125	* 1.7005	* 1.8735	* 1.7897	* 1.8056	* 2.9837
10	* 1.6633	* 1.6633	* 1.6472	* 1.4116	* 1.5530	* 1.5380	* 1.4683	* .6951
	* 1.5889	* 1.6131	* 1.6365	* 1.8434	* 1.6676	* 1.6693	* 1.7067	* 3.8399
11	* 1.4598	* 1.6086	* 1.4084	* 1.3773	* 1.2788	* 1.4116	* 1.3912	* .6940
	* 1.8027	* 1.7005	* 1.8473	* 1.8276	* 1.8115	* 1.6735	* 1.6740	* 3.6756
12	* 1.4683	* 1.3687	* 1.5530	* 1.2777	* 1.0089	* 1.1492	* .8836	*
	* 1.8939	* 1.8728	* 1.6687	* 1.8122	* 1.6723	* 1.6406	* 2.5052	*
13	* 1.2766	* 1.5048	* 1.5380	* 1.4116	* 1.1481	* 1.0935	* .6415	*
	* 2.0860	* 1.7884	* 1.6699	* 1.6740	* 1.6409	* 1.6128	* 3.1128	*
14	* 1.3891	* 1.4373	* 1.4694	* 1.3912	* .8836	* .6415	*	*
	* 1.9862	* 1.8048	* 1.7067	* 1.6740	* 2.5052	* 3.1128	*	*
15	* .7283	* .9178	* .6951	* .6940	* F-SUB-Q			
	* 3.7586	* 2.9818	* 3.8431	* 3.6762	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 50% POWER, 4 EFPD, THIS IS LEVEL 18 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9275	* 1.5819	* 1.6933	* 1.4930	* 1.5101	* 1.3248	* 1.4405	* .7529
	* 2.3813	* 1.7249	* 1.6765	* 1.8882	* 1.9739	* 2.1336	* 2.0351	* 3.8637
9	* 1.5819	* 1.5294	* 1.6965	* 1.6451	* 1.4180	* 1.5562	* 1.4940	* .9500
	* 1.7249	* 1.8049	* 1.7005	* 1.7849	* 1.9390	* 1.8587	* 1.8595	* 3.0664
10	* 1.6933	* 1.6965	* 1.6815	* 1.4469	* 1.6086	* 1.5926	* 1.5315	* .7219
	* 1.6765	* 1.7012	* 1.7220	* 1.9267	* 1.7272	* 1.7299	* 1.7552	* 3.9783
11	* 1.4930	* 1.6451	* 1.4448	* 1.4223	* 1.3313	* 1.4726	* 1.4566	* .7219
	* 1.8882	* 1.7849	* 1.9301	* 1.8961	* 1.8672	* 1.7297	* 1.7189	* 3.8065
12	* 1.5101	* 1.4180	* 1.6086	* 1.3313	* 1.0592	* 1.2092	* .9253	*
	* 1.9739	* 1.9389	* 1.7285	* 1.8680	* 1.7288	* 1.6871	* 2.5875	*
13	* 1.3248	* 1.5572	* 1.5936	* 1.4726	* 1.2092	* 1.1620	* .6779	*
	* 2.1336	* 1.8580	* 1.7305	* 1.7304	* 1.6872	* 1.6566	* 3.2187	*
14	* 1.4405	* 1.4940	* 1.5315	* 1.4566	* .9253	* .6779	*	*
	* 2.0351	* 1.8594	* 1.7552	* 1.7196	* 2.5875	* 3.2187	*	*
15	* .7529	* .9510	* .7208	* .7219	* F-SUB-Q			
	* 3.8637	* 3.0622	* 3.9783	* 3.8097	* M-SUB-Q			

AT 50% POWER, 4 EFPD, THIS IS LEVEL 17 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9264	* 1.5851	* 1.6965	* 1.5058	* 1.5251	* 1.3516	* 1.4662	* .7615
	* 2.6230	* 1.8756	* 1.8180	* 2.0302	* 2.1040	* 2.2574	* 2.1506	* 4.1094
9	* 1.5851	* 1.5412	* 1.6997	* 1.6515	* 1.4469	* 1.5808	* 1.5283	* .9650
	* 1.8756	* 1.9492	* 1.8415	* 1.9214	* 2.0693	* 1.9815	* 1.9710	* 3.2535
10	* 1.6965	* 1.6997	* 1.6858	* 1.4630	* 1.6397	* 1.6194	* 1.5722	* .7358
	* 1.8180	* 1.8423	* 1.8611	* 2.0713	* 1.8535	* 1.8595	* 1.8688	* 4.2196
11	* 1.5058	* 1.6515	* 1.4608	* 1.4459	* 1.3687	* 1.5101	* 1.5048	* .7379
	* 2.0302	* 1.9206	* 2.0752	* 2.0424	* 2.0025	* 1.8568	* 1.8356	* 4.0727
12	* 1.5251	* 1.4469	* 1.6397	* 1.3687	* 1.0978	* 1.2595	* .9564	*
	* 2.1040	* 2.0684	* 1.8550	* 2.0025	* 1.8589	* 1.8043	* 2.7758	*
13	* 1.3516	* 1.5808	* 1.6194	* 1.5101	* 1.2584	* 1.2242	* .7058	*
	* 2.2574	* 1.9815	* 1.8603	* 1.8575	* 1.8049	* 1.7661	* 3.4535	*
14	* 1.4662	* 1.5294	* 1.5722	* 1.5048	* .9564	* .7058	*	*
	* 2.1506	* 1.9701	* 1.8688	* 1.8362	* 2.7758	* 3.4535	*	*
15	* .7615	* .9660	* .7358	* .7379	* F-SUB-Q			
	* 4.1094	* 3.2512	* 4.2236	* 4.0727	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 50% POWER, 4 EFPD, THIS IS LEVEL 16 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9446	* 1.6054	* 1.7136	* 1.5230	* 1.5455	* 1.3773	* 1.4940	* .7743
	* 2.8692	* 2.0467	* 1.9831	* 2.2216	* 2.2427	* 2.3944	* 2.2603	* 4.3187
9	* 1.6054	* 1.5604	* 1.7157	* 1.6686	* 1.4780	* 1.6119	* 1.5637	* .9832
	* 2.0467	* 2.1365	* 2.0073	* 2.0867	* 2.2417	* 2.1263	* 2.1183	* 3.4158
10	* 1.7136	* 1.7147	* 1.7029	* 1.4833	* 1.6793	* 1.6568	* 1.6161	* .7540
	* 1.9831	* 2.0082	* 2.0250	* 2.2610	* 1.9873	* 1.9960	* 2.0141	* 4.4876
11	* 1.5230	* 1.6686	* 1.4801	* 1.4823	* 1.4169	* 1.5626	* 1.5594	* .7583
	* 2.2216	* 2.0867	* 2.2656	* 2.2039	* 2.1687	* 1.9960	* 1.9801	* 4.3638
12	* 1.5455	* 1.4791	* 1.6793	* 1.4159	* 1.1599	* 1.3259	* .9992	*
	* 2.2427	* 2.2405	* 1.9882	* 2.1697	* 2.0126	* 1.9653	* 2.9927	*
13	* 1.3773	* 1.6129	* 1.6568	* 1.5615	* 1.3259	* 1.3098	* .7476	*
	* 2.3944	* 2.1263	* 1.9969	* 1.9969	* 1.9661	* 1.9246	* 3.7415	*
14	* 1.4940	* 1.5637	* 1.6161	* 1.5594	* .9992	* .7476	*	*
	* 2.2603	* 2.1172	* 2.0141	* 1.9810	* 2.9946	* 3.7415	*	*
15	* .7743	* .9832	* .7540	* .7583	* F-SUB-Q			
	* 4.3187	* 3.4132	* 4.4876	* 4.3638	* M-SUB-Q			

AT 50% POWER, 4 EFPD, THIS IS LEVEL 15 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9821	* 1.6108	* 1.7061	* 1.5112	* 1.5347	* 1.3741	* 1.4919	* .7733
	* 3.2582	* 2.3089	* 2.2309	* 2.4857	* 2.4484	* 2.6194	* 2.4523	* 4.6715
9	* 1.6108	* 1.5508	* 1.7029	* 1.6558	* 1.4823	* 1.6140	* 1.5669	* .9821
	* 2.3089	* 2.4180	* 2.2559	* 2.3066	* 2.5063	* 2.3043	* 2.3131	* 3.6872
10	* 1.7061	* 1.7029	* 1.6922	* 1.4758	* 1.6900	* 1.6654	* 1.6247	* .7540
	* 2.2309	* 2.2559	* 2.2714	* 2.5515	* 2.2106	* 2.2201	* 2.2543	* 4.8378
11	* 1.5112	* 1.6558	* 1.4737	* 1.4973	* 1.4459	* 1.5979	* 1.5883	* .7658
	* 2.4857	* 2.3066	* 2.5558	* 2.4510	* 2.4297	* 2.2159	* 2.2168	* 4.8429
12	* 1.5347	* 1.4823	* 1.6890	* 1.4448	* 1.2638	* 1.3934	* 1.0346	*
	* 2.4484	* 2.5050	* 2.2116	* 2.4310	* 2.2298	* 2.1953	* 3.3167	*
13	* 1.3741	* 1.6140	* 1.6654	* 1.5969	* 1.3923	* 1.4052	* .7872	*
	* 2.6194	* 2.3031	* 2.2212	* 2.2169	* 2.1953	* 2.1474	* 4.1325	*
14	* 1.4919	* 1.5669	* 1.6247	* 1.5883	* 1.0346	* .7872	*	*
	* 2.4523	* 2.3131	* 2.2543	* 2.2168	* 3.3167	* 4.1325	*	*
15	* .7733	* .9821	* .7540	* .7647	* F-SUB-Q			
	* 4.6715	* 3.6843	* 4.8378	* 4.8480	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 50% POWER, 4 EFPD, THIS IS LEVEL 14 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.0978	* 1.6579	* 1.7372	* 1.5380	* 1.5594	* 1.4052	* 1.5219	* .7850
	* 3.6014	* 2.5490	* 2.4458	* 2.6714	* 2.5873	* 2.7563	* 2.5603	* 4.8941
9	* 1.6579	* 1.5829	* 1.7265	* 1.6793	* 1.5230	* 1.6483	* 1.6119	* 1.0003
	* 2.5490	* 2.6498	* 2.4292	* 2.4665	* 2.6559	* 2.4292	* 2.4375	* 3.8713
10	* 1.7372	* 1.7254	* 1.7157	* 1.5069	* 1.7414	* 1.7125	* 1.6793	* .7743
	* 2.4458	* 2.4292	* 2.4522	* 2.7431	* 2.3855	* 2.3991	* 2.3819	* 5.0703
11	* 1.5380	* 1.6793	* 1.5037	* 1.5508	* 1.5197	* 1.6793	* 1.6665	* .7883
	* 2.6714	* 2.4665	* 2.7464	* 2.6953	* 2.6760	* 2.4330	* 2.4349	* 5.0981
12	* 1.5594	* 1.5230	* 1.7404	* 1.5176	* 1.4919	* 1.5455	* 1.0967	*
	* 2.5873	* 2.6559	* 2.3868	* 2.6792	* 2.4561	* 2.4247	* 3.6581	*
13	* 1.4052	* 1.6493	* 1.7115	* 1.6783	* 1.5455	* 1.5765	* .8493	*
	* 2.7563	* 2.4292	* 2.3991	* 2.4343	* 2.4247	* 2.3672	* 4.5583	*
14	* 1.5219	* 1.6129	* 1.6793	* 1.6665	* 1.0967	* .8493	*	*
	* 2.5603	* 2.4362	* 2.3819	* 2.4349	* 3.6581	* 4.5583	*	*
15	* .7850	* 1.0014	* .7743	* .7883	* F-SUB-Q			
	* 4.8941	* 3.8681	* 5.0758	* 5.1037	* M-SUB-Q			

AT 50% POWER, 4 EFPD, THIS IS LEVEL 13 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.1727	* 1.6783	* 1.7457	* 1.5433	* 1.5647	* 1.4159	* 1.5326	* .7883
	* 4.0720	* 2.8775	* 2.6464	* 2.9038	* 2.7734	* 2.9553	* 2.7234	* 5.2102
9	* 1.6783	* 1.5936	* 1.7286	* 1.6825	* 1.5433	* 1.6633	* 1.6333	* 1.0067
	* 2.8775	* 2.8804	* 2.6285	* 2.6629	* 2.8592	* 2.5964	* 2.6124	* 4.1223
10	* 1.7457	* 1.7286	* 1.7200	* 1.5165	* 1.7682	* 1.7479	* 1.7104	* .7840
	* 2.6464	* 2.6300	* 2.6524	* 2.9780	* 2.5511	* 2.5623	* 2.5565	* 5.3965
11	* 1.5433	* 1.6825	* 1.5133	* 1.5829	* 1.5669	* 1.7350	* 1.7168	* .8022
	* 2.9038	* 2.6629	* 2.9818	* 3.0031	* 2.9991	* 2.7061	* 2.6971	* 5.4595
12	* 1.5647	* 1.5433	* 1.7682	* 1.5658	* 1.6718	* 1.6729	* 1.1428	*
	* 2.7734	* 2.8592	* 2.5511	* 3.0010	* 2.7234	* 2.7049	* 4.0579	*
13	* 1.4159	* 1.6633	* 1.7468	* 1.7339	* 1.6718	* 1.7018	* .8975	*
	* 2.9553	* 2.5950	* 2.5623	* 2.7076	* 2.7065	* 2.6420	* 5.0581	*
14	* 1.5326	* 1.6333	* 1.7104	* 1.7157	* 1.1428	* .8975	*	*
	* 2.7234	* 2.6124	* 2.5565	* 2.6971	* 4.0579	* 5.0581	*	*
15	* .7883	* 1.0078	* .7829	* .8011	* F-SUB-Q			
	* 5.2102	* 4.1186	* 5.3965	* 5.4595	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 50% POWER, 4 EFPD, THIS IS LEVEL 10 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.1802	* 1.6868	* 1.7468	* 1.5487	* 1.5722	* 1.4384	* 1.5572	* .7936
	* 4.1243	* 2.8223	* 2.6031	* 2.8619	* 2.7641	* 2.9819	* 2.7415	* 5.2854
9	* 1.6868	* 1.6022	* 1.7297	* 1.6858	* 1.5808	* 1.6943	* 1.6772	* 1.0196
	* 2.8223	* 2.8257	* 2.5859	* 2.6264	* 2.8601	* 2.6133	* 2.6368	* 4.1981
10	* 1.7468	* 1.7286	* 1.7232	* 1.5305	* 1.8336	* 1.8111	* 1.7757	* .7979
	* 2.6031	* 2.5859	* 2.6075	* 2.9334	* 2.5370	* 2.5760	* 2.5746	* 5.5023
11	* 1.5487	* 1.6847	* 1.5272	* 1.6408	* 1.6440	* 1.8239	* 1.8089	* .8257
	* 2.8619	* 2.6264	* 2.9389	* 2.9649	* 2.9705	* 2.6850	* 2.6943	* 5.5742
12	* 1.5722	* 1.5797	* 1.8314	* 1.6440	* 1.8196	* 1.8282	* 1.2134	*
	* 2.7641	* 2.8601	* 2.5370	* 2.9743	* 2.6989	* 2.6866	* 4.0356	*
13	* 1.4384	* 1.6943	* 1.8100	* 1.8218	* 1.8282	* 1.8721	* .9703	*
	* 2.9819	* 2.6133	* 2.5774	* 2.6866	* 2.6866	* 2.6220	* 5.0576	*
14	* 1.5572	* 1.6772	* 1.7746	* 1.8078	* 1.2134	* .9703	*	*
	* 2.7415	* 2.6353	* 2.5760	* 2.6958	* 4.0356	* 5.0576	*	*
15	* .7936	* 1.0196	* .7979	* .8247	* F-SUB-Q			
	* 5.2854	* 4.1943	* 5.5023	* 5.5808	* M-SUB-Q			

AT 50% POWER, 4 EFPD, THIS IS LEVEL 9 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.1706	* 1.6729	* 1.7339	* 1.5401	* 1.5647	* 1.4351	* 1.5530	* .7904
	* 3.9177	* 2.6652	* 2.4547	* 2.6896	* 2.5931	* 2.7854	* 2.5633	* 4.9561
9	* 1.6729	* 1.5926	* 1.7168	* 1.6740	* 1.5787	* 1.6890	* 1.6761	* 1.0153
	* 2.6652	* 2.6607	* 2.4394	* 2.4741	* 2.6835	* 2.4534	* 2.4676	* 3.9309
10	* 1.7339	* 1.7157	* 1.7115	* 1.5240	* 1.8336	* 1.8100	* 1.7757	* .7968
	* 2.4547	* 2.4394	* 2.4599	* 2.7576	* 2.3849	* 2.4218	* 2.4156	* 5.1351
11	* 1.5401	* 1.6740	* 1.5208	* 1.6408	* 1.6504	* 1.8250	* 1.8121	* .8236
	* 2.6896	* 2.4741	* 2.7625	* 2.7887	* 2.8155	* 2.5439	* 2.5480	* 5.2091
12	* 1.5647	* 1.5776	* 1.8314	* 1.6493	* 1.8261	* 1.8368	* 1.2145	*
	* 2.5931	* 2.6835	* 2.3861	* 2.8172	* 2.6031	* 2.5732	* 3.8283	*
13	* 1.4351	* 1.6890	* 1.8089	* 1.8239	* 1.8357	* 1.8828	* .9725	*
	* 2.7854	* 2.4534	* 2.4218	* 2.5466	* 2.5746	* 2.5139	* 4.8039	*
14	* 1.5530	* 1.6750	* 1.7757	* 1.8111	* 1.2145	* .9725	*	*
	* 2.5633	* 2.4663	* 2.4156	* 2.5494	* 3.8283	* 4.8039	*	*
15	* .7904	* 1.0153	* .7958	* .8225	* F-SUB-Q			
	* 4.9561	* 3.9309	* 5.1407	* 5.2149	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OF MARGIN) - NORMAL OPERATION

AT 50% POWER, 4 EFPD, THIS IS LEVEL 8 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	1.1545	1.6536	1.7147	1.5219	1.5497	1.4201	1.5390	.7829
	3.6667	2.4952	2.3030	2.5302	2.4381	2.6279	2.4143	4.6747
9	1.6536	1.5733	1.6986	1.6579	1.5637	1.6761	1.6579	1.0046
	2.4952	2.4978	2.2872	2.3212	2.5193	2.3030	2.3246	3.7073
10	1.7147	1.6975	1.6943	1.5069	1.8196	1.7982	1.7586	.7872
	2.3030	2.2884	2.3052	2.5902	2.2318	2.2685	2.2685	4.8436
11	1.5219	1.6568	1.5037	1.6301	1.6386	1.8143	1.7961	.8161
	2.5302	2.3212	2.5945	2.6060	2.6442	2.3873	2.3849	4.8890
12	1.5497	1.5637	1.8175	1.6376	1.8164	1.8239	1.2070	
	2.4381	2.5193	2.2328	2.6472	2.4458	2.4318	3.6048	
13	1.4201	1.6761	1.7971	1.8121	1.8228	1.8689	.9671	
	2.6279	2.3030	2.2696	2.3885	2.4318	2.3776	4.5435	
14	1.5390	1.6579	1.7586	1.7950	1.2059	.9671		
	2.4143	2.3246	2.2685	2.3861	3.6076	4.5435		
15	.7829	1.0057	.7861	.8150	F-SUB-Q			
	4.6747	3.7044	4.8486	4.8890	M-SUB-Q			

AT 50% POWER, 4 EFPD, THIS IS LEVEL 7 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	1.1578	1.6622	1.7254	1.5380	1.5637	1.4362	1.5551	.7861
	3.3453	2.2996	2.1266	2.3304	2.2554	2.4318	2.2371	4.3619
9	1.6622	1.5894	1.7104	1.6708	1.5819	1.6890	1.6793	1.0110
	2.2996	2.2973	2.1123	2.1441	2.3177	2.1305	2.1451	3.4485
10	1.7254	1.7093	1.7061	1.5240	1.8410	1.8143	1.7821	.7936
	2.1266	2.1132	2.1276	2.3825	2.0495	2.0943	2.0841	4.4870
11	1.5380	1.6708	1.5208	1.6451	1.6600	1.8325	1.8207	.8204
	2.3304	2.1441	2.3873	2.3885	2.3897	2.1659	2.1639	4.5216
12	1.5637	1.5819	1.8389	1.6590	1.8368	1.8496	1.2145	
	2.2554	2.3177	2.0513	2.3922	2.2339	2.2191	3.3029	
13	1.4362	1.6890	1.8132	1.8303	1.8496	1.8978	.9725	
	2.4318	2.1305	2.0943	2.1679	2.2202	2.1689	4.1906	
14	1.5551	1.6783	1.7811	1.8196	1.2145	.9725		
	2.2371	2.1441	2.0850	2.1649	3.3029	4.1906		
15	.7861	1.0110	.7925	.8193	F-SUB-Q			
	4.3619	3.4485	4.4913	4.5260	M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 50% POWER, 4 EFPD, THIS IS LEVEL 6 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	1.1503	1.6547	1.7200	1.5358	1.5626	1.4298	1.5497	.7808
	3.0919	2.1334	1.9887	2.1820	2.1161	2.2951	2.1104	4.1352
9	1.6547	1.5851	1.7072	1.6686	1.5787	1.6825	1.6697	1.0025
	2.1334	2.1470	1.9745	2.0057	2.1689	2.0023	2.0213	3.2661
10	1.7200	1.7061	1.7029	1.5219	1.8389	1.8089	1.7725	.7872
	1.9887	1.9754	1.9879	2.2265	1.9102	1.9580	1.9572	4.2398
11	1.5358	1.6686	1.5187	1.6440	1.6547	1.8261	1.8100	.8129
	2.1820	2.0066	2.2307	2.2045	2.2202	2.0092	2.0144	4.2552
12	1.5626	1.5787	1.8368	1.6536	1.8303	1.8410	1.2059	
	2.1161	2.1689	1.9110	2.2223	2.0486	2.0397	3.0596	
13	1.4298	1.6825	1.8068	1.8250	1.8410	1.8860	.9639	
	2.2951	2.0023	1.9580	2.0109	2.0406	1.9989	3.8629	
14	1.5497	1.6697	1.7714	1.8089	1.2059	.9639		
	2.1104	2.0213	1.9572	2.0152	3.0616	3.8661		
15	.7808	1.0035	.7861	.8118	F-SUB-Q			
	4.1352	3.2661	4.2436	4.2590	M-SUB-Q			

AT 50% POWER, 4 EFPD, THIS IS LEVEL 5 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	1.1256	1.6236	1.6911	1.5080	1.5433	1.3966	1.5176	.7647
	2.9781	2.0057	1.8940	2.0906	2.0222	2.2233	2.0397	4.0012
9	1.6236	1.5530	1.6815	1.6461	1.5487	1.6493	1.6226	.9768
	2.0057	2.0540	1.8811	1.9126	2.0758	1.9235	1.9613	3.1734
10	1.6911	1.6804	1.6783	1.4962	1.8068	1.7746	1.7190	.7636
	1.8940	1.8819	1.8925	2.1266	1.8170	1.8662	1.8933	4.1207
11	1.5080	1.6461	1.4930	1.6204	1.6140	1.7896	1.7543	.7893
	2.0906	1.9133	2.1314	2.0649	2.0953	1.9009	1.9212	4.1098
12	1.5433	1.5476	1.8046	1.6129	1.7918	1.7896	1.1749	
	2.0222	2.0758	1.8178	2.0981	1.9475	1.9540	2.9444	
13	1.3966	1.6493	1.7736	1.7875	1.7886	1.8239	.9382	
	2.2233	1.9235	1.8669	1.9025	1.9548	1.9220	3.7044	
14	1.5176	1.6226	1.7179	1.7532	1.1749	.9371		
	2.0397	1.9613	1.8940	1.9220	2.9444	3.7044		
15	.7647	.9768	.7626	.7893	F-SUB-Q			
	4.0012	3.1712	4.1243	4.1098	M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 50% POWER, 4 EFPD, THIS IS LEVEL 4 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	1.1181	1.6119	1.6858	1.5069	1.5658	1.3912	1.5165	.7583
	2.7351	1.8956	1.7887	1.9820	1.8925	2.1266	1.9443	3.8471
9	1.6119	1.5444	1.6836	1.6568	1.5476	1.6472	1.6001	.9628
	1.8956	1.9499	1.7778	1.8010	1.9630	1.8305	1.8849	3.0656
10	1.6858	1.6836	1.6804	1.5015	1.8111	1.7661	1.6868	.7518
	1.7887	1.7785	1.7880	2.0057	1.7036	1.7644	1.8213	3.9741
11	1.5069	1.6568	1.4973	1.6408	1.6054	1.7800	1.7200	.7743
	1.9820	1.8017	2.0109	1.9064	1.9638	1.7798	1.8355	3.9574
12	1.5658	1.5476	1.8089	1.6033	1.7864	1.7671	1.1578	
	1.8925	1.9630	1.7048	1.9662	1.8248	1.8573	2.7706	
13	1.3912	1.6472	1.7650	1.7779	1.7671	1.7886	.9200	
	2.1266	1.8305	1.7651	1.7819	1.8581	1.8456	3.5476	
14	1.5165	1.5990	1.6858	1.7190	1.1567	.9200		
	1.9443	1.8849	1.8220	1.8370	2.7723	3.5476		
15	.7583	.9639	.7508	.7733	F-SUB-Q			
	3.8471	3.0656	3.9809	3.9607	M-SUB-Q			

AT 50% POWER, 4 EFPD, THIS IS LEVEL 3 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	1.0656	1.5262	1.5926	1.4555	1.5690	1.3741	1.4748	.7283
	2.7240	1.8933	1.7969	1.9638	1.8114	2.0694	1.9212	3.8629
9	1.5262	1.4737	1.6097	1.6054	1.5026	1.5819	1.5123	.9146
	1.8933	1.9507	1.7825	1.7812	1.9299	1.8234	1.8963	3.1021
10	1.5926	1.6086	1.6011	1.4865	1.7479	1.6718	1.5744	.7176
	1.7969	1.7839	1.7948	1.9704	1.6780	1.7724	1.8566	3.9944
11	1.4555	1.6044	1.4791	1.6429	1.5530	1.6922	1.5926	.7304
	1.9638	1.7812	1.9737	1.8017	1.9330	1.7785	1.8872	4.0046
12	1.5690	1.5026	1.7457	1.5519	1.7543	1.6847	1.0967	
	1.8114	1.9307	1.6792	1.9354	1.7345	1.8220	2.7657	
13	1.3741	1.5819	1.6708	1.6911	1.6847	1.6697	.8643	
	2.0694	1.8234	1.7731	1.7805	1.8227	1.8493	3.5449	
14	1.4748	1.5123	1.5744	1.5915	1.0967	.8643		
	1.9212	1.8963	1.8573	1.8887	2.7674	3.5476		
15	.7283	.9146	.7176	.7294	F-SUB-Q			
	3.8629	3.1000	3.9978	4.0081	M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 50% POWER, 4 EFPD, THIS IS LEVEL 2 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9093	* 1.2702	* 1.3377	* 1.5165	* 1.4287	* 1.4587	* 1.3120	* .6330
	* 3.0497	* 2.1840	* 2.0640	* 1.8100	* 1.9228	* 1.8796	* 2.0906	* 4.3099
9	* 1.2702	* 1.4555	* 1.3388	* 1.4041	* 1.5444	* 1.3441	* 1.3987	* .7850
	* 2.1840	* 1.9017	* 2.0703	* 1.9712	* 1.7948	* 2.0630	* 1.9829	* 3.4973
10	* 1.3377	* 1.3377	* 1.3891	* 1.5819	* 1.5037	* 1.3709	* 1.4052	* .6276
	* 2.0640	* 2.0712	* 2.0075	* 1.7792	* 1.8744	* 2.0740	* 1.9955	* 4.4111
11	* 1.5165	* 1.4030	* 1.5754	* 1.4962	* 1.6226	* 1.4405	* 1.3355	* .6287
	* 1.8100	* 1.9695	* 1.7853	* 1.9002	* 1.7832	* 2.0230	* 2.1510	* 4.4827
12	* 1.4287	* 1.5444	* 1.5015	* 1.6204	* 1.5701	* 1.5647	* .9543	
	* 1.9228	* 1.7948	* 1.8759	* 1.7866	* 1.8551	* 1.8744	* 3.0596	
13	* 1.4587	* 1.3452	* 1.3698	* 1.4394	* 1.5637	* 1.3923	* .7326	
	* 1.8796	* 2.0621	* 2.0749	* 2.0248	* 1.8751	* 2.1189	* 4.0115	
14	* 1.3120	* 1.3987	* 1.4041	* 1.3345	* .9532	* .7326		
	* 2.0906	* 1.9829	* 1.9964	* 2.1520	* 3.0616	* 4.0115		
15	* .6330	* .7850	* .6265	* .6287	* F-SUB-Q			
	* 4.3099	* 3.4973	* 4.4111	* 4.4870	* M-SUB-Q			

AT 50% POWER, 4 EFPD, THIS IS LEVEL 1 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .6190	* .5216	* .5666	* .6501	* .6062	* .6255	* .5441	* .4263
	* 4.3099	* 5.0960	* 4.6747	* 4.0531	* 4.3579	* 4.2094	* 4.8386	* 6.2000
9	* .5216	* .6019	* .5419	* .6115	* .6619	* .5901	* .5462	* .3491
	* 5.0960	* 4.4070	* 4.9095	* 4.3701	* 4.0218	* 4.4785	* 4.8536	* 7.5701
10	* .5666	* .5419	* .6223	* .6812	* .6394	* .5591	* .5419	* .4391
	* 4.6747	* 4.9095	* 4.3178	* 3.9607	* 4.2552	* 4.8941	* 4.9561	* 6.0796
11	* .6501	* .6105	* .6779	* .6458	* .6919	* .5998	* .5055	* .2967
	* 4.0531	* 4.3741	* 3.9708	* 4.2668	* 3.9809	* 4.6654	* 5.4322	* 9.1490
12	* .6062	* .6608	* .6362	* .6919	* .6555	* .6115	* .4466	
	* 4.3579	* 4.0218	* 4.2706	* 3.9910	* 4.2321	* 4.5879	* 6.2663	
13	* .6255	* .5912	* .5591	* .5998	* .6115	* .5441	* .3320	
	* 4.2094	* 4.4742	* 4.8992	* 4.6701	* 4.5924	* 5.1861	* 8.5026	
14	* .5441	* .5462	* .5419	* .5055	* .4466	* .3320		
	* 4.8386	* 4.8486	* 4.9561	* 5.4322	* 6.2746	* 8.5026		
15	* .4263	* .3491	* .4391	* .2967	* F-SUB-Q			
	* 6.2000	* 7.5701	* 6.0796	* 9.1669	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 50% POWER, 50 EFPD, THIS IS LEVEL 24 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	.4059	.3952	.4166	.4284	.3952	.3845	.3491	.3149
	4.2895	5.3275	5.3471	5.1782	5.8358	5.8560	6.6352	7.3460
9	.3952	.4305	.4177	.4091	.4038	.3791	.3534	.2474
	5.3275	4.9131	5.3080	5.5736	5.4363	5.9264	6.1882	9.2106
10	.4166	.4177	.4102	.4102	.3845	.3641	.3470	.3020
	5.3471	5.3080	5.4590	5.2469	5.6270	5.8784	6.0929	7.3797
11	.4284	.4091	.4091	.3759	.3427	.3309	.3042	.1992
	5.1782	5.5736	5.2515	5.5938	5.2982	5.7902	6.3308	10.4181
12	.3952	.4038	.3845	.3427	.2667	.2538	.2442	
	5.8358	5.4363	5.6270	5.2982	5.5299	5.5886	7.1261	
13	.3845	.3791	.3631	.3309	.2538	.2163	.1639	
	5.8560	5.9264	5.8784	5.7902	5.5886	6.1802	9.4178	
14	.3491	.3534	.3470	.3042	.2442	.1639		
	6.6352	6.1818	6.0929	6.3308	7.1261	9.4178		
15	.3149	.2485	.3020	.1992	F-SUB-Q			
	7.3460	9.1969	7.3797	10.4181	M-SUB-Q			

AT 50% POWER, 50 EFPD, THIS IS LEVEL 23 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	.5698	.9585	1.0271	.8857	.9339	.7733	.8322	.4637
	2.9554	2.2611	2.2209	2.5861	2.5719	3.0087	2.8892	5.1753
9	.9585	.9039	1.0378	1.0067	.8097	.9114	.8172	.5569
	2.2611	2.4725	2.2395	2.3523	2.7358	2.5406	2.7849	4.2432
10	1.0271	1.0378	1.0249	.8589	.9328	.9189	.8129	.4209
	2.2209	2.2398	2.2724	2.6289	2.3794	2.4051	2.6644	5.4238
11	.8857	1.0067	.8579	.8654	.7358	.8161	.7497	.4198
	2.5861	2.3514	2.6322	2.4755	2.6705	2.4239	2.6379	5.1312
12	.9339	.8118	.9328	.7358	.5858	.6169	.5152	
	2.5719	2.7358	2.3798	2.6710	2.3984	2.5167	3.5310	
13	.7733	.9125	.9189	.8161	.6169	.5473	.3620	
	3.0087	2.5391	2.4051	2.4239	2.5167	2.5931	4.4650	
14	.8322	.8182	.8140	.7497	.5162	.3620		
	2.8892	2.7831	2.6644	2.6368	3.5310	4.4650		
15	.4637	.5580	.4209	.4198	F-SUB-Q			
	5.1753	4.2391	5.4238	5.1312	M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 50% POWER, 50 EFPD, THIS IS LEVEL 22 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .7176	* 1.2177	* 1.3088	* 1.1503	* 1.1888	* 1.0067	* 1.0742	* .5837
	* 2.4769	* 1.8484	* 1.8064	* 2.0583	* 2.0920	* 2.3883	* 2.3131	* 4.2377
9	* 1.2177	* 1.1717	* 1.3184	* 1.2820	* 1.0624	* 1.1770	* 1.0892	* .7165
	* 1.8484	* 1.9713	* 1.8238	* 1.9093	* 2.1560	* 2.0341	* 2.1578	* 3.4165
10	* 1.3088	* 1.3184	* 1.3045	* 1.1149	* 1.2038	* 1.1899	* 1.0913	* .5366
	* 1.8064	* 1.8238	* 1.8447	* 2.0907	* 1.9072	* 1.9178	* 2.0473	* 4.3954
11	* 1.1503	* 1.2820	* 1.1138	* 1.1042	* .9714	* 1.0635	* 1.0110	* .5344
	* 2.0583	* 1.9093	* 2.0937	* 2.0100	* 2.0953	* 1.9304	* 2.0260	* 4.1707
12	* 1.1888	* 1.0624	* 1.2038	* .9714	* .7668	* .8311	* .6640	*
	* 2.0920	* 2.1549	* 1.9072	* 2.0960	* 1.9164	* 1.9372	* 2.8529	*
13	* 1.0067	* 1.1781	* 1.1899	* 1.0635	* .8311	* .7540	* .4723	*
	* 2.3883	* 2.0331	* 1.9178	* 1.9313	* 1.9372	* 1.9746	* 3.5693	*
14	* 1.0742	* 1.0903	* 1.0913	* 1.0110	* .6640	* .4723	*	*
	* 2.3131	* 2.1567	* 2.0473	* 2.0260	* 2.8529	* 3.5693	*	*
15	* .5837	* .7176	* .5366	* .5344	* F-SUB-Q			
	* 4.2377	* 3.4120	* 4.3954	* 4.1746	* M-SUB-Q			

AT 50% POWER, 50 EFPD, THIS IS LEVEL 21 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .8257	* 1.3912	* 1.4973	* 1.3462	* 1.3869	* 1.2006	* 1.2659	* .6704
	* 2.3021	* 1.6921	* 1.6527	* 1.8290	* 1.8638	* 2.0770	* 2.0381	* 3.8319
9	* 1.3912	* 1.3677	* 1.5037	* 1.4737	* 1.2616	* 1.3720	* 1.3120	* .8365
	* 1.6921	* 1.7581	* 1.6666	* 1.7293	* 1.8888	* 1.8193	* 1.8611	* 3.0300
10	* 1.4973	* 1.5037	* 1.4908	* 1.3088	* 1.4084	* 1.3837	* 1.3173	* .6287
	* 1.6527	* 1.6668	* 1.6814	* 1.8533	* 1.6965	* 1.7158	* 1.7653	* 3.9153
11	* 1.3462	* 1.4737	* 1.3066	* 1.2927	* 1.1610	* 1.2509	* 1.2209	* .6244
	* 1.8290	* 1.7293	* 1.8565	* 1.7881	* 1.8203	* 1.7141	* 1.7514	* 3.7350
12	* 1.3869	* 1.2627	* 1.4084	* 1.1610	* .9286	* 1.0110	* .7797	*
	* 1.8638	* 1.8880	* 1.6972	* 1.8205	* 1.6868	* 1.6608	* 2.5483	*
13	* 1.2006	* 1.3720	* 1.3837	* 1.2509	* 1.0110	* .9339	* .5591	*
	* 2.0770	* 1.8185	* 1.7165	* 1.7147	* 1.6608	* 1.6856	* 3.1752	*
14	* 1.2659	* 1.3120	* 1.3173	* 1.2209	* .7797	* .5591	*	*
	* 2.0381	* 1.8602	* 1.7653	* 1.7514	* 2.5483	* 3.1752	*	*
15	* .6704	* .8375	* .6287	* .6244	* F-SUB-Q			
	* 3.8319	* 3.0259	* 3.9164	* 3.7350	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 50% POWER, 50 EFPD, THIS IS LEVEL 20 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .8718	* 1.4651	* 1.5776	* 1.4416	* 1.4898	* 1.3098	* 1.3720	* .7165
	* 2.3325	* 1.6981	* 1.6529	* 1.7862	* 1.8159	* 1.9914	* 1.9702	* 3.7599
9	* 1.4651	* 1.4587	* 1.5829	* 1.5626	* 1.3720	* 1.4726	* 1.4373	* .9007
	* 1.6981	* 1.7276	* 1.6640	* 1.7078	* 1.8201	* 1.7748	* 1.7752	* 2.9417
10	* 1.5776	* 1.5829	* 1.5712	* 1.4052	* 1.5187	* 1.4844	* 1.4448	* .6812
	* 1.6529	* 1.6646	* 1.6727	* 1.8056	* 1.6563	* 1.6831	* 1.6910	* 3.7950
11	* 1.4416	* 1.5626	* 1.4030	* 1.3934	* 1.2691	* 1.3537	* 1.3430	* .6747
	* 1.7862	* 1.7078	* 1.8086	* 1.7423	* 1.7408	* 1.6733	* 1.6811	* 3.6552
12	* 1.4898	* 1.3730	* 1.5187	* 1.2681	* 1.0239	* 1.1181		* .8461
	* 1.8159	* 1.8193	* 1.6573	* 1.7413	* 1.6330	* 1.5841		* 2.4913
13	* 1.3098	* 1.4737	* 1.4855	* 1.3527	* 1.1181	* 1.0474		* .6115
	* 1.9914	* 1.7741	* 1.6836	* 1.6737	* 1.5841	* 1.6040		* 3.0951
14	* 1.3720	* 1.4384	* 1.4448	* 1.3430	* .8461	* .6115		
	* 1.9702	* 1.7744	* 1.6910	* 1.6811	* 2.4913	* 3.0951		
15	* .7165	* .9018	* .6812	* .6737	* F-SUB-Q			
	* 3.7599	* 2.9398	* 3.7950	* 3.6552	* M-SUB-Q			

AT 50% POWER, 50 EFPD, THIS IS LEVEL 19 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .8932	* 1.4962	* 1.6161	* 1.4898	* 1.5487	* 1.3741	* 1.4373	* .7465
	* 2.4305	* 1.7627	* 1.7163	* 1.8293	* 1.8541	* 2.0100	* 1.9963	* 3.8361
9	* 1.4962	* 1.5026	* 1.6204	* 1.6065	* 1.4384	* 1.5337	* 1.5133	* .9403
	* 1.7627	* 1.7747	* 1.7242	* 1.7613	* 1.8379	* 1.8087	* 1.7856	* 2.9905
10	* 1.6161	* 1.6204	* 1.6097	* 1.4576	* 1.5851	* 1.5455	* 1.5240	* .7154
	* 1.7163	* 1.7249	* 1.7315	* 1.8425	* 1.6823	* 1.7144	* 1.6969	* 3.8361
11	* 1.4898	* 1.6065	* 1.4555	* 1.4533	* 1.3366	* 1.4180	* 1.4191	* .7069
	* 1.8293	* 1.7613	* 1.8465	* 1.7752	* 1.7581	* 1.7040	* 1.6942	* 3.7067
12	* 1.5487	* 1.4394	* 1.5851	* 1.3355	* 1.0828	* 1.1888		* .8911
	* 1.8541	* 1.8379	* 1.6830	* 1.7586	* 1.6612	* 1.5977		* 2.5459
13	* 1.3741	* 1.5337	* 1.5455	* 1.4180	* 1.1888	* 1.1235		* .6490
	* 2.0100	* 1.8080	* 1.7150	* 1.7046	* 1.5977	* 1.6162		* 3.1603
14	* 1.4373	* 1.5133	* 1.5240	* 1.4191	* .8911			* .6490
	* 1.9963	* 1.7856	* 1.6975	* 1.6949	* 2.5459			* 3.1603
15	* .7465	* .9414	* .7154	* .7069	* F-SUB-Q			
	* 3.8361	* 2.9885	* 3.8361	* 3.7097	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 50% POWER, 50 EFPD, THIS IS LEVEL 18 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9093	* 1.5283	* 1.6536	* 1.5326	* 1.6022	* 1.4309	* 1.4983	* .7743
	* 2.5888	* 1.8616	* 1.8110	* 1.9112	* 1.9281	* 2.0721	* 2.0595	* 3.9513
9	* 1.5283	* 1.5433	* 1.6590	* 1.6504	* 1.4994	* 1.5915	* 1.5819	* .9789
	* 1.8616	* 1.8590	* 1.8153	* 1.8457	* 1.8970	* 1.8762	* 1.8355	* 3.0941
10	* 1.6536	* 1.6590	* 1.6493	* 1.5048	* 1.6515	* 1.6065	* 1.5969	* .7454
	* 1.8110	* 1.8153	* 1.8205	* 1.9196	* 1.7401	* 1.7762	* 1.7422	* 3.9658
11	* 1.5326	* 1.6504	* 1.5026	* 1.5112	* 1.4009	* 1.4844	* 1.4919	* .7379
	* 1.9112	* 1.8457	* 1.9230	* 1.8344	* 1.8035	* 1.7569	* 1.7387	* 3.8349
12	* 1.6022	* 1.4994	* 1.6504	* 1.3998	* 1.1385	* 1.2574		* .9371
	* 1.9281	* 1.8962	* 1.7414	* 1.8043	* 1.7125	* 1.6387		* 2.6278
13	* 1.4309	* 1.5926	* 1.6065	* 1.4833	* 1.2574	* 1.1984		* .6876
	* 2.0721	* 1.8762	* 1.7769	* 1.7576	* 1.6387	* 1.6586		* 3.2658
14	* 1.4983	* 1.5819	* 1.5969	* 1.4919	* .9371	* .6876		
	* 2.0595	* 1.8347	* 1.7422	* 1.7394	* 2.6293	* 3.2658		
15	* .7743	* .9800	* .7454	* .7379	F-SUB-Q			
	* 3.9513	* 3.0920	* 3.9693	* 3.8382	M-SUB-Q			

AT 50% POWER, 50 EFPD, THIS IS LEVEL 17 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9125	* 1.5358	* 1.6622	* 1.5530	* 1.6247	* 1.4630	* 1.5305	* .7861
	* 2.8657	* 2.0394	* 1.9792	* 2.0716	* 2.0765	* 2.2142	* 2.1711	* 4.1886
9	* 1.5358	* 1.5615	* 1.6675	* 1.6643	* 1.5369	* 1.6194	* 1.6247	* .9971
	* 2.0394	* 2.0212	* 1.9792	* 2.0036	* 2.0342	* 2.0195	* 1.9599	* 3.3102
10	* 1.6622	* 1.6675	* 1.6600	* 1.5283	* 1.6879	* 1.6376	* 1.6461	* .7636
	* 1.9792	* 1.9801	* 1.9827	* 2.0658	* 1.8674	* 1.9112	* 1.8596	* 4.2478
11	* 1.5530	* 1.6643	* 1.5262	* 1.5444	* 1.4469	* 1.5283	* 1.5455	* .7572
	* 2.0716	* 2.0036	* 2.0736	* 1.9732	* 1.9307	* 1.8836	* 1.8581	* 4.1137
12	* 1.6247	* 1.5369	* 1.6879	* 1.4459	* 1.1824	* 1.3195		* .9725
	* 2.0765	* 2.0342	* 1.8690	* 1.9315	* 1.8403	* 1.7515		* 2.8214
13	* 1.4630	* 1.6204	* 1.6376	* 1.5272	* 1.3195	* 1.2691		* .7197
	* 2.2142	* 2.0186	* 1.9121	* 1.8844	* 1.7515	* 1.7684		* 3.5066
14	* 1.5305	* 1.6247	* 1.6461	* 1.5455	* .9725	* .7197		
	* 2.1711	* 1.9590	* 1.8604	* 1.8581	* 2.8214	* 3.5066		
15	* .7861	* .9982	* .7626	* .7561	F-SUB-Q			
	* 4.1886	* 3.3078	* 4.2478	* 4.1174	M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 50% POWER, 50 EFPD, THIS IS LEVEL 16 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	.9339	1.5594	1.6793	1.5744	1.6504	1.4930	1.5637	.8011
	3.1508	2.2340	2.1634	2.2656	2.2146	2.3466	2.2817	4.3973
9	1.5594	1.5840	1.6858	1.6847	1.5744	1.6536	1.6643	1.0185
	2.2340	2.2194	2.1604	2.1768	2.2117	2.1799	2.0973	3.4752
10	1.6793	1.6847	1.6793	1.5551	1.7329	1.6772	1.6943	.7829
	2.1634	2.1604	2.1624	2.2564	2.0250	2.0763	2.0204	4.5498
11	1.5744	1.6847	1.5530	1.5894	1.5037	1.5883	1.6044	.7786
	2.2656	2.1768	2.2644	2.1513	2.1165	2.0515	2.0287	4.4441
12	1.6504	1.5754	1.7329	1.5026	1.2520	1.4052	1.0196	
	2.2146	2.2117	2.0268	2.1165	2.0058	1.9182	3.0732	
13	1.4930	1.6536	1.6772	1.5872	1.4052	1.3666	.7658	
	2.3466	2.1799	2.0773	2.0525	1.9182	1.9357	3.8166	
14	1.5637	1.6654	1.6943	1.6033	1.0196	.7658		
	2.2817	2.0964	2.0204	2.0287	3.0732	3.8166		
15	.8011	1.0185	.7829	.7786	F-SUB-Q			
	4.3973	3.4726	4.5543	4.4441	M-SUB-Q			

AT 50% POWER, 50 EFPD, THIS IS LEVEL 15 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	.9768	1.5647	1.6675	1.5626	1.6418	1.4876	1.5604	.8000
	3.5704	2.5137	2.4278	2.5287	2.4113	2.5631	2.4706	4.7483
9	1.5647	1.5754	1.6740	1.6729	1.5787	1.6558	1.6643	1.0174
	2.5137	2.5091	2.4164	2.4025	2.4816	2.3754	2.2873	3.7440
10	1.6675	1.6740	1.6697	1.5487	1.7447	1.6879	1.7040	.7840
	2.4278	2.4164	2.4214	2.5301	2.2493	2.3077	2.2622	4.9046
11	1.5626	1.6729	1.5465	1.6086	1.5380	1.6301	1.6301	.7872
	2.5287	2.4025	2.5387	2.3877	2.3699	2.2770	2.2690	4.9255
12	1.6418	1.5797	1.7436	1.5369	1.3698	1.4983	1.0581	
	2.4113	2.4816	2.2515	2.3712	2.2298	2.1525	3.4072	
13	1.4876	1.6558	1.6879	1.6290	1.4983	1.4737	.8086	
	2.5631	2.3742	2.3089	2.2782	2.1536	2.1763	4.2386	
14	1.5604	1.6643	1.7040	1.6301	1.0571	.8086		
	2.4706	2.2873	2.2622	2.2702	3.4097	4.2386		
15	.8000	1.0185	.7829	.7861	F-SUB-Q			
	4.7483	3.7440	4.9046	4.9255	M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 50% POWER, 50 EFPD, THIS IS LEVEL 14 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	1.0839	1.6054	1.6868	1.5883	1.6665	1.5187	1.5915	.8118
	3.9335	2.7708	2.5960	2.6996	2.5393	2.6886	2.5744	4.9673
9	1.6054	1.6065	1.6933	1.6943	1.6226	1.6868	1.7082	1.0357
	2.7708	2.7301	2.5816	2.5574	2.6256	2.5010	2.4044	3.9236
10	1.6868	1.6922	1.6911	1.5808	1.7950	1.7286	1.7607	.8043
	2.5960	2.5830	2.6047	2.7399	2.4394	2.4984	2.3894	5.1262
11	1.5883	1.6943	1.5776	1.6654	1.6151	1.7104	1.7050	.8097
	2.6996	2.5560	2.7431	2.6268	2.6181	2.5051	2.4917	5.2241
12	1.6665	1.6226	1.7939	1.6140	1.6322	1.6654	1.1192	
	2.5393	2.6256	2.4394	2.6196	2.4522	2.3745	3.7586	
13	1.5187	1.6879	1.7286	1.7093	1.6654	1.6461	.8697	
	2.6886	2.5010	2.4984	2.5078	2.3745	2.3956	4.6728	
14	1.5915	1.7082	1.7597	1.7050	1.1192	.8697		
	2.5744	2.4031	2.3894	2.4931	3.7586	4.6728		
15	.8118	1.0367	.8043	.8086	F-SUB-Q			
	4.9673	3.9203	5.1318	5.2241	M-SUB-Q			

AT 50% POWER, 50 EFPD, THIS IS LEVEL 13 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	1.1256	1.6161	1.6847	1.5894	1.6686	1.5251	1.5990	.8129
	4.2964	3.0303	2.7966	2.9165	2.7108	2.8716	2.7297	5.2689
9	1.6161	1.6108	1.6922	1.6922	1.6386	1.6965	1.7222	1.0399
	3.0303	2.9591	2.7800	2.7458	2.8160	2.6644	2.5678	4.1589
10	1.6847	1.6911	1.6900	1.5904	1.8164	1.7554	1.7843	.8118
	2.7966	2.7817	2.8067	2.9591	2.6008	2.6629	2.5565	5.4341
11	1.5894	1.6922	1.5840	1.6943	1.6590	1.7586	1.7500	.8204
	2.9165	2.7458	2.9610	2.8477	2.8610	2.7250	2.7463	5.5700
12	1.6686	1.6386	1.8153	1.6579	1.7704	1.7918	1.1610	
	2.7108	2.8160	2.6008	2.8627	2.6569	2.6051	4.1006	
13	1.5251	1.6965	1.7543	1.7575	1.7918	1.7607	.9136	
	2.8716	2.6644	2.6629	2.7266	2.6051	2.6405	5.1302	
14	1.5990	1.7222	1.7843	1.7489	1.1610	.9136		
	2.7297	2.5678	2.5565	2.7480	4.1042	5.1359		
15	.8129	1.0410	.8107	.8204	F-SUB-Q			
	5.2689	4.1589	5.4404	5.5766	M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 50% POWER, 50 EFPD, THIS IS LEVEL 12 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.1224	* 1.6001	* 1.6622	* 1.5690	* 1.6504	* 1.5101	* 1.5851	* .8054
	* 4.3905	* 3.0980	* 2.8532	* 2.9952	* 2.7970	* 3.0202	* 2.8636	* 5.5742
9	* 1.6001	* 1.5904	* 1.6718	* 1.6718	* 1.6301	* 1.6847	* 1.7093	* 1.0324
	* 3.0980	* 3.0222	* 2.8376	* 2.8104	* 2.9352	* 2.7871	* 2.7098	* 4.4236
10	* 1.6622	* 1.6708	* 1.6697	* 1.5936	* 1.8143	* 1.7575	* 1.7800	* .8075
	* 2.8532	* 2.8376	* 2.8601	* 3.0378	* 2.6974	* 2.7871	* 2.7020	* 5.7659
11	* 1.5690	* 1.6718	* 1.5872	* 1.7007	* 1.6761	* 1.7746	* 1.7586	* .8204
	* 2.9952	* 2.8104	* 3.0418	* 2.8865	* 2.9062	* 2.7592	* 2.7937	* 5.9335
12	* 1.6504	* 1.6301	* 1.8132	* 1.6750	* 1.8111	* 1.8368	* 1.1770	*
	* 2.7970	* 2.9352	* 2.6989	* 2.9080	* 2.6896	* 2.6457	* 4.1498	*
13	* 1.5101	* 1.6858	* 1.7564	* 1.7725	* 1.8357	* 1.8068	* .9350	*
	* 3.0202	* 2.7871	* 2.7887	* 2.7608	* 2.6472	* 2.6820	* 5.1919	*
14	* 1.5851	* 1.7093	* 1.7789	* 1.7575	* 1.1770	* .9339	*	*
	* 2.8636	* 2.7098	* 2.7020	* 2.7937	* 4.1535	* 5.1919	*	*
15	* .8054	* 1.0324	* .8075	* .8193	F-SUB-Q			
	* 5.5742	* 4.4194	* 5.7730	* 5.9335	M-SUB-Q			

AT 50% POWER, 50 EFPD, THIS IS LEVEL 11 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.1235	* 1.6076	* 1.6697	* 1.5797	* 1.6633	* 1.5272	* 1.6044	* .8129
	* 4.3741	* 3.0125	* 2.7287	* 2.8601	* 2.6713	* 2.8759	* 2.7272	* 5.3274
9	* 1.6076	* 1.6022	* 1.6815	* 1.6815	* 1.6526	* 1.7040	* 1.7350	* 1.0432
	* 3.0125	* 2.8847	* 2.7145	* 2.6866	* 2.7954	* 2.6592	* 2.5760	* 4.2207
10	* 1.6697	* 1.6804	* 1.6793	* 1.6215	* 1.8464	* 1.7864	* 1.8132	* .8172
	* 2.7287	* 2.7145	* 2.7351	* 2.8972	* 2.5675	* 2.6577	* 2.5661	* 5.5087
11	* 1.5797	* 1.6815	* 1.6151	* 1.7329	* 1.7254	* 1.8153	* 1.7993	* .8322
	* 2.8601	* 2.6866	* 2.9026	* 2.8532	* 2.8549	* 2.7161	* 2.7479	* 5.6616
12	* 1.6633	* 1.6526	* 1.8443	* 1.7243	* 1.8614	* 1.8967	* 1.2049	*
	* 2.6713	* 2.7954	* 2.5689	* 2.8566	* 2.6457	* 2.5931	* 4.0919	*
13	* 1.5272	* 1.7040	* 1.7854	* 1.8143	* 1.8957	* 1.8700	* .9618	*
	* 2.8759	* 2.6592	* 2.6577	* 2.7177	* 2.5945	* 2.6250	* 5.1071	*
14	* 1.6044	* 1.7350	* 1.8132	* 1.7982	* 1.2049	* .9618	*	*
	* 2.7272	* 2.5760	* 2.5661	* 2.7479	* 4.0919	* 5.1071	*	*
15	* .8129	* 1.0432	* .8161	* .8322	F-SUB-Q			
	* 5.3274	* 4.2207	* 5.5087	* 5.6684	M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 50% POWER, 50 EFPD, THIS IS LEVEL 10 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	1.1042	1.5883	1.6504	1.5679	1.6504	1.5240	1.5990	.8065
	4.3418	2.9297	2.6577	2.7739	2.5902	2.7674	2.6250	5.1183
9	1.5883	1.5894	1.6633	1.6654	1.6493	1.6943	1.7339	1.0367
	2.9297	2.7987	2.6427	2.6133	2.7052	2.5802	2.4833	4.0566
10	1.6504	1.6622	1.6611	1.6215	1.8443	1.7811	1.8175	.8129
	2.6577	2.6442	2.6622	2.8104	2.4859	2.5788	2.4767	5.3033
11	1.5679	1.6654	1.6151	1.7329	1.7372	1.8218	1.8078	.8300
	2.7739	2.6147	2.8138	2.7887	2.8172	2.6850	2.6682	5.4638
12	1.6504	1.6493	1.8432	1.7361	1.8710	1.9139	1.2081	
	2.5902	2.7052	2.4872	2.8189	2.6162	2.5591	4.0356	
13	1.5240	1.6943	1.7800	1.8207	1.9139	1.8914	.9660	
	2.7674	2.5802	2.5788	2.6866	2.5605	2.5902	5.0630	
14	1.5990	1.7339	1.8164	1.8068	1.2070	.9660		
	2.6250	2.4820	2.4767	2.6698	4.0356	5.0685		
15	.8065	1.0378	.8129	.8300	F-SUB-Q			
	5.1183	4.0566	5.3093	5.4702	M-SUB-Q			

AT 50% POWER, 50 EFPD, THIS IS LEVEL 9 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	1.0839	1.5594	1.6226	1.5444	1.6268	1.5069	1.5797	.7947
	4.1645	2.7772	2.5179	2.6235	2.4522	2.6176	2.4846	4.8536
9	1.5594	1.5647	1.6365	1.6386	1.6322	1.6729	1.7147	1.0228
	2.7772	2.6487	2.5045	2.4754	2.5563	2.4394	2.3455	3.8471
10	1.6226	1.6354	1.6343	1.6065	1.8271	1.7629	1.8014	.8043
	2.5179	2.5058	2.5234	2.6577	2.3538	2.4381	2.3374	5.0144
11	1.5444	1.6386	1.5990	1.7157	1.7275	1.8089	1.7939	.8204
	2.6235	2.4754	2.6607	2.6427	2.7130	2.5675	2.5234	5.1633
12	1.6268	1.6322	1.8250	1.7265	1.8593	1.9053	1.1974	
	2.4522	2.5549	2.3550	2.7145	2.5370	2.4702	3.8597	
13	1.5069	1.6729	1.7618	1.8078	1.9042	1.8839	.9596	
	2.6176	2.4381	2.4381	2.5689	2.4715	2.5005	4.8486	
14	1.5797	1.7147	1.8004	1.7929	1.1974	.9596		
	2.4846	2.3444	2.3374	2.5234	3.8629	4.8486		
15	.7947	1.0239	.8032	.8204	F-SUB-Q			
	4.8536	3.8439	5.0144	5.1633	M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 50% POWER, 50 EFPD, THIS IS LEVEL 8 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.0560	* 1.5230	* 1.5862	* 1.5069	* 1.5926	* 1.4737	* 1.5465	* .7786
	* 3.9507	* 2.6412	* 2.3995	* 2.5072	* 2.3397	* 2.5045	* 2.3740	* 4.6424
9	* 1.5230	* 1.5262	* 1.6001	* 1.6033	* 1.5969	* 1.6408	* 1.6772	* 1.0025
	* 2.6412	* 2.5274	* 2.3861	* 2.3585	* 2.4369	* 2.3223	* 2.2424	* 3.6754
10	* 1.5862	* 1.5990	* 1.5979	* 1.5733	* 1.7929	* 1.7307	* 1.7629	* .7861
	* 2.3995	* 2.3873	* 2.4020	* 2.5356	* 2.2371	* 2.3189	* 2.2286	* 4.7941
11	* 1.5069	* 1.6033	* 1.5658	* 1.6858	* 1.6954	* 1.7779	* 1.7564	* .8043
	* 2.5072	* 2.3585	* 2.5384	* 2.5058	* 2.5845	* 2.4407	* 2.3971	* 4.9146
12	* 1.5926	* 1.5969	* 1.7907	* 1.6943	* 1.8271	* 1.8700	* 1.1760	*
	* 2.3397	* 2.4369	* 2.2382	* 2.5873	* 2.4118	* 2.3609	* 3.6840	*
13	* 1.4737	* 1.6408	* 1.7286	* 1.7757	* 1.8689	* 1.8485	* .9436	*
	* 2.5045	* 2.3223	* 2.3189	* 2.4432	* 2.3621	* 2.3922	* 4.6378	*
14	* 1.5465	* 1.6772	* 1.7629	* 1.7564	* 1.1760	* .9436	*	*
	* 2.3740	* 2.2424	* 2.2286	* 2.3983	* 3.6840	* 4.6378	*	*
15	* .7786	* 1.0025	* .7850	* .8032	* F-SUB-Q			
	* 4.6424	* 3.6754	* 4.7990	* 4.9146	* M-SUB-Q			

AT 50% POWER, 50 EFPD, THIS IS LEVEL 7 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.0442	* 1.5069	* 1.5712	* 1.5015	* 1.5840	* 1.4705	* 1.5412	* .7711
	* 3.6582	* 2.4820	* 2.2586	* 2.3502	* 2.2035	* 2.3561	* 2.2371	* 4.4070
9	* 1.5069	* 1.5197	* 1.5872	* 1.5904	* 1.5936	* 1.6290	* 1.6750	* .9939
	* 2.4820	* 2.3668	* 2.2457	* 2.2202	* 2.2806	* 2.1881	* 2.1028	* 3.4792
10	* 1.5712	* 1.5851	* 1.5840	* 1.5712	* 1.7854	* 1.7190	* 1.7618	* .7818
	* 2.2586	* 2.2478	* 2.2597	* 2.3740	* 2.0925	* 2.1789	* 2.0823	* 4.5173
11	* 1.5015	* 1.5904	* 1.5637	* 1.6761	* 1.6943	* 1.7704	* 1.7564	* .7968
	* 2.3502	* 2.2202	* 2.3764	* 2.3397	* 2.3728	* 2.2543	* 2.2286	* 4.6241
12	* 1.5840	* 1.5936	* 1.7832	* 1.6933	* 1.8228	* 1.8710	* 1.1674	*
	* 2.2035	* 2.2806	* 2.0934	* 2.3764	* 2.2350	* 2.1860	* 3.4284	*
13	* 1.4705	* 1.6290	* 1.7179	* 1.7693	* 1.8700	* 1.8518	* .9361	*
	* 2.3561	* 2.1881	* 2.1800	* 2.2565	* 2.1860	* 2.2149	* 4.3377	*
14	* 1.5412	* 1.6750	* 1.7607	* 1.7554	* 1.1674	* .9361	*	*
	* 2.2371	* 2.1028	* 2.0823	* 2.2297	* 3.4309	* 4.3377	*	*
15	* .7711	* .9939	* .7808	* .7968	* F-SUB-Q			
	* 4.4070	* 3.4766	* 4.5216	* 4.6286	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 50% POWER, 50 EFPD, THIS IS LEVEL 6 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.0185	* 1.4737	* 1.5390	* 1.4716	* 1.5530	* 1.4384	* 1.5080	* .7529 *
	* 3.4485	* 2.3597	* 2.1589	* 2.2500	* 2.1123	* 2.2696	* 2.1539	* 4.2590 *
9	* 1.4737	* 1.4876	* 1.5551	* 1.5594	* 1.5615	* 1.5936	* 1.6376	* .9693 *
	* 2.3597	* 2.2597	* 2.1451	* 2.1228	* 2.1800	* 2.1000	* 2.0230	* 3.3597 *
10	* 1.5390	* 1.5530	* 1.5519	* 1.5401	* 1.7500	* 1.6825	* 1.7222	* .7626 *
	* 2.1589	* 2.1470	* 2.1579	* 2.2674	* 1.9930	* 2.0832	* 1.9938	* 4.3538 *
11	* 1.4716	* 1.5594	* 1.5326	* 1.6429	* 1.6579	* 1.7329	* 1.7157	* .7765 *
	* 2.2500	* 2.1237	* 2.2707	* 2.2097	* 2.2457	* 2.1276	* 2.1151	* 4.4361 *
12	* 1.5530	* 1.5604	* 1.7479	* 1.6568	* 1.7854	* 1.8303	* 1.1395 *	
	* 2.1123	* 2.1800	* 1.9938	* 2.2478	* 2.0869	* 2.0495	* 3.2302 *	
13	* 1.4384	* 1.5947	* 1.6815	* 1.7318	* 1.8293	* 1.8089	* .9125 *	
	* 2.2696	* 2.1000	* 2.0841	* 2.1295	* 2.0495	* 2.0813	* 4.0777 *	
14	* 1.5080	* 1.6376	* 1.7211	* 1.7147	* 1.1395	* .9125 *		
	* 2.1539	* 2.0222	* 1.9947	* 2.1161	* 3.2324	* 4.0812 *		
15	* .7529	* .9703	* .7615	* .7765	* F-SUB-Q			
	* 4.2590	* 3.3573	* 4.3579	* 4.4403	* M-SUB-Q			

AT 50% POWER, 50 EFPD, THIS IS LEVEL 5 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9768	* 1.4159	* 1.4823	* 1.4105	* 1.4951	* 1.3730	* 1.4426	* .7208 *
	* 3.3912	* 2.2718	* 2.1094	* 2.2118	* 2.0740	* 2.2554	* 2.1344	* 4.2207 *
9	* 1.4159	* 1.4244	* 1.4994	* 1.5026	* 1.4940	* 1.5315	* 1.5562	* .9243 *
	* 2.2718	* 2.2170	* 2.0943	* 2.0767	* 2.1431	* 2.0667	* 2.0118	* 3.3381 *
10	* 1.4823	* 1.4983	* 1.4951	* 1.4748	* 1.6815	* 1.6151	* 1.6333	* .7240 *
	* 2.1094	* 2.0962	* 2.1066	* 2.2233	* 1.9451	* 2.0362	* 1.9762	* 4.3297 *
11	* 1.4105	* 1.5026	* 1.4683	* 1.5808	* 1.5797	* 1.6568	* 1.6279	* .7401 *
	* 2.2118	* 2.0767	* 2.2275	* 2.1247	* 2.1800	* 2.0685	* 2.0676	* 4.3782 *
12	* 1.4951	* 1.4940	* 1.6783	* 1.5787	* 1.7104	* 1.7382	* 1.0881 *	
	* 2.0740	* 2.1431	* 1.9467	* 2.1820	* 2.0292	* 2.0066	* 3.1712 *	
13	* 1.3730	* 1.5315	* 1.6140	* 1.6558	* 1.7372	* 1.7125	* .8697 *	
	* 2.2554	* 2.0667	* 2.0362	* 2.0703	* 2.0075	* 2.0415	* 3.9876 *	
14	* 1.4426	* 1.5572	* 1.6322	* 1.6268	* 1.0871	* .8697 *		
	* 2.1344	* 2.0109	* 1.9770	* 2.0685	* 3.1712	* 3.9876 *		
15	* .7208	* .9243	* .7229	* .7390	* F-SUB-Q			
	* 4.2207	* 3.3358	* 4.3337	* 4.3823	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 50% POWER, 50 EFPD, THIS IS LEVEL 4 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9468	* 1.3709	* 1.4426	* 1.3720	* 1.4673	* 1.3366	* 1.3998	* .6961
	* 3.1906	* 2.2025	* 2.0540	* 2.1599	* 2.0100	* 2.2108	* 2.0972	* 4.1757
9	* 1.3709	* 1.3794	* 1.4619	* 1.4683	* 1.4491	* 1.4865	* 1.4962	* .8868
	* 2.2025	* 2.1639	* 2.0353	* 2.0178	* 2.0906	* 2.0196	* 1.9904	* 3.3169
10	* 1.4426	* 1.4608	* 1.4587	* 1.4384	* 1.6343	* 1.5626	* 1.5615	* .6940
	* 2.0540	* 2.0371	* 2.0495	* 2.1639	* 1.8826	* 1.9829	* 1.9548	* 4.2941
11	* 1.3720	* 1.4683	* 1.4319	* 1.5455	* 1.5219	* 1.6001	* 1.5562	* .7069
	* 2.1599	* 2.0178	* 2.1669	* 2.0300	* 2.1028	* 1.9913	* 2.0265	* 4.3297
12	* 1.4673	* 1.4491	* 1.6322	* 1.5208	* 1.6622	* 1.6686	* 1.0432	*
	* 2.0100	* 2.0906	* 1.8842	* 2.1056	* 1.9621	* 1.9737	* 3.0797	*
13	* 1.3366	* 1.4865	* 1.5615	* 1.5990	* 1.6675	* 1.6365	* .8322	*
	* 2.2108	* 2.0196	* 1.9837	* 1.9930	* 1.9745	* 2.0239	* 3.9374	*
14	* 1.3998	* 1.4962	* 1.5615	* 1.5551	* 1.0432	* .8322	*	*
	* 2.0972	* 1.9904	* 1.9548	* 2.0274	* 3.0797	* 3.9374	*	*
15	* .6961	* .8879	* .6940	* .7069	F-SUB-Q			
	* 4.1757	* 3.3146	* 4.2980	* 4.3297	M-SUB-Q			

AT 50% POWER, 50 EFPD, THIS IS LEVEL 3 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .8782	* 1.2616	* 1.3355	* 1.2959	* 1.4019	* 1.2702	* 1.3109	* .6458
	* 3.2684	* 2.2652	* 2.1228	* 2.1881	* 2.0169	* 2.2318	* 2.1530	* 4.3337
9	* 1.2616	* 1.2723	* 1.3559	* 1.3794	* 1.3495	* 1.3784	* 1.3709	* .8140
	* 2.2652	* 2.2414	* 2.1000	* 2.0676	* 2.1441	* 2.0850	* 2.0841	* 3.4689
10	* 1.3355	* 1.3548	* 1.3698	* 1.3687	* 1.5197	* 1.4330	* 1.4105	* .6405
	* 2.1228	* 2.1028	* 2.1066	* 2.1659	* 1.9259	* 2.0576	* 2.0658	* 4.4657
11	* 1.2959	* 1.3784	* 1.3623	* 1.4726	* 1.4169	* 1.4769	* 1.3966	* .6458
	* 2.1881	* 2.0658	* 2.1739	* 2.0178	* 2.1373	* 2.0460	* 2.1480	* 4.5260
12	* 1.4019	* 1.3495	* 1.5176	* 1.4169	* 1.5615	* 1.5262	* .9575	*
	* 2.0169	* 2.1441	* 1.9275	* 2.1382	* 1.9507	* 2.0152	* 3.1691	*
13	* 1.2702	* 1.3784	* 1.4319	* 1.4758	* 1.5262	* 1.4737	* .7583	*
	* 2.2318	* 2.0850	* 2.0585	* 2.0477	* 2.0161	* 2.1000	* 4.0531	*
14	* 1.3109	* 1.3709	* 1.4094	* 1.3955	* .9575	* .7583	*	*
	* 2.1530	* 2.0841	* 2.0667	* 2.1490	* 3.1712	* 4.0531	*	*
15	* .6458	* .8150	* .6394	* .6458	F-SUB-Q			
	* 4.3337	* 3.4663	* 4.4699	* 4.5260	M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 50% POWER, 50 EFPD, THIS IS LEVEL 2 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .7304	* 1.0228	* 1.0935	* 1.2809	* 1.2102	* 1.2499	* 1.1149	* .5430
	* 3.7517	* 2.6835	* 2.5045	* 2.1314	* 2.2586	* 2.1840	* 2.4470	* 4.9983
9	* 1.0228	* 1.1877	* 1.0978	* 1.1802	* 1.3098	* 1.1342	* 1.1910	* .6726
	* 2.6835	* 2.3098	* 2.5072	* 2.3350	* 2.1094	* 2.4205	* 2.3200	* 4.0671
10	* 1.0935	* 1.0967	* 1.1610	* 1.3430	* 1.2659	* 1.1438	* 1.1910	* .5387
	* 2.5045	* 2.5099	* 2.3934	* 2.0943	* 2.2265	* 2.4754	* 2.3467	* 5.1183
11	* 1.2809	* 1.1792	* 1.3388	* 1.2691	* 1.3816	* 1.2134	* 1.1267	* .5366
	* 2.1314	* 2.3339	* 2.1009	* 2.2424	* 2.0943	* 2.3983	* 2.5494	* 5.2499
12	* 1.2102	* 1.3098	* 1.2627	* 1.3794	* 1.3280	* 1.3248		* .8022
	* 2.2586	* 2.1094	* 2.2286	* 2.0972	* 2.1922	* 2.2139		* 3.6355
13	* 1.2499	* 1.1353	* 1.1428	* 1.2124	* 1.3248	* 1.1813		* .6223
	* 2.1840	* 2.4181	* 2.4754	* 2.4007	* 2.2139	* 2.4992		* 4.7265
14	* 1.1149	* 1.1910	* 1.1910	* 1.1267	* .8022	* .6223		
	* 2.4470	* 2.3200	* 2.3479	* 2.5508	* 3.6355	* 4.7313		
15	* .5430	* .6726	* .5376	* .5355	F-SUB-Q			
	* 4.9983	* 4.0671	* 5.1238	* 5.2558	M-SUB-Q			

AT 50% POWER, 50 EFPD, THIS IS LEVEL 1 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .4894	* .4155	* .4584	* .5366	* .5002	* .5226	* .4562	* .3577
	* 5.3948	* 6.3339	* 5.7307	* 4.8890	* 5.2558	* 5.0144	* 5.7518	* 7.3335
9	* .4155	* .4819	* .4413	* .5023	* .5473	* .4894	* .4562	* .2935
	* 6.3339	* 5.4575	* 6.0095	* 5.2973	* 4.8436	* 5.3762	* 5.7659	* 8.9569
10	* .4584	* .4413	* .5098	* .5633	* .5269	* .4616	* .4520	* .3674
	* 5.7307	* 6.0172	* 5.2558	* 4.7795	* 5.1576	* 5.8889	* 5.9261	* 7.2318
11	* .5366	* .5023	* .5612	* .5334	* .5741	* .4969	* .4209	* .2495
	* 4.8890	* 5.2973	* 4.7941	* 5.1690	* 4.8039	* 5.6344	* 6.5277	* 10.8644
12	* .5002	* .5473	* .5259	* .5741	* .5430	* .5087	* .3706	
	* 5.2558	* 4.8436	* 5.1747	* 4.8187	* 5.1183	* 5.5152	* 7.5457	
13	* .5226	* .4905	* .4616	* .4959	* .5077	* .4530	* .2774	
	* 5.0144	* 5.3701	* 5.8963	* 5.6411	* 5.5217	* 6.2247	* 10.1590	
14	* .4562	* .4562	* .4520	* .4198	* .3706	* .2774		
	* 5.7518	* 5.7659	* 5.9261	* 6.5277	* 7.5457	* 10.1590		
15	* .3577	* .2935	* .3674	* .2495	F-SUB-Q			
	* 7.3335	* 8.9569	* 7.2318	* 10.8896	M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 50% POWER, 100 EFPD, THIS IS LEVEL 24 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .4113	* .4048	* .4338	* .4530	* .4273	* .4177	* .3770	* .3352
	* 4.4813	* 5.5007	* 5.5046	* 5.1809	* 5.7164	* 5.6454	* 6.4060	* 7.1529
9	* .4048	* .4445	* .4316	* .4305	* .4359	* .4091	* .3791	* .2645
	* 5.5007	* 5.0219	* 5.4329	* 5.5925	* 5.3064	* 5.8572	* 6.0799	* 9.0376
10	* .4338	* .4316	* .4252	* .4359	* .4123	* .3877	* .3695	* .3202
	* 5.5046	* 5.4329	* 5.5007	* 5.1802	* 5.5208	* 5.8224	* 6.0156	* 7.3103
11	* .4530	* .4305	* .4359	* .4027	* .3706	* .3513	* .3224	* .2110
	* 5.1809	* 5.5925	* 5.1837	* 5.4411	* 5.1354	* 5.6815	* 6.2626	* 10.3182
12	* .4273	* .4370	* .4123	* .3706	* .2892	* .2699	* .2560	
	* 5.7164	* 5.3064	* 5.5208	* 5.1354	* 5.3644	* 5.4723	* 7.0844	
13	* .4177	* .4091	* .3877	* .3513	* .2699	* .2292	* .1724	
	* 5.6454	* 5.8537	* 5.8224	* 5.6815	* 5.4723	* 6.0479	* 9.3155	
14	* .3770	* .3791	* .3695	* .3224	* .2560	* .1724		
	* 6.4060	* 6.0799	* 6.0108	* 6.2626	* 7.0844	* 9.3155		
15	* .3352	* .2645	* .3213	* .2110	* F-SUB-Q			
	* 7.1529	* 9.0376	* 7.3049	* 10.3182	* M-SUB-Q			

AT 50% POWER, 100 EFPD, THIS IS LEVEL 23 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .5783	* .9693	* 1.0517	* .9318	* 1.0067	* .8493	* .8911	* .4927
	* 3.1002	* 2.3584	* 2.3144	* 2.5933	* 2.5144	* 2.8855	* 2.8293	* 5.0757
9	* .9693	* .9371	* 1.0614	* 1.0464	* .8825	* .9650	* .8804	* .5923
	* 2.3584	* 2.5116	* 2.3150	* 2.3807	* 2.6759	* 2.5229	* 2.7192	* 4.1991
10	* 1.0517	* 1.0614	* 1.0496	* .9093	* .9864	* .9639	* .8675	* .4487
	* 2.3144	* 2.3157	* 2.3315	* 2.6074	* 2.3650	* 2.4109	* 2.6270	* 5.3617
11	* .9318	* 1.0464	* .9093	* .9296	* .7861	* .8547	* .7883	* .4423
	* 2.5933	* 2.3807	* 2.6106	* 2.4142	* 2.6132	* 2.4201	* 2.6261	* 5.1006
12	* 1.0067	* .8857	* .9864	* .7861	* .6351	* .6522	* .5376	
	* 2.5144	* 2.6749	* 2.3650	* 2.6139	* 2.3382	* 2.4510	* 3.5275	
13	* .8493	* .9660	* .9639	* .8547	* .6522	* .5751	* .3770	
	* 2.8855	* 2.5215	* 2.4109	* 2.4201	* 2.4524	* 2.5633	* 4.4458	
14	* .8911	* .8804	* .8686	* .7883	* .5376	* .3770		
	* 2.8293	* 2.7174	* 2.6270	* 2.6261	* 3.5275	* 4.4458		
15	* .4927	* .5923	* .4487	* .4423	* F-SUB-Q			
	* 5.0757	* 4.1950	* 5.3617	* 5.1006	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 50% POWER, 100 EFPD, THIS IS LEVEL 22 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .7219	* 1.2209	* 1.3302	* 1.2070	* 1.2820	* 1.1096	* 1.1449	* .6180
	* 2.6148	* 1.9413	* 1.8953	* 2.0643	* 2.0409	* 2.2783	* 2.2675	* 4.1610
9	* 1.2209	* 1.2113	* 1.3388	* 1.3270	* 1.1503	* 1.2391	* 1.1695	* .7583
	* 1.9413	* 2.0060	* 1.8969	* 1.9392	* 2.1078	* 2.0300	* 2.1113	* 3.3856
10	* 1.3302	* 1.3388	* 1.3270	* 1.1802	* 1.2659	* 1.2381	* 1.1588	* .5698
	* 1.8953	* 1.8969	* 1.9055	* 2.0722	* 1.9024	* 1.9377	* 2.0284	* 4.3578
11	* 1.2070	* 1.3280	* 1.1792	* 1.1867	* 1.0346	* 1.1042	* 1.0560	* .5601
	* 2.0643	* 1.9392	* 2.0753	* 1.9524	* 2.0489	* 1.9380	* 2.0322	* 4.1673
12	* 1.2820	* 1.1524	* 1.2670	* 1.0346	* .8279	* .8718	* .6865	*
	* 2.0409	* 2.1067	* 1.9032	* 2.0489	* 1.8774	* 1.8947	* 2.8696	*
13	* 1.1096	* 1.2402	* 1.2381	* 1.1042	* .8718	* .7829	* .4873	*
	* 2.2783	* 2.0291	* 1.9377	* 1.9380	* 1.8947	* 1.9648	* 3.5808	*
14	* 1.1449	* 1.1706	* 1.1599	* 1.0560	* .6865	* .4873	*	*
	* 2.2675	* 2.1107	* 2.0284	* 2.0326	* 2.8696	* 3.5808	*	*
15	* .6180	* .7593	* .5698	* .5601	* F-SUB-Q			
	* 4.1610	* 3.3804	* 4.3602	* 4.1690	* M-SUB-Q			

AT 50% POWER, 100 EFPD, THIS IS LEVEL 21 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .8215	* 1.3848	* 1.5133	* 1.4094	* 1.4930	* 1.3227	* 1.3452	* .7058
	* 2.4433	* 1.7893	* 1.7459	* 1.8373	* 1.8167	* 1.9771	* 1.9974	* 3.7630
9	* 1.3848	* 1.4073	* 1.5176	* 1.5187	* 1.3645	* 1.4351	* 1.3998	* .8793
	* 1.7893	* 1.7959	* 1.7418	* 1.7631	* 1.8501	* 1.8250	* 1.8283	* 3.0195
10	* 1.5133	* 1.5176	* 1.5069	* 1.3827	* 1.4748	* 1.4287	* 1.3891	* .6629
	* 1.7459	* 1.7418	* 1.7469	* 1.8387	* 1.6995	* 1.7456	* 1.7605	* 3.9032
11	* 1.4094	* 1.5187	* 1.3816	* 1.3869	* 1.2316	* 1.2873	* 1.2659	* .6490
	* 1.8373	* 1.7631	* 1.8415	* 1.7398	* 1.7744	* 1.7275	* 1.7724	* 3.7552
12	* 1.4930	* 1.3687	* 1.4748	* 1.2306	* .9917	* 1.0517	* .7990	*
	* 1.8167	* 1.8497	* 1.6998	* 1.7744	* 1.6575	* 1.6344	* 2.5821	*
13	* 1.3227	* 1.4362	* 1.4287	* 1.2873	* 1.0517	* .9596	* .5708	*
	* 1.9771	* 1.8242	* 1.7460	* 1.7279	* 1.6348	* 1.6918	* 3.2127	*
14	* 1.3452	* 1.4009	* 1.3902	* 1.2659	* .7979	* .5708	*	*
	* 1.9974	* 1.8276	* 1.7605	* 1.7724	* 2.5827	* 3.2127	*	*
15	* .7058	* .8804	* .6629	* .6490	* F-SUB-Q			
	* 3.7630	* 3.0175	* 3.9047	* 3.7552	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 50% POWER, 100 EFPD, THIS IS LEVEL 20 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .8697	* 1.4501	* 1.5872	* 1.5048	* 1.5990	* 1.4394	* 1.4512	* .7508
	* 2.4871	* 1.8010	* 1.7498	* 1.7958	* 1.7741	* 1.8977	* 1.9332	* 3.7032
9	* 1.4501	* 1.4951	* 1.5904	* 1.6033	* 1.4791	* 1.5315	* 1.5240	* .9414
	* 1.8010	* 1.7684	* 1.7406	* 1.7452	* 1.7860	* 1.7872	* 1.7529	* 2.9488
10	* 1.5872	* 1.5904	* 1.5797	* 1.4812	* 1.5819	* 1.5219	* 1.5133	* .7122
	* 1.7498	* 1.7411	* 1.7431	* 1.7740	* 1.6677	* 1.7229	* 1.6954	* 3.8006
11	* 1.5048	* 1.6033	* 1.4801	* 1.4898	* 1.3420	* 1.3827	* 1.3794	* .6951
	* 1.7958	* 1.7452	* 1.7791	* 1.6997	* 1.7040	* 1.6866	* 1.7142	* 3.6977
12	* 1.5990	* 1.4833	* 1.5819	* 1.3388	* 1.0967	* 1.1588		* .8589
	* 1.7741	* 1.7852	* 1.6686	* 1.7047	* 1.6104	* 1.5683		* 2.5421
13	* 1.4394	* 1.5326	* 1.5219	* 1.3827	* 1.1578	* 1.0667		* .6190
	* 1.8977	* 1.7865	* 1.7236	* 1.6872	* 1.5683	* 1.6235		* 3.1541
14	* 1.4512	* 1.5251	* 1.5133	* 1.3794	* .8589	* .6190		
	* 1.9332	* 1.7522	* 1.6954	* 1.7142	* 2.5421	* 3.1541		
15	* .7508	* .9425	* .7122	* .6951	* F-SUB-Q			
	* 3.7032	* 2.9454	* 3.8006	* 3.6985	* M-SUB-Q			

AT 50% POWER, 100 EFPD, THIS IS LEVEL 19 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .8900	* 1.4748	* 1.6183	* 1.5497	* 1.6547	* 1.5048	* 1.5112	* .7765
	* 2.5986	* 1.8777	* 1.8187	* 1.8443	* 1.8149	* 1.9146	* 1.9611	* 3.7838
9	* 1.4748	* 1.5326	* 1.6204	* 1.6418	* 1.5401	* 1.5851	* 1.5936	* .9757
	* 1.8777	* 1.8224	* 1.8087	* 1.8050	* 1.8108	* 1.8300	* 1.7719	* 3.0099
10	* 1.6183	* 1.6204	* 1.6108	* 1.5305	* 1.6418	* 1.5722	* 1.5819	* .7422
	* 1.8187	* 1.8099	* 1.8087	* 1.7915	* 1.7015	* 1.7645	* 1.7136	* 3.8633
11	* 1.5497	* 1.6429	* 1.5294	* 1.5476	* 1.4084	* 1.4384	* 1.4448	* .7219
	* 1.8443	* 1.8050	* 1.7967	* 1.7368	* 1.7304	* 1.7281	* 1.7397	* 3.7743
12	* 1.6547	* 1.5444	* 1.6418	* 1.4041	* 1.1588	* 1.2263		* .8964
	* 1.8149	* 1.8710	* 1.7022	* 1.7311	* 1.6451	* 1.5918		* 2.6159
13	* 1.5048	* 1.5862	* 1.5733	* 1.4373	* 1.2263	* 1.1342		* .6501
	* 1.9146	* 1.8292	* 1.7651	* 1.7288	* 1.5918	* 1.6490		* 3.2449
14	* 1.5112	* 1.5947	* 1.5829	* 1.4437	* .8964	* .6501		
	* 1.9611	* 1.7714	* 1.7136	* 1.7397	* 2.6159	* 3.2449		
15	* .7765	* .9768	* .7422	* .7219	* F-SUB-Q			
	* 3.7838	* 3.0079	* 3.8633	* 3.7766	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 50% POWER, 100 EFPD, THIS IS LEVEL 18 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9018	* 1.4973	* 1.6472	* 1.5990	* 1.7050	* 1.5594	* 1.5647	* .8000
	* 2.7778	* 1.9919	* 1.9188	* 1.9252	* 1.8790	* 1.9651	* 2.0143	* 3.9003
9	* 1.4973	* 1.5658	* 1.6515	* 1.6793	* 1.5915	* 1.6333	* 1.6536	* 1.0078
	* 1.9919	* 1.9148	* 1.9070	* 1.8931	* 1.8756	* 1.9082	* 1.8244	* 3.0999
10	* 1.6472	* 1.6504	* 1.6440	* 1.5722	* 1.6965	* 1.6204	* 1.6429	* .7679
	* 1.9188	* 1.9083	* 1.8966	* 1.8505	* 1.7684	* 1.8391	* 1.7697	* 4.0151
11	* 1.5990	* 1.6793	* 1.5712	* 1.6001	* 1.4651	* 1.4898	* 1.5026	* .7476
	* 1.9252	* 1.8931	* 1.8558	* 1.8015	* 1.7833	* 1.7917	* 1.7970	* 3.9289
12	* 1.7050	* 1.5958	* 1.6965	* 1.4608	* 1.2092	* 1.2863	* .9328	*
	* 1.8790	* 1.8748	* 1.7693	* 1.7834	* 1.7036	* 1.6422	* 2.7179	*
13	* 1.5594	* 1.6343	* 1.6204	* 1.4898	* 1.2863	* 1.1942	* .6812	*
	* 1.9651	* 1.9074	* 1.8399	* 1.7924	* 1.6424	* 1.7047	* 3.3777	*
14	* 1.5647	* 1.6547	* 1.6429	* 1.5026	* .9318	* .6812	*	*
	* 2.0143	* 1.8244	* 1.7697	* 1.7978	* 2.7179	* 3.3777	*	*
15	* .8000	* 1.0089	* .7668	* .7465	* F-SUB-Q			
	* 3.9003	* 3.0978	* 4.0178	* 3.9289	* M-SUB-Q			

AT 50% POWER, 100 EFPD, THIS IS LEVEL 17 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .8964	* 1.4930	* 1.6461	* 1.6215	* 1.7211	* 1.5862	* 1.5883	* .8065
	* 3.0552	* 2.1639	* 2.0724	* 2.0568	* 2.0041	* 2.0860	* 2.1345	* 4.1619
9	* 1.4930	* 1.5744	* 1.6526	* 1.6858	* 1.6151	* 1.6493	* 1.6858	* 1.0185
	* 2.1639	* 2.0626	* 2.0575	* 2.0373	* 2.0006	* 2.0400	* 1.9363	* 3.3006
10	* 1.6461	* 1.6515	* 1.6483	* 1.5926	* 1.7211	* 1.6376	* 1.6761	* .7786
	* 2.0724	* 2.0584	* 2.0409	* 1.9853	* 1.9022	* 1.9858	* 1.8857	* 4.2710
11	* 1.6215	* 1.6879	* 1.5926	* 1.6236	* 1.4994	* 1.5165	* 1.5390	* .7583
	* 2.0568	* 2.0373	* 1.9916	* 1.9439	* 1.9183	* 1.9311	* 1.9322	* 4.2157
12	* 1.7211	* 1.6194	* 1.7211	* 1.4951	* 1.2413	* 1.3302	* .9532	*
	* 2.0041	* 1.9997	* 1.9030	* 1.9183	* 1.8396	* 1.7651	* 2.9343	*
13	* 1.5862	* 1.6504	* 1.6376	* 1.5155	* 1.3291	* 1.2424	* .7004	*
	* 2.0860	* 2.0391	* 1.9867	* 1.9320	* 1.7656	* 1.8309	* 3.6469	*
14	* 1.5883	* 1.6868	* 1.6772	* 1.5390	* .9532	* .7004	*	*
	* 2.1345	* 1.9355	* 1.8857	* 1.9325	* 2.9343	* 3.6469	*	*
15	* .8065	* 1.0185	* .7786	* .7583	* F-SUB-Q			
	* 4.1619	* 3.3006	* 4.2750	* 4.2157	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 50% POWER, 100 EFPD, THIS IS LEVEL 16 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9029	* 1.4994	* 1.6536	* 1.6418	* 1.7393	* 1.6097	* 1.6108	* .8161
	* 3.3558	* 2.3713	* 2.2659	* 2.2128	* 2.1402	* 2.2305	* 2.2559	* 4.3973
9	* 1.4994	* 1.5862	* 1.6611	* 1.7007	* 1.6365	* 1.6697	* 1.7147	* 1.0314
	* 2.3713	* 2.2679	* 2.2471	* 2.2018	* 2.1761	* 2.2092	* 2.0692	* 3.4884
10	* 1.6536	* 1.6600	* 1.6600	* 1.6204	* 1.7500	* 1.6622	* 1.7082	* .7925
	* 2.2659	* 2.2482	* 2.2167	* 2.1530	* 2.0522	* 2.1472	* 2.0464	* 4.5634
11	* 1.6418	* 1.7029	* 1.6194	* 1.6547	* 1.5380	* 1.5540	* 1.5787	* .7733
	* 2.2128	* 2.1997	* 2.1603	* 2.1030	* 2.0915	* 2.0953	* 2.0973	* 4.5453
12	* 1.7393	* 1.6397	* 1.7500	* 1.5337	* 1.2841	* 1.3848	* .9842	*
	* 2.1402	* 2.1761	* 2.0540	* 2.0915	* 1.9977	* 1.9329	* 3.1836	*
13	* 1.6097	* 1.6708	* 1.6622	* 1.5530	* 1.3848	* 1.3034	* .7304	*
	* 2.2305	* 2.2092	* 2.1482	* 2.0962	* 1.9329	* 2.0104	* 3.9781	*
14	* 1.6108	* 1.7157	* 1.7093	* 1.5787	* .9842	* .7304	*	*
	* 2.2559	* 2.0692	* 2.0464	* 2.0983	* 3.1858	* 3.9781	*	*
15	* .8161	* 1.0324	* .7925	* .7733	* F-SUB-Q			
	* 4.3973	* 3.4858	* 4.5634	* 4.5453	* M-SUB-Q			

AT 50% POWER, 100 EFPD, THIS IS LEVEL 15 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9071	* 1.4898	* 1.6322	* 1.6247	* 1.7222	* 1.5958	* 1.5979	* .8107
	* 3.8151	* 2.6768	* 2.5123	* 2.4454	* 2.3440	* 2.4547	* 2.4588	* 4.7728
9	* 1.4898	* 1.5679	* 1.6418	* 1.6836	* 1.6279	* 1.6600	* 1.7029	* 1.0249
	* 2.6768	* 2.5733	* 2.5014	* 2.4151	* 2.4402	* 2.4164	* 2.2713	* 3.7808
10	* 1.6322	* 1.6408	* 1.6440	* 1.6119	* 1.7479	* 1.6579	* 1.7029	* .7861
	* 2.5123	* 2.5028	* 2.4906	* 2.4297	* 2.2951	* 2.4025	* 2.2897	* 4.9519
11	* 1.6247	* 1.6858	* 1.6119	* 1.6611	* 1.5519	* 1.5744	* 1.5862	* .7743
	* 2.4454	* 2.4126	* 2.4375	* 2.3488	* 2.3539	* 2.3381	* 2.3650	* 5.0715
12	* 1.7222	* 1.6290	* 1.7479	* 1.5476	* 1.3355	* 1.4384	* 1.0067	*
	* 2.3440	* 2.4402	* 2.2974	* 2.3539	* 2.2287	* 2.1732	* 3.5512	*
13	* 1.5958	* 1.6611	* 1.6579	* 1.5733	* 1.4384	* 1.3666	* .7583	*
	* 2.4547	* 2.4151	* 2.4038	* 2.3393	* 2.1742	* 2.2600	* 4.4212	*
14	* 1.5979	* 1.7040	* 1.7029	* 1.5851	* 1.0067	* .7583	*	*
	* 2.4588	* 2.2713	* 2.2897	* 2.3650	* 3.5512	* 4.4212	*	*
15	* .8107	* 1.0249	* .7861	* .7743	* F-SUB-Q			
	* 4.7728	* 3.7808	* 4.9519	* 5.0770	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OF MARGIN) - NORMAL OPERATION

AT 50% POWER, 100 EFPD, THIS IS LEVEL 14 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9746	* 1.5187	* 1.6440	* 1.6493	* 1.7414	* 1.6226	* 1.6215	* .8172
	* 4.2153	* 2.9652	* 2.6922	* 2.5974	* 2.4784	* 2.6003	* 2.5787	* 5.0264
9	* 1.5187	* 1.5926	* 1.6547	* 1.6997	* 1.6643	* 1.6815	* 1.7382	* 1.0367
	* 2.9652	* 2.7847	* 2.6798	* 2.5659	* 2.5959	* 2.5645	* 2.4019	* 3.9875
10	* 1.6440	* 1.6536	* 1.6654	* 1.6493	* 1.7875	* 1.6879	* 1.7479	* .8022
	* 2.6922	* 2.6813	* 2.6829	* 2.6590	* 2.4757	* 2.5989	* 2.4298	* 5.2124
11	* 1.6493	* 1.7007	* 1.6483	* 1.7104	* 1.6183	* 1.6397	* 1.6461	* .7915
	* 2.5974	* 2.5631	* 2.6605	* 2.5946	* 2.6166	* 2.5931	* 2.6151	* 5.3875
12	* 1.7414	* 1.6643	* 1.7864	* 1.6129	* 1.5005	* 1.5744	* 1.0581	*
	* 2.4784	* 2.5959	* 2.4757	* 2.6181	* 2.4705	* 2.4145	* 3.9469	*
13	* 1.6226	* 1.6815	* 1.6879	* 1.6386	* 1.5733	* 1.5123	* .8107	*
	* 2.6003	* 2.5617	* 2.5989	* 2.5946	* 2.4157	* 2.5094	* 4.9096	*
14	* 1.6215	* 1.7382	* 1.7479	* 1.6451	* 1.0571	* .8107	*	*
	* 2.5787	* 2.4019	* 2.4298	* 2.6151	* 3.9469	* 4.9148	*	*
15	* .8172	* 1.0378	* .8022	* .7904	* F-SUB-Q			
	* 5.0264	* 3.9841	* 5.2124	* 5.3938	* M-SUB-Q			

AT 50% POWER, 100 EFPD, THIS IS LEVEL 13 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.0464	* 1.5315	* 1.6376	* 1.6493	* 1.7372	* 1.6226	* 1.6226	* .8150
	* 4.4859	* 3.1592	* 2.9097	* 2.8076	* 2.6599	* 2.8025	* 2.7506	* 5.3656
9	* 1.5315	* 1.5936	* 1.6493	* 1.6954	* 1.6750	* 1.6836	* 1.7447	* 1.0367
	* 3.1592	* 3.0283	* 2.8971	* 2.7620	* 2.8025	* 2.7490	* 2.5820	* 4.2534
10	* 1.6376	* 1.6483	* 1.6708	* 1.6654	* 1.8036	* 1.6986	* 1.7650	* .8054
	* 2.9097	* 2.8989	* 2.8989	* 2.8557	* 2.6569	* 2.7916	* 2.6139	* 5.5567
11	* 1.6493	* 1.6965	* 1.6590	* 1.7372	* 1.6611	* 1.6922	* 1.6804	* .7990
	* 2.8076	* 2.7587	* 2.8663	* 2.7441	* 2.7841	* 2.7620	* 2.8280	* 5.7834
12	* 1.7372	* 1.6750	* 1.8025	* 1.6558	* 1.7125	* 1.7179	* 1.0988	*
	* 2.6599	* 2.8008	* 2.6569	* 2.7857	* 2.6168	* 2.5964	* 4.2265	*
13	* 1.6226	* 1.6836	* 1.6986	* 1.6911	* 1.7179	* 1.6408	* .8547	*
	* 2.8025	* 2.7474	* 2.7916	* 2.7636	* 2.5978	* 2.7191	* 5.3107	*
14	* 1.6226	* 1.7447	* 1.7650	* 1.6793	* 1.0978	* .8547	*	*
	* 2.7506	* 2.5820	* 2.6139	* 2.8297	* 4.2304	* 5.3107	*	*
15	* .8150	* 1.0367	* .8043	* .7990	* F-SUB-Q			
	* 5.3656	* 4.2534	* 5.5567	* 5.7834	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 50% POWER, 100 EFPD, THIS IS LEVEL 12 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.0592	* 1.5208	* 1.6140	* 1.6258	* 1.7136	* 1.6022	* 1.6022	* .8054
	* 4.6014	* 3.2346	* 2.8724	* 2.8037	* 2.6502	* 2.8257	* 2.7954	* 5.5087
9	* 1.5208	* 1.5733	* 1.6279	* 1.6740	* 1.6622	* 1.6675	* 1.7265	* 1.0249
	* 3.2346	* 2.9933	* 2.8601	* 2.7399	* 2.8104	* 2.7674	* 2.6412	* 4.3905
10	* 1.6140	* 1.6268	* 1.6568	* 1.6697	* 1.7950	* 1.6911	* 1.7543	* .7990
	* 2.8724	* 2.8619	* 2.8601	* 2.8724	* 2.6637	* 2.8172	* 2.6804	* 5.7307
11	* 1.6258	* 1.6740	* 1.6633	* 1.7404	* 1.6847	* 1.7125	* 1.6847	* .7968
	* 2.8037	* 2.7383	* 2.8741	* 2.7970	* 2.8480	* 2.8138	* 2.8936	* 5.9942
12	* 1.7136	* 1.6622	* 1.7939	* 1.6847	* 1.7907	* 1.7918	* 1.1181	*
	* 2.6502	* 2.8054	* 2.6637	* 2.8497	* 2.6652	* 2.6562	* 4.3059	*
13	* 1.6022	* 1.6675	* 1.6900	* 1.7104	* 1.7907	* 1.7050	* .8804	*
	* 2.8257	* 2.7641	* 2.8172	* 2.8155	* 2.6562	* 2.7805	* 5.4010	*
14	* 1.6022	* 1.7265	* 1.7543	* 1.6836	* 1.1181	* .8804	*	*
	* 2.7954	* 2.6412	* 2.6804	* 2.8954	* 4.3059	* 5.4010	*	*
15	* .8054	* 1.0249	* .7979	* .7968	* F-SUB-Q			
	* 5.5087	* 4.3864	* 5.7307	* 5.9942	* M-SUB-Q			

AT 50% POWER, 100 EFPD, THIS IS LEVEL 11 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.0656	* 1.5283	* 1.6183	* 1.6376	* 1.7232	* 1.6151	* 1.6161	* .8086
	* 4.6014	* 3.1103	* 2.7657	* 2.6912	* 2.5480	* 2.7098	* 2.6804	* 5.3033
9	* 1.5283	* 1.5840	* 1.6343	* 1.6836	* 1.6815	* 1.6815	* 1.7468	* 1.0324
	* 3.1103	* 2.8759	* 2.7544	* 2.6368	* 2.6989	* 2.6607	* 2.5288	* 4.2207
10	* 1.6183	* 1.6322	* 1.6697	* 1.7007	* 1.8175	* 1.7157	* 1.7821	* .8054
	* 2.7657	* 2.7560	* 2.7527	* 2.7527	* 2.5549	* 2.7098	* 2.5661	* 5.5087
11	* 1.6376	* 1.6836	* 1.6943	* 1.7714	* 1.7372	* 1.7554	* 1.7211	* .8075
	* 2.6912	* 2.6353	* 2.7544	* 2.7560	* 2.8223	* 2.7904	* 2.8359	* 5.7659
12	* 1.7232	* 1.6815	* 1.8175	* 1.7372	* 1.8507	* 1.8603	* 1.1460	*
	* 2.5480	* 2.6927	* 2.5563	* 2.8223	* 2.6412	* 2.6220	* 4.2745	*
13	* 1.6151	* 1.6815	* 1.7147	* 1.7543	* 1.8603	* 1.7746	* .9093	*
	* 2.7098	* 2.6592	* 2.7098	* 2.7921	* 2.6220	* 2.7431	* 5.3517	*
14	* 1.6161	* 1.7468	* 1.7811	* 1.7200	* 1.1460	* .9093	*	*
	* 2.6804	* 2.5288	* 2.5661	* 2.8376	* 4.2784	* 5.3517	*	*
15	* .8086	* 1.0324	* .8054	* .8065	* F-SUB-Q			
	* 5.3033	* 4.2169	* 5.5152	* 5.7659	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 50% POWER, 100 EFPD, THIS IS LEVEL 10 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.0474	* 1.5069	* 1.5958	* 1.6247	* 1.7050	* 1.6044	* 1.6044	* .8000
	* 4.5391	* 3.0261	* 2.6927	* 2.6046	* 2.4728	* 2.6162	* 2.5802	* 5.0850
9	* 1.5069	* 1.5679	* 1.6129	* 1.6675	* 1.6740	* 1.6665	* 1.7393	* 1.0228
	* 3.0261	* 2.7904	* 2.6835	* 2.5633	* 2.6118	* 2.5788	* 2.4356	* 4.0531
10	* 1.5958	* 1.6119	* 1.6547	* 1.6997	* 1.8089	* 1.7072	* 1.7789	* .7990
	* 2.6927	* 2.6850	* 2.6820	* 2.6713	* 2.4859	* 2.6368	* 2.4781	* 5.2973
11	* 1.6247	* 1.6675	* 1.6922	* 1.7661	* 1.7479	* 1.7618	* 1.7243	* .8032
	* 2.6046	* 2.5619	* 2.6728	* 2.6896	* 2.8004	* 2.7641	* 2.7479	* 5.5609
12	* 1.7050	* 1.6740	* 1.8078	* 1.7468	* 1.8614	* 1.8796	* 1.1481	*
	* 2.4728	* 2.6060	* 2.4859	* 2.8004	* 2.6308	* 2.6060	* 4.2094	*
13	* 1.6044	* 1.6665	* 1.7061	* 1.7607	* 1.8796	* 1.7961	* .9146	*
	* 2.6162	* 2.5774	* 2.6368	* 2.7657	* 2.6075	* 2.7287	* 5.3033	*
14	* 1.6044	* 1.7393	* 1.7789	* 1.7232	* 1.1481	* .9146	*	*
	* 2.5802	* 2.4356	* 2.4781	* 2.7479	* 4.2094	* 5.3033	*	*
15	* .8000	* 1.0239	* .7990	* .8022	* F-SUB-Q			
	* 5.0850	* 4.0496	* 5.3033	* 5.5609	* M-SUB-Q			

AT 50% POWER, 100 EFPD, THIS IS LEVEL 9 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.0249	* 1.4758	* 1.5637	* 1.5969	* 1.6740	* 1.5776	* 1.5787	* .7850
	* 4.3823	* 2.8812	* 2.5675	* 2.4820	* 2.3585	* 2.4939	* 2.4599	* 4.8637
9	* 1.4758	* 1.5390	* 1.5819	* 1.6376	* 1.6493	* 1.6386	* 1.7136	* 1.0057
	* 2.8812	* 2.6562	* 2.5577	* 2.4445	* 2.4886	* 2.4599	* 2.3189	* 3.8693
10	* 1.5637	* 1.5797	* 1.6258	* 1.6772	* 1.7843	* 1.6836	* 1.7554	* .7872
	* 2.5675	* 2.5605	* 2.5563	* 2.5397	* 2.3621	* 2.5085	* 2.3550	* 5.0467
11	* 1.5969	* 1.6376	* 1.6708	* 1.7425	* 1.7307	* 1.7436	* 1.7050	* .7915
	* 2.4820	* 2.4420	* 2.5411	* 2.5536	* 2.6912	* 2.6592	* 2.6017	* 5.2914
12	* 1.6740	* 1.6493	* 1.7821	* 1.7307	* 1.8443	* 1.8668	* 1.1363	*
	* 2.3585	* 2.4833	* 2.3633	* 2.6912	* 2.5480	* 2.5112	* 4.0531	*
13	* 1.5776	* 1.6397	* 1.6825	* 1.7425	* 1.8668	* 1.7864	* .9071	*
	* 2.4939	* 2.4573	* 2.5085	* 2.6607	* 2.5125	* 2.6264	* 5.1071	*
14	* 1.5787	* 1.7147	* 1.7554	* 1.7040	* 1.1363	* .9071	*	*
	* 2.4599	* 2.3177	* 2.3550	* 2.6031	* 4.0566	* 5.1071	*	*
15	* .7850	* 1.0057	* .7872	* .7904	* F-SUB-Q			
	* 4.8637	* 3.8693	* 5.0521	* 5.2914	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 50% POWER, 100 EFPD, THIS IS LEVEL 8 OF 24
 (LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9939	* 1.4341	* 1.5208	* 1.5508	* 1.6301	* 1.5337	* 1.5380	* .7658
	* 4.1868	* 2.7674	* 2.4702	* 2.3958	* 2.2696	* 2.4069	* 2.3704	* 4.6887
9	* 1.4341	* 1.4930	* 1.5390	* 1.5958	* 1.6054	* 1.5979	* 1.6675	* .9800
	* 2.7674	* 2.5591	* 2.4586	* 2.3514	* 2.4007	* 2.3668	* 2.2360	* 3.7309
10	* 1.5208	* 1.5380	* 1.5840	* 1.6343	* 1.7425	* 1.6440	* 1.7093	* .7658
	* 2.4702	* 2.4599	* 2.4534	* 2.4445	* 2.2652	* 2.4057	* 2.2663	* 4.8738
11	* 1.5508	* 1.5947	* 1.6268	* 1.7018	* 1.6900	* 1.7061	* 1.6622	* .7722
	* 2.3958	* 2.3502	* 2.4458	* 2.4432	* 2.5845	* 2.5494	* 2.4939	* 5.0740
12	* 1.6301	* 1.6054	* 1.7404	* 1.6890	* 1.8046	* 1.8250	* 1.1117	
	* 2.2696	* 2.3958	* 2.2663	* 2.5859	* 2.4394	* 2.4181	* 3.8950	
13	* 1.5337	* 1.5990	* 1.6429	* 1.7050	* 1.8239	* 1.7468	* .8900	
	* 2.4069	* 2.3656	* 2.4057	* 2.5508	* 2.4193	* 2.5315	* 4.9197	
14	* 1.5380	* 1.6675	* 1.7093	* 1.6611	* 1.1117	* .8900		
	* 2.3704	* 2.2350	* 2.2663	* 2.4952	* 3.8950	* 4.9197		
15	* .7658	* .9810	* .7658	* .7711	* F-SUB-Q			
	* 4.6887	* 3.7279	* 4.8738	* 5.0795	* M-SUB-Q			

AT 50% POWER, 100 EFPD, THIS IS LEVEL 7 OF 24
 (LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9768	* 1.4105	* 1.4973	* 1.5358	* 1.6086	* 1.5187	* 1.5208	* .7529
	* 3.9014	* 2.6279	* 2.3502	* 2.2718	* 2.1609	* 2.2850	* 2.2554	* 4.4913
9	* 1.4105	* 1.4769	* 1.5155	* 1.5722	* 1.5915	* 1.5754	* 1.6547	* .9660
	* 2.6279	* 2.4218	* 2.3385	* 2.2392	* 2.2718	* 2.2565	* 2.1170	* 3.5637
10	* 1.4973	* 1.5133	* 1.5615	* 1.6204	* 1.7232	* 1.6226	* 1.6975	* .7572
	* 2.3502	* 2.3409	* 2.3316	* 2.3098	* 2.1431	* 2.2839	* 2.1402	* 4.6332
11	* 1.5358	* 1.5722	* 1.6140	* 1.6815	* 1.6793	* 1.6890	* 1.6515	* .7604
	* 2.2718	* 2.2371	* 2.3109	* 2.3075	* 2.4094	* 2.3728	* 2.3409	* 4.8237
12	* 1.6086	* 1.5915	* 1.7211	* 1.6772	* 1.7886	* 1.8164	* 1.0978	
	* 2.1609	* 2.2718	* 2.1441	* 2.4118	* 2.2828	* 2.2565	* 3.6525	
13	* 1.5187	* 1.5765	* 1.6215	* 1.6879	* 1.8153	* 1.7393	* .8782	
	* 2.2850	* 2.2543	* 2.2839	* 2.3752	* 2.2575	* 2.3633	* 4.6378	
14	* 1.5208	* 1.6547	* 1.6965	* 1.6504	* 1.0967	* .8782		
	* 2.2554	* 2.1170	* 2.1402	* 2.3420	* 3.6525	* 4.6378		
15	* .7529	* .9660	* .7561	* .7604	* F-SUB-Q			
	* 4.4913	* 3.5610	* 4.6378	* 4.8237	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 50% POWER, 100 EFPD, THIS IS LEVEL 6 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9457	* 1.3677	* 1.4523	* 1.4898	* 1.5615	* 1.4726	* 1.4758	* .7294
	* 3.7190	* 2.5329	* 2.2773	* 2.2076	* 2.0990	* 2.2244	* 2.1963	* 4.3864
9	* 1.3677	* 1.4330	* 1.4705	* 1.5262	* 1.5444	* 1.5283	* 1.6044	* .9350
	* 2.5329	* 2.3420	* 2.2630	* 2.1729	* 2.1994	* 2.1891	* 2.0594	* 3.4766
10	* 1.4523	* 1.4694	* 1.5144	* 1.5733	* 1.6740	* 1.5744	* 1.6461	* .7336
	* 2.2773	* 2.2652	* 2.2543	* 2.2339	* 2.0685	* 2.2066	* 2.0749	* 4.5129
11	* 1.4898	* 1.5251	* 1.5669	* 1.6322	* 1.6301	* 1.6397	* 1.6022	* .7368
	* 2.2076	* 2.1709	* 2.2360	* 2.2118	* 2.2806	* 2.2608	* 2.2510	* 4.6747
12	* 1.5615	* 1.5433	* 1.6718	* 1.6290	* 1.7382	* 1.7629	* 1.0635	*
	* 2.0990	* 2.1994	* 2.0694	* 2.2817	* 2.1500	* 2.1324	* 3.4715	*
13	* 1.4726	* 1.5283	* 1.5733	* 1.6386	* 1.7629	* 1.6879	* .8514	*
	* 2.2244	* 2.1881	* 2.2066	* 2.2630	* 2.1334	* 2.2371	* 4.3905	*
14	* 1.4758	* 1.6044	* 1.6461	* 1.6011	* 1.0635	* .8514	*	*
	* 2.1963	* 2.0585	* 2.0758	* 2.2521	* 3.4715	* 4.3905	*	*
15	* .7294	* .9361	* .7326	* .7358	* F-SUB-Q			
	* 4.3864	* 3.4740	* 4.5129	* 4.6747	* M-SUB-Q			

AT 50% POWER, 100 EFPD, THIS IS LEVEL 5 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .8975	* 1.2991	* 1.3827	* 1.4073	* 1.4833	* 1.3902	* 1.3955	* .6919
	* 3.6956	* 2.4741	* 2.2597	* 2.2139	* 2.0953	* 2.2360	* 2.2076	* 4.4028
9	* 1.2991	* 1.3548	* 1.4009	* 1.4501	* 1.4587	* 1.4512	* 1.5090	* .8836
	* 2.4741	* 2.3327	* 2.2435	* 2.1629	* 2.1973	* 2.1800	* 2.0749	* 3.4947
10	* 1.3827	* 1.3998	* 1.4394	* 1.4855	* 1.5894	* 1.4951	* 1.5476	* .6908
	* 2.2597	* 2.2457	* 2.2328	* 2.2286	* 2.0504	* 2.1871	* 2.0823	* 4.5435
11	* 1.4073	* 1.4501	* 1.4791	* 1.5508	* 1.5369	* 1.5530	* 1.5069	* .6961
	* 2.2139	* 2.1619	* 2.2307	* 2.1629	* 2.2619	* 2.2286	* 2.2265	* 4.6608
12	* 1.4833	* 1.4576	* 1.5872	* 1.5358	* 1.6461	* 1.6590	* 1.0078	*
	* 2.0953	* 2.1973	* 2.0513	* 2.2630	* 2.1170	* 2.1113	* 3.4384	*
13	* 1.3902	* 1.4512	* 1.4940	* 1.5519	* 1.6579	* 1.5862	* .8054	*
	* 2.2360	* 2.1800	* 2.1881	* 2.2307	* 2.1113	* 2.2149	* 4.3297	*
14	* 1.3955	* 1.5090	* 1.5476	* 1.5069	* 1.0067	* .8054	*	*
	* 2.2076	* 2.0749	* 2.0823	* 2.2275	* 3.4384	* 4.3297	*	*
15	* .6919	* .8836	* .6897	* .6951	* F-SUB-Q			
	* 4.4028	* 3.4921	* 4.5435	* 4.6654	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 50% POWER, 100 EFPD, THIS IS LEVEL 4 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .8579	* 1.2413	* 1.3248	* 1.3473	* 1.4255	* 1.3270	* 1.3323	* .6587
	* 3.5289	* 2.4344	* 2.2414	* 2.2045	* 2.0777	* 2.2350	* 2.2097	* 4.4236
9	* 1.2413	* 1.2927	* 1.3441	* 1.3923	* 1.3902	* 1.3859	* 1.4309	* .8375
	* 2.4344	* 2.3166	* 2.2212	* 2.1451	* 2.1860	* 2.1699	* 2.0869	* 3.5210
10	* 1.3248	* 1.3430	* 1.3794	* 1.4201	* 1.5197	* 1.4255	* 1.4641	* .6544
	* 2.2414	* 2.2233	* 2.2045	* 2.2087	* 2.0230	* 2.1689	* 2.0888	* 4.5656
11	* 1.3473	* 1.3912	* 1.4137	* 1.4887	* 1.4651	* 1.4791	* 1.4255	* .6576
	* 2.2045	* 2.1441	* 2.2097	* 2.1142	* 2.2149	* 2.1749	* 2.2160	* 4.6701
12	* 1.4255	* 1.3902	* 1.5187	* 1.4641	* 1.5722	* 1.5712	* .9553	*
	* 2.0777	* 2.1860	* 2.0239	* 2.2212	* 2.0860	* 2.1094	* 3.3814	*
13	* 1.3270	* 1.3869	* 1.4244	* 1.4780	* 1.5712	* 1.4983	* .7615	*
	* 2.2350	* 2.1699	* 2.1689	* 2.1759	* 2.1094	* 2.2212	* 4.3297	*
14	* 1.3323	* 1.4309	* 1.4630	* 1.4255	* .9553	* .7615	*	*
	* 2.2097	* 2.0860	* 2.0888	* 2.2170	* 3.3839	* 4.3297	*	*
15	* .6587	* .8375	* .6533	* .6576	* F-SUB-Q			
	* 4.4236	* 3.5183	* 4.5700	* 4.6701	* M-SUB-Q			

AT 50% POWER, 100 EFPD, THIS IS LEVEL 3 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .7840	* 1.1245	* 1.2070	* 1.2424	* 1.3195	* 1.2199	* 1.2188	* .6008
	* 3.6696	* 2.5480	* 2.3585	* 2.2962	* 2.1569	* 2.3350	* 2.3258	* 4.6841
9	* 1.1245	* 1.1674	* 1.2242	* 1.2852	* 1.2723	* 1.2606	* 1.2820	* .7551
	* 2.5480	* 2.4522	* 2.3385	* 2.2307	* 2.2839	* 2.2861	* 2.2360	* 3.7578
10	* 1.2070	* 1.2231	* 1.2681	* 1.3055	* 1.3837	* 1.2863	* 1.3002	* .5923
	* 2.3585	* 2.3409	* 2.2906	* 2.2884	* 2.1170	* 2.2928	* 2.2500	* 4.8486
11	* 1.2424	* 1.2841	* 1.3002	* 1.3762	* 1.3409	* 1.3388	* 1.2616	* .5923
	* 2.2962	* 2.2297	* 2.2951	* 2.1739	* 2.2773	* 2.2784	* 2.3897	* 4.9613
12	* 1.3195	* 1.2713	* 1.3827	* 1.3409	* 1.4384	* 1.4073	* .8632	*
	* 2.1569	* 2.2850	* 2.1180	* 2.2773	* 2.1334	* 2.2014	* 3.5395	*
13	* 1.2199	* 1.2616	* 1.2852	* 1.3377	* 1.4073	* 1.3291	* .6844	*
	* 2.3350	* 2.2850	* 2.2940	* 2.2806	* 2.2014	* 2.3467	* 4.5260	*
14	* 1.2188	* 1.2820	* 1.3002	* 1.2606	* .8632	* .6844	*	*
	* 2.3258	* 2.2360	* 2.2500	* 2.3897	* 3.5422	* 4.5260	*	*
15	* .6008	* .7551	* .5912	* .5912	* F-SUB-Q			
	* 4.6841	* 3.7547	* 4.8536	* 4.9666	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 50% POWER, 100 EFPD, THIS IS LEVEL 2 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .6437	* .8986	* .9703	* 1.1610	* 1.0988	* 1.1385	* 1.0078	* .4948
	* 4.2706	* 3.0656	* 2.8342	* 2.3668	* 2.5032	* 2.4118	* 2.7224	* 5.5152
9	* .8986	* 1.0507	* .9757	* 1.0646	* 1.1856	* 1.0260	* 1.0689	* .6094
	* 3.0656	* 2.6220	* 2.8359	* 2.6031	* 2.3491	* 2.6912	* 2.5859	* 4.5086
10	* .9703	* .9746	* 1.0432	* 1.2134	* 1.1363	* 1.0132	* 1.0624	* .4884
	* 2.8342	* 2.8376	* 2.6835	* 2.3385	* 2.4912	* 2.7970	* 2.6442	* 5.6753
11	* 1.1610	* 1.0635	* 1.2102	* 1.1438	* 1.2391	* 1.0774	* .9992	* .4819
	* 2.3668	* 2.6017	* 2.3444	* 2.5072	* 2.3538	* 2.7208	* 2.8954	* 5.8815
12	* 1.0988	* 1.1845	* 1.1342	* 1.2370	* 1.1845	* 1.1727	* .7090	
	* 2.5032	* 2.3491	* 2.4925	* 2.3573	* 2.4767	* 2.5193	* 4.1388	
13	* 1.1385	* 1.0260	* 1.0132	* 1.0764	* 1.1727	* 1.0474	* .5526	
	* 2.4118	* 2.6896	* 2.7987	* 2.7240	* 2.5206	* 2.8411	* 5.3578	
14	* 1.0078	* 1.0689	* 1.0624	* .9982	* .7090	* .5526		
	* 2.7224	* 2.5859	* 2.6442	* 2.8972	* 4.1425	* 5.3578		
15	* .4948	* .6094	* .4873	* .4809	F-SUB-Q			
	* 5.5152	* 4.5043	* 5.6821	* 5.8815	M-SUB-Q			

AT 50% POWER, 100 EFPD, THIS IS LEVEL 1 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .4284	* .3652	* .4070	* .4809	* .4477	* .4712	* .4113	* .3234
	* 6.1919	* 7.2430	* 6.5006	* 5.4830	* 5.9111	* 5.5941	* 6.4206	* 8.1625
9	* .3652	* .4252	* .3941	* .4487	* .4916	* .4391	* .4113	* .2645
	* 7.2430	* 6.2082	* 6.7824	* 5.9865	* 5.4322	* 6.0405	* 6.4382	* 9.9860
10	* .4070	* .3941	* .4541	* .5044	* .4691	* .4102	* .4038	* .3299
	* 6.5006	* 6.7824	* 5.9561	* 5.3886	* 5.8449	* 6.6385	* 6.6668	* 8.1061
11	* .4809	* .4477	* .5023	* .4723	* .5109	* .4380	* .3748	* .2238
	* 5.4830	* 5.9713	* 5.4010	* 5.8595	* 5.4385	* 6.4382	* 7.3796	* 12.1907
12	* .4477	* .4905	* .4680	* .5109	* .4819	* .4498	* .3277	
	* 5.9111	* 5.4259	* 5.8668	* 5.4511	* 5.8087	* 6.2746	* 8.5960	
13	* .4712	* .4391	* .4091	* .4380	* .4498	* .4016	* .2463	
	* 5.5941	* 6.0327	* 6.6479	* 6.4382	* 6.2830	* 7.0791	* 11.5318	
14	* .4113	* .4113	* .4038	* .3738	* .3277	* .2463		
	* 6.4206	* 6.4382	* 6.6668	* 7.3912	* 8.5960	* 11.5318		
15	* .3234	* .2656	* .3299	* .2238	F-SUB-Q			
	* 8.1625	* 9.9648	* 8.1061	* 12.1907	M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 50% POWER, 150 EFPD, THIS IS LEVEL 24 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .4327	* .4273	* .4680	* .4959	* .4766	* .4659	* .4038	* .3502
	* 4.5034	* 5.4747	* 5.2420	* 4.8114	* 5.1491	* 5.0586	* 5.7773	* 6.5309
9	* .4273	* .4637	* .4573	* .4691	* .4873	* .4541	* .4145	* .2870
	* 5.4747	* 4.9622	* 5.3059	* 5.2294	* 4.8836	* 5.3713	* 5.5932	* 8.2191
10	* .4680	* .4573	* .4316	* .4680	* .4552	* .4284	* .4070	* .3513
	* 5.2420	* 5.3059	* 5.2776	* 4.9288	* 5.2593	* 5.6159	* 5.7450	* 6.8277
11	* .4959	* .4691	* .4680	* .4263	* .4123	* .3866	* .3545	* .2324
	* 4.8114	* 5.2294	* 4.9288	* 5.1732	* 4.8624	* 5.4434	* 6.0559	* 9.9594
12	* .4766	* .4873	* .4552	* .4123	* .3234	* .2988	* .2806	
	* 5.1491	* 4.8779	* 5.2593	* 4.8624	* 5.0839	* 5.2325	* 6.8739	
13	* .4659	* .4552	* .4284	* .3866	* .2988	* .2528	* .1885	
	* 5.0586	* 5.3647	* 5.6159	* 5.4434	* 5.2325	* 5.7857	* 8.9848	
14	* .4038	* .4155	* .4070	* .3545	* .2806	* .1885		
	* 5.7773	* 5.5858	* 5.7450	* 6.0559	* 6.8739	* 8.9848		
15	* .3502	* .2870	* .3513	* .2324	* F-SUB-Q			
	* 6.5309	* 8.2191	* 6.8171	* 9.9594	* M-SUB-Q			

AT 50% POWER, 150 EFPD, THIS IS LEVEL 23 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .6062	* 1.0100	* 1.1085	* 1.0046	* 1.1117	* .9521	* .9585	* .5291
	* 3.1499	* 2.3886	* 2.3106	* 2.4748	* 2.3021	* 2.5956	* 2.5949	* 4.6703
9	* 1.0100	* .9821	* 1.1149	* 1.1171	* .9853	* 1.0517	* .9660	* .6415
	* 2.3886	* 2.4906	* 2.2889	* 2.2889	* 2.5202	* 2.4122	* 2.5322	* 3.8809
10	* 1.1085	* 1.1149	* 1.0710	* .9714	* 1.0742	* 1.0410	* .9510	* .4905
	* 2.3106	* 2.2900	* 2.3118	* 2.5113	* 2.3081	* 2.3725	* 2.5522	* 5.0816
11	* 1.0046	* 1.1171	* .9714	* 1.0121	* .8718	* .9211	* .8547	* .4819
	* 2.4748	* 2.2889	* 2.5128	* 2.3094	* 2.4759	* 2.3677	* 2.5787	* 4.9783
12	* 1.1117	* .9885	* 1.0742	* .8718	* .7058	* .7101	* .5783	
	* 2.3021	* 2.5128	* 2.3081	* 2.4759	* 2.2464	* 2.3605	* 3.4622	
13	* .9521	* 1.0528	* 1.0410	* .9211	* .7101	* .6223	* .4059	
	* 2.5956	* 2.4109	* 2.3725	* 2.3689	* 2.3605	* 2.4893	* 4.3521	
14	* .9585	* .9660	* .9521	* .8547	* .5783	* .4059		
	* 2.5949	* 2.5307	* 2.5522	* 2.5787	* 3.4622	* 4.3521		
15	* .5291	* .6426	* .4905	* .4819	* F-SUB-Q			
	* 4.6703	* 3.8741	* 5.0816	* 4.9836	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 50% POWER, 150 EFPD, THIS IS LEVEL 22 OF 24
 (LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .7476	* 1.2595	* 1.3902	* 1.2938	* 1.4094	* 1.2402	* 1.2445	* .6683
	* 2.6859	* 1.9898	* 1.9029	* 1.9816	* 1.8754	* 2.0569	* 2.0983	* 3.8692
9	* 1.2595	* 1.2745	* 1.3966	* 1.4073	* 1.2777	* 1.3355	* 1.2745	* .8182
	* 1.9898	* 2.0067	* 1.8923	* 1.8786	* 2.0039	* 1.9604	* 1.9779	* 3.1534
10	* 1.3902	* 1.3966	* 1.3784	* 1.2702	* 1.3655	* 1.3184	* 1.2563	* .6180
	* 1.9029	* 1.8923	* 1.9103	* 2.0105	* 1.8746	* 1.9324	* 1.9976	* 4.1688
11	* 1.2938	* 1.4073	* 1.2691	* 1.2948	* 1.1374	* 1.1738	* 1.1278	* .6019
	* 1.9816	* 1.8786	* 2.0133	* 1.8826	* 1.9588	* 1.9185	* 2.0214	* 4.1157
12	* 1.4094	* 1.2809	* 1.3655	* 1.1353	* .9071	* .9328	* .7261	*
	* 1.8754	* 1.9992	* 1.8754	* 1.9597	* 1.8221	* 1.8451	* 2.8522	*
13	* 1.2402	* 1.3366	* 1.3184	* 1.1727	* .9318	* .8290	* .5141	*
	* 2.0569	* 1.9586	* 1.9324	* 1.9185	* 1.8451	* 1.9408	* 3.5515	*
14	* 1.2445	* 1.2756	* 1.2563	* 1.1278	* .7261	* .5141	*	*
	* 2.0983	* 1.9770	* 1.9967	* 2.0214	* 2.8522	* 3.5515	*	*
15	* .6683	* .8193	* .6180	* .6019	* F-SUB-Q			
	* 3.8692	* 3.1512	* 4.1649	* 4.1157	* M-SUB-Q			

AT 50% POWER, 150 EFPD, THIS IS LEVEL 21 OF 24
 (LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .8365	* 1.4105	* 1.5690	* 1.5144	* 1.6268	* 1.4673	* 1.4512	* .7583
	* 2.5330	* 1.8538	* 1.7455	* 1.7500	* 1.6827	* 1.7976	* 1.8649	* 3.5355
9	* 1.4105	* 1.4716	* 1.5701	* 1.6001	* 1.5069	* 1.5347	* 1.5101	* .9414
	* 1.8538	* 1.7983	* 1.7414	* 1.7112	* 1.7571	* 1.7706	* 1.7274	* 2.8488
10	* 1.5690	* 1.5701	* 1.5594	* 1.4812	* 1.5744	* 1.5015	* 1.4823	* .7111
	* 1.7455	* 1.7421	* 1.7524	* 1.7640	* 1.6931	* 1.7624	* 1.7521	* 3.7566
11	* 1.5144	* 1.6001	* 1.4801	* 1.4994	* 1.3473	* 1.3452	* 1.3291	* .6876
	* 1.7500	* 1.7112	* 1.7691	* 1.6926	* 1.7128	* 1.7241	* 1.7877	* 3.7527
12	* 1.6268	* 1.5101	* 1.5744	* 1.3441	* 1.0635	* 1.1010	* .8290	*
	* 1.6827	* 1.7528	* 1.6937	* 1.7128	* 1.6254	* 1.6116	* 2.6003	*
13	* 1.4673	* 1.5358	* 1.5026	* 1.3452	* 1.0999	* .9864	* .5901	*
	* 1.7976	* 1.7699	* 1.7624	* 1.7241	* 1.6122	* 1.6984	* 3.2289	*
14	* 1.4512	* 1.5101	* 1.4833	* 1.3291	* .8290	* .5901	*	*
	* 1.8649	* 1.7267	* 1.7514	* 1.7877	* 2.6003	* 3.2289	*	*
15	* .7583	* .9425	* .7111	* .6876	* F-SUB-Q			
	* 3.5355	* 2.8451	* 3.7566	* 3.7527	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 50% POWER, 150 EFPD, THIS IS LEVEL 20 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .8654	* 1.4608	* 1.6322	* 1.6258	* 1.7265	* 1.5819	* 1.5497	* .7979 *
	* 2.5984	* 1.8789	* 1.7522	* 1.6993	* 1.6556	* 1.7383	* 1.8237	* 3.5141 *
9	* 1.4608	* 1.5487	* 1.6333	* 1.6879	* 1.6183	* 1.6279	* 1.6226	* .9960 *
	* 1.8789	* 1.7814	* 1.7495	* 1.6945	* 1.7053	* 1.7454	* 1.6755	* 2.8153 *
10	* 1.6322	* 1.6322	* 1.6301	* 1.5776	* 1.6686	* 1.5787	* 1.5915	* .7551 *
	* 1.7522	* 1.7502	* 1.7515	* 1.7141	* 1.6774	* 1.7586	* 1.7027	* 3.7001 *
11	* 1.6258	* 1.6890	* 1.5776	* 1.5958	* 1.4533	* 1.4212	* 1.4234	* .7251 *
	* 1.6993	* 1.6926	* 1.7189	* 1.6688	* 1.6596	* 1.7026	* 1.7519	* 3.7340 *
12	* 1.7265	* 1.6226	* 1.6686	* 1.4501	* 1.1449	* 1.1877	* .8750 *	
	* 1.6556	* 1.7020	* 1.6780	* 1.6596	* 1.5965	* 1.5660	* 2.5906 *	
13	* 1.5819	* 1.6290	* 1.5787	* 1.4212	* 1.1877	* 1.0678	* .6255 *	
	* 1.7383	* 1.7440	* 1.7587	* 1.7032	* 1.5665	* 1.6537	* 3.2094 *	
14	* 1.5497	* 1.6236	* 1.5915	* 1.4234	* .8750	* .6255 *		
	* 1.8237	* 1.6749	* 1.7020	* 1.7519	* 2.5906	* 3.2094 *		
15	* .7979	* .9960	* .7551	* .7251	* F-SUB-Q			
	* 3.5141	* 2.8117	* 3.7001	* 3.7348	* M-SUB-Q			

AT 50% POWER, 150 EFPD, THIS IS LEVEL 19 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .8782	* 1.4716	* 1.6493	* 1.6804	* 1.7693	* 1.6354	* 1.5947	* .8150 *
	* 2.7272	* 1.9594	* 1.8319	* 1.7332	* 1.7062	* 1.7714	* 1.8707	* 3.6313 *
9	* 1.4716	* 1.5744	* 1.6504	* 1.7232	* 1.6697	* 1.6675	* 1.6750	* 1.0185 *
	* 1.9594	* 1.8338	* 1.8289	* 1.7527	* 1.7429	* 1.7982	* 1.7113	* 2.9050 *
10	* 1.6493	* 1.6504	* 1.6547	* 1.6279	* 1.7104	* 1.6097	* 1.6397	* .7754 *
	* 1.8319	* 1.8297	* 1.7932	* 1.7420	* 1.7124	* 1.8126	* 1.7241	* 3.8062 *
11	* 1.6804	* 1.7243	* 1.6279	* 1.6386	* 1.5069	* 1.4555	* 1.4651	* .7411 *
	* 1.7332	* 1.7514	* 1.7476	* 1.7176	* 1.6952	* 1.7618	* 1.7969	* 3.8367 *
12	* 1.7693	* 1.6729	* 1.7104	* 1.5037	* 1.1942	* 1.2359	* .8975 *	
	* 1.7062	* 1.7387	* 1.7124	* 1.6953	* 1.6471	* 1.6076	* 2.6938 *	
13	* 1.6354	* 1.6697	* 1.6097	* 1.4544	* 1.2359	* 1.1138	* .6447 *	
	* 1.7714	* 1.7968	* 1.8126	* 1.7625	* 1.6082	* 1.7011	* 3.3401 *	
14	* 1.5947	* 1.6750	* 1.6397	* 1.4651	* .8975	* .6447 *		
	* 1.8707	* 1.7113	* 1.7241	* 1.7976	* 2.6938	* 3.3401 *		
15	* .8150	* 1.0196	* .7754	* .7411	* F-SUB-Q			
	* 3.6313	* 2.9031	* 3.8062	* 3.8367	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 50% POWER, 150 EFPD, THIS IS LEVEL 18 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .8932	* 1.4823	* 1.6643	* 1.7222	* 1.8036	* 1.6793	* 1.6311	* .8300
	* 2.8788	* 2.0520	* 1.9344	* 1.7987	* 1.7822	* 1.8328	* 1.9426	* 3.7862
9	* 1.4823	* 1.5926	* 1.6665	* 1.7511	* 1.7082	* 1.7007	* 1.7157	* 1.0378
	* 2.0520	* 1.9114	* 1.9221	* 1.8386	* 1.8012	* 1.8759	* 1.7724	* 3.0254
10	* 1.6643	* 1.6654	* 1.6783	* 1.6665	* 1.7447	* 1.6365	* 1.6772	* .7904
	* 1.9344	* 1.9230	* 1.8661	* 1.7873	* 1.7725	* 1.8832	* 1.7771	* 3.9651
11	* 1.7222	* 1.7532	* 1.6665	* 1.6750	* 1.5497	* 1.4865	* 1.4994	* .7551
	* 1.7987	* 1.8371	* 1.7917	* 1.7794	* 1.7589	* 1.8434	* 1.8594	* 3.9779
12	* 1.8036	* 1.7115	* 1.7447	* 1.5465	* 1.2456	* 1.2820	* .9189	*
	* 1.7822	* 1.8005	* 1.7725	* 1.7596	* 1.7196	* 1.6745	* 2.8241	*
13	* 1.6793	* 1.7018	* 1.6365	* 1.4855	* 1.2820	* 1.1567	* .6640	*
	* 1.8328	* 1.8743	* 1.8832	* 1.8441	* 1.6745	* 1.7761	* 3.5084	*
14	* 1.6311	* 1.7157	* 1.6783	* 1.4994	* .9189	* .6640	*	*
	* 1.9426	* 1.7717	* 1.7771	* 1.8594	* 2.8254	* 3.5084	*	*
15	* .8300	* 1.0389	* .7904	* .7551	* F-SUB-Q			
	* 3.7862	* 3.0234	* 3.9651	* 3.9782	* M-SUB-Q			

AT 50% POWER, 150 EFPD, THIS IS LEVEL 17 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .8868	* 1.4651	* 1.6472	* 1.7307	* 1.8004	* 1.6911	* 1.6354	* .8257
	* 3.1483	* 2.2353	* 2.1048	* 1.9304	* 1.9198	* 1.9614	* 2.0809	* 4.0836
9	* 1.4651	* 1.5862	* 1.6493	* 1.7447	* 1.7190	* 1.6975	* 1.7254	* 1.0346
	* 2.2353	* 2.0690	* 2.0894	* 1.9858	* 1.9281	* 2.0210	* 1.9003	* 3.2558
10	* 1.6472	* 1.6483	* 1.6708	* 1.6761	* 1.7468	* 1.6301	* 1.6868	* .7915
	* 2.1048	* 2.0904	* 2.0141	* 1.9064	* 1.9028	* 2.0257	* 1.9040	* 4.2511
11	* 1.7307	* 1.7468	* 1.6761	* 1.6772	* 1.5658	* 1.4876	* 1.5090	* .7529
	* 1.9304	* 1.9841	* 1.9114	* 1.9020	* 1.8773	* 1.9751	* 1.9854	* 4.2742
12	* 1.8004	* 1.7222	* 1.7468	* 1.5615	* 1.2681	* 1.3045	* .9221	*
	* 1.9198	* 1.9273	* 1.9028	* 1.8773	* 1.8483	* 1.8021	* 3.0357	*
13	* 1.6911	* 1.6986	* 1.6301	* 1.4876	* 1.3034	* 1.1802	* .6683	*
	* 1.9614	* 2.0192	* 2.0266	* 1.9760	* 1.8022	* 1.9189	* 3.8083	*
14	* 1.6354	* 1.7265	* 1.6868	* 1.5090	* .9211	* .6683	*	*
	* 2.0809	* 1.8995	* 1.9040	* 1.9862	* 3.0357	* 3.8083	*	*
15	* .8257	* 1.0357	* .7915	* .7529	* F-SUB-Q			
	* 4.0836	* 3.2558	* 4.2551	* 4.2742	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 50% POWER, 150 EFPD, THIS IS LEVEL 16 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .8825	* 1.4533	* 1.6365	* 1.7361	* 1.8004	* 1.6997	* 1.6397	* .8257 *
	* 3.4817	* 2.4682	* 2.2965	* 2.0885	* 2.0642	* 2.1092	* 2.2188	* 4.3514 *
9	* 1.4533	* 1.5797	* 1.6397	* 1.7414	* 1.7265	* 1.6975	* 1.7318	* 1.0346 *
	* 2.4682	* 2.2904	* 2.2919	* 2.1432	* 2.0895	* 2.1675	* 2.0417	* 3.4726 *
10	* 1.6365	* 1.6386	* 1.6686	* 1.6825	* 1.7500	* 1.6290	* 1.6933	* .7936 *
	* 2.2965	* 2.2931	* 2.2058	* 2.0865	* 2.0756	* 2.2133	* 2.0885	* 4.5319 *
11	* 1.7361	* 1.7425	* 1.6815	* 1.6825	* 1.5765	* 1.4930	* 1.5176	* .7551 *
	* 2.0885	* 2.1412	* 2.0933	* 2.0709	* 2.0465	* 2.1463	* 2.1748	* 4.6590 *
12	* 1.8004	* 1.7297	* 1.7500	* 1.5722	* 1.2809	* 1.3205	* .9275 *	
	* 2.0642	* 2.0846	* 2.0765	* 2.0475	* 2.0043	* 1.9632	* 3.2978 *	
13	* 1.6997	* 1.6986	* 1.6290	* 1.4919	* 1.3205	* 1.1995	* .6758 *	
	* 2.1092	* 2.1655	* 2.2144	* 2.1473	* 1.9640	* 2.0906	* 4.1213 *	
14	* 1.6397	* 1.7329	* 1.6933	* 1.5176	* .9275	* .6758 *		
	* 2.2188	* 2.0408	* 2.0885	* 2.1748	* 3.3000	* 4.1213 *		
15	* .8257	* 1.0357	* .7936	* .7540	* F-SUB-Q			
	* 4.3514	* 3.4726	* 4.5319	* 4.6593	* M-SUB-Q			

AT 50% POWER, 150 EFPD, THIS IS LEVEL 15 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .8589	* 1.4169	* 1.5969	* 1.6997	* 1.7650	* 1.6665	* 1.6086	* .8107 *
	* 3.9692	* 2.7916	* 2.5497	* 2.3309	* 2.2782	* 2.3418	* 2.4419	* 4.7728 *
9	* 1.4169	* 1.5401	* 1.6022	* 1.7061	* 1.6922	* 1.6654	* 1.6986	* 1.0153 *
	* 2.7916	* 2.6043	* 2.5427	* 2.3729	* 2.3249	* 2.3852	* 2.2656	* 3.8026 *
10	* 1.5969	* 1.6011	* 1.6354	* 1.6504	* 1.7200	* 1.5990	* 1.6611	* .7765 *
	* 2.5497	* 2.5441	* 2.4906	* 2.3777	* 2.3346	* 2.4893	* 2.3142	* 4.9732 *
11	* 1.6997	* 1.7072	* 1.6504	* 1.6558	* 1.5530	* 1.4716	* 1.4930	* .7433 *
	* 2.3309	* 2.3705	* 2.3864	* 2.3397	* 2.3266	* 2.4206	* 2.4777	* 5.1853 *
12	* 1.7650	* 1.6954	* 1.7190	* 1.5487	* 1.2681	* 1.3088	* .9189 *	
	* 2.2782	* 2.3190	* 2.3346	* 2.3278	* 2.2600	* 2.2317	* 3.7145 *	
13	* 1.6665	* 1.6665	* 1.5990	* 1.4716	* 1.3088	* 1.1931	* .6747 *	
	* 2.3418	* 2.3840	* 2.4879	* 2.4219	* 2.2328	* 2.3755	* 4.6281 *	
14	* 1.6086	* 1.6986	* 1.6611	* 1.4930	* .9189	* .6747 *		
	* 2.4419	* 2.2645	* 2.3131	* 2.4778	* 3.7145	* 4.6281 *		
15	* .8107	* 1.0164	* .7765	* .7433	* F-SUB-Q			
	* 4.7728	* 3.8026	* 4.9732	* 5.1911	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 50% POWER, 150 EFPD, THIS IS LEVEL 14 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .8579	* 1.4126	* 1.5915	* 1.7125	* 1.7682	* 1.6815	* 1.6172	* .8107
	* 4.4238	* 3.1225	* 2.7511	* 2.4944	* 2.4355	* 2.5026	* 2.5888	* 5.0758
9	* 1.4126	* 1.5465	* 1.5969	* 1.7061	* 1.7072	* 1.6665	* 1.7136	* 1.0164
	* 3.1225	* 2.8206	* 2.7446	* 2.5421	* 2.4890	* 2.5532	* 2.4183	* 4.0536
10	* 1.5915	* 1.5969	* 1.6386	* 1.6675	* 1.7307	* 1.6033	* 1.6793	* .7818
	* 2.7511	* 2.7463	* 2.6891	* 2.5886	* 2.5024	* 2.6798	* 2.4836	* 5.2895
11	* 1.7125	* 1.7072	* 1.6665	* 1.6686	* 1.5776	* 1.4876	* 1.5165	* .7476
	* 2.4944	* 2.5407	* 2.5900	* 2.6018	* 2.6092	* 2.7110	* 2.7596	* 5.5549
12	* 1.7682	* 1.7115	* 1.7297	* 1.5722	* 1.2916	* 1.3441		* .9328
	* 2.4355	* 2.4823	* 2.5024	* 2.6107	* 2.5310	* 2.5078		* 4.1662
13	* 1.6815	* 1.6675	* 1.6033	* 1.4865	* 1.3441	* 1.2327		* .6897
	* 2.5026	* 2.5518	* 2.6798	* 2.7126	* 2.5078	* 2.6680		* 5.1971
14	* 1.6172	* 1.7147	* 1.6793	* 1.5165		* .9328		* .6897
	* 2.5888	* 2.4183	* 2.4836	* 2.7596		* 4.1699		* 5.1971
15	* .8107	* 1.0174	* .7818	* .7465				* F-SUB-Q
	* 5.0758	* 4.0500	* 5.2895	* 5.5615				* M-SUB-Q

AT 50% POWER, 150 EFPD, THIS IS LEVEL 13 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .8579	* 1.4052	* 1.5754	* 1.7029	* 1.7554	* 1.6729	* 1.6076	* .8043
	* 4.6416	* 3.2764	* 2.9538	* 2.7002	* 2.6270	* 2.7271	* 2.7950	* 5.4787
9	* 1.4052	* 1.5369	* 1.5829	* 1.6922	* 1.6997	* 1.6547	* 1.7072	* 1.0100
	* 3.2764	* 3.0441	* 2.9500	* 2.7361	* 2.7049	* 2.7718	* 2.6316	* 4.3768
10	* 1.5754	* 1.5819	* 1.6311	* 1.6654	* 1.7286	* 1.5979	* 1.6783	* .7797
	* 2.9538	* 2.9519	* 2.8935	* 2.7808	* 2.7171	* 2.9133	* 2.7033	* 5.6989
11	* 1.7029	* 1.6943	* 1.6643	* 1.6729	* 1.5915	* 1.5015	* 1.5272	* .7476
	* 2.7002	* 2.7345	* 2.7891	* 2.7218	* 2.7512	* 2.8669	* 2.9685	* 6.0293
12	* 1.7554	* 1.7029	* 1.7275	* 1.5872	* 1.3238	* 1.3848		* .9489
	* 2.6270	* 2.6986	* 2.7186	* 2.7561	* 2.6584	* 2.6785		* 4.4433
13	* 1.6729	* 1.6558	* 1.5979	* 1.5005	* 1.3848	* 1.2809		* .7101
	* 2.7271	* 2.7685	* 2.9133	* 2.8687	* 2.6785	* 2.8627		* 5.5899
14	* 1.6076	* 1.7072	* 1.6783	* 1.5262		* .9489		* .7101
	* 2.7950	* 2.6301	* 2.7033	* 2.9685		* 4.4433		* 5.5899
15	* .8043	* 1.0100	* .7786	* .7476				* F-SUB-Q
	* 5.4787	* 4.3727	* 5.7058	* 6.0293				* M-SUB-Q

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 50% POWER, 150 EFPD, THIS IS LEVEL 12 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .8868	* 1.3987	* 1.5519	* 1.6740	* 1.7275	* 1.6451	* 1.5829	* .7915
	* 4.7746	* 3.3263	* 2.9134	* 2.6774	* 2.5902	* 2.7083	* 2.8004	* 5.5544
9	* 1.3987	* 1.5165	* 1.5594	* 1.6675	* 1.6718	* 1.6301	* 1.6836	* .9950
	* 3.3263	* 3.0125	* 2.9080	* 2.6989	* 2.6820	* 2.7447	* 2.6562	* 4.4572
10	* 1.5519	* 1.5594	* 1.6151	* 1.6547	* 1.7147	* 1.5851	* 1.6600	* .7690
	* 2.9134	* 2.9098	* 2.8497	* 2.7821	* 2.6835	* 2.8990	* 2.7415	* 5.8159
11	* 1.6740	* 1.6686	* 1.6515	* 1.6740	* 1.6011	* 1.5219	* 1.5262	* .7443
	* 2.6774	* 2.6974	* 2.7821	* 2.7904	* 2.8325	* 2.9389	* 3.0576	* 6.1919
12	* 1.7275	* 1.6761	* 1.7147	* 1.5958	* 1.4105	* 1.4491	* .9693	
	* 2.5902	* 2.6758	* 2.6850	* 2.8376	* 2.7256	* 2.7576	* 4.5523	
13	* 1.6451	* 1.6311	* 1.5851	* 1.5208	* 1.4491	* 1.3559	* .7368	
	* 2.7083	* 2.7431	* 2.8990	* 2.9407	* 2.7592	* 2.9481	* 5.7237	
14	* 1.5829	* 1.6836	* 1.6600	* 1.5262	* .9693	* .7368		
	* 2.8004	* 2.6547	* 2.7415	* 3.0576	* 4.5523	* 5.7237		
15	* .7915	* .9950	* .7690	* .7433	* F-SUB-Q			
	* 5.5544	* 4.4572	* 5.8159	* 6.1919	* M-SUB-Q			

AT 50% POWER, 150 EFPD, THIS IS LEVEL 11 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9478	* 1.4276	* 1.5615	* 1.6900	* 1.7382	* 1.6611	* 1.5958	* .7947
	* 4.7892	* 3.2103	* 2.8155	* 2.5760	* 2.4992	* 2.6046	* 2.6958	* 5.3701
9	* 1.4276	* 1.5347	* 1.5712	* 1.6783	* 1.6975	* 1.6408	* 1.7040	* 1.0014
	* 3.2103	* 2.9026	* 2.8104	* 2.6060	* 2.5788	* 2.6502	* 2.5536	* 4.3020
10	* 1.5615	* 1.5701	* 1.6354	* 1.6900	* 1.7436	* 1.6076	* 1.6868	* .7765
	* 2.8155	* 2.8121	* 2.7511	* 2.6758	* 2.5859	* 2.8004	* 2.6368	* 5.6142
11	* 1.6900	* 1.6804	* 1.6879	* 1.7147	* 1.6590	* 1.5851	* 1.5712	* .7561
	* 2.5760	* 2.6046	* 2.6774	* 2.7193	* 2.8223	* 2.9334	* 2.9781	* 5.9865
12	* 1.7382	* 1.6975	* 1.7425	* 1.6536	* 1.5915	* 1.5936	* 1.0153	
	* 2.4992	* 2.5732	* 2.5873	* 2.8240	* 2.7161	* 2.7399	* 4.5479	
13	* 1.6611	* 1.6429	* 1.6076	* 1.5840	* 1.5936	* 1.4930	* .7861	
	* 2.6046	* 2.6487	* 2.8004	* 2.9352	* 2.7399	* 2.9279	* 5.7098	
14	* 1.5958	* 1.7040	* 1.6868	* 1.5712	* 1.0153	* .7861		
	* 2.6958	* 2.5522	* 2.6368	* 2.9781	* 4.5523	* 5.7098		
15	* .7947	* 1.0025	* .7754	* .7561	* F-SUB-Q			
	* 5.3701	* 4.2980	* 5.6142	* 5.9865	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 50% POWER, 150 EFPD, THIS IS LEVEL 10 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9885	* 1.4319	* 1.5508	* 1.6836	* 1.7265	* 1.6558	* 1.5883	* .7872
	* 4.6887	* 3.1082	* 2.7287	* 2.4846	* 2.4181	* 2.5045	* 2.5859	* 5.1294
9	* 1.4319	* 1.5337	* 1.5604	* 1.6675	* 1.7007	* 1.6311	* 1.7018	* .9960
	* 3.1082	* 2.8037	* 2.7287	* 2.5261	* 2.4872	* 2.5605	* 2.4483	* 4.1134
10	* 1.5508	* 1.5594	* 1.6343	* 1.7029	* 1.7479	* 1.6086	* 1.6933	* .7733
	* 2.7287	* 2.7303	* 2.6728	* 2.5888	* 2.5085	* 2.7145	* 2.5343	* 5.3701
11	* 1.6836	* 1.6697	* 1.6997	* 1.7307	* 1.6965	* 1.6194	* 1.5936	* .7572
	* 2.4846	* 2.5234	* 2.5902	* 2.6472	* 2.7608	* 2.8900	* 2.8706	* 5.7377
12	* 1.7265	* 1.7007	* 1.7468	* 1.6922	* 1.7254	* 1.7082	* 1.0432	
	* 2.4181	* 2.4820	* 2.5085	* 2.7674	* 2.7145	* 2.7193	* 4.4488	
13	* 1.6558	* 1.6322	* 1.6086	* 1.6172	* 1.7072	* 1.5915	* .8172	
	* 2.5045	* 2.5577	* 2.7145	* 2.8918	* 2.7193	* 2.9098	* 5.6142	
14	* 1.5883	* 1.7029	* 1.6933	* 1.5926	* 1.0421	* .8172		
	* 2.5859	* 2.4470	* 2.5343	* 2.8706	* 4.4488	* 5.6142		
15	* .7872	* .9960	* .7722	* .7572	* F-SUB-Q			
	* 5.1294	* 4.1098	* 5.3701	* 5.7447	* M-SUB-Q			

AT 50% POWER, 150 EFPD, THIS IS LEVEL 9 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9885	* 1.4191	* 1.5305	* 1.6611	* 1.7040	* 1.6343	* 1.5679	* .7765
	* 4.5303	* 2.9649	* 2.6075	* 2.3728	* 2.3109	* 2.3934	* 2.4702	* 4.9095
9	* 1.4191	* 1.5176	* 1.5422	* 1.6461	* 1.6858	* 1.6097	* 1.6858	* .9832
	* 2.9649	* 2.6743	* 2.6060	* 2.4131	* 2.3740	* 2.4470	* 2.3350	* 3.9341
10	* 1.5305	* 1.5401	* 1.6194	* 1.6986	* 1.7361	* 1.5969	* 1.6836	* .7658
	* 2.6075	* 2.6075	* 2.5494	* 2.4663	* 2.3885	* 2.5888	* 2.4143	* 5.1294
11	* 1.6611	* 1.6483	* 1.6933	* 1.7275	* 1.7115	* 1.6333	* 1.5947	* .7540
	* 2.3728	* 2.4106	* 2.4676	* 2.5179	* 2.6532	* 2.7887	* 2.7240	* 5.4702
12	* 1.7040	* 1.6858	* 1.7350	* 1.7072	* 1.7607	* 1.7479	* 1.0528	
	* 2.3109	* 2.3692	* 2.3885	* 2.6622	* 2.6147	* 2.6176	* 4.2980	
13	* 1.6343	* 1.6108	* 1.5958	* 1.6322	* 1.7479	* 1.6322	* .8322	
	* 2.3934	* 2.4458	* 2.5888	* 2.7904	* 2.6176	* 2.8021	* 5.4197	
14	* 1.5679	* 1.6858	* 1.6836	* 1.5947	* 1.0528	* .8322		
	* 2.4702	* 2.3350	* 2.4143	* 2.7256	* 4.3020	* 5.4197		
15	* .7765	* .9832	* .7647	* .7529	* F-SUB-Q			
	* 4.9095	* 3.9309	* 5.1294	* 5.4766	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 50% POWER, 150 EFPD, THIS IS LEVEL 8 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9693	* 1.3923	* 1.4983	* 1.6194	* 1.6665	* 1.5936	* 1.5337	* .7604
	* 4.3337	* 2.8514	* 2.5125	* 2.2985	* 2.2286	* 2.3177	* 2.3849	* 4.7408
9	* 1.3923	* 1.4833	* 1.5101	* 1.6140	* 1.6493	* 1.5776	* 1.6483	* .9639
	* 2.8514	* 2.5816	* 2.5085	* 2.3258	* 2.2985	* 2.3597	* 2.2586	* 3.7973
10	* 1.4983	* 1.5090	* 1.5904	* 1.6675	* 1.7061	* 1.5701	* 1.6504	* .7497
	* 2.5125	* 2.5112	* 2.4509	* 2.3788	* 2.2962	* 2.4872	* 2.3281	* 4.9666
11	* 1.6194	* 1.6140	* 1.6611	* 1.7050	* 1.6890	* 1.6226	* 1.5712	* .7422
	* 2.2985	* 2.3246	* 2.3800	* 2.4156	* 2.5480	* 2.6758	* 2.6162	* 5.2558
12	* 1.6665	* 1.6493	* 1.7050	* 1.6868	* 1.7511	* 1.7393	* 1.0453	*
	* 2.2286	* 2.2940	* 2.2962	* 2.5563	* 2.5058	* 2.5247	* 4.1315	*
13	* 1.5936	* 1.5787	* 1.5701	* 1.6215	* 1.7393	* 1.6268	* .8311	*
	* 2.3177	* 2.3573	* 2.4872	* 2.6774	* 2.5261	* 2.7052	* 5.2265	*
14	* 1.5337	* 1.6483	* 1.6504	* 1.5712	* 1.0453	* .8311	*	*
	* 2.3849	* 2.2575	* 2.3281	* 2.6176	* 4.1315	* 5.2324	*	*
15	* .7604	* .9639	* .7486	* .7422	* F-SUB-Q			
	* 4.7408	* 3.7942	* 4.9666	* 5.2558	* M-SUB-Q			

AT 50% POWER, 150 EFPD, THIS IS LEVEL 7 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9585	* 1.3762	* 1.4812	* 1.6108	* 1.6504	* 1.5851	* 1.5230	* .7508
	* 4.0287	* 2.7177	* 2.3995	* 2.1850	* 2.1285	* 2.2056	* 2.2751	* 4.5523
9	* 1.3762	* 1.4748	* 1.4940	* 1.5979	* 1.6440	* 1.5604	* 1.6429	* .9543
	* 2.7177	* 2.4496	* 2.3946	* 2.2212	* 2.1850	* 2.2554	* 2.1451	* 3.6355
10	* 1.4812	* 1.4930	* 1.5754	* 1.6654	* 1.6954	* 1.5583	* 1.6483	* .7443
	* 2.3995	* 2.3958	* 2.3327	* 2.2543	* 2.1789	* 2.3692	* 2.2035	* 4.7313
11	* 1.6108	* 1.5979	* 1.6590	* 1.6965	* 1.6954	* 1.6204	* 1.5733	* .7358
	* 2.1850	* 2.2191	* 2.2554	* 2.2884	* 2.3788	* 2.4859	* 2.4625	* 5.0090
12	* 1.6504	* 1.6440	* 1.6954	* 1.6933	* 1.7532	* 1.7500	* 1.0421	*
	* 2.1285	* 2.1800	* 2.1800	* 2.3849	* 2.3514	* 2.3609	* 3.8661	*
13	* 1.5851	* 1.5615	* 1.5572	* 1.6194	* 1.7500	* 1.6397	* .8311	*
	* 2.2056	* 2.2543	* 2.3692	* 2.4886	* 2.3609	* 2.5261	* 4.9353	*
14	* 1.5230	* 1.6429	* 1.6483	* 1.5733	* 1.0421	* .8311	*	*
	* 2.2751	* 2.1441	* 2.2035	* 2.4625	* 3.8661	* 4.9353	*	*
15	* .7508	* .9543	* .7443	* .7358	* F-SUB-Q			
	* 4.5523	* 3.6327	* 4.7313	* 5.0090	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 50% POWER, 150 EFPD, THIS IS LEVEL 6 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9307	* 1.3388	* 1.4405	* 1.5637	* 1.6054	* 1.5390	* 1.4823	* .7294
	* 3.8566	* 2.6279	* 2.3339	* 2.1344	* 2.0767	* 2.1579	* 2.2212	* 4.4572
9	* 1.3388	* 1.4351	* 1.4544	* 1.5540	* 1.5990	* 1.5176	* 1.5990	* .9275
	* 2.6279	* 2.3776	* 2.3269	* 2.1649	* 2.1353	* 2.2014	* 2.0934	* 3.5529
10	* 1.4405	* 1.4523	* 1.5337	* 1.6226	* 1.6536	* 1.5197	* 1.6065	* .7251
	* 2.3339	* 2.3292	* 2.2630	* 2.1901	* 2.1113	* 2.2962	* 2.1412	* 4.6150
11	* 1.5637	* 1.5540	* 1.6151	* 1.6536	* 1.6547	* 1.5840	* 1.5358	* .7165
	* 2.1344	* 2.1629	* 2.1911	* 2.2066	* 2.2696	* 2.3740	* 2.3740	* 4.8637
12	* 1.6054	* 1.5979	* 1.6526	* 1.6536	* 1.7136	* 1.7125	* 1.0185	*
	* 2.0767	* 2.1295	* 2.1113	* 2.2751	* 2.2108	* 2.2244	* 3.6782	*
13	* 1.5390	* 1.5187	* 1.5187	* 1.5829	* 1.7125	* 1.6054	* .8129	*
	* 2.1579	* 2.1994	* 2.2962	* 2.3752	* 2.2244	* 2.3837	* 4.6562	*
14	* 1.4823	* 1.5990	* 1.6065	* 1.5358	* 1.0174	* .8129	*	*
	* 2.2212	* 2.0934	* 2.1421	* 2.3740	* 3.6782	* 4.6562	*	*
15	* .7294	* .9286	* .7240	* .7165	* F-SUB-Q			
	* 4.4572	* 3.5503	* 4.6195	* 4.8637	* M-SUB-Q			

AT 50% POWER, 150 EFPD, THIS IS LEVEL 5 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .8846	* 1.2745	* 1.3709	* 1.4726	* 1.5230	* 1.4480	* 1.4030	* .6929
	* 3.8345	* 2.5816	* 2.3281	* 2.1599	* 2.0850	* 2.1871	* 2.2414	* 4.4870
9	* 1.2745	* 1.3580	* 1.3859	* 1.4769	* 1.5058	* 1.4416	* 1.5069	* .8793
	* 2.5816	* 2.3812	* 2.3189	* 2.1689	* 2.1619	* 2.2108	* 2.1180	* 3.5800
10	* 1.3709	* 1.3848	* 1.4576	* 1.5326	* 1.5701	* 1.4480	* 1.5165	* .6844
	* 2.3281	* 2.3200	* 2.2543	* 2.1983	* 2.1037	* 2.2850	* 2.1569	* 4.6608
11	* 1.4726	* 1.4769	* 1.5262	* 1.5722	* 1.5615	* 1.5069	* 1.4523	* .6812
	* 2.1599	* 2.1669	* 2.2004	* 2.1709	* 2.2478	* 2.3409	* 2.3538	* 4.8486
12	* 1.5230	* 1.5058	* 1.5701	* 1.5604	* 1.6290	* 1.6194	* .9703	*
	* 2.0850	* 2.1569	* 2.1047	* 2.2565	* 2.1850	* 2.2066	* 3.6468	*
13	* 1.4480	* 1.4426	* 1.4469	* 1.5058	* 1.6194	* 1.5187	* .7743	*
	* 2.1871	* 2.2087	* 2.2850	* 2.3420	* 2.2076	* 2.3621	* 4.5969	*
14	* 1.4030	* 1.5069	* 1.5165	* 1.4512	* .9703	* .7743	*	*
	* 2.2414	* 2.1180	* 2.1569	* 2.3538	* 3.6468	* 4.5969	*	*
15	* .6929	* .8793	* .6844	* .6812	* F-SUB-Q			
	* 4.4870	* 3.5773	* 4.6654	* 4.8536	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 50% POWER, 150 EFPD, THIS IS LEVEL 4 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .8450	* 1.2156	* 1.3098	* 1.3998	* 1.4555	* 1.3752	* 1.3366	* .6597
	* 3.6840	* 2.5536	* 2.3281	* 2.1749	* 2.0906	* 2.2076	* 2.2586	* 4.5303
9	* 1.2156	* 1.2916	* 1.3248	* 1.4094	* 1.4309	* 1.3730	* 1.4276	* .8332
	* 2.5536	* 2.3800	* 2.3143	* 2.1739	* 2.1769	* 2.2233	* 2.1412	* 3.6215
10	* 1.3098	* 1.3238	* 1.3902	* 1.4576	* 1.4994	* 1.3805	* 1.4362	* .6490
	* 2.3281	* 2.3155	* 2.2478	* 2.1973	* 2.0943	* 2.2795	* 2.1739	* 4.7076
11	* 1.3998	* 1.4094	* 1.4512	* 1.5015	* 1.4833	* 1.4362	* 1.3762	* .6458
	* 2.1749	* 2.1719	* 2.2014	* 2.1451	* 2.2212	* 2.2951	* 2.3467	* 4.8738
12	* 1.4555	* 1.4309	* 1.4994	* 1.4833	* 1.5540	* 1.5369	* .9221	*
	* 2.0906	* 2.1749	* 2.0953	* 2.2286	* 2.1629	* 2.2076	* 3.5883	*
13	* 1.3752	* 1.3741	* 1.3794	* 1.4351	* 1.5369	* 1.4405	* .7358	*
	* 2.2076	* 2.2212	* 2.2795	* 2.2973	* 2.2087	* 2.3728	* 4.5924	*
14	* 1.3366	* 1.4287	* 1.4362	* 1.3762	* .9221	* .7358	*	*
	* 2.2586	* 2.1412	* 2.1739	* 2.3479	* 3.5883	* 4.5924	*	*
15	* .6597	* .8332	* .6490	* .6447	* F-SUB-Q			
	* 4.5303	* 3.6215	* 4.7076	* 4.8738	* M-SUB-Q			

AT 50% POWER, 150 EFPD, THIS IS LEVEL 3 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .7690	* 1.0967	* 1.1845	* 1.2702	* 1.3280	* 1.2466	* 1.2113	* .5987
	* 3.8597	* 2.6927	* 2.4754	* 2.3098	* 2.2076	* 2.3491	* 2.4069	* 4.8336
9	* 1.0967	* 1.1588	* 1.1984	* 1.2841	* 1.2938	* 1.2434	* 1.2723	* .7486
	* 2.6927	* 2.5466	* 2.4612	* 2.2973	* 2.3086	* 2.3633	* 2.3120	* 3.8950
10	* 1.1845	* 1.1974	* 1.2616	* 1.3205	* 1.3580	* 1.2413	* 1.2723	* .5858
	* 2.4754	* 2.4625	* 2.3728	* 2.3120	* 2.2160	* 2.4306	* 2.3573	* 5.0359
11	* 1.2702	* 1.2831	* 1.3141	* 1.3698	* 1.3398	* 1.2948	* 1.2177	* .5805
	* 2.3098	* 2.2951	* 2.3166	* 2.2435	* 2.3292	* 2.4230	* 2.5384	* 5.2034
12	* 1.3280	* 1.2938	* 1.3580	* 1.3398	* 1.4084	* 1.3709	* .8322	*
	* 2.2076	* 2.3064	* 2.2170	* 2.3350	* 2.2414	* 2.3235	* 3.7729	*
13	* 1.2466	* 1.2445	* 1.2402	* 1.2938	* 1.3698	* 1.2798	* .6608	*
	* 2.3491	* 2.3609	* 2.4306	* 2.4243	* 2.3246	* 2.5045	* 4.8187	*
14	* 1.2113	* 1.2734	* 1.2723	* 1.2177	* .8322	* .6608	*	*
	* 2.4069	* 2.3120	* 2.3573	* 2.5384	* 3.7759	* 4.8187	*	*
15	* .5987	* .7486	* .5848	* .5794	* F-SUB-Q			
	* 4.8336	* 3.8950	* 5.0359	* 5.2034	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 50% POWER, 150 EFPD, THIS IS LEVEL 2 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .6297	* .8739	* .9468	* 1.1460	* 1.0849	* 1.1245	* .9896	* .4905
	* 4.5086	* 3.2548	* 2.9990	* 2.4781	* 2.6176	* 2.5220	* 2.8584	* 5.7377
9	* .8739	* 1.0239	* .9521	* 1.0464	* 1.1652	* 1.0078	* 1.0421	* .5998
	* 3.2548	* 2.7805	* 3.0009	* 2.7303	* 2.4637	* 2.8257	* 2.7256	* 4.7218
10	* .9468	* .9510	* 1.0228	* 1.1899	* 1.1085	* .9778	* 1.0282	* .4798
	* 2.9990	* 3.0028	* 2.8274	* 2.4637	* 2.6279	* 2.9781	* 2.8155	* 5.9486
11	* 1.1460	* 1.0453	* 1.1867	* 1.1181	* 1.2017	* 1.0357	* .9607	* .4702
	* 2.4781	* 2.7287	* 2.4702	* 2.6412	* 2.4978	* 2.9188	* 3.1021	* 6.2082
12	* 1.0849	* 1.1652	* 1.1053	* 1.2006	* 1.1449	* 1.1224	* .6801	*
	* 2.6176	* 2.4586	* 2.6294	* 2.5045	* 2.6442	* 2.7130	* 4.4445	*
13	* 1.1245	* 1.0089	* .9768	* 1.0346	* 1.1224	* 1.0035	* .5334	*
	* 2.5220	* 2.8240	* 2.9781	* 2.9206	* 2.7145	* 3.0556	* 5.7307	*
14	* .9896	* 1.0421	* 1.0282	* .9596	* .6801	* .5334	*	*
	* 2.8584	* 2.7256	* 2.8155	* 3.1041	* 4.4488	* 5.7307	*	*
15	* .4905	* .5998	* .4798	* .4702	* F-SUB-Q			
	* 5.7377	* 4.7170	* 5.9486	* 6.2082	* M-SUB-Q			

AT 50% POWER, 150 EFPD, THIS IS LEVEL 1 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .4198	* .3588	* .4006	* .4766	* .4445	* .4670	* .4070	* .3213
	* 6.5459	* 7.6316	* 6.8219	* 5.7307	* 6.1675	* 5.8376	* 6.6953	* 8.4872
9	* .3588	* .4188	* .3898	* .4413	* .4841	* .4327	* .4059	* .2624
	* 7.6316	* 6.5368	* 7.1005	* 6.2746	* 5.6821	* 6.3339	* 6.7241	* 10.3837
10	* .4006	* .3888	* .4455	* .4959	* .4595	* .4006	* .3963	* .3245
	* 6.8219	* 7.1005	* 6.2830	* 5.6684	* 6.1675	* 6.9739	* 7.0156	* 8.4872
11	* .4766	* .4413	* .4948	* .4595	* .4991	* .4241	* .3652	* .2206
	* 5.7307	* 6.2663	* 5.6821	* 6.1919	* 5.7518	* 6.8417	* 7.8094	* 12.7539
12	* .4445	* .4841	* .4584	* .4980	* .4702	* .4370	* .3181	*
	* 6.1675	* 5.6753	* 6.1756	* 5.7659	* 6.1594	* 6.6858	* 9.1490	*
13	* .4670	* .4338	* .3995	* .4241	* .4359	* .3888	* .2399	*
	* 5.8376	* 6.3254	* 6.9843	* 6.8517	* 6.6953	* 7.5457	* 12.2225	*
14	* .4070	* .4059	* .3963	* .3652	* .3181	* .2399	*	*
	* 6.6953	* 6.7241	* 7.0156	* 7.8094	* 9.1490	* 12.2225	*	*
15	* .3213	* .2635	* .3245	* .2206	* F-SUB-Q			
	* 8.4872	* 10.3837	* 8.5026	* 12.7887	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 50% POWER, 250 EFPD, THIS IS LEVEL 24 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .4359	* .4295	* .4916	* .5484	* .5355	* .5087	* .3888	* .3117
	* 4.3213	* 4.9344	* 4.4134	* 3.9275	* 4.1626	* 4.0643	* 4.6698	* 5.3634
9	* .4295	* .4562	* .4680	* .5184	* .5462	* .5002	* .4402	* .2967
	* 4.9344	* 4.2854	* 4.4652	* 4.2682	* 3.9521	* 4.3616	* 4.5536	* 6.6992
10	* .4916	* .4680	* .4123	* .5034	* .5087	* .4787	* .4498	* .3748
	* 4.4134	* 4.4684	* 4.4391	* 4.0615	* 4.3368	* 4.6913	* 4.7599	* 5.6310
11	* .5484	* .5194	* .5034	* .4595	* .4702	* .4402	* .4059	* .2677
	* 3.9275	* 4.2670	* 4.0643	* 4.4743	* 4.3128	* 4.9252	* 5.4582	* 8.4450
12	* .5355	* .5473	* .5087	* .4702	* .3748	* .3534	* .3267	
	* 4.1626	* 3.9458	* 4.3337	* 4.3128	* 4.5060	* 4.7244	* 6.3236	
13	* .5087	* .5012	* .4777	* .4402	* .3534	* .3042	* .2260	
	* 4.0643	* 4.3529	* 4.6949	* 4.9257	* 4.7244	* 5.2347	* 8.1898	
14	* .3888	* .4402	* .4498	* .4059	* .3267	* .2260		
	* 4.6698	* 4.5487	* 4.7599	* 5.4582	* 6.3236	* 8.1898		
15	* .3117	* .2967	* .3759	* .2677	F-SUB-Q			
	* 5.3634	* 6.6992	* 5.6310	* 8.4450	M-SUB-Q			

AT 50% POWER, 250 EFPD, THIS IS LEVEL 23 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .6008	* .9842	* 1.1053	* 1.0988	* 1.2134	* 1.0453	* .8579	* .4541
	* 3.1069	* 2.2868	* 2.0508	* 2.0664	* 1.9338	* 2.1265	* 2.1907	* 3.9481
9	* .9842	* .9382	* 1.0753	* 1.1674	* 1.0903	* 1.1235	* .9939	* .6437
	* 2.2868	* 2.1889	* 2.0301	* 1.9757	* 2.0810	* 2.0515	* 2.1272	* 3.2852
10	* 1.1053	* 1.0753	* .8568	* 1.0335	* 1.1610	* 1.1117	* 1.0249	* .5226
	* 2.0508	* 2.0301	* 2.0430	* 2.1281	* 2.0243	* 2.1225	* 2.1925	* 4.3018
11	* 1.0988	* 1.1685	* 1.0346	* 1.0421	* .9660	* 1.0089	* .9436	* .5344
	* 2.0664	* 1.9741	* 2.1281	* 2.0797	* 2.2348	* 2.2440	* 2.4545	* 4.4031
12	* 1.2134	* 1.0924	* 1.1610	* .9660	* .7979	* .8054	* .6480	
	* 1.9338	* 2.0762	* 2.0240	* 2.2348	* 2.0746	* 2.1908	* 3.3014	
13	* 1.0453	* 1.1245	* 1.1117	* 1.0089	* .8054	* .7144	* .4659	
	* 2.1265	* 2.0499	* 2.1222	* 2.2451	* 2.1918	* 2.3443	* 4.1212	
14	* .8579	* .9950	* 1.0249	* .9436	* .6480	* .4659		
	* 2.1907	* 2.1265	* 2.1917	* 2.4545	* 3.3037	* 4.1212		
15	* .4541	* .6437	* .5226	* .5344	F-SUB-Q			
	* 3.9481	* 3.2810	* 4.3018	* 4.4044	M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 50% POWER, 250 EFPD, THIS IS LEVEL 22 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .7326	* 1.2081	* 1.3687	* 1.4244	* 1.5176	* 1.3591	* 1.1556	* .6019
	* 2.7225	* 1.9602	* 1.7448	* 1.6675	* 1.6176	* 1.7128	* 1.8268	* 3.3703
9	* 1.2081	* 1.2038	* 1.3355	* 1.4587	* 1.4116	* 1.4062	* 1.3066	* .8225
	* 1.9602	* 1.8114	* 1.7339	* 1.6623	* 1.6821	* 1.7147	* 1.7226	* 2.7653
10	* 1.3687	* 1.3355	* 1.1053	* 1.3388	* 1.4491	* 1.3752	* 1.3216	* .6512
	* 1.7448	* 1.7344	* 1.7313	* 1.7233	* 1.6939	* 1.7870	* 1.7738	* 3.6200
11	* 1.4244	* 1.4598	* 1.3388	* 1.3130	* 1.2456	* 1.2488	* 1.2049	* .6533
	* 1.6675	* 1.6608	* 1.7235	* 1.7423	* 1.8087	* 1.8677	* 1.9909	* 3.7530
12	* 1.5176	* 1.4148	* 1.4491	* 1.2445	* 1.0078	* 1.0303		* .7893
	* 1.6176	* 1.6783	* 1.6939	* 1.8109	* 1.7338	* 1.7691		* 2.8012
13	* 1.3591	* 1.4073	* 1.3752	* 1.2488	* 1.0303	* .9146		* .5708
	* 1.7128	* 1.7129	* 1.7868	* 1.8685	* 1.7691	* 1.8955		* 3.4709
14	* 1.1556	* 1.3077	* 1.3227	* 1.2049	* .7893			* .5708
	* 1.8268	* 1.7219	* 1.7736	* 1.9906	* 2.8012			* 3.4709
15	* .6019	* .8236	* .6512	* .6533	* F-SUB-Q			
	* 3.3703	* 2.7619	* 3.6200	* 3.7530	* M-SUB-Q			

AT 50% POWER, 250 EFPD, THIS IS LEVEL 21 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .8182	* 1.3505	* 1.5412	* 1.6793	* 1.7350	* 1.6279	* 1.4287	* .7443
	* 2.6240	* 1.8663	* 1.6465	* 1.4881	* 1.4911	* 1.5203	* 1.6704	* 3.1613
9	* 1.3505	* 1.4416	* 1.5133	* 1.6654	* 1.6697	* 1.6161	* 1.5583	* .9618
	* 1.8663	* 1.6467	* 1.6444	* 1.5407	* 1.4970	* 1.5836	* 1.5518	* 2.5698
10	* 1.5412	* 1.5133	* 1.3473	* 1.5840	* 1.6472	* 1.5412	* 1.5412	* .7497
	* 1.6465	* 1.6450	* 1.6132	* 1.5449	* 1.5644	* 1.6756	* 1.6066	* 3.3540
11	* 1.6793	* 1.6675	* 1.5840	* 1.5422	* 1.4737	* 1.3977	* 1.3837	* .7304
	* 1.4881	* 1.5396	* 1.5453	* 1.6070	* 1.6084	* 1.7292	* 1.8036	* 3.5143
12	* 1.7350	* 1.6740	* 1.6472	* 1.4705	* 1.1620	* 1.1845		* .8750
	* 1.4911	* 1.4936	* 1.5644	* 1.6102	* 1.5932	* 1.5977		* 2.6300
13	* 1.6279	* 1.6183	* 1.5412	* 1.3977	* 1.1845	* 1.0496		* .6340
	* 1.5203	* 1.5824	* 1.6754	* 1.7292	* 1.5977	* 1.7137		* 3.2495
14	* 1.4287	* 1.5583	* 1.5422	* 1.3837	* .8750	* .6340		
	* 1.6704	* 1.5512	* 1.6060	* 1.8036	* 2.6300	* 3.2495		
15	* .7443	* .9618	* .7497	* .7304	* F-SUB-Q			
	* 3.1613	* 2.5669	* 3.3540	* 3.5170	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 50% POWER, 250 EFPD, THIS IS LEVEL 20 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .8482	* 1.4009	* 1.6086	* 1.7993	* 1.8293	* 1.7629	* 1.6001	* .8236
	* 2.7345	* 1.9298	* 1.6920	* 1.4753	* 1.5028	* 1.4981	* 1.6782	* 3.2229
9	* 1.4009	* 1.5615	* 1.5894	* 1.7554	* 1.7950	* 1.7104	* 1.6847	* 1.0282
	* 1.9298	* 1.6584	* 1.6920	* 1.5614	* 1.4768	* 1.5971	* 1.5451	* 2.6067
10	* 1.6086	* 1.5894	* 1.6247	* 1.7093	* 1.7297	* 1.6011	* 1.6386	* .7947
	* 1.6920	* 1.6926	* 1.6391	* 1.5298	* 1.5774	* 1.7038	* 1.5959	* 3.3849
11	* 1.7993	* 1.7575	* 1.7082	* 1.6600	* 1.5819	* 1.4469	* 1.4501	* .7561
	* 1.4753	* 1.5599	* 1.5303	* 1.6225	* 1.5858	* 1.7520	* 1.8030	* 3.5721
12	* 1.8293	* 1.7993	* 1.7297	* 1.5787	* 1.2295	* 1.2424	* .8996	*
	* 1.5028	* 1.4739	* 1.5778	* 1.5870	* 1.6053	* 1.5957	* 2.6857	*
13	* 1.7629	* 1.7125	* 1.6011	* 1.4469	* 1.2424	* 1.0988	* .6522	*
	* 1.4981	* 1.5960	* 1.7038	* 1.7520	* 1.5963	* 1.7149	* 3.3153	*
14	* 1.6001	* 1.6847	* 1.6386	* 1.4501	* .8996	* .6522	*	*
	* 1.6782	* 1.5446	* 1.5959	* 1.8030	* 2.6857	* 3.3153	*	*
15	* .8236	* 1.0282	* .7947	* .7561	* F-SUB-Q			
	* 3.2229	* 2.6052	* 3.3849	* 3.5721	* M-SUB-Q			

AT 50% POWER, 250 EFPD, THIS IS LEVEL 19 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .8557	* 1.4116	* 1.6268	* 1.8475	* 1.8614	* 1.8186	* 1.6558	* .8504
	* 2.9036	* 2.0624	* 1.7953	* 1.5284	* 1.5727	* 1.5470	* 1.7458	* 3.3756
9	* 1.4116	* 1.6044	* 1.6204	* 1.7864	* 1.8475	* 1.7425	* 1.7361	* 1.0528
	* 2.0624	* 1.7465	* 1.7961	* 1.6379	* 1.5254	* 1.6727	* 1.6033	* 2.7306
10	* 1.6268	* 1.6194	* 1.6793	* 1.7704	* 1.7607	* 1.6140	* 1.6708	* .8129
	* 1.7953	* 1.7968	* 1.7262	* 1.5832	* 1.6535	* 1.7994	* 1.6636	* 3.5397
11	* 1.8475	* 1.7875	* 1.7693	* 1.7040	* 1.6247	* 1.4544	* 1.4641	* .7615
	* 1.5284	* 1.6361	* 1.5843	* 1.7000	* 1.6416	* 1.8482	* 1.8871	* 3.7649
12	* 1.8614	* 1.8507	* 1.7607	* 1.6215	* 1.2520	* 1.2552	* .9018	*
	* 1.5727	* 1.5228	* 1.6535	* 1.6434	* 1.6880	* 1.6754	* 2.8447	*
13	* 1.8186	* 1.7447	* 1.6140	* 1.4533	* 1.2552	* 1.1074	* .6533	*
	* 1.5470	* 1.6710	* 1.7993	* 1.8490	* 1.6761	* 1.8031	* 3.5192	*
14	* 1.6558	* 1.7372	* 1.6718	* 1.4641	* .9018	* .6533	*	*
	* 1.7458	* 1.6027	* 1.6636	* 1.8879	* 2.8447	* 3.5192	*	*
15	* .8504	* 1.0539	* .8129	* .7604	* F-SUB-Q			
	* 3.3756	* 2.7290	* 3.5397	* 3.7680	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 50% POWER, 250 EFPD, THIS IS LEVEL 18 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .8579	* 1.4169	* 1.6365	* 1.8785	* 1.8817	* 1.8518	* 1.6836	* .8632
	* 3.0972	* 2.2210	* 1.9281	* 1.6141	* 1.6705	* 1.6273	* 1.8522	* 3.5942
9	* 1.4169	* 1.6258	* 1.6322	* 1.8036	* 1.8817	* 1.7607	* 1.7639	* 1.0667
	* 2.2210	* 1.8626	* 1.9290	* 1.7471	* 1.6040	* 1.7738	* 1.6925	* 2.8959
10	* 1.6365	* 1.6322	* 1.7029	* 1.8046	* 1.7779	* 1.6204	* 1.6900	* .8204
	* 1.9281	* 1.9299	* 1.8458	* 1.6741	* 1.7573	* 1.9099	* 1.7475	* 3.7394
11	* 1.8785	* 1.8057	* 1.8025	* 1.7265	* 1.6493	* 1.4576	* 1.4726	* .7636
	* 1.6141	* 1.7458	* 1.6754	* 1.8088	* 1.7264	* 1.9666	* 1.9830	* 3.9651
12	* 1.8817	* 1.8839	* 1.7779	* 1.6461	* 1.2649	* 1.2638		* .9029
	* 1.6705	* 1.6016	* 1.7573	* 1.7285	* 1.7931	* 1.7731		* 3.0309
13	* 1.8518	* 1.7629	* 1.6204	* 1.4566	* 1.2638	* 1.1128		* .6544
	* 1.6273	* 1.7724	* 1.9099	* 1.9675	* 1.7738	* 1.9123		* 3.7507
14	* 1.6836	* 1.7650	* 1.6900	* 1.4726	* .9018	* .6544		
	* 1.8522	* 1.6918	* 1.7475	* 1.9830	* 3.0309	* 3.7507		
15	* .8632	* 1.0667	* .8204	* .7636	* F-SUB-Q			
	* 3.5942	* 2.8941	* 3.7424	* 3.9686	* M-SUB-Q			

AT 50% POWER, 250 EFPD, THIS IS LEVEL 17 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .8450	* 1.3955	* 1.6119	* 1.8721	* 1.8625	* 1.8475	* 1.6729	* .8525
	* 3.4031	* 2.4380	* 2.1001	* 1.7340	* 1.8015	* 1.7422	* 1.9781	* 3.8526
9	* 1.3955	* 1.6140	* 1.6086	* 1.7843	* 1.8764	* 1.7414	* 1.7564	* 1.0539
	* 2.4380	* 2.0302	* 2.1030	* 1.8857	* 1.7224	* 1.9134	* 1.8133	* 3.1115
10	* 1.6119	* 1.6076	* 1.6836	* 1.8004	* 1.7586	* 1.5947	* 1.6783	* .8118
	* 2.1001	* 2.1040	* 2.0041	* 1.8015	* 1.9006	* 2.0772	* 1.8857	* 4.0260
11	* 1.8721	* 1.7854	* 1.7982	* 1.7104	* 1.6440	* 1.4351	* 1.4587	* .7508
	* 1.7340	* 1.8841	* 1.8022	* 1.9618	* 1.8606	* 2.1389	* 2.1566	* 4.3195
12	* 1.8625	* 1.8796	* 1.7586	* 1.6397	* 1.2595	* 1.2563		* .8879
	* 1.8015	* 1.7197	* 1.9006	* 1.8630	* 1.9542	* 1.9370		* 3.3017
13	* 1.8475	* 1.7425	* 1.5947	* 1.4351	* 1.2563	* 1.1074		* .6447
	* 1.7422	* 1.9118	* 2.0772	* 2.1399	* 1.9379	* 2.0966		* 4.1198
14	* 1.6729	* 1.7564	* 1.6783	* 1.4587	* .8879	* .6447		
	* 1.9781	* 1.8126	* 1.8849	* 2.1577	* 3.3017	* 4.1198		
15	* .8525	* 1.0549	* .8118	* .7508	* F-SUB-Q			
	* 3.8526	* 3.1094	* 4.0295	* 4.3195	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 50% POWER, 250 EFPD, THIS IS LEVEL 16 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .8429	* 1.3784	* 1.5904	* 1.8603	* 1.8443	* 1.8378	* 1.6600	* .8450
	* 3.7708	* 2.6815	* 2.3081	* 1.9081	* 1.9737	* 1.9131	* 2.1553	* 4.1963
9	* 1.3784	* 1.6001	* 1.5872	* 1.7639	* 1.8657	* 1.7222	* 1.7425	* 1.0432
	* 2.6815	* 2.2405	* 2.3116	* 2.0688	* 1.8960	* 2.0972	* 1.9934	* 3.3981
10	* 1.5904	* 1.5872	* 1.6654	* 1.7896	* 1.7404	* 1.5744	* 1.6633	* .8054
	* 2.3081	* 2.3127	* 2.1997	* 1.9854	* 2.0886	* 2.2885	* 2.0807	* 4.3973
11	* 1.8603	* 1.7661	* 1.7886	* 1.6954	* 1.6354	* 1.4201	* 1.4448	* .7422
	* 1.9081	* 2.0670	* 1.9872	* 2.1562	* 2.0482	* 2.3459	* 2.3918	* 4.7425
12	* 1.8443	* 1.8678	* 1.7404	* 1.6311	* 1.2627	* 1.2541	* .8793	*
	* 1.9737	* 1.8928	* 2.0886	* 2.0510	* 2.1401	* 2.1317	* 3.6175	*
13	* 1.8378	* 1.7232	* 1.5744	* 1.4191	* 1.2541	* 1.1063	* .6405	*
	* 1.9131	* 2.0953	* 2.2885	* 2.3461	* 2.1325	* 2.3042	* 4.4996	*
14	* 1.6600	* 1.7436	* 1.6643	* 1.4448	* .8793	* .6405	*	*
	* 2.1553	* 1.9934	* 2.0807	* 2.3918	* 3.6181	* 4.4996	*	*
15	* .8450	* 1.0442	* .8043	* .7422	* F-SUB-Q			
	* 4.1963	* 3.3955	* 4.3973	* 4.7474	* M-SUB-Q			

AT 50% POWER, 250 EFPD, THIS IS LEVEL 15 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .8257	* 1.3398	* 1.5433	* 1.8046	* 1.7918	* 1.7843	* 1.6129	* .8215
	* 4.2680	* 3.0431	* 2.6236	* 2.1753	* 2.2244	* 2.1722	* 2.4240	* 4.7048
9	* 1.3398	* 1.5497	* 1.5401	* 1.7136	* 1.8100	* 1.6718	* 1.6900	* 1.0132
	* 3.0431	* 2.5718	* 2.6280	* 2.3381	* 2.1566	* 2.3584	* 2.2611	* 3.8026
10	* 1.5433	* 1.5390	* 1.6183	* 1.7372	* 1.6922	* 1.5272	* 1.6129	* .7797
	* 2.6236	* 2.6295	* 2.5014	* 2.2713	* 2.3560	* 2.5724	* 2.3527	* 4.9202
11	* 1.8046	* 1.7147	* 1.7361	* 1.6493	* 1.5915	* 1.3816	* 1.4009	* .7219
	* 2.1753	* 2.3357	* 2.2736	* 2.4365	* 2.3417	* 2.6563	* 2.6974	* 5.2681
12	* 1.7918	* 1.8132	* 1.6922	* 1.5872	* 1.2456	* 1.2284	* .8589	*
	* 2.2244	* 2.1525	* 2.3560	* 2.3441	* 2.4239	* 2.4356	* 4.0881	*
13	* 1.7843	* 1.6729	* 1.5272	* 1.3816	* 1.2274	* 1.0849	* .6276	*
	* 2.1722	* 2.3560	* 2.5710	* 2.6578	* 2.4356	* 2.6305	* 5.0752	*
14	* 1.6129	* 1.6911	* 1.6129	* 1.4009	* .8589	* .6276	*	*
	* 2.4240	* 2.2600	* 2.3515	* 2.6974	* 4.0881	* 5.0752	*	*
15	* .8215	* 1.0142	* .7786	* .7219	* F-SUB-Q			
	* 4.7048	* 3.7994	* 4.9255	* 5.2741	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 50% POWER, 250 EFPD, THIS IS LEVEL 14 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .8215	* 1.3259	* 1.5262	* 1.8036	* 1.7779	* 1.7832	* 1.6054	* .8140
	* 4.7395	* 3.3667	* 2.8878	* 2.3943	* 2.4471	* 2.3856	* 2.6402	* 5.1318
9	* 1.3259	* 1.5455	* 1.5230	* 1.6975	* 1.8089	* 1.6568	* 1.6868	* 1.0046
	* 3.3667	* 2.8415	* 2.8968	* 2.5744	* 2.3745	* 2.5946	* 2.4810	* 4.1550
10	* 1.5262	* 1.5219	* 1.6033	* 1.7372	* 1.6804	* 1.5112	* 1.6108	* .7765
	* 2.8878	* 2.8987	* 2.7544	* 2.5026	* 2.5989	* 2.8472	* 2.5930	* 5.3751
11	* 1.8036	* 1.6997	* 1.7361	* 1.6397	* 1.5926	* 1.3741	* 1.4009	* .7154
	* 2.3943	* 2.5730	* 2.5053	* 2.6969	* 2.6181	* 2.9766	* 2.9855	* 5.8118
12	* 1.7779	* 1.8121	* 1.6793	* 1.5883	* 1.2488	* 1.2349	* .8536	*
	* 2.4471	* 2.3709	* 2.6004	* 2.6226	* 2.7095	* 2.7366	* 4.5943	*
13	* 1.7832	* 1.6579	* 1.5112	* 1.3730	* 1.2349	* 1.0956	* .6265	*
	* 2.3856	* 2.5931	* 2.8472	* 2.9766	* 2.7366	* 2.9567	* 5.6978	*
14	* 1.6054	* 1.6879	* 1.6108	* 1.4009	* .8536	* .6265	*	*
	* 2.6402	* 2.4796	* 2.5930	* 2.9855	* 4.5943	* 5.6978	*	*
15	* .8140	* 1.0057	* .7754	* .7154	* F-SUB-Q			
	* 5.1318	* 4.1513	* 5.3751	* 5.8118	* M-SUB-Q			

AT 50% POWER, 250 EFPD, THIS IS LEVEL 13 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .8075	* 1.3045	* 1.5005	* 1.7800	* 1.7511	* 1.7597	* 1.5840	* .8000
	* 4.9668	* 3.5607	* 3.1422	* 2.6331	* 2.6812	* 2.6510	* 2.9279	* 5.6989
9	* 1.3045	* 1.5240	* 1.4973	* 1.6718	* 1.7864	* 1.6301	* 1.6654	* .9885
	* 3.5607	* 3.1070	* 3.1549	* 2.8151	* 2.6242	* 2.8704	* 2.7758	* 4.6187
10	* 1.5005	* 1.4962	* 1.5797	* 1.7179	* 1.6568	* 1.4876	* 1.5915	* .7647
	* 3.1422	* 3.1571	* 3.0089	* 2.7415	* 2.8599	* 3.1635	* 2.9074	* 5.9754
11	* 1.7800	* 1.6729	* 1.7157	* 1.6183	* 1.5776	* 1.3580	* 1.3859	* .7058
	* 2.6331	* 2.8118	* 2.7463	* 2.8391	* 2.7626	* 3.1507	* 3.2890	* 6.4893
12	* 1.7511	* 1.7896	* 1.6558	* 1.5733	* 1.2381	* 1.2284	* .8461	*
	* 2.6812	* 2.6198	* 2.8599	* 2.7675	* 2.8599	* 2.9330	* 4.9044	*
13	* 1.7597	* 1.6311	* 1.4876	* 1.3570	* 1.2284	* 1.0935	* .6244	*
	* 2.6510	* 2.8687	* 3.1635	* 3.1507	* 2.9348	* 3.1813	* 6.1401	*
14	* 1.5840	* 1.6654	* 1.5915	* 1.3859	* .8461	* .6244	*	*
	* 2.9279	* 2.7741	* 2.9074	* 3.2890	* 4.9044	* 6.1401	*	*
15	* .8000	* .9896	* .7647	* .7058	* F-SUB-Q			
	* 5.6989	* 4.6187	* 5.9754	* 6.4893	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 50% POWER, 250 EFPD, THIS IS LEVEL 12 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .7936	* 1.2788	* 1.4683	* 1.7404	* 1.7136	* 1.7211	* 1.5497	* .7829
	* 5.0630	* 3.6020	* 3.1062	* 2.6176	* 2.6532	* 2.6397	* 2.9224	* 5.7447
9	* 1.2788	* 1.4908	* 1.4651	* 1.6365	* 1.7479	* 1.5958	* 1.6290	* .9682
	* 3.6020	* 3.0837	* 3.1186	* 2.7854	* 2.6118	* 2.8480	* 2.7904	* 4.6701
10	* 1.4683	* 1.4651	* 1.5497	* 1.6847	* 1.6258	* 1.4587	* 1.5594	* .7497
	* 3.1062	* 3.1206	* 2.9724	* 2.7431	* 2.8325	* 3.1500	* 2.9444	* 6.0560
11	* 1.7404	* 1.6386	* 1.6825	* 1.5915	* 1.5519	* 1.3388	* 1.3634	* .6940
	* 2.6176	* 2.7821	* 2.7447	* 2.9152	* 2.8532	* 3.2391	* 3.3937	* 6.6385
12	* 1.7136	* 1.7511	* 1.6258	* 1.5465	* 1.2242	* 1.2177	* .8386	*
	* 2.6532	* 2.6075	* 2.8325	* 2.8584	* 2.9426	* 3.0319	* 5.0197	*
13	* 1.7211	* 1.5969	* 1.4587	* 1.3377	* 1.2167	* 1.0892	* .6223	*
	* 2.6397	* 2.8462	* 3.1500	* 3.2391	* 3.0319	* 3.2844	* 6.2746	*
14	* 1.5497	* 1.6290	* 1.5594	* 1.3623	* .8386	* .6223	*	*
	* 2.9224	* 2.7904	* 2.9444	* 3.3937	* 5.0197	* 6.2746	*	*
15	* .7829	* .9682	* .7486	* .6940	* F-SUB-Q			
	* 5.7447	* 4.6701	* 6.0560	* 6.6385	* M-SUB-Q			

AT 50% POWER, 250 EFPD, THIS IS LEVEL 11 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .8000	* 1.2873	* 1.4726	* 1.7532	* 1.7200	* 1.7329	* 1.5572	* .7840
	* 4.8637	* 3.4010	* 2.9481	* 2.4820	* 2.5261	* 2.5058	* 2.7772	* 5.4575
9	* 1.2873	* 1.5037	* 1.4705	* 1.6429	* 1.7629	* 1.6001	* 1.6397	* .9714
	* 3.4010	* 2.9098	* 2.9630	* 2.6502	* 2.4781	* 2.7145	* 2.6502	* 4.4361
10	* 1.4726	* 1.4694	* 1.5604	* 1.7050	* 1.6386	* 1.4673	* 1.5744	* .7529
	* 2.9481	* 2.9630	* 2.8240	* 2.5974	* 2.6943	* 3.0028	* 2.7937	* 5.7518
11	* 1.7532	* 1.6440	* 1.7029	* 1.6097	* 1.5776	* 1.3612	* 1.3837	* .6994
	* 2.4820	* 2.6472	* 2.6002	* 2.7788	* 2.7319	* 3.1082	* 3.2503	* 6.3084
12	* 1.7200	* 1.7650	* 1.6376	* 1.5733	* 1.2541	* 1.2563	* .8568	*
	* 2.5261	* 2.4741	* 2.6958	* 2.7367	* 2.8240	* 2.8990	* 4.8237	*
13	* 1.7329	* 1.6011	* 1.4673	* 1.3602	* 1.2552	* 1.1320	* .6426	*
	* 2.5058	* 2.7130	* 3.0028	* 3.1103	* 2.8990	* 3.1394	* 6.0172	*
14	* 1.5572	* 1.6408	* 1.5744	* 1.3837	* .8568	* .6426	*	*
	* 2.7772	* 2.6502	* 2.7937	* 3.2503	* 4.8237	* 6.0172	*	*
15	* .7840	* .9725	* .7518	* .6994	* F-SUB-Q			
	* 5.4575	* 4.4361	* 5.7588	* 6.3084	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 50% POWER, 250 EFPD, THIS IS LEVEL 10 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .8172	* 1.2948	* 1.4673	* 1.7511	* 1.7125	* 1.7297	* 1.5519	* .7786
	* 4.7123	* 3.1972	* 2.7772	* 2.3269	* 2.3764	* 2.3502	* 2.6089	* 5.1520
9	* 1.2948	* 1.5101	* 1.4651	* 1.6365	* 1.7629	* 1.5926	* 1.6376	* .9660
	* 3.1972	* 2.7287	* 2.7904	* 2.4939	* 2.3223	* 2.5563	* 2.4872	* 4.1831
10	* 1.4673	* 1.4641	* 1.5615	* 1.7157	* 1.6418	* 1.4673	* 1.5797	* .7497
	* 2.7772	* 2.7921	* 2.6547	* 2.4318	* 2.5315	* 2.8274	* 2.6206	* 5.4259
11	* 1.7511	* 1.6376	* 1.7136	* 1.6236	* 1.6044	* 1.3869	* 1.4009	* .7015
	* 2.3269	* 2.4912	* 2.4344	* 2.6075	* 2.6147	* 2.9894	* 3.0437	* 5.9411
12	* 1.7125	* 1.7650	* 1.6408	* 1.5990	* 1.3141	* 1.3173	* .8782	*
	* 2.3764	* 2.3189	* 2.5329	* 2.6206	* 2.7145	* 2.7854	* 4.6470	*
13	* 1.7297	* 1.5936	* 1.4673	* 1.3859	* 1.3173	* 1.1995	* .6683	*
	* 2.3502	* 2.5536	* 2.8274	* 2.9914	* 2.7854	* 3.0183	* 5.8087	*
14	* 1.5519	* 1.6386	* 1.5797	* 1.3998	* .8782	* .6683	*	*
	* 2.6089	* 2.4859	* 2.6206	* 3.0437	* 4.6470	* 5.8087	*	*
15	* .7786	* .9671	* .7497	* .7015	* F-SUB-Q			
	* 5.1520	* 4.1794	* 5.4259	* 5.9411	* M-SUB-Q			

AT 50% POWER, 250 EFPD, THIS IS LEVEL 9 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .8761	* 1.3098	* 1.4608	* 1.7425	* 1.7007	* 1.7190	* 1.5412	* .7722
	* 4.5435	* 3.0339	* 2.6368	* 2.2076	* 2.2565	* 2.2307	* 2.4767	* 4.9043
9	* 1.3098	* 1.5144	* 1.4598	* 1.6279	* 1.7554	* 1.5819	* 1.6301	* .9596
	* 3.0339	* 2.5873	* 2.6502	* 2.3680	* 2.2035	* 2.4293	* 2.3597	* 3.9809
10	* 1.4608	* 1.4598	* 1.5626	* 1.7232	* 1.6451	* 1.4694	* 1.5797	* .7465
	* 2.6368	* 2.6517	* 2.5193	* 2.3041	* 2.4007	* 2.6850	* 2.4833	* 5.1520
11	* 1.7425	* 1.6290	* 1.7200	* 1.6408	* 1.6343	* 1.4234	* 1.4159	* .7036
	* 2.2076	* 2.3656	* 2.3064	* 2.4689	* 2.5247	* 2.8900	* 2.8794	* 5.6411
12	* 1.7007	* 1.7575	* 1.6440	* 1.6290	* 1.4512	* 1.4180	* .9082	*
	* 2.2565	* 2.2004	* 2.4007	* 2.5302	* 2.6235	* 2.6912	* 4.4956	*
13	* 1.7190	* 1.5829	* 1.4694	* 1.4234	* 1.4180	* 1.2981	* .7015	*
	* 2.2307	* 2.4268	* 2.6850	* 2.8918	* 2.6912	* 2.9170	* 5.6276	*
14	* 1.5412	* 1.6301	* 1.5797	* 1.4159	* .9071	* .7015	*	*
	* 2.4767	* 2.3597	* 2.4833	* 2.8794	* 4.4999	* 5.6276	*	*
15	* .7722	* .9596	* .7465	* .7026	* F-SUB-Q			
	* 4.9043	* 3.9775	* 5.1576	* 5.6411	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 50% POWER, 250 EFPD, THIS IS LEVEL 8 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9178	* 1.3184	* 1.4512	* 1.7190	* 1.6836	* 1.6943	* 1.5208	* .7626
	* 4.3377	* 2.9044	* 2.5274	* 2.1237	* 2.1639	* 2.1470	* 2.3812	* 4.7123
9	* 1.3184	* 1.5058	* 1.4512	* 1.6129	* 1.7329	* 1.5669	* 1.6097	* .9489
	* 2.9044	* 2.4886	* 2.5384	* 2.2696	* 2.1199	* 2.3292	* 2.2696	* 3.8220
10	* 1.4512	* 1.4501	* 1.5583	* 1.7200	* 1.6408	* 1.4662	* 1.5679	* .7379
	* 2.5274	* 2.5397	* 2.4094	* 2.2118	* 2.2962	* 2.5689	* 2.3849	* 4.9613
11	* 1.7190	* 1.6140	* 1.7157	* 1.6504	* 1.6654	* 1.4533	* 1.4223	* .7026
	* 2.1237	* 2.2685	* 2.2149	* 2.3585	* 2.4193	* 2.7772	* 2.7560	* 5.3948
12	* 1.6836	* 1.7361	* 1.6397	* 1.6622	* 1.5604	* 1.5155	* .9328	*
	* 2.1639	* 2.1161	* 2.2973	* 2.4268	* 2.5274	* 2.6046	* 4.3178	*
13	* 1.6943	* 1.5679	* 1.4662	* 1.4523	* 1.5155	* 1.3912	* .7315	*
	* 2.1470	* 2.3281	* 2.5689	* 2.7788	* 2.6046	* 2.8308	* 5.4322	*
14	* 1.5208	* 1.6097	* 1.5679	* 1.4212	* .9328	* .7315	*	*
	* 2.3812	* 2.2685	* 2.3849	* 2.7560	* 4.3178	* 5.4322	*	*
15	* .7626	* .9500	* .7379	* .7026	* F-SUB-Q			
	* 4.7123	* 3.8189	* 4.9613	* 5.3948	* M-SUB-Q			

AT 50% POWER, 250 EFPD, THIS IS LEVEL 7 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9414	* 1.3345	* 1.4566	* 1.7329	* 1.6879	* 1.7072	* 1.5294	* .7626
	* 4.0081	* 2.7560	* 2.4032	* 2.0083	* 2.0558	* 2.0318	* 2.2565	* 4.4956
9	* 1.3345	* 1.5272	* 1.4576	* 1.6183	* 1.7489	* 1.5701	* 1.6236	* .9521
	* 2.7560	* 2.3479	* 2.4118	* 2.1569	* 2.0023	* 2.2160	* 2.1451	* 3.6383
10	* 1.4566	* 1.4566	* 1.5701	* 1.7500	* 1.6558	* 1.4780	* 1.5904	* .7443
	* 2.4032	* 2.4143	* 2.2850	* 2.0841	* 2.1749	* 2.4381	* 2.2478	* 4.7028
11	* 1.7329	* 1.6194	* 1.7468	* 1.6761	* 1.7200	* 1.4930	* 1.4555	* .7101
	* 2.0083	* 2.1549	* 2.0869	* 2.2286	* 2.2360	* 2.5732	* 2.5873	* 5.1183
12	* 1.6879	* 1.7522	* 1.6558	* 1.7157	* 1.6376	* 1.6001	* .9585	*
	* 2.0558	* 1.9998	* 2.1759	* 2.2414	* 2.3861	* 2.4432	* 4.0252	*
13	* 1.7072	* 1.5712	* 1.4780	* 1.4919	* 1.5990	* 1.4726	* .7604	*
	* 2.0318	* 2.2139	* 2.4381	* 2.5760	* 2.4445	* 2.6502	* 5.1238	*
14	* 1.5294	* 1.6236	* 1.5904	* 1.4555	* .9585	* .7604	*	*
	* 2.2565	* 2.1451	* 2.2478	* 2.5873	* 4.0252	* 5.1238	*	*
15	* .7626	* .9532	* .7433	* .7101	* F-SUB-Q			
	* 4.4956	* 3.6355	* 4.7076	* 5.1238	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 50% POWER, 250 EFPD, THIS IS LEVEL 6 OF 24
 (LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9361	* 1.3238	* 1.4405	* 1.7082	* 1.6665	* 1.6815	* 1.5101	* .7518
	* 3.8220	* 2.6532	* 2.3281	* 1.9507	* 1.9955	* 1.9762	* 2.1932	* 4.3782
9	* 1.3238	* 1.5112	* 1.4416	* 1.5979	* 1.7254	* 1.5497	* 1.6044	* .9403
	* 2.6532	* 2.2696	* 2.3350	* 2.0925	* 1.9451	* 2.1520	* 2.0823	* 3.5369
10	* 1.4405	* 1.4405	* 1.5562	* 1.7361	* 1.6418	* 1.4662	* 1.5765	* .7358
	* 2.3281	* 2.3362	* 2.2076	* 2.0144	* 2.1009	* 2.3538	* 2.1729	* 4.5700
11	* 1.7082	* 1.5990	* 1.7318	* 1.6665	* 1.7190	* 1.5005	* 1.4533	* .7047
	* 1.9507	* 2.0906	* 2.0169	* 2.1431	* 2.1305	* 2.4496	* 2.4820	* 4.9457
12	* 1.6665	* 1.7286	* 1.6408	* 1.7147	* 1.6515	* 1.6172	* .9628	
	* 1.9955	* 1.9418	* 2.1019	* 2.1353	* 2.2307	* 2.2906	* 3.8189	
13	* 1.6815	* 1.5508	* 1.4662	* 1.4994	* 1.6161	* 1.4919	* .7679	
	* 1.9762	* 2.1500	* 2.3538	* 2.4509	* 2.2906	* 2.4899	* 4.8187	
14	* 1.5101	* 1.6044	* 1.5765	* 1.4533	* .9628	* .7679		
	* 2.1932	* 2.0813	* 2.1729	* 2.4833	* 3.8189	* 4.8187		
15	* .7518	* .9403	* .7347	* .7047	* F-SUB-Q			
	* 4.3782	* 3.5342	* 4.5700	* 4.9457	* M-SUB-Q			

AT 50% POWER, 250 EFPD, THIS IS LEVEL 5 OF 24
 (LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9061	* 1.2809	* 1.3912	* 1.6311	* 1.6044	* 1.6044	* 1.4501	* .7251
	* 3.7911	* 2.5945	* 2.3155	* 1.9679	* 1.9972	* 1.9964	* 2.2025	* 4.3905
9	* 1.2809	* 1.4459	* 1.3955	* 1.5401	* 1.6472	* 1.4930	* 1.5380	* .9061
	* 2.5945	* 2.2696	* 2.3200	* 2.0906	* 1.9613	* 2.1520	* 2.0934	* 3.5422
10	* 1.3912	* 1.3944	* 1.5026	* 1.6633	* 1.5872	* 1.4201	* 1.5144	* .7069
	* 2.3155	* 2.3212	* 2.1932	* 2.0169	* 2.0860	* 2.3327	* 2.1759	* 4.5879
11	* 1.6311	* 1.5412	* 1.6590	* 1.6129	* 1.6558	* 1.4608	* 1.4030	* .6833
	* 1.9679	* 2.0888	* 2.0196	* 2.1028	* 2.1208	* 2.4044	* 2.4470	* 4.9043
12	* 1.6044	* 1.6504	* 1.5862	* 1.6515	* 1.6076	* 1.5701	* .9403	
	* 1.9972	* 1.9580	* 2.0869	* 2.1257	* 2.1983	* 2.2619	* 3.7668	
13	* 1.6044	* 1.4940	* 1.4201	* 1.4598	* 1.5701	* 1.4501	* .7518	
	* 1.9964	* 2.1510	* 2.3327	* 2.4069	* 2.2630	* 2.4560	* 4.7313	
14	* 1.4501	* 1.5380	* 1.5144	* 1.4030	* .9403	* .7518		
	* 2.2025	* 2.0925	* 2.1749	* 2.4470	* 3.7668	* 4.7313		
15	* .7251	* .9071	* .7058	* .6833	* F-SUB-Q			
	* 4.3905	* 3.5422	* 4.5879	* 4.9043	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 50% POWER, 250 EFPD, THIS IS LEVEL 4 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .8782	* 1.2391	* 1.3441	* 1.5626	* 1.5444	* 1.5369	* 1.3977	* .6994
	* 3.6327	* 2.5633	* 2.3143	* 1.9871	* 2.0066	* 2.0196	* 2.2149	* 4.4194
9	* 1.2391	* 1.3891	* 1.3484	* 1.4823	* 1.5765	* 1.4373	* 1.4791	* .8718
	* 2.5633	* 2.2685	* 2.3155	* 2.0990	* 1.9829	* 2.1659	* 2.1085	* 3.5719
10	* 1.3441	* 1.3473	* 1.4491	* 1.5958	* 1.5315	* 1.3730	* 1.4587	* .6812
	* 2.3143	* 2.3177	* 2.1911	* 2.0213	* 2.0795	* 2.3246	* 2.1820	* 4.6104
11	* 1.5626	* 1.4833	* 1.5915	* 1.5572	* 1.5936	* 1.4169	* 1.3570	* .6597
	* 1.9871	* 2.0972	* 2.0257	* 2.0841	* 2.0813	* 2.3526	* 2.4243	* 4.8992
12	* 1.5444	* 1.5787	* 1.5305	* 1.5904	* 1.5594	* 1.5219	* .9125	*
	* 2.0066	* 1.9795	* 2.0804	* 2.0869	* 2.1699	* 2.2500	* 3.6840	*
13	* 1.5369	* 1.4373	* 1.3730	* 1.4169	* 1.5219	* 1.4062	* .7304	*
	* 2.0196	* 2.1639	* 2.3246	* 2.3538	* 2.2500	* 2.4547	* 4.6981	*
14	* 1.3977	* 1.4791	* 1.4587	* 1.3559	* .9125	* .7304	*	*
	* 2.2149	* 2.1085	* 2.1820	* 2.4243	* 3.6869	* 4.7028	*	*
15	* .6994	* .8729	* .6812	* .6597	F-SUB-Q			
	* 4.4194	* 3.5692	* 4.6150	* 4.8992	M-SUB-Q			

AT 50% POWER, 250 EFPD, THIS IS LEVEL 3 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .8065	* 1.1299	* 1.2242	* 1.4105	* 1.4062	* 1.3859	* 1.2734	* .6405
	* 3.8127	* 2.7020	* 2.4689	* 2.1431	* 2.1470	* 2.1810	* 2.3728	* 4.7170
9	* 1.1299	* 1.2499	* 1.2295	* 1.3495	* 1.4212	* 1.3055	* 1.3323	* .7915
	* 2.7020	* 2.4381	* 2.4689	* 2.2446	* 2.1402	* 2.3223	* 2.2828	* 3.8439
10	* 1.2242	* 1.2284	* 1.3163	* 1.4405	* 1.3987	* 1.2488	* 1.3077	* .6212
	* 2.4689	* 2.4715	* 2.3362	* 2.1649	* 2.2066	* 2.4794	* 2.3656	* 4.9353
11	* 1.4105	* 1.3505	* 1.4362	* 1.4191	* 1.4394	* 1.2927	* 1.2220	* .6019
	* 2.1431	* 2.2424	* 2.1699	* 2.2087	* 2.2139	* 2.4846	* 2.6060	* 5.2091
12	* 1.4062	* 1.4223	* 1.3977	* 1.4373	* 1.4244	* 1.3762	* .8365	*
	* 2.1470	* 2.1373	* 2.2076	* 2.2202	* 2.2641	* 2.3680	* 3.8661	*
13	* 1.3859	* 1.3055	* 1.2488	* 1.2916	* 1.3762	* 1.2702	* .6683	*
	* 2.1810	* 2.3212	* 2.4794	* 2.4859	* 2.3692	* 2.5845	* 4.9146	*
14	* 1.2734	* 1.3323	* 1.3077	* 1.2220	* .8365	* .6683	*	*
	* 2.3728	* 2.2828	* 2.3656	* 2.6075	* 3.8661	* 4.9146	*	*
15	* .6405	* .7915	* .6201	* .6019	F-SUB-Q			
	* 4.7170	* 3.8408	* 4.9353	* 5.2149	M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 50% POWER, 250 EFPD, THIS IS LEVEL 2 OF 24
 (LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .6672 *	* .9104 *	* .9853 *	* 1.2027 *	* 1.1395 *	* 1.1824 *	* 1.0410 *	* .5269 *
	* 4.4572 *	* 3.2616 *	* 2.9990 *	* 2.4560 *	* 2.5916 *	* 2.5005 *	* 2.8462 *	* 5.6276 *
9	* .9104 *	* 1.0635 *	* .9875 *	* 1.0924 *	* 1.2124 *	* 1.0528 *	* 1.0871 *	* .6372 *
	* 3.2616 *	* 2.7887 *	* 3.0086 *	* 2.7130 *	* 2.4432 *	* 2.8172 *	* 2.7351 *	* 4.6794 *
10	* .9853 *	* .9875 *	* 1.0624 *	* 1.2306 *	* 1.1428 *	* .9992 *	* 1.0539 *	* .5098 *
	* 2.9990 *	* 3.0105 *	* 2.8240 *	* 2.4689 *	* 2.6338 *	* 3.0241 *	* 2.8671 *	* 5.8889 *
11	* 1.2027 *	* 1.0924 *	* 1.2274 *	* 1.1513 *	* 1.2242 *	* 1.0442 *	* .9746 *	* .4937 *
	* 2.4560 *	* 2.7114 *	* 2.4754 *	* 2.6457 *	* 2.5247 *	* 2.9990 *	* 3.1885 *	* 6.2165 *
12	* 1.1395 *	* 1.2145 *	* 1.1417 *	* 1.2220 *	* 1.1588 *	* 1.1267 *	* .6908 *	
	* 2.5916 *	* 2.4394 *	* 2.6353 *	* 2.5302 *	* 2.7005 *	* 2.8021 *	* 4.5612 *	
13	* 1.1824 *	* 1.0539 *	* .9992 *	* 1.0432 *	* 1.1256 *	* 1.0078 *	* .5473 *	
	* 2.5005 *	* 2.8155 *	* 3.0241 *	* 3.0009 *	* 2.8037 *	* 3.1584 *	* 5.8231 *	
14	* 1.0410 *	* 1.0871 *	* 1.0539 *	* .9746 *	* .6908 *	* .5473 *		
	* 2.8462 *	* 2.7351 *	* 2.8671 *	* 3.1885 *	* 4.5612 *	* 5.8231 *		
15	* .5269 *	* .6383 *	* .5098 *	* .4927 *	F-SUB-Q			
	* 5.6276 *	* 4.6747 *	* 5.8889 *	* 6.2165 *	M-SUB-Q			

AT 50% POWER, 250 EFPD, THIS IS LEVEL 1 OF 24
 (LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .4520 *	* .3877 *	* .4327 *	* .5141 *	* .4819 *	* .5044 *	* .4434 *	* .3534 *
	* 6.4118 *	* 7.4499 *	* 6.6574 *	* 5.5941 *	* 5.9713 *	* 5.7028 *	* 6.5096 *	* 8.2197 *
9	* .3877 *	* .4509 *	* .4209 *	* .4723 *	* .5184 *	* .4648 *	* .4402 *	* .2892 *
	* 7.4499 *	* 6.3943 *	* 6.9021 *	* 6.1192 *	* 5.5609 *	* 6.2082 *	* 6.5827 *	* 10.0718 *
10	* .4327 *	* .4209 *	* .4745 *	* .5269 *	* .4862 *	* .4284 *	* .4241 *	* .3524 *
	* 6.6574 *	* 6.9021 *	* 6.1837 *	* 5.6008 *	* 6.0327 *	* 6.8417 *	* 6.9327 *	* 8.3217 *
11	* .5141 *	* .4723 *	* .5248 *	* .4884 *	* .5237 *	* .4455 *	* .3888 *	* .2399 *
	* 5.5941 *	* 6.1112 *	* 5.6142 *	* 6.0639 *	* 5.7237 *	* 6.8219 *	* 7.7449 *	* 12.4494 *
12	* .4819 *	* .5194 *	* .4852 *	* .5226 *	* .4959 *	* .4562 *	* .3352 *	
	* 5.9713 *	* 5.5544 *	* 6.0405 *	* 5.7307 *	* 6.1192 *	* 6.7145 *	* 9.1312 *	
13	* .5044 *	* .4659 *	* .4273 *	* .4445 *	* .4562 *	* .4081 *	* .2560 *	
	* 5.7028 *	* 6.2000 *	* 6.8517 *	* 6.8219 *	* 6.7145 *	* 7.5701 *	* 12.0965 *	
14	* .4434 *	* .4402 *	* .4241 *	* .3888 *	* .3352 *	* .2560 *		
	* 6.5096 *	* 6.5827 *	* 6.9327 *	* 7.7449 *	* 9.1312 *	* 12.0965 *		
15	* .3534 *	* .2892 *	* .3524 *	* .2399 *	F-SUB-Q			
	* 8.2197 *	* 10.0502 *	* 8.3217 *	* 12.4494 *	M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 50% POWER, 475 EFPD, THIS IS LEVEL 24 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .5708	* .5773	* .6822	* .7829	* .7850	* .7443	* .5708	* .4584
	* 3.6575	* 3.8667	* 3.3797	* 2.9399	* 3.0361	* 2.9428	* 3.2921	* 3.7734
9	* .5773	* .6083	* .6501	* .7518	* .7925	* .7326	* .6458	* .4573
	* 3.8667	* 3.3738	* 3.4235	* 3.1487	* 2.9207	* 3.1715	* 3.2813	* 4.6251
10	* .6822	* .6501	* .5858	* .7272	* .7497	* .7015	* .6672	* .5698
	* 3.3797	* 3.4247	* 3.3073	* 3.0333	* 3.1561	* 3.3660	* 3.4146	* 3.9868
11	* .7829	* .7529	* .7272	* .6876	* .7069	* .6640	* .6265	* .4348
	* 2.9399	* 3.1475	* 3.0333	* 3.2764	* 3.2012	* 3.4965	* 3.5748	* 5.3079
12	* .7850	* .7925	* .7508	* .7069	* .5826	* .5633	* .5237	*
	* 3.0361	* 2.9187	* 3.1561	* 3.2012	* 3.5102	* 3.7906	* 4.3240	*
13	* .7443	* .7326	* .7015	* .6640	* .5633	* .5087	* .3898	*
	* 2.9428	* 3.1669	* 3.3657	* 3.4965	* 3.7906	* 4.1797	* 5.6942	*
14	* .5708	* .6458	* .6683	* .6265	* .5237	* .3898	*	*
	* 3.2921	* 3.2813	* 3.4146	* 3.5748	* 4.3240	* 5.6942	*	*
15	* .4584	* .4573	* .5698	* .4348	F-SUB-Q			
	* 3.7734	* 4.6202	* 3.9851	* 5.3079	M-SUB-Q			

AT 50% POWER, 475 EFPD, THIS IS LEVEL 23 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .6908	* 1.1053	* 1.2713	* 1.4459	* 1.5037	* 1.3880	* 1.0517	* .5762
	* 2.9217	* 2.0897	* 1.8419	* 1.6368	* 1.6280	* 1.6371	* 1.7819	* 3.0701
9	* 1.1053	* 1.1363	* 1.2199	* 1.4255	* 1.4598	* 1.3880	* 1.2616	* .8493
	* 2.0897	* 1.8482	* 1.8308	* 1.6909	* 1.6256	* 1.7096	* 1.7199	* 2.5786
10	* 1.2713	* 1.2199	* 1.0260	* 1.3398	* 1.4384	* 1.3602	* 1.3280	* .7144
	* 1.8419	* 1.8316	* 1.7799	* 1.6904	* 1.7141	* 1.8075	* 1.7911	* 3.3166
11	* 1.4459	* 1.4255	* 1.3398	* 1.3163	* 1.3088	* 1.2873	* 1.2520	* .7486
	* 1.6368	* 1.6899	* 1.6911	* 1.7587	* 1.8028	* 1.8744	* 1.8631	* 3.2127
12	* 1.5037	* 1.4619	* 1.4384	* 1.3088	* 1.0581	* 1.1181	* .8932	*
	* 1.6280	* 1.6238	* 1.7141	* 1.8029	* 1.8878	* 1.9805	* 2.6471	*
13	* 1.3880	* 1.3891	* 1.3602	* 1.2873	* 1.1181	* 1.0185	* .6908	*
	* 1.6371	* 1.7086	* 1.8074	* 1.8744	* 1.9814	* 2.1497	* 3.3499	*
14	* 1.0517	* 1.2616	* 1.3280	* 1.2520	* .8932	* .6908	*	*
	* 1.7819	* 1.7192	* 1.7911	* 1.8631	* 2.6471	* 3.3499	*	*
15	* .5762	* .8493	* .7133	* .7486	F-SUB-Q			
	* 3.0701	* 2.5762	* 3.3166	* 3.2127	M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 50% POWER, 475 EFPD, THIS IS LEVEL 22 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A

8	* .7658	* 1.2156	* 1.4073	* 1.6686	* 1.6815	* 1.6044	* 1.2049	* .6490
	* 2.7558	* 1.9499	* 1.7066	* 1.4482	* 1.4930	* 1.4429	* 1.6184	* 2.8173

9	* 1.2156	* 1.2970	* 1.3462	* 1.5904	* 1.6900	* 1.5562	* 1.4651	* .9532
	* 1.9499	* 1.6574	* 1.7043	* 1.5543	* 1.4369	* 1.5642	* 1.5252	* 2.3505

10	* 1.4073	* 1.3462	* 1.1535	* 1.5508	* 1.6044	* 1.5101	* 1.5294	* .8022
	* 1.7066	* 1.7050	* 1.6398	* 1.4961	* 1.5782	* 1.6739	* 1.5893	* 3.0182

11	* 1.6686	* 1.5915	* 1.5508	* 1.4651	* 1.5005	* 1.4276	* 1.4384	* .8290
	* 1.4482	* 1.5532	* 1.4966	* 1.6178	* 1.6133	* 1.7363	* 1.6644	* 2.9868

12	* 1.6815	* 1.6922	* 1.6044	* 1.4994	* 1.1899	* 1.2766	* .9885	*
	* 1.4930	* 1.4349	* 1.5782	* 1.6144	* 1.7463	* 1.7568	* 2.4604	*

13	* 1.6044	* 1.5572	* 1.5101	* 1.4276	* 1.2766	* 1.1652	* .7679	*
	* 1.4429	* 1.5634	* 1.6738	* 1.7363	* 1.7568	* 1.9116	* 3.1018	*

14	* 1.2049	* 1.4651	* 1.5294	* 1.4384	* .9885	* .7679	*	*
	* 1.6184	* 1.5249	* 1.5890	* 1.6644	* 2.4604	* 3.1018	*	*

15	* .6490	* .9532	* .8011	* .8290	F-SUB-Q			
	* 2.8173	* 2.3487	* 3.0182	* 2.9870	M-SUB-Q			

AT 50% POWER, 475 EFPD, THIS IS LEVEL 21 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A

8	* .7883	* 1.2402	* 1.4448	* 1.7779	* 1.7425	* 1.7115	* 1.2702	* .6790
	* 2.7175	* 1.9826	* 1.7265	* 1.4025	* 1.4877	* 1.3880	* 1.5943	* 2.8081

9	* 1.2402	* 1.3623	* 1.3762	* 1.6429	* 1.8036	* 1.6129	* 1.5583	* .9950
	* 1.9826	* 1.6353	* 1.7311	* 1.5555	* 1.3882	* 1.5569	* 1.4766	* 2.3330

10	* 1.4448	* 1.3762	* 1.1942	* 1.6504	* 1.6579	* 1.5476	* 1.6161	* .8375
	* 1.7265	* 1.7317	* 1.6499	* 1.4522	* 1.5768	* 1.6888	* 1.5487	* 2.9801

11	* 1.7779	* 1.6451	* 1.6504	* 1.5101	* 1.5926	* 1.4630	* 1.5123	* .8536
	* 1.4025	* 1.5545	* 1.4522	* 1.6211	* 1.5555	* 1.7504	* 1.6319	* 3.0036

12	* 1.7425	* 1.8057	* 1.6579	* 1.5915	* 1.2327	* 1.3366	* 1.0132	*
	* 1.4877	* 1.3862	* 1.5768	* 1.5568	* 1.7048	* 1.6711	* 2.4803	*

13	* 1.7115	* 1.6140	* 1.5476	* 1.4630	* 1.3366	* 1.2209	* .7893	*
	* 1.3880	* 1.5561	* 1.6882	* 1.7505	* 1.6713	* 1.8227	* 3.1213	*

14	* 1.2702	* 1.5583	* 1.6161	* 1.5123	* 1.0132	* .7893	*	*
	* 1.5943	* 1.4764	* 1.5487	* 1.6319	* 2.4803	* 3.1213	*	*

15	* .6790	* .9950	* .8375	* .8536	F-SUB-Q			
	* 2.8081	* 2.3318	* 2.9801	* 3.0039	M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 50% POWER, 475 EFPD, THIS IS LEVEL 20 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .7700	* 1.2081	* 1.4116	* 1.7682	* 1.7104	* 1.7115	* 1.2681	* .6790
	* 2.8617	* 2.1483	* 1.8626	* 1.4784	* 1.5900	* 1.4567	* 1.6918	* 2.9973
9	* 1.2081	* 1.3473	* 1.3430	* 1.6097	* 1.7939	* 1.5851	* 1.5540	* .9885
	* 2.1483	* 1.7429	* 1.8708	* 1.6688	* 1.4600	* 1.6623	* 1.5534	* 2.4858
10	* 1.4116	* 1.3430	* 1.1738	* 1.6397	* 1.6215	* 1.5058	* 1.6022	* .8279
	* 1.8626	* 1.8716	* 1.7735	* 1.5329	* 1.6850	* 1.8179	* 1.6262	* 3.1574
11	* 1.7682	* 1.6108	* 1.6397	* 1.4737	* 1.5733	* 1.4191	* 1.4887	* .8332
	* 1.4784	* 1.6675	* 1.5334	* 1.7405	* 1.6037	* 1.8886	* 1.7314	* 3.2218
12	* 1.7104	* 1.7961	* 1.6215	* 1.5712	* 1.2027	* 1.3055	* .9810	*
	* 1.5900	* 1.4580	* 1.6850	* 1.6047	* 1.7600	* 1.7042	* 2.6768	*
13	* 1.7115	* 1.5851	* 1.5069	* 1.4180	* 1.3055	* 1.1931	* .7626	*
	* 1.4567	* 1.6617	* 1.8171	* 1.8886	* 1.7044	* 1.8553	* 3.3419	*
14	* 1.2681	* 1.5540	* 1.6022	* 1.4887	* .9810	* .7626	*	*
	* 1.6918	* 1.5530	* 1.6262	* 1.7315	* 2.6768	* 3.3402	*	*
15	* .6790	* .9885	* .8279	* .8332	F-SUB-Q			
	* 2.9973	* 2.4844	* 3.1574	* 3.2218	M-SUB-Q			

AT 50% POWER, 475 EFPD, THIS IS LEVEL 19 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .7540	* 1.1813	* 1.3794	* 1.7372	* 1.6686	* 1.6986	* 1.2820	* .6961
	* 3.1079	* 2.3617	* 2.0406	* 1.5966	* 1.7287	* 1.5682	* 1.8281	* 3.2416
9	* 1.1813	* 1.3302	* 1.3173	* 1.5722	* 1.7618	* 1.5551	* 1.5444	* .9864
	* 2.3617	* 1.9000	* 2.0517	* 1.8181	* 1.5728	* 1.8084	* 1.6689	* 2.6889
10	* 1.3794	* 1.3173	* 1.1631	* 1.6151	* 1.5765	* 1.4598	* 1.5733	* .8172
	* 2.0406	* 2.0527	* 1.9397	* 1.6572	* 1.8291	* 1.9750	* 1.7384	* 3.3974
11	* 1.7372	* 1.5733	* 1.6151	* 1.4351	* 1.5326	* 1.3655	* 1.4448	* .8086
	* 1.5966	* 1.8168	* 1.6577	* 1.9006	* 1.7180	* 2.0526	* 1.8897	* 3.5278
12	* 1.6686	* 1.7639	* 1.5765	* 1.5305	* 1.1610	* 1.2563	* .9414	*
	* 1.7287	* 1.5711	* 1.8291	* 1.7187	* 1.8963	* 1.8212	* 2.9601	*
13	* 1.6986	* 1.5551	* 1.4598	* 1.3645	* 1.2563	* 1.1449	* .7294	*
	* 1.5682	* 1.8077	* 1.9745	* 2.0529	* 1.8217	* 1.9800	* 3.5960	*
14	* 1.2820	* 1.5455	* 1.5733	* 1.4448	* .9414	* .7294	*	*
	* 1.8281	* 1.6687	* 1.7384	* 1.8897	* 2.9601	* 3.5960	*	*
15	* .6961	* .9864	* .8172	* .8086	F-SUB-Q			
	* 3.2416	* 2.6873	* 3.3989	* 3.5278	M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 50% POWER, 475 EFPD, THIS IS LEVEL 18 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .7518	* 1.1835	* 1.3794	* 1.7350	* 1.6579	* 1.7243	* 1.3977	* .7743
	* 3.3619	* 2.5410	* 2.2035	* 1.7008	* 1.8529	* 1.6655	* 1.9547	* 3.4639
9	* 1.1835	* 1.3591	* 1.3302	* 1.5658	* 1.7597	* 1.5594	* 1.5744	* 1.0132
	* 2.5410	* 2.0541	* 2.2247	* 1.9506	* 1.6732	* 1.9318	* 1.7719	* 2.8601
10	* 1.3794	* 1.3302	* 1.2327	* 1.6279	* 1.5604	* 1.4426	* 1.5722	* .8247
	* 2.2035	* 2.2258	* 2.1008	* 1.7683	* 1.9653	* 2.1308	* 1.8527	* 3.6076
11	* 1.7350	* 1.5669	* 1.6268	* 1.4319	* 1.5176	* 1.3345	* 1.4212	* .7979
	* 1.7008	* 1.9490	* 1.7690	* 2.0440	* 1.8569	* 2.2306	* 2.0610	* 3.8408
12	* 1.6579	* 1.7618	* 1.5615	* 1.5155	* 1.1406	* 1.2252		* .9168
	* 1.8529	* 1.6709	* 1.9653	* 1.8576	* 2.0604	* 1.9661		* 3.2390
13	* 1.7243	* 1.5604	* 1.4426	* 1.3345	* 1.2242	* 1.1117		* .7069
	* 1.6655	* 1.9309	* 2.1308	* 2.2313	* 1.9661	* 2.1368		* 3.8945
14	* 1.3977	* 1.5754	* 1.5722	* 1.4212	* .9168	* .7069		
	* 1.9547	* 1.7712	* 1.8527	* 2.0610	* 3.2390	* 3.8945		
15	* .7743	* 1.0142	* .8247	* .7979	* F-SUB-Q			
	* 3.4639	* 2.8583	* 3.6089	* 3.8408	* M-SUB-Q			

AT 50% POWER, 475 EFPD, THIS IS LEVEL 17 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .7497	* 1.1856	* 1.3784	* 1.7329	* 1.6451	* 1.7479	* 1.5015	* .8375
	* 3.6808	* 2.7898	* 2.4146	* 1.8591	* 2.0319	* 1.8148	* 2.1169	* 3.7538
9	* 1.1856	* 1.4052	* 1.3441	* 1.5583	* 1.7554	* 1.5604	* 1.6108	* 1.0357
	* 2.7898	* 2.2374	* 2.4352	* 2.1395	* 1.8296	* 2.1155	* 1.9229	* 3.1093
10	* 1.3784	* 1.3441	* 1.3816	* 1.6440	* 1.5433	* 1.4223	* 1.5722	* .8311
	* 2.4146	* 2.4360	* 2.2973	* 1.9379	* 2.1617	* 2.3523	* 2.0272	* 3.9390
11	* 1.7329	* 1.5594	* 1.6429	* 1.4566	* 1.5037	* 1.3023	* 1.3998	* .7840
	* 1.8591	* 2.1385	* 1.9384	* 2.2488	* 2.0313	* 2.4484	* 2.2748	* 4.2148
12	* 1.6451	* 1.7586	* 1.5444	* 1.5015	* 1.1192	* 1.1942		* .8889
	* 2.0319	* 1.8273	* 2.1617	* 2.0334	* 2.2668	* 2.1648		* 3.5513
13	* 1.7479	* 1.5604	* 1.4223	* 1.3023	* 1.1942	* 1.0796		* .6833
	* 1.8148	* 2.1145	* 2.3517	* 2.4496	* 2.1648	* 2.3603		* 4.3039
14	* 1.5015	* 1.6108	* 1.5722	* 1.3998	* .8889	* .6833		
	* 2.1169	* 1.9225	* 2.0268	* 2.2748	* 3.5513	* 4.3039		
15	* .8375	* 1.0367	* .8311	* .7840	* F-SUB-Q			
	* 3.7538	* 3.1072	* 3.9390	* 4.2151	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 50% POWER, 475 EFPD, THIS IS LEVEL 16 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .7561	* 1.1963	* 1.3859	* 1.7404	* 1.6451	* 1.7682	* 1.5540	* .8718
	* 4.0478	* 3.0756	* 2.6685	* 2.0653	* 2.2451	* 2.0124	* 2.3234	* 4.1164
9	* 1.1963	* 1.4416	* 1.3645	* 1.5615	* 1.7618	* 1.5690	* 1.6536	* 1.0571
	* 3.0756	* 2.4809	* 2.6920	* 2.3670	* 2.0321	* 2.3372	* 2.1271	* 3.4147
10	* 1.3859	* 1.3634	* 1.4384	* 1.6600	* 1.5433	* 1.4148	* 1.5776	* .8418
	* 2.6685	* 2.6929	* 2.5424	* 2.1588	* 2.3874	* 2.5876	* 2.2353	* 4.3128
11	* 1.7404	* 1.5626	* 1.6590	* 1.4758	* 1.4983	* 1.2852	* 1.3891	* .7786
	* 2.0653	* 2.3652	* 2.1594	* 2.4936	* 2.2428	* 2.6838	* 2.5277	* 4.6264
12	* 1.6451	* 1.7639	* 1.5433	* 1.4962	* 1.1074	* 1.1738		* .8739
	* 2.2451	* 2.0302	* 2.3873	* 2.2440	* 2.4821	* 2.3809		* 3.8851
13	* 1.7682	* 1.5690	* 1.4148	* 1.2852	* 1.1738	* 1.0581		* .6683
	* 2.0124	* 2.3366	* 2.5876	* 2.6838	* 2.3809	* 2.5897		* 4.6891
14	* 1.5540	* 1.6547	* 1.5776	* 1.3891	* .8739	* .6683		
	* 2.3234	* 2.1266	* 2.2353	* 2.5277	* 3.8851	* 4.6891		
15	* .8718	* 1.0581	* .8407	* .7786	* F-SUB-Q			
	* 4.1164	* 3.4147	* 4.3128	* 4.6264	* M-SUB-Q			

AT 50% POWER, 475 EFPD, THIS IS LEVEL 15 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .7476	* 1.1856	* 1.3698	* 1.7104	* 1.6183	* 1.7425	* 1.5455	* .8707
	* 4.5702	* 3.4534	* 3.0046	* 2.3393	* 2.5152	* 2.2741	* 2.5997	* 4.5911
9	* 1.1856	* 1.4309	* 1.3548	* 1.5380	* 1.7307	* 1.5465	* 1.6386	* 1.0507
	* 3.4534	* 2.8347	* 3.0402	* 2.6561	* 2.2973	* 2.6133	* 2.3981	* 3.7965
10	* 1.3698	* 1.3537	* 1.4298	* 1.6354	* 1.5165	* 1.3869	* 1.5497	* .8290
	* 3.0046	* 3.0402	* 2.8747	* 2.4508	* 2.6849	* 2.9119	* 2.5237	* 4.8107
11	* 1.7104	* 1.5390	* 1.6343	* 1.4566	* 1.4651	* 1.2531	* 1.3548	* .7636
	* 2.3393	* 2.6545	* 2.4508	* 2.8103	* 2.5476	* 3.0157	* 2.8861	* 5.2010
12	* 1.6183	* 1.7329	* 1.5165	* 1.4630	* 1.0817	* 1.1395		* .8504
	* 2.5152	* 2.2950	* 2.6849	* 2.5491	* 2.7902	* 2.6976		* 4.3599
13	* 1.7425	* 1.5465	* 1.3869	* 1.2531	* 1.1395	* 1.0239		* .6490
	* 2.2741	* 2.6118	* 2.9119	* 3.0174	* 2.6976	* 2.9327		* 5.2428
14	* 1.5455	* 1.6386	* 1.5508	* 1.3548	* .8504	* .6490		
	* 2.5997	* 2.3969	* 2.5237	* 2.8861	* 4.3599	* 5.2428		
15	* .8707	* 1.0507	* .8279	* .7636	* F-SUB-Q			
	* 4.5911	* 3.7963	* 4.8107	* 5.2010	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 50% POWER, 475 EFPD, THIS IS LEVEL 14 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .7540	* 1.1920	* 1.3730	* 1.7232	* 1.6194	* 1.7564	* 1.5583	* .8761
	* 4.9940	* 3.7986	* 3.3353	* 2.6062	* 2.7975	* 2.5274	* 2.8612	* 5.0482
9	* 1.1920	* 1.4480	* 1.3580	* 1.5380	* 1.7414	* 1.5465	* 1.6547	* 1.0560
	* 3.7986	* 3.1406	* 3.3740	* 2.9577	* 2.5612	* 2.9059	* 2.6544	* 4.1887
10	* 1.3730	* 1.3570	* 1.4330	* 1.6461	* 1.5155	* 1.3816	* 1.5594	* .8343
	* 3.3353	* 3.3765	* 3.1955	* 2.7366	* 2.9977	* 3.2582	* 2.8137	* 5.3015
11	* 1.7232	* 1.5390	* 1.6451	* 1.4576	* 1.4694	* 1.2466	* 1.3580	* .7615
	* 2.6062	* 2.9558	* 2.7366	* 3.1162	* 2.8380	* 3.3570	* 3.2403	* 5.8118
12	* 1.6194	* 1.7436	* 1.5155	* 1.4673	* 1.0785	* 1.1385	* .8450	*
	* 2.7975	* 2.5583	* 2.9977	* 2.8398	* 3.1017	* 3.0098	* 4.8510	*
13	* 1.7564	* 1.5465	* 1.3827	* 1.2466	* 1.1385	* 1.0228	* .6447	*
	* 2.5274	* 2.9059	* 3.2559	* 3.3570	* 3.0098	* 3.2673	* 5.8252	*
14	* 1.5583	* 1.6558	* 1.5594	* 1.3580	* .8450	* .6447	*	*
	* 2.8612	* 2.6544	* 2.8137	* 3.2403	* 4.8510	* 5.8252	*	*
15	* .8761	* 1.0560	* .8343	* .7604	* F-SUB-Q			
	* 5.0482	* 4.1849	* 5.3076	* 5.8118	* M-SUB-Q			

AT 50% POWER, 475 EFPD, THIS IS LEVEL 13 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .7540	* 1.1877	* 1.3623	* 1.7115	* 1.6033	* 1.7447	* 1.5476	* .8707
	* 5.3047	* 4.0334	* 3.6241	* 2.8592	* 3.0540	* 2.7874	* 3.1422	* 5.5633
9	* 1.1877	* 1.4437	* 1.3462	* 1.5230	* 1.7275	* 1.5305	* 1.6451	* 1.0474
	* 4.0334	* 3.4218	* 3.6696	* 3.2245	* 2.8211	* 3.1872	* 2.9423	* 4.6233
10	* 1.3623	* 1.3462	* 1.4201	* 1.6333	* 1.4994	* 1.3655	* 1.5476	* .8279
	* 3.6241	* 3.6725	* 3.4864	* 3.0107	* 3.2810	* 3.5825	* 3.1279	* 5.8558
11	* 1.7115	* 1.5240	* 1.6322	* 1.4426	* 1.4576	* 1.2338	* 1.3462	* .7529
	* 2.8592	* 3.2245	* 3.0126	* 3.3254	* 3.0581	* 3.6018	* 3.5906	* 6.4446
12	* 1.6033	* 1.7297	* 1.4994	* 1.4555	* 1.0731	* 1.1310	* .8365	*
	* 3.0540	* 2.8177	* 3.2810	* 3.0621	* 3.3325	* 3.2637	* 5.2160	*
13	* 1.7447	* 1.5305	* 1.3655	* 1.2338	* 1.1310	* 1.0174	* .6383	*
	* 2.7874	* 3.1850	* 3.5798	* 3.6018	* 3.2637	* 3.5495	* 6.2971	*
14	* 1.5476	* 1.6451	* 1.5476	* 1.3462	* .8365	* .6383	*	*
	* 3.1422	* 2.9423	* 3.1279	* 3.5906	* 5.2160	* 6.2971	*	*
15	* .8707	* 1.0485	* .8268	* .7529	* F-SUB-Q			
	* 5.5633	* 4.6233	* 5.8558	* 6.4446	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 50% POWER, 475 EFPD, THIS IS LEVEL 12 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .7540	* 1.1727	* 1.3388	* 1.6793	* 1.5733	* 1.7093	* 1.5197	* .8547
	* 5.4958	* 4.1868	* 3.6440	* 2.9062	* 3.0959	* 2.8514	* 3.2059	* 5.6821
9	* 1.1727	* 1.4212	* 1.3238	* 1.4951	* 1.6943	* 1.5015	* 1.6140	* 1.0292
	* 4.1868	* 3.4511	* 3.6898	* 3.2616	* 2.8812	* 3.2436	* 3.0222	* 4.7313
10	* 1.3388	* 1.3227	* 1.3944	* 1.6022	* 1.4716	* 1.3398	* 1.5187	* .8129
	* 3.6440	* 3.6927	* 3.5157	* 3.0636	* 3.3310	* 3.6553	* 3.2302	* 6.0095
11	* 1.6793	* 1.4962	* 1.6011	* 1.4169	* 1.4319	* 1.2124	* 1.3216	* .7401
	* 2.9062	* 3.2593	* 3.0656	* 3.4792	* 3.2458	* 3.7881	* 3.7488	* 6.6385
12	* 1.5733	* 1.6954	* 1.4716	* 1.4298	* 1.0689	* 1.1160	* .8236	*
	* 3.0959	* 2.8776	* 3.3310	* 3.2503	* 3.5131	* 3.4460	* 5.4448	*
13	* 1.7093	* 1.5026	* 1.3398	* 1.2124	* 1.1160	* 1.0067	* .6308	*
	* 2.8514	* 3.2436	* 3.6553	* 3.7881	* 3.4460	* 3.7398	* 6.5187	*
14	* 1.5197	* 1.6151	* 1.5187	* 1.3216	* .8236	* .6308	*	*
	* 3.2059	* 3.0222	* 3.2279	* 3.7488	* 5.4448	* 6.5187	*	*
15	* .8547	* 1.0303	* .8129	* .7401	* F-SUB-Q			
	* 5.6821	* 4.7313	* 6.0095	* 6.6479	* M-SUB-Q			

AT 50% POWER, 475 EFPD, THIS IS LEVEL 11 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .7615	* 1.1781	* 1.3409	* 1.6858	* 1.5744	* 1.7179	* 1.5251	* .8579
	* 5.1238	* 3.9210	* 3.5026	* 2.8021	* 2.9952	* 2.7511	* 3.0939	* 5.4638
9	* 1.1781	* 1.4309	* 1.3248	* 1.4951	* 1.6997	* 1.5015	* 1.6226	* 1.0324
	* 3.9210	* 3.2960	* 3.5503	* 3.1521	* 2.7821	* 3.1415	* 2.9134	* 4.5523
10	* 1.3409	* 1.3238	* 1.3955	* 1.6086	* 1.4726	* 1.3388	* 1.5251	* .8150
	* 3.5026	* 3.5529	* 3.3888	* 2.9518	* 3.2191	* 3.5369	* 3.1144	* 5.7801
11	* 1.6858	* 1.4962	* 1.6076	* 1.4191	* 1.4405	* 1.2145	* 1.3291	* .7422
	* 2.8021	* 3.1500	* 2.9537	* 3.3052	* 3.0497	* 3.5556	* 3.5369	* 6.3856
12	* 1.5744	* 1.7018	* 1.4726	* 1.4384	* 1.0796	* 1.1267	* .8279	*
	* 2.9952	* 2.7788	* 3.2191	* 3.0516	* 3.3029	* 3.2257	* 5.0850	*
13	* 1.7179	* 1.5015	* 1.3388	* 1.2145	* 1.1267	* 1.0207	* .6362	*
	* 2.7511	* 3.1394	* 3.5369	* 3.5556	* 3.2257	* 3.4921	* 6.0875	*
14	* 1.5251	* 1.6226	* 1.5262	* 1.3291	* .8279	* .6362	*	*
	* 3.0939	* 2.9134	* 3.1144	* 3.5369	* 5.0850	* 6.0875	*	*
15	* .8579	* 1.0335	* .8150	* .7422	* F-SUB-Q			
	* 5.4638	* 4.5523	* 5.7801	* 6.3856	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 50% POWER, 475 EFPD, THIS IS LEVEL 10 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .7583	* 1.1738	* 1.3323	* 1.6793	* 1.5637	* 1.7115	* 1.5187	* .8514
	* 4.7795	* 3.6076	* 3.1841	* 2.5494	* 2.7351	* 2.5085	* 2.8189	* 4.9613
9	* 1.1738	* 1.4298	* 1.3152	* 1.4844	* 1.6933	* 1.4898	* 1.6172	* 1.0271
	* 3.6076	* 2.9781	* 3.2279	* 2.8759	* 2.5356	* 2.8706	* 2.6517	* 4.1388
10	* 1.3323	* 1.3141	* 1.3869	* 1.6033	* 1.4630	* 1.3280	* 1.5219	* .8097
	* 3.1841	* 3.2302	* 3.0837	* 2.6835	* 2.9352	* 3.2235	* 2.8274	* 5.2441
11	* 1.6793	* 1.4855	* 1.6033	* 1.4116	* 1.4373	* 1.2092	* 1.3270	* .7390
	* 2.5494	* 2.8741	* 2.6835	* 3.0536	* 2.8411	* 3.3287	* 3.2593	* 5.7730
12	* 1.5637	* 1.6954	* 1.4630	* 1.4362	* 1.0764	* 1.1288	* .8268	*
	* 2.7351	* 2.5329	* 2.9352	* 2.8462	* 3.0919	* 3.0144	* 4.7601	*
13	* 1.7115	* 1.4898	* 1.3280	* 1.2092	* 1.1288	* 1.0260	* .6372	*
	* 2.5085	* 2.8688	* 3.2235	* 3.3287	* 3.0144	* 3.2661	* 5.7098	*
14	* 1.5187	* 1.6183	* 1.5219	* 1.3270	* .8268	* .6372	*	*
	* 2.8189	* 2.6502	* 2.8274	* 3.2593	* 4.7601	* 5.7098	*	*
15	* .8514	* 1.0271	* .8097	* .7390	* F-SUB-Q			
	* 4.9613	* 4.1352	* 5.2499	* 5.7730	* M-SUB-Q			

AT 50% POWER, 475 EFPD, THIS IS LEVEL 9 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .7572	* 1.1695	* 1.3248	* 1.6708	* 1.5530	* 1.7007	* 1.5090	* .8450
	* 4.4111	* 3.2775	* 2.8990	* 2.3200	* 2.4925	* 2.2850	* 2.5689	* 4.5347
9	* 1.1695	* 1.4255	* 1.3077	* 1.4748	* 1.6836	* 1.4780	* 1.6086	* 1.0207
	* 3.2775	* 2.7036	* 2.9407	* 2.6206	* 2.3075	* 2.6191	* 2.4156	* 3.7759
10	* 1.3248	* 1.3066	* 1.3794	* 1.5969	* 1.4544	* 1.3205	* 1.5155	* .8065
	* 2.8990	* 2.9407	* 2.8071	* 2.4394	* 2.6728	* 2.9371	* 2.5746	* 4.7795
11	* 1.6708	* 1.4758	* 1.5969	* 1.4062	* 1.4362	* 1.2070	* 1.3259	* .7368
	* 2.3200	* 2.6191	* 2.4394	* 2.7755	* 2.6442	* 3.1165	* 2.9612	* 5.2558
12	* 1.5530	* 1.6858	* 1.4544	* 1.4341	* 1.0764	* 1.1331	* .8290	*
	* 2.4925	* 2.3041	* 2.6728	* 2.6487	* 2.8954	* 2.8206	* 4.4614	*
13	* 1.7007	* 1.4791	* 1.3205	* 1.2070	* 1.1331	* 1.0346	* .6426	*
	* 2.2850	* 2.6176	* 2.9371	* 3.1165	* 2.8206	* 3.0536	* 5.3456	*
14	* 1.5090	* 1.6086	* 1.5155	* 1.3259	* .8290	* .6426	*	*
	* 2.5689	* 2.4143	* 2.5732	* 2.9612	* 4.4572	* 5.3456	*	*
15	* .8450	* 1.0207	* .8065	* .7368	* F-SUB-Q			
	* 4.5347	* 3.7759	* 4.7795	* 5.2558	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 50% POWER, 475 EFPD, THIS IS LEVEL 8 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	.7593	1.1727	1.3205	1.6590	1.5433	1.6868	1.4973	.8397
	4.0322	2.9971	2.6377	2.1344	2.2906	2.1047	2.3656	4.1757
9	1.1727	1.4223	1.3045	1.4683	1.6718	1.4705	1.5958	1.0153
	2.9971	2.4807	2.6958	2.4057	2.1228	2.4057	2.2254	3.4715
10	1.3205	1.3034	1.3784	1.5904	1.4512	1.3173	1.5069	.8011
	2.6577	2.6958	2.5703	2.2392	2.4509	2.6943	2.3668	4.4028
11	1.6590	1.4683	1.5904	1.4062	1.4384	1.2134	1.3259	.7379
	2.1344	2.4044	2.2392	2.5411	2.4243	2.8514	2.7130	4.8138
12	1.5433	1.6740	1.4512	1.4373	1.0849	1.1460	.8375	
	2.2906	2.1199	2.4509	2.4281	2.6562	2.5945	4.0706	
13	1.6868	1.4705	1.3173	1.2134	1.1460	1.0528	.6544	
	2.1047	2.4057	2.6927	2.8514	2.5945	2.8189	4.9043	
14	1.4973	1.5958	1.5080	1.3259	.8375	.6544		
	2.3656	2.2244	2.3668	2.7130	4.0706	4.9043		
15	.8397	1.0164	.8011	.7379	F-SUB-Q			
	4.1757	3.4689	4.4028	4.8138	M-SUB-Q			

AT 50% POWER, 475 EFPD, THIS IS LEVEL 7 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	.7893	1.2038	1.3441	1.6922	1.5658	1.7179	1.5230	.8525
	3.5637	2.6866	2.4143	1.9299	2.0832	1.9056	2.1451	3.8034
9	1.2038	1.4630	1.3270	1.4898	1.7050	1.4887	1.6279	1.0314
	2.6866	2.2339	2.4483	2.1871	1.9196	2.1911	2.0126	2.1606
10	1.3441	1.3259	1.4052	1.6301	1.4791	1.3998	1.5422	.8172
	2.4143	2.4496	2.3304	2.0196	2.2212	2.4470	2.1373	3.9944
11	1.6922	1.4908	1.6290	1.4426	1.4940	1.2563	1.3677	.7540
	1.9299	2.1860	2.0204	2.2940	2.1353	2.5343	2.4381	4.3660
12	1.5658	1.7072	1.4791	1.4930	1.1406	1.2156	.8718	
	2.0832	1.9180	2.2212	2.1382	2.3958	2.3292	3.6159	
13	1.7179	1.4888	1.3409	1.2563	1.2156	1.1235	.6897	
	1.9056	2.1901	2.4470	2.5343	2.3292	2.5397	4.3946	
14	1.5230	1.6279	1.5422	1.3677	.8718	.6897		
	2.1451	2.0126	2.1373	2.4381	3.6131	4.3946		
15	.8525	1.0314	.8172	.7540	F-SUB-Q			
	3.8034	3.1584	3.9944	4.3660	M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 50% POWER, 475 EFPD, THIS IS LEVEL 6 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .8579	* 1.2413	* 1.3623	* 1.7104	* 1.5797	* 1.7329	* 1.5358	* .8589
	* 3.2346	* 2.4573	* 2.2254	* 1.7825	* 1.9251	* 1.7625	* 1.9854	* 3.5289
9	* 1.2413	* 1.4951	* 1.3452	* 1.5058	* 1.7232	* 1.5026	* 1.6429	* 1.0410
	* 2.4573	* 2.0486	* 2.2565	* 2.0204	* 1.7724	* 2.0265	* 1.8617	* 2.9261
10	* 1.3623	* 1.3452	* 1.4287	* 1.6590	* 1.5037	* 1.3612	* 1.5637	* .8268
	* 2.2254	* 2.2575	* 2.1421	* 1.8566	* 2.0433	* 2.2532	* 1.9695	* 3.6927
11	* 1.7104	* 1.5069	* 1.6579	* 1.4801	* 1.5562	* 1.3088	* 1.4030	* .7679
	* 1.7825	* 2.0187	* 1.8566	* 2.0860	* 1.9443	* 2.2985	* 2.2170	* 4.0149
12	* 1.5797	* 1.7254	* 1.5037	* 1.5540	* 1.2627	* 1.3259	* .9125	*
	* 1.9251	* 1.7704	* 2.0433	* 1.9467	* 2.1421	* 2.0832	* 3.2821	*
13	* 1.7329	* 1.5037	* 1.3623	* 1.3088	* 1.3259	* 1.2209	* .7326	*
	* 1.7625	* 2.0265	* 2.2521	* 2.2985	* 2.0832	* 2.2641	* 3.9574	*
14	* 1.5358	* 1.6429	* 1.5647	* 1.4030	* .9125	* .7326	*	*
	* 1.9854	* 1.8610	* 1.9687	* 2.2170	* 3.2821	* 3.9574	*	*
15	* .8589	* 1.0421	* .8257	* .7679	* F-SUB-Q			
	* 3.5289	* 2.9243	* 3.6927	* 4.0149	* M-SUB-Q			

AT 50% POWER, 475 EFPD, THIS IS LEVEL 5 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9286	* 1.2723	* 1.3687	* 1.6997	* 1.5754	* 1.7168	* 1.5262	* .8547
	* 3.0616	* 2.2652	* 2.0953	* 1.6938	* 1.8234	* 1.6792	* 1.8879	* 3.3573
9	* 1.2723	* 1.5048	* 1.3527	* 1.5058	* 1.7136	* 1.4994	* 1.6301	* 1.0378
	* 2.2652	* 1.9267	* 2.1228	* 1.9087	* 1.6840	* 1.9188	* 1.7731	* 2.7755
10	* 1.3687	* 1.3516	* 1.4384	* 1.6611	* 1.5112	* 1.3709	* 1.5615	* .8225
	* 2.0953	* 2.1237	* 2.0126	* 1.7526	* 1.9220	* 2.1180	* 1.8647	* 3.5104
11	* 1.6997	* 1.5069	* 1.6611	* 1.5026	* 1.6001	* 1.3527	* 1.4180	* .7743
	* 1.6938	* 1.9079	* 1.7532	* 1.9394	* 1.8262	* 2.1569	* 2.0722	* 3.7729
12	* 1.5754	* 1.7157	* 1.5112	* 1.5979	* 1.3977	* 1.4394	* .9468	*
	* 1.8234	* 1.6816	* 1.9220	* 1.8284	* 2.0057	* 1.9556	* 3.0837	*
13	* 1.7168	* 1.5005	* 1.3709	* 1.3527	* 1.4394	* 1.3130	* .7711	*
	* 1.6792	* 1.9180	* 2.1170	* 2.1569	* 1.9556	* 2.1228	* 3.7044	*
14	* 1.5262	* 1.6301	* 1.5615	* 1.4180	* .9468	* .7711	*	*
	* 1.8879	* 1.7724	* 1.8647	* 2.0712	* 3.0837	* 3.7044	*	*
15	* .8547	* 1.0389	* .8225	* .7743	* F-SUB-Q			
	* 3.3573	* 2.7739	* 3.5104	* 3.7729	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 50% POWER, 475 EFPD, THIS IS LEVEL 4 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9800	* 1.3045	* 1.3837	* 1.7050	* 1.5851	* 1.7190	* 1.5347	* .8589
	* 2.7954	* 2.1142	* 1.9787	* 1.6118	* 1.7313	* 1.6008	* 1.7928	* 3.1950
9	* 1.3045	* 1.5283	* 1.3687	* 1.5155	* 1.7190	* 1.5069	* 1.6365	* 1.0432
	* 2.1142	* 1.8073	* 2.0040	* 1.8107	* 1.6019	* 1.8241	* 1.6859	* 2.6427
10	* 1.3837	* 1.3677	* 1.4566	* 1.6815	* 1.5305	* 1.3891	* 1.5776	* .8290
	* 1.9787	* 2.0049	* 1.8979	* 1.6544	* 1.8114	* 1.9964	* 1.7631	* 3.3334
11	* 1.7050	* 1.5165	* 1.6783	* 1.5326	* 1.6504	* 1.3998	* 1.4480	* .7850
	* 1.6118	* 1.8100	* 1.6549	* 1.8170	* 1.6932	* 1.9964	* 1.9402	* 3.5583
12	* 1.5851	* 1.7211	* 1.5305	* 1.6483	* 1.4930	* 1.5326	* .9821	*
	* 1.7313	* 1.5997	* 1.8114	* 1.6956	* 1.8706	* 1.8284	* 2.8514	*
13	* 1.7190	* 1.5069	* 1.3902	* 1.3998	* 1.5326	* 1.4052	* .8086	*
	* 1.6008	* 1.8234	* 1.9964	* 1.9964	* 1.8284	* 1.9972	* 3.4689	*
14	* 1.5347	* 1.6376	* 1.5776	* 1.4480	* .9821	* .8086	*	*
	* 1.7928	* 1.6859	* 1.7625	* 1.9402	* 2.8514	* 3.4663	*	*
15	* .8589	* 1.0442	* .8290	* .7850	* F-SUB-Q			
	* 3.1950	* 2.6412	* 3.3358	* 3.5583	* M-SUB-Q			

AT 50% POWER, 475 EFPD, THIS IS LEVEL 3 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9585	* 1.2649	* 1.3323	* 1.6108	* 1.5144	* 1.6226	* 1.4673	* .8236
	* 2.7706	* 2.1037	* 1.9845	* 1.6451	* 1.7487	* 1.6371	* 1.8114	* 3.2257
9	* 1.2649	* 1.4641	* 1.3184	* 1.4501	* 1.6236	* 1.4384	* 1.5519	* .9950
	* 2.1037	* 1.8163	* 2.0075	* 1.8270	* 1.6353	* 1.8456	* 1.7186	* 2.6820
10	* 1.3323	* 1.3184	* 1.3966	* 1.6022	* 1.4748	* 1.3388	* 1.5069	* .7947
	* 1.9845	* 2.0083	* 1.9079	* 1.6774	* 1.8114	* 1.9989	* 1.7839	* 3.3645
11	* 1.6108	* 1.4501	* 1.5990	* 1.4791	* 1.5851	* 1.3698	* 1.3934	* .7583
	* 1.6451	* 1.8262	* 1.6786	* 1.8206	* 1.7048	* 1.9762	* 1.9532	* 3.5637
12	* 1.5144	* 1.6258	* 1.4748	* 1.5829	* 1.4683	* 1.4940	* .9618	*
	* 1.7487	* 1.6331	* 1.8121	* 1.7073	* 1.8406	* 1.8170	* 2.8240	*
13	* 1.6226	* 1.4384	* 1.3388	* 1.3698	* 1.4940	* 1.3752	* .7947	*
	* 1.6371	* 1.8449	* 1.9989	* 1.9762	* 1.8170	* 1.9778	* 3.4234	*
14	* 1.4673	* 1.5519	* 1.5069	* 1.3934	* .9618	* .7947	*	*
	* 1.8114	* 1.7179	* 1.7832	* 1.9532	* 2.8240	* 3.4234	*	*
15	* .8236	* .9960	* .7947	* .7583	* F-SUB-Q			
	* 3.2257	* 2.6804	* 3.3669	* 3.5664	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 3 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - NORMAL OPERATION

AT 50% POWER, 475 EFPD, THIS IS LEVEL 2 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .8461	* 1.0978	* 1.1524	* 1.3752	* 1.3034	* 1.3848	* 1.2756	* .7176
	* 3.0516	* 2.3502	* 2.2328	* 1.8721	* 1.9754	* 1.8632	* 2.0283	* 3.6159
9	* 1.0978	* 1.2563	* 1.1438	* 1.2488	* 1.3848	* 1.2359	* 1.3259	* .8493
	* 2.3502	* 2.0531	* 2.2543	* 2.0612	* 1.8625	* 2.0888	* 1.9556	* 3.0656
10	* 1.1524	* 1.1428	* 1.2059	* 1.3720	* 1.2873	* 1.1610	* 1.2788	* .6897
	* 2.2328	* 2.2543	* 2.1470	* 1.9017	* 2.0169	* 2.2435	* 2.0451	* 3.7850
11	* 1.3752	* 1.2499	* 1.3687	* 1.2809	* 1.3623	* 1.1952	* 1.1888	* .6619
	* 1.8721	* 2.0603	* 1.9025	* 2.0371	* 1.9323	* 2.2108	* 2.2275	* 3.9809
12	* 1.3034	* 1.3859	* 1.2863	* 1.3602	* 1.2916	* 1.2916		* .8514
	* 1.9754	* 1.8603	* 2.0169	* 1.9346	* 2.0415	* 2.0504		* 3.1186
13	* 1.3848	* 1.2359	* 1.1610	* 1.1952	* 1.2916	* 1.1845		* .7015
	* 1.8632	* 2.0878	* 2.2424	* 2.2108	* 2.0504	* 2.2414		* 3.7942
14	* 1.2756	* 1.3270	* 1.2788	* 1.1888	* .8514	* .7015		
	* 2.0283	* 1.9556	* 2.0442	* 2.2275	* 3.1186	* 3.7942		
15	* .7176	* .8493	* .6897	* .6619	* F-SUB-Q			
	* 3.6159	* 3.0636	* 3.7850	* 3.9809	* M-SUB-Q			

AT 50% POWER, 475 EFPD, THIS IS LEVEL 1 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .6265	* .5419	* .5826	* .6683	* .6426	* .6726	* .6265	* .5312
	* 4.0081	* 4.6195	* 4.2862	* 3.7309	* 3.8853	* 3.7190	* 4.0081	* 4.7698
9	* .5419	* .6094	* .5644	* .6223	* .6737	* .6223	* .6180	* .4391
	* 4.6195	* 4.0991	* 4.4488	* 4.0149	* 3.7073	* 4.0218	* 4.0671	* 5.7518
10	* .5826	* .5633	* .6137	* .6694	* .6383	* .5773	* .5965	* .5237
	* 4.2862	* 4.4488	* 4.1027	* 3.7698	* 3.9441	* 4.3741	* 4.2475	* 4.8536
11	* .6683	* .6233	* .6694	* .6351	* .6662	* .5933	* .5516	* .3684
	* 3.7309	* 4.0115	* 3.7729	* 3.9809	* 3.8220	* 4.3297	* 4.6516	* 6.9636
12	* .6426	* .6747	* .6383	* .6651	* .6447	* .6073	* .4766	
	* 3.8853	* 3.7044	* 3.9441	* 3.8283	* 3.9809	* 4.2398	* 5.4322	
13	* .6726	* .6233	* .5762	* .5933	* .6073	* .5558	* .3759	
	* 3.7190	* 4.0184	* 4.3782	* 4.3297	* 4.2436	* 4.6516	* 6.9021	
14	* .6265	* .6180	* .5965	* .5516	* .4766	* .3759		
	* 4.0081	* 4.0671	* 4.2475	* 4.6516	* 5.4322	* 6.9021		
15	* .5312	* .4402	* .5237	* .3684	* F-SUB-Q			
	* 4.7698	* 5.7518	* 4.8536	* 6.9636	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 4

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - POWER ESCALATION

AT 100% POWER, 4 EFPD, THIS IS LEVEL 24 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .4991 *	* .4241 *	* .4273 *	* .4295 *	* .3898 *	* .3727 *	* .3395 *	* .3192 *
	* 2.8881 *	* 3.6514 *	* 3.7108 *	* 3.5300 *	* 3.9499 *	* 3.9384 *	* 4.4159 *	* 4.6581 *
9	* .4241 *	* .4509 *	* .4316 *	* .4091 *	* .3984 *	* .3748 *	* .3470 *	* .2517 *
	* 3.6514 *	* 3.3946 *	* 3.6717 *	* 3.8334 *	* 3.7649 *	* 4.0968 *	* 4.2662 *	* 5.9512 *
10	* .4273 *	* .4316 *	* .4177 *	* .4155 *	* .3888 *	* .3674 *	* .3481 *	* .3127 *
	* 3.7108 *	* 3.6717 *	* 3.8007 *	* 3.6878 *	* 4.0369 *	* 4.2598 *	* 4.3351 *	* 4.8421 *
11	* .4295 *	* .4091 *	* .4155 *	* .3898 *	* .3802 *	* .3599 *	* .3256 *	* .2174 *
	* 3.5300 *	* 3.8334 *	* 3.6878 *	* 4.0300 *	* 3.8588 *	* 4.2196 *	* 4.5837 *	* 7.1434 *
12	* .3898 *	* .3984 *	* .3888 *	* .3802 *	* .3363 *	* .3267 *	* .2956 *	
	* 3.9499 *	* 3.7583 *	* 4.0369 *	* 3.8588 *	* 4.0708 *	* 4.1093 *	* 5.0254 *	
13	* .3727 *	* .3748 *	* .3674 *	* .3599 *	* .3267 *	* .2935 *	* .2206 *	
	* 3.9384 *	* 4.0891 *	* 4.2598 *	* 4.2196 *	* 4.1093 *	* 4.5318 *	* 6.5394 *	
14	* .3395 *	* .3470 *	* .3481 *	* .3256 *	* .2956 *	* .2206 *		
	* 4.4159 *	* 4.2662 *	* 4.3272 *	* 4.5837 *	* 5.0254 *	* 6.5394 *		
15	* .3192 *	* .2517 *	* .3127 *	* .2174 *	F-SUB-Q			
	* 4.6581 *	* 5.9512 *	* 4.8421 *	* 7.1268 *	M-SUB-Q			

AT 100% POWER, 4 EFPD, THIS IS LEVEL 23 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .7036 *	* .9832 *	* 1.0046 *	* .8268 *	* .8450 *	* .6940 *	* .7561 *	* .4445 *
	* 2.0666 *	* 1.6412 *	* 1.6223 *	* 1.8978 *	* 1.8691 *	* 2.1930 *	* 2.0463 *	* 3.4403 *
9	* .9832 *	* .8664 *	* .9950 *	* .9393 *	* .7518 *	* .8439 *	* .7422 *	* .5344 *
	* 1.6412 *	* 1.8210 *	* 1.6412 *	* 1.7136 *	* 2.0770 *	* 1.8882 *	* 2.0532 *	* 2.8748 *
10	* 1.0046 *	* .9950 *	* .9757 *	* .8032 *	* .8814 *	* .8718 *	* .7626 *	* .4145 *
	* 1.6223 *	* 1.6412 *	* 1.6711 *	* 1.9583 *	* 1.8253 *	* 1.8349 *	* 2.0401 *	* 3.7794 *
11	* .8268 *	* .9393 *	* .8022 *	* .8461 *	* .7433 *	* .8439 *	* .7572 *	* .4338 *
	* 1.8978 *	* 1.7136 *	* 1.9601 *	* 1.8924 *	* 2.0591 *	* 1.8587 *	* 2.0153 *	* 3.6584 *
12	* .8450 *	* .7529 *	* .8814 *	* .7433 *	* .7379 *	* .7240 *	* .5869 *	
	* 1.8691 *	* 2.0752 *	* 1.8253 *	* 2.0591 *	* 1.8714 *	* 1.9783 *	* 2.6182 *	
13	* .6940 *	* .8450 *	* .8718 *	* .8439 *	* .7240 *	* .7144 *	* .4637 *	
	* 2.1930 *	* 1.8868 *	* 1.8345 *	* 1.8587 *	* 1.9783 *	* 2.0074 *	* 3.2383 *	
14	* .7561 *	* .7433 *	* .7626 *	* .7572 *	* .5869 *	* .4637 *		
	* 2.0463 *	* 2.0532 *	* 2.0401 *	* 2.0153 *	* 2.6182 *	* 3.2383 *		
15	* .4445 *	* .5355 *	* .4155 *	* .4338 *	F-SUB-Q			
	* 3.4403 *	* 2.8711 *	* 3.7794 *	* 3.6584 *	M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 4 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - POWER ESCALATION

AT 100% POWER, 4 EFPD, THIS IS LEVEL 22 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9436	* 1.2359	* 1.2638	* 1.0496	* 1.0485	* .8771	* .9543	* .5494
	* 1.7315	* 1.3453	* 1.3221	* 1.5233	* 1.5397	* 1.7695	* 1.6572	* 2.8427
9	* 1.2359	* 1.1031	* 1.2466	* 1.1749	* .9628	* 1.0699	* .9671	* .6747
	* 1.3453	* 1.4656	* 1.3421	* 1.3992	* 1.6548	* 1.5219	* 1.6128	* 2.3253
10	* 1.2638	* 1.2466	* 1.2242	* 1.0196	* 1.1160	* 1.1117	* 1.0003	* .5194
	* 1.3221	* 1.3421	* 1.3592	* 1.5741	* 1.4730	* 1.4700	* 1.5875	* 3.0859
11	* 1.0496	* 1.1749	* 1.0174	* 1.0549	* .9607	* 1.0828	* 1.0014	* .5430
	* 1.5233	* 1.3992	* 1.5764	* 1.5575	* 1.6358	* 1.4902	* 1.5615	* 2.9939
12	* 1.0485	* .9628	* 1.1160	* .9607	* 1.0314	* .9768	* .7454	*
	* 1.5397	* 1.6548	* 1.4730	* 1.6358	* 1.5069	* 1.5452	* 2.1300	*
13	* .8771	* 1.0710	* 1.1117	* 1.0828	* .9768	* .9714	* .5965	*
	* 1.7695	* 1.5210	* 1.4698	* 1.4902	* 1.5452	* 1.5434	* 2.6046	*
14	* .9543	* .9671	* 1.0003	* 1.0025	* .7454	* .5965	*	*
	* 1.6572	* 1.6115	* 1.5875	* 1.5615	* 2.1300	* 2.6046	*	*
15	* .5494	* .6758	* .5194	* .5430	* F-SUB-Q			
	* 2.8427	* 2.3229	* 3.0859	* 2.9939	* M-SUB-Q			

AT 100% POWER, 4 EFPD, THIS IS LEVEL 21 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.0699	* 1.4116	* 1.4437	* 1.2177	* 1.2092	* 1.0303	* 1.1149	* .6265
	* 1.5826	* 1.2118	* 1.1894	* 1.3373	* 1.3630	* 1.5301	* 1.4472	* 2.5498
9	* 1.4116	* 1.2798	* 1.4234	* 1.3462	* 1.1320	* 1.2413	* 1.1524	* .7829
	* 1.2118	* 1.2960	* 1.2035	* 1.2455	* 1.4344	* 1.3388	* 1.3797	* 2.0507
10	* 1.4437	* 1.4234	* 1.3977	* 1.1856	* 1.2981	* 1.2938	* 1.1963	* .6040
	* 1.1894	* 1.2035	* 1.2146	* 1.3790	* 1.2972	* 1.2970	* 1.3566	* 2.7159
11	* 1.2177	* 1.3473	* 1.1835	* 1.2231	* 1.1385	* 1.2691	* 1.2017	* .6287
	* 1.3373	* 1.2455	* 1.3815	* 1.3819	* 1.4188	* 1.3092	* 1.3366	* 2.6574
12	* 1.2092	* 1.1331	* 1.2981	* 1.1374	* 1.2274	* 1.1856	* .8707	*
	* 1.3630	* 1.4343	* 1.2972	* 1.4191	* 1.3161	* 1.3191	* 1.8804	*
13	* 1.0303	* 1.2424	* 1.2938	* 1.2691	* 1.1856	* 1.1877	* .7015	*
	* 1.5301	* 1.3380	* 1.2970	* 1.3092	* 1.3191	* 1.3067	* 2.2942	*
14	* 1.1149	* 1.1535	* 1.1963	* 1.2017	* .8707	* .7015	*	*
	* 1.4472	* 1.3789	* 1.3566	* 1.3364	* 1.8804	* 2.2942	*	*
15	* .6265	* .7840	* .6040	* .6287	* F-SUB-Q			
	* 2.5498	* 2.0486	* 2.7159	* 2.6574	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 4 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - POWER ESCALATION

AT 100% POWER, 4 EFPD, THIS IS LEVEL 20 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A

8	* 1.1224	* 1.4908	* 1.5240	* 1.3045	* 1.2948	* 1.1171	* 1.2059	* .6672
	* 1.5613	* 1.1831	* 1.1607	* 1.2758	* 1.3030	* 1.4349	* 1.3693	* 2.4546

9	* 1.4908	* 1.3655	* 1.5037	* 1.4298	* 1.2274	* 1.3334	* 1.2606	* .8418
	* 1.1831	* 1.2454	* 1.1651	* 1.2008	* 1.3516	* 1.2759	* 1.2902	* 1.9600

10	* 1.5240	* 1.5037	* 1.4791	* 1.2713	* 1.3987	* 1.3923	* 1.3109	* .6512
	* 1.1607	* 1.1651	* 1.1748	* 1.3134	* 1.2388	* 1.2421	* 1.2649	* 2.5808

11	* 1.3045	* 1.4298	* 1.2691	* 1.3141	* 1.2402	* 1.3741	* 1.3184	* .6758
	* 1.2758	* 1.2003	* 1.3158	* 1.3261	* 1.3408	* 1.2481	* 1.2541	* 2.5469

12	* 1.2948	* 1.2284	* 1.3987	* 1.2402	* 1.3409	* 1.3098	* .9425	*
	* 1.3030	* 1.3508	* 1.2395	* 1.3413	* 1.2490	* 1.2343	* 1.7976	*

13	* 1.1171	* 1.3345	* 1.3923	* 1.3741	* 1.3098	* 1.3195	* .7615	*
	* 1.4349	* 1.2753	* 1.2423	* 1.2481	* 1.2348	* 1.2170	* 2.1926	*

14	* 1.2059	* 1.2606	* 1.3109	* 1.3184	* .9425	* .7615	*	*
	* 1.3693	* 1.2894	* 1.2648	* 1.2541	* 1.7976	* 2.1926	*	*

15	* .6672	* .8429	* .6501	* .6758	F-SUB-Q			
	* 2.4546	* 1.9583	* 2.5808	* 2.5469	M-SUB-Q			

AT 100% POWER, 4 EFPD, THIS IS LEVEL 19 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A

8	* 1.1503	* 1.5305	* 1.5647	* 1.3505	* 1.3452	* 1.1727	* 1.2638	* .6929
	* 1.5730	* 1.1873	* 1.1610	* 1.2613	* 1.2873	* 1.3996	* 1.3419	* 2.4275

9	* 1.5305	* 1.4105	* 1.5444	* 1.4748	* 1.2863	* 1.3902	* 1.3280	* .8782
	* 1.1873	* 1.2323	* 1.1615	* 1.1937	* 1.3198	* 1.2542	* 1.2549	* 1.9335

10	* 1.5647	* 1.5444	* 1.5219	* 1.3205	* 1.4630	* 1.4566	* 1.3837	* .6822
	* 1.1610	* 1.1615	* 1.1699	* 1.2956	* 1.2194	* 1.2240	* 1.2269	* 2.5270

11	* 1.3505	* 1.4748	* 1.3184	* 1.3687	* 1.3045	* 1.4416	* 1.3934	* .7069
	* 1.2613	* 1.1937	* 1.2978	* 1.3128	* 1.3136	* 1.2290	* 1.2226	* 2.5008

12	* 1.3452	* 1.2873	* 1.4619	* 1.3045	* 1.4137	* 1.3902	* .9896	*
	* 1.2873	* 1.3197	* 1.2200	* 1.3136	* 1.2321	* 1.2076	* 1.7782	*

13	* 1.1727	* 1.3912	* 1.4555	* 1.4416	* 1.3902	* 1.4052	* .8011	*
	* 1.3996	* 1.2542	* 1.2240	* 1.2290	* 1.2076	* 1.1877	* 2.1708	*

14	* 1.2638	* 1.3280	* 1.3837	* 1.3934	* .9896	* .8011	*	*
	* 1.3419	* 1.2542	* 1.2263	* 1.2226	* 1.7782	* 2.1708	*	*

15	* .6929	* .8793	* .6822	* .7069	F-SUB-Q			
	* 2.4275	* 1.9318	* 2.5274	* 2.5008	M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 4 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - POWER ESCALATION

AT 100% POWER, 4 EFPD, THIS IS LEVEL 18 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.1717	* 1.5712	* 1.6065	* 1.3923	* 1.3934	* 1.2242	* 1.3195	* .7197
	* 1.5948	* 1.1854	* 1.1556	* 1.2562	* 1.2803	* 1.3796	* 1.3248	* 2.4135
9	* 1.5712	* 1.4512	* 1.5872	* 1.5208	* 1.3409	* 1.4469	* 1.3902	* .9136
	* 1.1854	* 1.2275	* 1.1612	* 1.1913	* 1.3008	* 1.2384	* 1.2331	* 1.9171
10	* 1.6065	* 1.5862	* 1.5669	* 1.3645	* 1.5262	* 1.5187	* 1.4501	* .7101
	* 1.1556	* 1.1612	* 1.1689	* 1.2870	* 1.1998	* 1.2037	* 1.2009	* 2.5004
11	* 1.3923	* 1.5208	* 1.3612	* 1.4212	* 1.3634	* 1.5080	* 1.4630	* .7358
	* 1.2562	* 1.1913	* 1.2893	* 1.2985	* 1.2938	* 1.2140	* 1.1974	* 2.4654
12	* 1.3934	* 1.3409	* 1.5262	* 1.3634	* 1.4833	* 1.4630	* 1.0346	*
	* 1.2803	* 1.3000	* 1.1998	* 1.2938	* 1.2198	* 1.1894	* 1.7637	*
13	* 1.2242	* 1.4480	* 1.5187	* 1.5080	* 1.4630	* 1.4823	* .8397	*
	* 1.3796	* 1.2377	* 1.2043	* 1.2146	* 1.1894	* 1.1683	* 2.1543	*
14	* 1.3195	* 1.3902	* 1.4501	* 1.4630	* 1.0346	* .8397	*	*
	* 1.3248	* 1.2331	* 1.2009	* 1.1974	* 1.7637	* 2.1543	*	*
15	* .7197	* .9136	* .7101	* .7358	* F-SUB-Q			
	* 2.4135	* 1.9169	* 2.5029	* 2.4654	* M-SUB-Q			

AT 100% POWER, 4 EFPD, THIS IS LEVEL 17 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.1717	* 1.5808	* 1.6194	* 1.4137	* 1.4159	* 1.2552	* 1.3505	* .7304
	* 1.6464	* 1.2138	* 1.1769	* 1.2811	* 1.3041	* 1.3962	* 1.3399	* 2.4654
9	* 1.5808	* 1.4694	* 1.6001	* 1.5380	* 1.3730	* 1.4748	* 1.4298	* .9296
	* 1.2138	* 1.2473	* 1.1862	* 1.2168	* 1.3131	* 1.2527	* 1.2439	* 1.9503
10	* 1.6194	* 1.5990	* 1.5819	* 1.3869	* 1.5626	* 1.5519	* 1.4940	* .7251
	* 1.1769	* 1.1862	* 1.1936	* 1.3105	* 1.2044	* 1.2150	* 1.2039	* 2.5332
11	* 1.4137	* 1.5380	* 1.3848	* 1.4469	* 1.4009	* 1.5455	* 1.5101	* .7508
	* 1.2811	* 1.2168	* 1.3129	* 1.3149	* 1.3006	* 1.2196	* 1.1995	* 2.4858
12	* 1.4159	* 1.3741	* 1.5615	* 1.4009	* 1.5251	* 1.5133	* 1.0592	*
	* 1.3041	* 1.3130	* 1.2044	* 1.3014	* 1.2348	* 1.1995	* 1.7775	*
13	* 1.2552	* 1.4758	* 1.5519	* 1.5444	* 1.5123	* 1.5369	* .8589	*
	* 1.3962	* 1.2527	* 1.2156	* 1.2202	* 1.1995	* 1.1769	* 2.1861	*
14	* 1.3505	* 1.4298	* 1.4940	* 1.5101	* 1.0592	* .8589	*	*
	* 1.3399	* 1.2433	* 1.2039	* 1.1995	* 1.7775	* 2.1861	*	*
15	* .7304	* .9307	* .7251	* .7497	* F-SUB-Q			
	* 2.4654	* 1.9487	* 2.5332	* 2.4868	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 4 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - POWER ESCALATION

AT 100% POWER, 4 EFPD, THIS IS LEVEL 16 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	1.1802	1.5969	1.6376	1.4341	1.4416	1.2852	1.3837	.7443
	1.7064	1.2379	1.2005	1.3214	1.3326	1.4332	1.3618	2.5214
9	1.5969	1.4887	1.6183	1.5594	1.4052	1.5069	1.4673	.9478
	1.2379	1.2829	1.2133	1.2448	1.3413	1.2715	1.2689	1.9907
10	1.6376	1.6183	1.6022	1.4094	1.6011	1.5894	1.5358	.7422
	1.2005	1.2133	1.2199	1.3483	1.2154	1.2259	1.2228	2.5690
11	1.4341	1.5594	1.4062	1.4758	1.4373	1.5851	1.5540	.7668
	1.3214	1.2448	1.3507	1.3326	1.3294	1.2378	1.2202	2.5178
12	1.4416	1.4052	1.6001	1.4362	1.5679	1.5594	1.0860	
	1.3326	1.3412	1.2158	1.3302	1.2486	1.2199	1.8038	
13	1.2852	1.5069	1.5883	1.5840	1.5583	1.5862	.8814	
	1.4332	1.2709	1.2261	1.2378	1.2199	1.1937	2.2160	
14	1.3837	1.4673	1.5358	1.5530	1.0860	.8814		
	1.3618	1.2682	1.2228	1.2202	1.8052	2.2160		
15	.7443	.9489	.7411	.7658	F-SUB-Q			
	2.5214	1.9890	2.5716	2.5178	M-SUB-Q			

AT 100% POWER, 4 EFPD, THIS IS LEVEL 15 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	1.1620	1.5851	1.6258	1.4255	1.4373	1.2873	1.3880	.7443
	1.7895	1.2979	1.2608	1.4002	1.3992	1.5135	1.4235	2.6427
9	1.5851	1.4780	1.6076	1.5519	1.4062	1.5101	1.4705	.9468
	1.2979	1.3593	1.2732	1.3068	1.4099	1.3248	1.3327	2.0861
10	1.6258	1.6076	1.5936	1.4030	1.6076	1.5958	1.5422	.7401
	1.2608	1.2732	1.2795	1.4263	1.2632	1.2697	1.2806	2.6944
11	1.4255	1.5519	1.3998	1.4748	1.4426	1.5936	1.5615	.7668
	1.4002	1.3068	1.4290	1.3867	1.3860	1.2757	1.2708	2.6240
12	1.4373	1.4073	1.6065	1.4416	1.5787	1.5690	1.0913	
	1.3992	1.4099	1.2638	1.3868	1.3008	1.2821	1.8743	
13	1.2873	1.5101	1.5958	1.5926	1.5690	1.5979	.8857	
	1.5135	1.3247	1.2701	1.2764	1.2821	1.2543	2.3142	
14	1.3880	1.4716	1.5422	1.5615	1.0913	.8857		
	1.4235	1.3327	1.2806	1.2708	1.8743	2.3142		
15	.7443	.9478	.7390	.7668	F-SUB-Q			
	2.6427	2.0842	2.6944	2.6240	M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 4 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - POWER ESCALATION

AT 100% POWER, 4 EFPD, THIS IS LEVEL 14 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.1717	* 1.6022	* 1.6451	* 1.4501	* 1.4641	* 1.3184	* 1.4223	* .7561
	* 1.8652	* 1.3507	* 1.3085	* 1.4623	* 1.4504	* 1.5710	* 1.4682	* 2.7443
9	* 1.6022	* 1.5037	* 1.6268	* 1.5754	* 1.4405	* 1.5422	* 1.5133	* .9650
	* 1.3507	* 1.4167	* 1.3226	* 1.3579	* 1.4599	* 1.3669	* 1.3765	* 2.1571
10	* 1.6451	* 1.6268	* 1.6151	* 1.4287	* 1.6483	* 1.6322	* 1.5883	* .7572
	* 1.3085	* 1.3226	* 1.3294	* 1.4859	* 1.2958	* 1.3064	* 1.3171	* 2.7701
11	* 1.4501	* 1.5754	* 1.4255	* 1.5048	* 1.4812	* 1.6343	* 1.6108	* .7818
	* 1.4623	* 1.3579	* 1.4888	* 1.4297	* 1.4294	* 1.3064	* 1.3047	* 2.7028
12	* 1.4641	* 1.4405	* 1.6472	* 1.4801	* 1.6236	* 1.6204	* 1.1160	
	* 1.4504	* 1.4599	* 1.2965	* 1.4308	* 1.3213	* 1.3069	* 1.9193	
13	* 1.3184	* 1.5433	* 1.6322	* 1.6333	* 1.6204	* 1.6547	* .9061	
	* 1.5710	* 1.3662	* 1.3064	* 1.3067	* 1.3072	* 1.2782	* 2.3669	
14	* 1.4223	* 1.5133	* 1.5883	* 1.6108	* 1.1160	* .9050		
	* 1.4682	* 1.3758	* 1.3171	* 1.3050	* 1.9203	* 2.3669		
15	* .7561	* .9650	* .7561	* .7818	* F-SUB-Q			
	* 2.7443	* 2.1571	* 2.7705	* 2.7032	* M-SUB-Q			

AT 100% POWER, 4 EFPD, THIS IS LEVEL 13 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.1652	* 1.6033	* 1.6483	* 1.4555	* 1.4737	* 1.3323	* 1.4373	* .7604
	* 1.9832	* 1.4303	* 1.3872	* 1.5586	* 1.5321	* 1.6645	* 1.5427	* 2.8981
9	* 1.6033	* 1.5080	* 1.6301	* 1.5808	* 1.4555	* 1.5583	* 1.5337	* .9703
	* 1.4303	* 1.5102	* 1.4013	* 1.4375	* 1.5445	* 1.4378	* 1.4527	* 2.2729
10	* 1.6483	* 1.6301	* 1.6194	* 1.4351	* 1.6686	* 1.6515	* 1.6129	* .7626
	* 1.3872	* 1.4013	* 1.4081	* 1.5808	* 1.3555	* 1.3682	* 1.3857	* 2.9122
11	* 1.4555	* 1.5808	* 1.4330	* 1.5197	* 1.5005	* 1.6568	* 1.6376	* .7883
	* 1.5586	* 1.4375	* 1.5840	* 1.5000	* 1.5068	* 1.3667	* 1.3717	* 2.8349
12	* 1.4737	* 1.4555	* 1.6675	* 1.4994	* 1.6493	* 1.6493	* 1.1288	
	* 1.5321	* 1.5436	* 1.3564	* 1.5078	* 1.3772	* 1.3702	* 2.0090	
13	* 1.3323	* 1.5583	* 1.6504	* 1.6558	* 1.6483	* 1.6858	* .9157	
	* 1.6645	* 1.4378	* 1.3683	* 1.3675	* 1.3705	* 1.3370	* 2.4726	
14	* 1.4373	* 1.5337	* 1.6119	* 1.6365	* 1.1288	* .9157		
	* 1.5427	* 1.4527	* 1.3864	* 1.3718	* 2.0096	* 2.4726		
15	* .7604	* .9703	* .7626	* .7872	* F-SUB-Q			
	* 2.8981	* 2.2726	* 2.9126	* 2.8349	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

CNEI-0400-25
Appendix A, Rev. 17
Page 248 of 331

TABLE 4 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - POWER ESCALATION

AT 100% POWER, 4 EFPD, THIS IS LEVEL 12 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A

8	* 1.1535	* 1.5904	* 1.6376	* 1.4469	* 1.4673	* 1.3313	* 1.4373	* .7593
	* 2.0972	* 1.5268	* 1.4853	* 1.6760	* 1.6377	* 1.7795	* 1.6427	* 3.0866

9	* 1.5904	* 1.4983	* 1.6204	* 1.5733	* 1.4555	* 1.5594	* 1.5337	* .9682
	* 1.5268	* 1.6218	* 1.5014	* 1.5398	* 1.6504	* 1.5302	* 1.5514	* 2.4238

10	* 1.6376	* 1.6194	* 1.6108	* 1.4276	* 1.6740	* 1.6568	* 1.6161	* .7615
	* 1.4853	* 1.5014	* 1.5091	* 1.6977	* 1.4391	* 1.4516	* 1.4764	* 3.0983

11	* 1.4469	* 1.5733	* 1.4255	* 1.5197	* 1.5037	* 1.6633	* 1.6429	* .7872
	* 1.6760	* 1.5398	* 1.7014	* 1.5931	* 1.6031	* 1.4472	* 1.4581	* 3.0109

12	* 1.4673	* 1.4555	* 1.6718	* 1.5026	* 1.6579	* 1.6579	* 1.1310	*
	* 1.6377	* 1.6504	* 1.4401	* 1.6052	* 1.4580	* 1.4561	* 2.1289	*

13	* 1.3313	* 1.5594	* 1.6558	* 1.6622	* 1.6568	* 1.6954	* .9168	*
	* 1.7795	* 1.5302	* 1.4525	* 1.4481	* 1.4561	* 1.4207	* 2.6205	*

14	* 1.4373	* 1.5337	* 1.6161	* 1.6418	* 1.1310	* .9168	*	*
	* 1.6427	* 1.5514	* 1.4773	* 1.4581	* 2.1289	* 2.6205	*	*

15	* .7593	* .9682	* .7615	* .7861	* F-SUB-Q			
	* 3.0866	* 2.4216	* 3.1024	* 3.0147	* M-SUB-Q			

AT 100% POWER, 4 EFPD, THIS IS LEVEL 11 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A

8	* 1.1631	* 1.6140	* 1.6633	* 1.4716	* 1.4940	* 1.3602	* 1.4716	* .7722
	* 2.0460	* 1.4796	* 1.4362	* 1.6218	* 1.5964	* 1.7513	* 1.6207	* 3.0676

9	* 1.6140	* 1.5230	* 1.6461	* 1.6001	* 1.4876	* 1.5947	* 1.5722	* .9864
	* 1.4796	* 1.5676	* 1.4513	* 1.4928	* 1.6062	* 1.4985	* 1.5189	* 2.4069

10	* 1.6633	* 1.6451	* 1.6376	* 1.4533	* 1.7157	* 1.6965	* 1.6600	* .7765
	* 1.4362	* 1.4522	* 1.4594	* 1.6422	* 1.3960	* 1.4111	* 1.4415	* 3.0596

11	* 1.4716	* 1.6001	* 1.4501	* 1.5530	* 1.5412	* 1.7061	* 1.6890	* .8022
	* 1.6218	* 1.4928	* 1.6457	* 1.5409	* 1.5541	* 1.4044	* 1.4180	* 2.9630

12	* 1.4940	* 1.4876	* 1.7147	* 1.5412	* 1.7029	* 1.7050	* 1.1578	*
	* 1.5964	* 1.6062	* 1.3977	* 1.5551	* 1.4094	* 1.4077	* 2.0640	*

13	* 1.3602	* 1.5947	* 1.6954	* 1.7050	* 1.7050	* 1.7468	* .9382	*
	* 1.7513	* 1.4985	* 1.4120	* 1.4052	* 1.4077	* 1.3740	* 2.5425	*

14	* 1.4716	* 1.5722	* 1.6590	* 1.6879	* 1.1578	* .9382	*	*
	* 1.6207	* 1.5189	* 1.4415	* 1.4188	* 2.0640	* 2.5425	*	*

15	* .7722	* .9875	* .7754	* .8022	* F-SUB-Q			
	* 3.0676	* 2.4069	* 3.0636	* 2.9630	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 4 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - POWER ESCALATION

AT 100% POWER, 4 EFPD, THIS IS LEVEL 10 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.1588	* 1.6194	* 1.6697	* 1.4823	* 1.5048	* 1.3762	* 1.4876	* .7765
	* 2.0230	* 1.4531	* 1.4094	* 1.5867	* 1.5624	* 1.7040	* 1.5759	* 2.9962
9	* 1.6194	* 1.5337	* 1.6526	* 1.6086	* 1.5048	* 1.6108	* 1.5947	* .9939
	* 1.4531	* 1.5338	* 1.4248	* 1.4621	* 1.5645	* 1.4612	* 1.4759	* 2.3462
10	* 1.6697	* 1.6515	* 1.6451	* 1.4651	* 1.7372	* 1.7157	* 1.6847	* .7818
	* 1.4094	* 1.4248	* 1.4309	* 1.6062	* 1.3573	* 1.3748	* 1.3985	* 2.9888
11	* 1.4823	* 1.6086	* 1.4619	* 1.5679	* 1.5647	* 1.7275	* 1.7157	* .8086
	* 1.5867	* 1.4630	* 1.6095	* 1.5033	* 1.5082	* 1.3652	* 1.3740	* 2.8969
12	* 1.5048	* 1.5048	* 1.7361	* 1.5637	* 1.7275	* 1.7339	* 1.1706	*
	* 1.5624	* 1.5645	* 1.3588	* 1.5091	* 1.3676	* 1.3620	* 2.0092	*
13	* 1.3762	* 1.6108	* 1.7147	* 1.7265	* 1.7339	* 1.7800	* .9478	*
	* 1.7040	* 1.4612	* 1.3756	* 1.3668	* 1.3620	* 1.3266	* 2.4781	*
14	* 1.4876	* 1.5947	* 1.6847	* 1.7157	* 1.1706	* .9478	*	*
	* 1.5759	* 1.4759	* 1.3985	* 1.3748	* 2.0109	* 2.4781	*	*
15	* .7765	* .9939	* .7808	* .8075	F-SUB-Q			
	* 2.9962	* 2.3462	* 2.9891	* 2.8972	M-SUB-Q			

AT 100% POWER, 4 EFPD, THIS IS LEVEL 9 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.1578	* 1.6215	* 1.6740	* 1.4887	* 1.5112	* 1.3859	* 1.4983	* .7797
	* 1.9952	* 1.4279	* 1.3832	* 1.5525	* 1.5261	* 1.6599	* 1.5339	* 2.9277
9	* 1.6215	* 1.5390	* 1.6568	* 1.6151	* 1.5165	* 1.6215	* 1.6076	* .9971
	* 1.4279	* 1.5028	* 1.3981	* 1.4321	* 1.5263	* 1.4252	* 1.4373	* 2.2924
10	* 1.6740	* 1.6558	* 1.6504	* 1.4716	* 1.7522	* 1.7297	* 1.7007	* .7850
	* 1.3832	* 1.3981	* 1.4023	* 1.5712	* 1.3263	* 1.3437	* 1.3624	* 2.9168
11	* 1.4887	* 1.6151	* 1.4683	* 1.5776	* 1.5797	* 1.7436	* 1.7329	* .8118
	* 1.5525	* 1.4321	* 1.5744	* 1.4739	* 1.4741	* 1.3355	* 1.3407	* 2.8292
12	* 1.5112	* 1.5165	* 1.7511	* 1.5787	* 1.7436	* 1.7522	* 1.1781	*
	* 1.5261	* 1.5263	* 1.3278	* 1.4750	* 1.3364	* 1.3296	* 1.9701	*
13	* 1.3859	* 1.6215	* 1.7286	* 1.7425	* 1.7522	* 1.7993	* .9532	*
	* 1.6599	* 1.4252	* 1.3445	* 1.3363	* 1.3296	* 1.2944	* 2.4316	*
14	* 1.4983	* 1.6076	* 1.6997	* 1.7329	* 1.1781	* .9532	*	*
	* 1.5339	* 1.4373	* 1.3631	* 1.3415	* 1.9701	* 2.4316	*	*
15	* .7797	* .9971	* .7850	* .8107	F-SUB-Q			
	* 2.9277	* 2.2924	* 2.9171	* 2.8294	M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 4 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - POWER ESCALATION

AT 100% POWER, 4 EFPD, THIS IS LEVEL 8 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.1535	* 1.6226	* 1.6761	* 1.4876	* 1.5133	* 1.3869	* 1.5026	* .7797
	* 1.9639	* 1.4000	* 1.3561	* 1.5255	* 1.4962	* 1.6281	* 1.5027	* 2.8758
9	* 1.6226	* 1.5380	* 1.6590	* 1.6172	* 1.5197	* 1.6279	* 1.6097	* .9971
	* 1.4000	* 1.4765	* 1.3704	* 1.4032	* 1.4953	* 1.3939	* 1.4090	* 2.2517
10	* 1.6761	* 1.6579	* 1.6536	* 1.4716	* 1.7597	* 1.7393	* 1.7040	* .7829
	* 1.3561	* 1.3705	* 1.3744	* 1.5426	* 1.2956	* 1.3116	* 1.3346	* 2.8693
11	* 1.4876	* 1.6172	* 1.4683	* 1.5840	* 1.5840	* 1.7522	* 1.7372	* .8118
	* 1.5255	* 1.4040	* 1.5457	* 1.4406	* 1.4440	* 1.3036	* 1.3123	* 2.7776
12	* 1.5133	* 1.5187	* 1.7586	* 1.5840	* 1.7532	* 1.7575	* 1.1813	
	* 1.4962	* 1.4953	* 1.2971	* 1.4449	* 1.3090	* 1.3039	* 1.9270	
13	* 1.3869	* 1.6279	* 1.7382	* 1.7511	* 1.7575	* 1.8036	* .9553	
	* 1.6281	* 1.3939	* 1.3123	* 1.3043	* 1.3046	* 1.2707	* 2.3785	
14	* 1.5026	* 1.6097	* 1.7029	* 1.7361	* 1.1802	* .9553		
	* 1.5027	* 1.4090	* 1.3353	* 1.3123	* 1.9285	* 2.3785		
15	* .7797	* .9971	* .7829	* .8107	* F-SUB-Q			
	* 2.8758	* 2.2517	* 2.8728	* 2.7779	* M-SUB-Q			

AT 100% POWER, 4 EFPD, THIS IS LEVEL 7 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.1717	* 1.6526	* 1.7093	* 1.5230	* 1.5465	* 1.4201	* 1.5380	* .7915
	* 1.8992	* 1.3516	* 1.3071	* 1.4657	* 1.4395	* 1.5625	* 1.4414	* 2.7757
9	* 1.6526	* 1.5744	* 1.6922	* 1.6526	* 1.5572	* 1.6633	* 1.6515	* 1.0142
	* 1.3516	* 1.4187	* 1.3204	* 1.3516	* 1.4343	* 1.3415	* 1.3507	* 2.1716
10	* 1.7093	* 1.6922	* 1.6879	* 1.5069	* 1.8046	* 1.7779	* 1.7489	* .7990
	* 1.3071	* 1.3211	* 1.3241	* 1.4815	* 1.2415	* 1.2602	* 1.2779	* 2.7651
11	* 1.5230	* 1.6515	* 1.5037	* 1.6183	* 1.6247	* 1.7939	* 1.7843	* .8247
	* 1.4657	* 1.3516	* 1.4843	* 1.3845	* 1.3829	* 1.2508	* 1.2548	* 2.6867
12	* 1.5465	* 1.5572	* 1.8025	* 1.6236	* 1.7950	* 1.8057	* 1.2027	
	* 1.4395	* 1.4343	* 1.2428	* 1.3830	* 1.2530	* 1.2456	* 1.8573	
13	* 1.4201	* 1.6633	* 1.7768	* 1.7929	* 1.8057	* 1.8550	* .9703	
	* 1.5625	* 1.3415	* 1.2608	* 1.2515	* 1.2457	* 1.2122	* 2.2978	
14	* 1.5380	* 1.6515	* 1.7489	* 1.7832	* 1.2027	* .9703		
	* 1.4414	* 1.3507	* 1.2779	* 1.2555	* 1.8588	* 2.2978		
15	* .7915	* 1.0142	* .7979	* .8236	* F-SUB-Q			
	* 2.7757	* 2.1716	* 2.7684	* 2.6891	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 4 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - POWER ESCALATION

AT 100% POWER, 4 EFPD, THIS IS LEVEL 6 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.1792	* 1.6686	* 1.7286	* 1.5412	* 1.5669	* 1.4341	* 1.5540	* .7958
	* 1.8377	* 1.3037	* 1.2590	* 1.4111	* 1.3845	* 1.5101	* 1.3911	* 2.6974
9	* 1.6686	* 1.5926	* 1.7136	* 1.6740	* 1.5754	* 1.6804	* 1.6665	* 1.0196
	* 1.3037	* 1.3668	* 1.2712	* 1.2994	* 1.3820	* 1.2937	* 1.3045	* 2.1104
10	* 1.7286	* 1.7125	* 1.7082	* 1.5262	* 1.8282	* 1.7993	* 1.7650	* .8022
	* 1.2590	* 1.2712	* 1.2747	* 1.4266	* 1.1955	* 1.2153	* 1.2351	* 2.6881
11	* 1.5412	* 1.6729	* 1.5230	* 1.6386	* 1.6418	* 1.8143	* 1.8004	* .8268
	* 1.4111	* 1.3001	* 1.4292	* 1.3349	* 1.3356	* 1.2072	* 1.2147	* 2.6133
12	* 1.5669	* 1.5754	* 1.8261	* 1.6408	* 1.8153	* 1.8228	* 1.2102	*
	* 1.3845	* 1.3829	* 1.1973	* 1.3372	* 1.2115	* 1.2059	* 1.8052	*
13	* 1.4341	* 1.6804	* 1.7971	* 1.8132	* 1.8228	* 1.8710	* .9746	*
	* 1.5101	* 1.2937	* 1.2165	* 1.2084	* 1.2065	* 1.1757	* 2.2392	*
14	* 1.5540	* 1.6654	* 1.7639	* 1.7993	* 1.2102	* .9746	*	*
	* 1.3911	* 1.3052	* 1.2358	* 1.2153	* 1.8052	* 2.2392	*	*
15	* .7958	* 1.0196	* .8011	* .8257	* F-SUB-Q			
	* 2.6974	* 2.1104	* 2.6912	* 2.6162	* M-SUB-Q			

AT 100% POWER, 4 EFPD, THIS IS LEVEL 5 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.1685	* 1.6600	* 1.7254	* 1.5347	* 1.5690	* 1.4201	* 1.5444	* .7893
	* 1.8079	* 1.2782	* 1.2312	* 1.3829	* 1.3495	* 1.4881	* 1.3668	* 2.6547
9	* 1.6600	* 1.5819	* 1.7125	* 1.6750	* 1.5679	* 1.6718	* 1.6429	* 1.0057
	* 1.2782	* 1.3417	* 1.2397	* 1.2671	* 1.3549	* 1.2685	* 1.2908	* 2.0897
10	* 1.7254	* 1.7115	* 1.7093	* 1.5219	* 1.8250	* 1.7929	* 1.7372	* .7872
	* 1.2312	* 1.2403	* 1.2430	* 1.3960	* 1.1675	* 1.1882	* 1.2229	* 2.6698
11	* 1.5347	* 1.6750	* 1.5176	* 1.6397	* 1.6268	* 1.8057	* 1.7714	* .8129
	* 1.3829	* 1.2671	* 1.3985	* 1.2994	* 1.3103	* 1.1816	* 1.2022	* 2.5902
12	* 1.5690	* 1.5669	* 1.8228	* 1.6247	* 1.8036	* 1.7993	* 1.1952	*
	* 1.3495	* 1.3557	* 1.1687	* 1.3117	* 1.1852	* 1.1888	* 1.7792	*
13	* 1.4201	* 1.6718	* 1.7918	* 1.8036	* 1.7982	* 1.8368	* .9596	*
	* 1.4881	* 1.2685	* 1.1888	* 1.1828	* 1.1894	* 1.1640	* 2.2118	*
14	* 1.5444	* 1.6429	* 1.7372	* 1.7704	* 1.1952	* .9596	*	*
	* 1.3668	* 1.2908	* 1.2235	* 1.2028	* 1.7792	* 2.2118	*	*
15	* .7893	* 1.0057	* .7872	* .8129	* F-SUB-Q			
	* 2.6547	* 2.0878	* 2.6728	* 2.5931	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 4 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - POWER ESCALATION

AT 100% POWER, 4 EPPD, THIS IS LEVEL 4 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	1.1749	1.6729	1.7447	1.5551	1.6161	1.4351	1.5658	.7936
	1.7618	1.2423	1.1924	1.3364	1.2838	1.4424	1.3199	2.5902
9	1.6729	1.5958	1.7404	1.7115	1.5904	1.6954	1.6440	1.0046
	1.2423	1.3030	1.1949	1.2147	1.3074	1.2254	1.2624	2.0495
10	1.7447	1.7393	1.7361	1.5476	1.8582	1.8121	1.7318	.7861
	1.1924	1.1955	1.1985	1.3441	1.1218	1.1498	1.2004	2.6220
11	1.5551	1.7104	1.5444	1.6858	1.6451	1.8239	1.7639	.8086
	1.3364	1.2153	1.3471	1.2351	1.2678	1.1442	1.1804	2.5536
12	1.6161	1.5904	1.8560	1.6429	1.8271	1.8046	1.1942	
	1.2838	1.3081	1.1234	1.2692	1.1436	1.1577	1.7422	
13	1.4351	1.6954	1.8111	1.8218	1.8046	1.8303	.9543	
	1.4424	1.2254	1.1509	1.1453	1.1583	1.1408	2.1749	
14	1.5658	1.6440	1.7318	1.7639	1.1942	.9543		
	1.3199	1.2630	1.2010	1.1810	1.7422	2.1769		
15	.7936	1.0046	.7850	.8075	F-SUB-Q			
	2.5902	2.0495	2.6250	2.5563	M-SUB-Q			

AT 100% POWER, 4 EPPD, THIS IS LEVEL 3 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	1.1353	1.6065	1.6729	1.5251	1.6440	1.4384	1.5465	.7711
	1.7941	1.2726	1.2222	1.3410	1.2410	1.4171	1.3147	2.6220
9	1.6065	1.5455	1.6879	1.6825	1.5679	1.6536	1.5808	.9660
	1.2726	1.3236	1.2115	1.2153	1.3037	1.2345	1.2894	2.0990
10	1.6729	1.6868	1.6793	1.5508	1.8218	1.7425	1.6429	.7604
	1.2222	1.2128	1.2184	1.3199	1.1234	1.1751	1.2443	2.6667
11	1.5251	1.6815	1.5433	1.7157	1.6129	1.7618	1.6600	.7722
	1.3410	1.2153	1.3251	1.1924	1.2706	1.1629	1.2332	2.6308
12	1.6440	1.5679	1.8196	1.6119	1.8239	1.7489	1.1492	
	1.2410	1.3037	1.1250	1.2719	1.1239	1.1728	1.7792	
13	1.4384	1.6536	1.7414	1.7607	1.7489	1.7361	.9093	
	1.4171	1.2345	1.1757	1.1640	1.1734	1.1810	2.2435	
14	1.5465	1.5808	1.6418	1.6590	1.1481	.9093		
	1.3147	1.2894	1.2443	1.2338	1.7805	2.2435		
15	.7711	.9660	.7593	.7722	F-SUB-Q			
	2.6220	2.0972	2.6698	2.6308	M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 4 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - POWER ESCALATION

AT 100% POWER, 4 EFPD, THIS IS LEVEL 2 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9821	* 1.3602	* 1.4276	* 1.6183	* 1.5230	* 1.5562	* 1.3998	* .6812
	* 2.0495	* 1.4825	* 1.4120	* 1.2449	* 1.3214	* 1.2922	* 1.4344	* 2.9371
9	* 1.3602	* 1.5562	* 1.4287	* 1.4973	* 1.6451	* 1.4319	* 1.4898	* .8429
	* 1.4825	* 1.2965	* 1.4120	* 1.3464	* 1.2248	* 1.4069	* 1.3502	* 2.3752
10	* 1.4276	* 1.4287	* 1.4812	* 1.6825	* 1.5958	* 1.4555	* 1.4940	* .6737
	* 1.4120	* 1.4120	* 1.3620	* 1.1991	* 1.2651	* 1.3878	* 1.3479	* 2.9743
11	* 1.6183	* 1.4962	* 1.6772	* 1.5904	* 1.7211	* 1.5272	* 1.4191	* .6758
	* 1.2449	* 1.3471	* 1.2028	* 1.2692	* 1.1734	* 1.3236	* 1.4214	* 2.9668
12	* 1.5230	* 1.6451	* 1.5936	* 1.7190	* 1.6633	* 1.6558	* 1.0153	*
	* 1.3214	* 1.2248	* 1.2664	* 1.1751	* 1.2147	* 1.2210	* 1.9854	*
13	* 1.5562	* 1.4319	* 1.4533	* 1.5262	* 1.6558	* 1.4737	* .7829	*
	* 1.2922	* 1.4069	* 1.3886	* 1.3243	* 1.2210	* 1.3723	* 2.5732	*
14	* 1.3998	* 1.4898	* 1.4940	* 1.4180	* 1.0153	* .7829	*	*
	* 1.4344	* 1.3502	* 1.3479	* 1.4214	* 1.9871	* 2.5732	*	*
15	* .6812	* .8429	* .6737	* .6758	* F-SUB-Q			
	* 2.9371	* 2.3752	* 2.9743	* 2.9705	* M-SUB-Q			

AT 100% POWER, 4 EFPD, THIS IS LEVEL 1 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .6833	* .5762	* .6244	* .7165	* .6672	* .6897	* .5998	* .4702
	* 2.9116	* 3.4511	* 3.1885	* 2.7739	* 2.9781	* 2.8794	* 3.3052	* 4.2056
9	* .5762	* .6640	* .5976	* .6715	* .7283	* .6501	* .6008	* .3856
	* 3.4511	* 2.9933	* 3.3334	* 2.9593	* 2.7319	* 3.0556	* 3.3006	* 5.1238
10	* .6244	* .5976	* .6844	* .7486	* .7015	* .6126	* .5965	* .4841
	* 3.1885	* 3.3334	* 2.9080	* 2.6607	* 2.8411	* 3.2548	* 3.3287	* 4.0884
11	* .7165	* .6715	* .7454	* .7079	* .7593	* .6565	* .5548	* .3277
	* 2.7739	* 2.9630	* 2.6698	* 2.8172	* 2.6250	* 3.0359	* 3.5828	* 6.0482
12	* .6672	* .7272	* .6983	* .7583	* .7176	* .6694	* .4905	*
	* 2.9781	* 2.7319	* 2.8514	* 2.6279	* 2.7772	* 2.9743	* 4.0531	*
13	* .6897	* .6512	* .6115	* .6565	* .6694	* .5955	* .3652	*
	* 2.8794	* 3.0516	* 3.2593	* 3.0398	* 2.9781	* 3.3477	* 5.4448	*
14	* .5998	* .6008	* .5955	* .5548	* .4905	* .3652	*	*
	* 3.3052	* 3.3006	* 3.3334	* 3.5828	* 4.0601	* 5.4448	*	*
15	* .4702	* .3856	* .4841	* .3277	* F-SUB-Q			
	* 4.2056	* 5.1238	* 4.0884	* 6.0639	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 4 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - POWER ESCALATION

AT 75% POWER, 4 EFPD, THIS IS LEVEL 24 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .5451 *	* .4648 *	* .4691 *	* .4680 *	* .4220 *	* .4027 *	* .3663 *	* .3384 *
	* 3.3651 *	* 4.2569 *	* 4.1134 *	* 3.9042 *	* 4.3934 *	* 4.3831 *	* 4.9138 *	* 5.2515 *
9	* .4648 *	* .4948 *	* .4723 *	* .4466 *	* .4327 *	* .4070 *	* .3781 *	* .2667 *
	* 4.2569 *	* 3.8456 *	* 4.1076 *	* 4.2333 *	* 4.1818 *	* 4.5661 *	* 4.7202 *	* 6.7069 *
10	* .4691 *	* .4723 *	* .4573 *	* .4530 *	* .4209 *	* .4016 *	* .3791 *	* .3331 *
	* 4.1134 *	* 4.1076 *	* 4.1966 *	* 4.0909 *	* 4.5024 *	* 4.7608 *	* 4.7924 *	* 5.4794 *
11	* .4680 *	* .4466 *	* .4530 *	* .4230 *	* .4134 *	* .3920 *	* .3566 *	* .2313 *
	* 3.9042 *	* 4.2333 *	* 4.0968 *	* 4.5950 *	* 4.4939 *	* 4.9015 *	* 5.3055 *	* 8.1805 *
12	* .4220 *	* .4327 *	* .4209 *	* .4134 *	* .3652 *	* .3577 *	* .3192 *	
	* 4.3934 *	* 4.1756 *	* 4.5024 *	* 4.4939 *	* 4.7275 *	* 4.7540 *	* 5.8858 *	
13	* .4027 *	* .4070 *	* .4016 *	* .3920 *	* .3577 *	* .3202 *	* .2356 *	
	* 4.3831 *	* 4.5590 *	* 4.7530 *	* 4.9015 *	* 4.7540 *	* 5.2508 *	* 7.7488 *	
14	* .3663 *	* .3781 *	* .3802 *	* .3566 *	* .3192 *	* .2356 *		
	* 4.9138 *	* 4.7202 *	* 4.7924 *	* 5.3055 *	* 5.8858 *	* 7.7488 *		
15	* .3384 *	* .2677 *	* .3331 *	* .2313 *	F-SUB-Q			
	* 5.2515 *	* 6.6914 *	* 5.4691 *	* 8.1805 *	M-SUB-Q			

AT 75% POWER, 4 EFPD, THIS IS LEVEL 23 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .7883 *	* 1.1138 *	* 1.1417 *	* .9318 *	* .9457 *	* .7711 *	* .8429 *	* .4830 *
	* 2.3580 *	* 1.8514 *	* 1.7849 *	* 2.0537 *	* 2.0303 *	* 2.3933 *	* 2.2233 *	* 3.8217 *
9	* 1.1138 *	* .9789 *	* 1.1288 *	* 1.0614 *	* .8439 *	* .9500 *	* .8311 *	* .5826 *
	* 1.8514 *	* 1.9987 *	* 1.7784 *	* 1.8504 *	* 2.2545 *	* 2.0431 *	* 2.2297 *	* 3.1917 *
10	* 1.1417 *	* 1.1288 *	* 1.1063 *	* .9039 *	* .9950 *	* .9853 *	* .8579 *	* .4509 *
	* 1.7849 *	* 1.7784 *	* 1.8014 *	* 2.1244 *	* 2.0025 *	* 2.0121 *	* 2.2105 *	* 4.2067 *
11	* .9318 *	* 1.0614 *	* .9029 *	* .9489 *	* .8365 *	* .9543 *	* .8536 *	* .4723 *
	* 2.0537 *	* 1.8492 *	* 2.1260 *	* 2.1517 *	* 2.3307 *	* 2.0935 *	* 2.2752 *	* 4.1470 *
12	* .9457 *	* .8439 *	* .9950 *	* .8365 *	* .8268 *	* .8150 *	* .6533 *	
	* 2.0303 *	* 2.2545 *	* 2.0011 *	* 2.3307 *	* 2.1128 *	* 2.2307 *	* 2.9972 *	
13	* .7711 *	* .9510 *	* .9853 *	* .9543 *	* .8150 *	* .8032 *	* .5087 *	
	* 2.3933 *	* 2.0416 *	* 2.0107 *	* 2.0935 *	* 2.2307 *	* 2.2655 *	* 3.7491 *	
14	* .8429 *	* .8322 *	* .8589 *	* .8536 *	* .6533 *	* .5087 *		
	* 2.2233 *	* 2.2279 *	* 2.2105 *	* 2.2748 *	* 2.9950 *	* 3.7491 *		
15	* .4830 *	* .5837 *	* .4509 *	* .4723 *	F-SUB-Q			
	* 3.8217 *	* 3.1848 *	* 4.2067 *	* 4.1470 *	M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 4 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - POWER ESCALATION

AT 75% POWER, 4 EFPD, THIS IS LEVEL 22 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.0581	* 1.4073	* 1.4437	* 1.1899	* 1.1802	* .9821	* 1.0710	* .5998
	* 1.9749	* 1.5121	* 1.4491	* 1.6471	* 1.6694	* 1.9267	* 1.7990	* 3.1613
9	* 1.4073	* 1.2531	* 1.4234	* 1.3355	* 1.0881	* 1.2124	* 1.0913	* .7379
	* 1.5121	* 1.6027	* 1.4470	* 1.5085	* 1.7933	* 1.6415	* 1.7428	* 2.5795
10	* 1.4437	* 1.4234	* 1.3966	* 1.1545	* 1.2681	* 1.2659	* 1.1331	* .5676
	* 1.4491	* 1.4470	* 1.4635	* 1.7053	* 1.6118	* 1.6092	* 1.7187	* 3.4303
11	* 1.1899	* 1.3366	* 1.1524	* 1.1920	* 1.0892	* 1.2338	* 1.1374	* .5933
	* 1.6471	* 1.5085	* 1.7084	* 1.7644	* 1.8437	* 1.6710	* 1.7553	* 3.3947
12	* 1.1802	* 1.0881	* 1.2691	* 1.0892	* 1.1717	* 1.1085	* .8332	*
	* 1.6694	* 1.7922	* 1.6109	* 1.8437	* 1.6900	* 1.7346	* 2.4292	*
13	* .9821	* 1.2134	* 1.2659	* 1.2338	* 1.1085	* 1.1010	* .6576	*
	* 1.9267	* 1.6406	* 1.6092	* 1.6710	* 1.7346	* 1.7330	* 3.0089	*
14	* 1.0710	* 1.0913	* 1.1331	* 1.1374	* .8332	* .6576	*	*
	* 1.7990	* 1.7428	* 1.7176	* 1.7545	* 2.4292	* 3.0066	*	*
15	* .5998	* .7390	* .5676	* .5933	F-SUB-Q			
	* 3.1613	* 2.5750	* 3.4303	* 3.3947	M-SUB-Q			

AT 75% POWER, 4 EFPD, THIS IS LEVEL 21 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.1952	* 1.6044	* 1.6440	* 1.3784	* 1.3602	* 1.1513	* 1.2499	* .6822
	* 1.8173	* 1.3680	* 1.3040	* 1.4540	* 1.4858	* 1.6713	* 1.5759	* 2.8460
9	* 1.6044	* 1.4501	* 1.6204	* 1.5283	* 1.2777	* 1.4041	* 1.3002	* .8557
	* 1.3680	* 1.4187	* 1.3029	* 1.3510	* 1.5644	* 1.4530	* 1.4997	* 2.2878
10	* 1.6440	* 1.6204	* 1.5904	* 1.3398	* 1.4737	* 1.4716	* 1.3537	* .6587
	* 1.3040	* 1.3029	* 1.3174	* 1.5052	* 1.4230	* 1.4258	* 1.4750	* 3.0387
11	* 1.3784	* 1.5283	* 1.3377	* 1.3784	* 1.2884	* 1.4437	* 1.3623	* .6865
	* 1.4540	* 1.3510	* 1.5076	* 1.5717	* 1.6054	* 1.4728	* 1.5080	* 3.0201
12	* 1.3602	* 1.2777	* 1.4737	* 1.2884	* 1.3934	* 1.3452	* .9725	*
	* 1.4858	* 1.5636	* 1.4230	* 1.6054	* 1.4814	* 1.4857	* 2.1544	*
13	* 1.1513	* 1.4052	* 1.4716	* 1.4437	* 1.3452	* 1.3462	* .7722	*
	* 1.6713	* 1.4523	* 1.4251	* 1.4733	* 1.4857	* 1.4717	* 2.6620	*
14	* 1.2499	* 1.3002	* 1.3537	* 1.3623	* .9725	* .7722	*	*
	* 1.5759	* 1.4989	* 1.4742	* 1.5080	* 2.1544	* 2.6620	*	*
15	* .6822	* .8568	* .6587	* .6865	F-SUB-Q			
	* 2.8460	* 2.2843	* 3.0418	* 3.0201	M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 4 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - POWER ESCALATION

AT 75% POWER, 4 EFPD, THIS IS LEVEL 20 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	1.2424	1.6836	1.7243	1.4662	1.4480	1.2413	1.3441	.7229
	1.8137	1.3488	1.2789	1.4058	1.4386	1.5891	1.5100	2.7742
9	1.6836	1.5380	1.7007	1.6119	1.3773	1.4994	1.4137	.9157
	1.3488	1.3730	1.2767	1.3184	1.4958	1.4034	1.4204	2.2140
10	1.7243	1.6997	1.6718	1.4276	1.5797	1.5754	1.4758	.7069
	1.2789	1.2767	1.2888	1.4527	1.3705	1.3769	1.3949	2.9324
11	1.4662	1.6119	1.4255	1.4726	1.3966	1.5551	1.4876	.7347
	1.4058	1.3184	1.4549	1.5223	1.5321	1.4163	1.4272	2.9238
12	1.4480	1.3773	1.5797	1.3955	1.5144	1.4791	1.0464	
	1.4386	1.4950	1.3705	1.5323	1.4176	1.4015	2.0787	
13	1.2413	1.5005	1.5754	1.5540	1.4791	1.4876	.8343	
	1.5891	1.4028	1.3769	1.4165	1.4015	1.3822	2.5656	
14	1.3441	1.4148	1.4758	1.4876	1.0464	.8343		
	1.5100	1.4197	1.3943	1.4272	2.0798	2.5650		
15	.7229	.9168	.7058	.7347	F-SUB-Q			
	2.7742	2.2107	2.9324	2.9238	M-SUB-Q			

AT 75% POWER, 4 EFPD, THIS IS LEVEL 19 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	1.2606	1.7115	1.7554	1.5037	1.4908	1.2916	1.3977	.7454
	1.8549	1.3722	1.3023	1.4186	1.4502	1.5808	1.5077	2.7950
9	1.7115	1.5733	1.7307	1.6483	1.4309	1.5519	1.4780	.9478
	1.3722	1.3873	1.2984	1.3371	1.4934	1.4067	1.4096	2.2269
10	1.7554	1.7307	1.7061	1.4683	1.6397	1.6343	1.5455	.7347
	1.3023	1.2984	1.3103	1.4639	1.3738	1.3827	1.3827	2.9315
11	1.5037	1.6483	1.4651	1.5219	1.4566	1.6183	1.5594	.7626
	1.4186	1.3371	1.4661	1.5269	1.5197	1.4119	1.4086	2.9372
12	1.4908	1.4309	1.6386	1.4566	1.5851	1.5583	1.0892	
	1.4502	1.4934	1.3732	1.5205	1.4154	1.3880	2.0828	
13	1.2916	1.5519	1.6343	1.6183	1.5583	1.5722	.8707	
	1.5808	1.4060	1.3821	1.4126	1.3885	1.3656	2.5729	
14	1.3977	1.4780	1.5455	1.5594	1.0892	.8707		
	1.5077	1.4096	1.3827	1.4086	2.0828	2.5729		
15	.7454	.9489	.7347	.7615	F-SUB-Q			
	2.7950	2.2236	2.9315	2.9372	M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 4 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - POWER ESCALATION

AT 75% POWER, 4 EFPD, THIS IS LEVEL 18 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	1.2681	1.7361	1.7821	1.5326	1.5272	1.3334	1.4437	.7668
	1.9111	1.3922	1.3405	1.4530	1.4811	1.5987	1.5267	2.8450
9	1.7361	1.6001	1.7597	1.6804	1.4748	1.5979	1.5305	.9768
	1.3922	1.4231	1.3351	1.3721	1.5144	1.4286	1.4231	2.2615
10	1.7821	1.7586	1.7372	1.4994	1.6943	1.6879	1.6044	.7583
	1.3405	1.3351	1.3470	1.4965	1.3936	1.4046	1.3938	2.9768
11	1.5326	1.6804	1.4973	1.5637	1.5069	1.6761	1.6226	.7861
	1.4530	1.3721	1.4996	1.5339	1.5211	1.4178	1.4019	2.9826
12	1.5272	1.4748	1.6943	1.5069	1.6472	1.6247	1.1278	
	1.4811	1.5144	1.3936	1.5219	1.4242	1.3891	2.0994	
13	1.3334	1.5979	1.6879	1.6761	1.6247	1.6440	.9039	
	1.5987	1.4279	1.4046	1.4178	1.3897	1.3646	2.5911	
14	1.4437	1.5315	1.6044	1.6215	1.1278	.9039		
	1.5267	1.4224	1.3938	1.4025	2.0994	2.5911		
15	.7668	.9768	.7572	.7861	F-SUB-Q			
	2.8450	2.2598	2.9768	2.9826	M-SUB-Q			

AT 75% POWER, 4 EFPD, THIS IS LEVEL 17 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	1.2499	1.7232	1.7714	1.5347	1.5326	1.3516	1.4587	.7690
	2.0118	1.4574	1.4051	1.5333	1.5515	1.6591	1.5830	2.9697
9	1.7232	1.5979	1.7489	1.6761	1.4919	1.6076	1.5551	.9832
	1.4574	1.4969	1.4137	1.4488	1.5804	1.4885	1.4754	2.3555
10	1.7714	1.7489	1.7297	1.5048	1.7136	1.7040	1.6333	.7647
	1.4051	1.4144	1.4263	1.5778	1.4380	1.4483	1.4419	3.0967
11	1.5347	1.6761	1.5015	1.5722	1.5294	1.6975	1.6536	.7925
	1.5333	1.4488	1.5804	1.5844	1.5600	1.4525	1.4325	3.0707
12	1.5326	1.4919	1.7125	1.5283	1.6740	1.6611	1.1417	
	1.5515	1.5795	1.4380	1.5608	1.4708	1.4290	2.1546	
13	1.3516	1.6086	1.7040	1.6965	1.6600	1.6858	.9157	
	1.6591	1.4885	1.4483	1.4532	1.4290	1.4023	2.6795	
14	1.4587	1.5551	1.6333	1.6536	1.1417	.9157		
	1.5830	1.4746	1.4419	1.4325	2.1546	2.6795		
15	.7690	.9832	.7647	.7925	F-SUB-Q			
	2.9697	2.3537	3.0967	3.0707	M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 4 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - POWER ESCALATION

AT 75% POWER, 4 EFPD, THIS IS LEVEL 16 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.2402	* 1.7147	* 1.7639	* 1.5337	* 1.5369	* 1.3645	* 1.4737	* .7743
	* 2.1294	* 1.5198	* 1.4683	* 1.6268	* 1.6340	* 1.7503	* 1.6552	* 3.1166
9	* 1.7147	* 1.5958	* 1.7425	* 1.6750	* 1.5048	* 1.6183	* 1.5733	* .9896
	* 1.5198	* 1.5763	* 1.4848	* 1.5280	* 1.6515	* 1.5611	* 1.5554	* 2.4721
10	* 1.7639	* 1.7414	* 1.7254	* 1.5058	* 1.7318	* 1.7200	* 1.6547	* .7733
	* 1.4683	* 1.4848	* 1.4947	* 1.6627	* 1.4848	* 1.4962	* 1.4968	* 3.2406
11	* 1.5337	* 1.6750	* 1.5037	* 1.5808	* 1.5465	* 1.7168	* 1.6772	* .8000
	* 1.6268	* 1.5279	* 1.6655	* 1.6436	* 1.6323	* 1.5076	* 1.4918	* 3.1694
12	* 1.5369	* 1.5048	* 1.7307	* 1.5455	* 1.6986	* 1.6879	* 1.1545	*
	* 1.6340	* 1.6515	* 1.4851	* 1.6332	* 1.5204	* 1.4855	* 2.2324	*
13	* 1.3645	* 1.6194	* 1.7190	* 1.7157	* 1.6879	* 1.7168	* .9275	*
	* 1.7503	* 1.5603	* 1.4964	* 1.5084	* 1.4855	* 1.4542	* 2.7683	*
14	* 1.4737	* 1.5733	* 1.6547	* 1.6772	* 1.1545	* .9275	*	*
	* 1.6552	* 1.5546	* 1.4968	* 1.4926	* 2.2324	* 2.7683	*	*
15	* .7743	* .9907	* .7733	* .8000	* F-SUB-Q			
	* 3.1166	* 2.4701	* 3.2421	* 3.1726	* M-SUB-Q			

AT 75% POWER, 4 EFPD, THIS IS LEVEL 15 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.2038	* 1.6718	* 1.7211	* 1.5005	* 1.5090	* 1.3462	* 1.4555	* .7647
	* 2.2866	* 1.6349	* 1.5832	* 1.7677	* 1.7722	* 1.9037	* 1.7845	* 3.3589
9	* 1.6718	* 1.5583	* 1.7018	* 1.6397	* 1.4833	* 1.5969	* 1.5530	* .9757
	* 1.6349	* 1.7131	* 1.6001	* 1.6466	* 1.7791	* 1.6680	* 1.6793	* 2.6690
10	* 1.7211	* 1.7007	* 1.6868	* 1.4758	* 1.7115	* 1.6997	* 1.6354	* .7615
	* 1.5832	* 1.6009	* 1.6091	* 1.8022	* 1.5819	* 1.5892	* 1.6063	* 3.4729
11	* 1.5005	* 1.6397	* 1.4726	* 1.5551	* 1.5283	* 1.6986	* 1.6590	* .7904
	* 1.7677	* 1.6466	* 1.8055	* 1.7516	* 1.7418	* 1.5963	* 1.5923	* 3.3753
12	* 1.5090	* 1.4833	* 1.7093	* 1.5272	* 1.6836	* 1.6729	* 1.1438	*
	* 1.7722	* 1.7791	* 1.5827	* 1.7428	* 1.6244	* 1.5999	* 2.3789	*
13	* 1.3462	* 1.5969	* 1.6986	* 1.6975	* 1.6729	* 1.7029	* .9200	*
	* 1.9037	* 1.6679	* 1.5892	* 1.5971	* 1.6007	* 1.5658	* 2.9555	*
14	* 1.4555	* 1.5530	* 1.6354	* 1.6590	* 1.1438	* .9200	*	*
	* 1.7845	* 1.6792	* 1.6063	* 1.5928	* 2.3789	* 2.9555	*	*
15	* .7647	* .9768	* .7604	* .7893	* F-SUB-Q			
	* 3.3589	* 2.6667	* 3.4729	* 3.3767	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 4 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - POWER ESCALATION

AT 75% POWER, 4 EFPD, THIS IS LEVEL 14 OF 24
 (LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	1.1952	1.6622	1.7125	1.5015	1.5133	1.3591	1.4683	.7658
	2.4425	1.7481	1.6886	1.8932	1.8823	2.0340	1.8935	3.5875
9	1.6622	1.5583	1.6933	1.6365	1.4951	1.6044	1.5722	.9800
	1.7481	1.8324	1.7071	1.7551	1.8885	1.7643	1.7776	2.8415
10	1.7125	1.6922	1.6804	1.4780	1.7254	1.7093	1.6568	.7679
	1.6886	1.7079	1.7164	1.9252	1.6652	1.6770	1.6974	3.6537
11	1.5015	1.6365	1.4758	1.5626	1.5444	1.7136	1.6836	.7947
	1.8932	1.7551	1.9288	1.8492	1.8411	1.6760	1.6759	3.5652
12	1.5133	1.4951	1.7243	1.5433	1.7029	1.6997	1.1524	
	1.8823	1.8875	1.6661	1.8422	1.6955	1.6765	2.4943	
13	1.3591	1.6054	1.7093	1.7125	1.6997	1.7339	.9264	
	2.0340	1.7643	1.6779	1.6770	1.6774	1.6404	3.1012	
14	1.4683	1.5722	1.6568	1.6836	1.1524	.9264		
	1.8935	1.7776	1.6974	1.6768	2.4943	3.1012		
15	.7658	.9810	.7679	.7936	F-SUB-Q			
	3.5875	2.8389	3.6580	3.5652	M-SUB-Q			

AT 75% POWER, 4 EFPD, THIS IS LEVEL 13 OF 24
 (LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	1.1695	1.6333	1.6847	1.4823	1.4973	1.3516	1.4608	.7593
	2.6693	1.9019	1.8394	2.0723	2.0411	2.2114	2.0413	3.8796
9	1.6333	1.5369	1.6654	1.6140	1.4865	1.5936	1.5669	.9725
	1.9019	2.0056	1.8591	1.9090	2.0494	1.9049	1.9255	3.0693
10	1.6847	1.6654	1.6558	1.4619	1.7168	1.6997	1.6547	.7636
	1.8394	1.8591	1.8679	2.1030	1.7921	1.8068	1.8327	3.9379
11	1.4823	1.6140	1.4587	1.5530	1.5390	1.7061	1.6825	.7893
	2.0723	1.9090	2.1073	1.9917	1.9934	1.8022	1.8104	3.8315
12	1.4973	1.4865	1.7157	1.5380	1.7007	1.7007	1.1481	
	2.0411	2.0494	1.7932	1.9959	1.8140	1.8031	2.6757	
13	1.3516	1.5936	1.6986	1.7061	1.6997	1.7382	.9232	
	2.2114	1.9049	1.8077	1.8028	1.8037	1.7596	3.3173	
14	1.4608	1.5669	1.6536	1.6815	1.1481	.9232		
	2.0413	1.9255	1.8336	1.8115	2.6766	3.3173		
15	.7593	.9735	.7626	.7893	F-SUB-Q			
	3.8796	3.0662	3.9386	3.8322	M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 4 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - POWER ESCALATION

AT 75% POWER, 4 EFPD, THIS IS LEVEL 12 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	1.1406	1.5936	1.6451	1.4501	1.4683	1.3313	1.4394	.7476
	2.7788	1.9955	1.9350	2.1927	2.1639	2.3831	2.2035	4.2226
9	1.5936	1.5026	1.6279	1.5797	1.4630	1.5690	1.5433	.9564
	1.9955	2.1170	1.9556	2.0135	2.1759	2.0265	2.0612	3.3041
10	1.6451	1.6268	1.6194	1.4319	1.6922	1.6750	1.6311	.7508
	1.9350	1.9556	1.9667	2.2223	1.8883	1.9067	1.9544	4.2112
11	1.4501	1.5797	1.4287	1.5294	1.5176	1.6847	1.6600	.7765
	2.1927	2.0135	2.2270	2.0915	2.1070	1.8998	1.9255	4.0795
12	1.4683	1.4630	1.6911	1.5165	1.6804	1.6804	1.1331	
	2.1639	2.1759	1.8895	2.1085	1.9079	1.9079	2.8214	
13	1.3313	1.5690	1.6740	1.6836	1.6804	1.7179	.9114	
	2.3831	2.0265	1.9079	1.9009	1.9091	1.8669	3.5039	
14	1.4394	1.5433	1.6301	1.6600	1.1320	.9114		
	2.2035	2.0612	1.9556	1.9255	2.8214	3.5039		
15	.7476	.9564	.7508	.7765	F-SUB-Q			
	4.2226	3.3041	4.2112	4.0848	M-SUB-Q			

AT 75% POWER, 4 EFPD, THIS IS LEVEL 11 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	1.1320	1.5915	1.6451	1.4523	1.4737	1.3409	1.4512	.7508
	2.7279	1.9483	1.8849	2.1300	2.0958	2.2973	2.1228	4.0689
9	1.5915	1.5037	1.6268	1.5819	1.4737	1.5808	1.5583	.9618
	1.9483	2.0599	1.9056	1.9568	2.1085	1.9605	1.9879	3.1928
10	1.6451	1.6268	1.6204	1.4351	1.7072	1.6900	1.6493	.7551
	1.8849	1.9056	1.9137	2.1609	1.8298	1.8493	1.8895	4.0742
11	1.4523	1.5819	1.4319	1.5390	1.5337	1.7007	1.6804	.7818
	2.1300	1.9568	2.1654	2.0305	2.0397	1.8384	1.8581	3.9607
12	1.4737	1.4737	1.7061	1.5326	1.6986	1.7018	1.1428	
	2.0958	2.1085	1.8319	2.0411	1.8438	1.8406	2.7303	
13	1.3409	1.5808	1.6890	1.6997	1.7007	1.7425	.9200	
	2.2973	1.9605	1.8504	1.8406	1.8416	1.7972	3.3900	
14	1.4512	1.5583	1.6483	1.6804	1.1417	.9200		
	2.1228	1.9892	1.8895	1.8592	2.7327	3.3900		
15	.7508	.9618	.7540	.7808	F-SUB-Q			
	4.0689	3.1928	4.0795	3.9607	M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 4 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - POWER ESCALATION

AT 75% POWER, 4 EFPD, THIS IS LEVEL 10 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	1.1106	1.5722	1.6258	1.4416	1.4619	1.3377	1.4469	.7443
	2.6881	1.9091	1.8460	2.0694	2.0200	2.1881	2.0200	3.8581
9	1.5722	1.4919	1.6086	1.5669	1.4683	1.5733	1.5572	.9553
	1.9091	2.0083	1.8636	1.9067	2.0424	1.8986	1.9161	3.0378
10	1.6258	1.6076	1.6033	1.4255	1.7029	1.6825	1.6493	.7497
	1.8460	1.8647	1.8714	2.1000	1.7758	1.7972	1.8277	3.9161
11	1.4416	1.5669	1.4223	1.5305	1.5337	1.6954	1.6825	.7765
	2.0694	1.9067	2.1042	1.9791	1.9791	1.7870	1.7993	3.8205
12	1.4619	1.4683	1.7007	1.5326	1.6965	1.7050	1.1385	
	2.0200	2.0424	1.7778	1.9816	1.7952	1.7880	2.6607	
13	1.3377	1.5733	1.6815	1.6943	1.7040	1.7489	.9157	
	2.1881	1.8986	1.7983	1.7890	1.7880	1.7441	3.3076	
14	1.4469	1.5572	1.6493	1.6815	1.1374	.9157		
	2.0200	1.9173	1.8277	1.7993	2.6607	3.3076		
15	.7443	.9553	.7486	.7765	F-SUB-Q			
	3.8581	3.0378	3.9161	3.8205	M-SUB-Q			

AT 75% POWER, 4 EFPD, THIS IS LEVEL 9 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	1.0946	1.5519	1.6054	1.4266	1.4480	1.3280	1.4373	.7368
	2.5647	1.8066	1.7364	1.9374	1.8952	2.0518	1.8940	3.6299
9	1.5519	1.4758	1.5894	1.5497	1.4587	1.5615	1.5476	.9457
	1.8066	1.8849	1.7480	1.7859	1.9114	1.7748	1.7900	2.8523
10	1.6054	1.5894	1.5851	1.4116	1.6922	1.6718	1.6408	.7433
	1.7364	1.7490	1.7559	1.9679	1.6777	1.7024	1.7145	3.6596
11	1.4266	1.5497	1.4084	1.5187	1.5262	1.6858	1.6740	.7690
	1.9374	1.7859	1.9716	1.8804	1.8781	1.6996	1.7042	3.5924
12	1.4480	1.4587	1.6900	1.5262	1.6879	1.6975	1.1299	
	1.8952	1.9114	1.6786	1.8793	1.7412	1.7220	2.5336	
13	1.3280	1.5604	1.6708	1.6847	1.6975	1.7425	.9082	
	2.0518	1.7748	1.7033	1.7014	1.7230	1.6804	3.1638	
14	1.4373	1.5476	1.6397	1.6729	1.1288	.9082		
	1.8940	1.7900	1.7154	1.7052	2.5356	3.1638		
15	.7368	.9468	.7433	.7690	F-SUB-Q			
	3.6299	2.8523	3.6596	3.5965	M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 4 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - POWER ESCALATION

AT 75% POWER, 4 EFPD, THIS IS LEVEL 8 OF 24
 (LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.0764	* 1.5305	* 1.5840	* 1.4062	* 1.4309	* 1.3120	* 1.4212	* .7283
	* 2.3958	* 1.6904	* 1.6305	* 1.8298	* 1.7900	* 1.9435	* 1.7921	* 3.4422
9	* 1.5305	* 1.4533	* 1.5690	* 1.5305	* 1.4416	* 1.5455	* 1.5283	* .9339
	* 1.6904	* 1.7748	* 1.6451	* 1.6831	* 1.7983	* 1.6697	* 1.6886	* 2.7020
10	* 1.5840	* 1.5690	* 1.5647	* 1.3923	* 1.6750	* 1.6558	* 1.6204	* .7326
	* 1.6305	* 1.6460	* 1.6512	* 1.8547	* 1.5700	* 1.5883	* 1.6095	* 3.4612
11	* 1.4062	* 1.5305	* 1.3891	* 1.5037	* 1.5101	* 1.6697	* 1.6547	* .7593
	* 1.8298	* 1.6831	* 1.8592	* 1.7588	* 1.7578	* 1.5891	* 1.5964	* 3.3754
12	* 1.4309	* 1.4416	* 1.6729	* 1.5090	* 1.6718	* 1.6783	* 1.1171	*
	* 1.7900	* 1.7983	* 1.5716	* 1.7598	* 1.6263	* 1.6179	* 2.3794	*
13	* 1.3120	* 1.5455	* 1.6547	* 1.6686	* 1.6783	* 1.7222	* .8986	*
	* 1.9435	* 1.6697	* 1.5891	* 1.5899	* 1.6179	* 1.5803	* 2.9743	*
14	* 1.4212	* 1.5283	* 1.6194	* 1.6536	* 1.1160	* .8986	*	*
	* 1.7921	* 1.6886	* 1.6095	* 1.5972	* 2.3794	* 2.9743	*	*
15	* .7283	* .9339	* .7315	* .7583	* F-SUB-Q			
	* 3.4422	* 2.6997	* 3.4651	* 3.3790	* M-SUB-Q			

AT 75% POWER, 4 EFPD, THIS IS LEVEL 7 OF 24
 (LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.0785	* 1.5380	* 1.5936	* 1.4201	* 1.4437	* 1.3259	* 1.4351	* .7304
	* 2.2207	* 1.5708	* 1.5167	* 1.6987	* 1.6679	* 1.8097	* 1.6697	* 3.2324
9	* 1.5380	* 1.4683	* 1.5797	* 1.5422	* 1.4576	* 1.5572	* 1.5476	* .9382
	* 1.5708	* 1.6460	* 1.5316	* 1.5660	* 1.6661	* 1.5551	* 1.5660	* 2.5315
10	* 1.5936	* 1.5787	* 1.5754	* 1.4073	* 1.6943	* 1.6697	* 1.6408	* .7379
	* 1.5167	* 1.5323	* 1.5361	* 1.7202	* 1.4473	* 1.4683	* 1.4864	* 3.2291
11	* 1.4201	* 1.5422	* 1.4041	* 1.5165	* 1.5272	* 1.6858	* 1.6761	* .7626
	* 1.6987	* 1.5668	* 1.7239	* 1.6221	* 1.6170	* 1.4628	* 1.4676	* 3.1478
12	* 1.4437	* 1.4576	* 1.6922	* 1.5262	* 1.6890	* 1.7007	* 1.1224	*
	* 1.6679	* 1.6661	* 1.4493	* 1.6187	* 1.4794	* 1.4711	* 2.1911	*
13	* 1.3259	* 1.5572	* 1.6686	* 1.6847	* 1.6997	* 1.7457	* .9018	*
	* 1.8097	* 1.5551	* 1.4697	* 1.4635	* 1.4711	* 1.4360	* 2.7351	*
14	* 1.4351	* 1.5465	* 1.6408	* 1.6750	* 1.1224	* .9018	*	*
	* 1.6697	* 1.5660	* 1.4864	* 1.4683	* 2.1927	* 2.7351	*	*
15	* .7304	* .9382	* .7368	* .7615	* F-SUB-Q			
	* 3.2324	* 2.5295	* 3.2324	* 3.1510	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

CNEI-0400-25
Appendix A, Rev. 17
Page 263 of 331

TABLE 4 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - POWER ESCALATION

AT 75% POWER, 4 EFPD, THIS IS LEVEL 6 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.0721	* 1.5326	* 1.5915	* 1.4191	* 1.4437	* 1.3216	* 1.4319	* .7261
	* 2.1070	* 1.4879	* 1.4353	* 1.6087	* 1.5795	* 1.7220	* 1.5867	* 3.0888
9	* 1.5326	* 1.4662	* 1.5787	* 1.5422	* 1.4566	* 1.5530	* 1.5412	* .9318
	* 1.4879	* 1.5590	* 1.4486	* 1.4815	* 1.5763	* 1.4745	* 1.4879	* 2.4181
10	* 1.5915	* 1.5776	* 1.5744	* 1.4073	* 1.6943	* 1.6665	* 1.6343	* .7315
	* 1.4353	* 1.4493	* 1.4526	* 1.6271	* 1.3640	* 1.3863	* 1.4094	* 3.0827
11	* 1.4191	* 1.5422	* 1.4030	* 1.5155	* 1.5230	* 1.6825	* 1.6686	* .7551
	* 1.6087	* 1.4815	* 1.6305	* 1.5271	* 1.5256	* 1.3784	* 1.3876	* 3.0028
12	* 1.4437	* 1.4566	* 1.6922	* 1.5219	* 1.6847	* 1.6943	* 1.1149	*
	* 1.5795	* 1.5763	* 1.3658	* 1.5271	* 1.3869	* 1.3814	* 2.0722	*
13	* 1.3216	* 1.5530	* 1.6654	* 1.6815	* 1.6933	* 1.7372	* .8943	*
	* 1.7220	* 1.4745	* 1.3876	* 1.3796	* 1.3820	* 1.3487	* 2.5816	*
14	* 1.4319	* 1.5412	* 1.6333	* 1.6675	* 1.1149	* .8943	*	*
	* 1.5867	* 1.4879	* 1.4101	* 1.3882	* 2.0735	* 2.5816	*	*
15	* .7261	* .9318	* .7315	* .7551	F-SUB-Q			
	* 3.0888	* 2.4162	* 3.0858	* 3.0028	M-SUB-Q			

AT 75% POWER, 4 EFPD, THIS IS LEVEL 5 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.0507	* 1.5069	* 1.5690	* 1.3966	* 1.4287	* 1.2938	* 1.4062	* .7122
	* 2.0504	* 1.4439	* 1.3894	* 1.5614	* 1.5241	* 1.6804	* 1.5444	* 3.0144
9	* 1.5069	* 1.4394	* 1.5583	* 1.5251	* 1.4319	* 1.5262	* 1.5005	* .9093
	* 1.4439	* 1.5152	* 1.3994	* 1.4294	* 1.5293	* 1.4314	* 1.4574	* 2.3686
10	* 1.5690	* 1.5583	* 1.5551	* 1.3859	* 1.6686	* 1.6397	* 1.5894	* .7111
	* 1.3894	* 1.4000	* 1.4025	* 1.5755	* 1.3175	* 1.3406	* 1.3808	* 3.0319
11	* 1.3966	* 1.5251	* 1.3827	* 1.4983	* 1.4898	* 1.6526	* 1.6215	* .7347
	* 1.5614	* 1.4301	* 1.5795	* 1.4690	* 1.4794	* 1.3343	* 1.3581	* 2.9435
12	* 1.4287	* 1.4309	* 1.6665	* 1.4887	* 1.6536	* 1.6504	* 1.0892	*
	* 1.5241	* 1.5301	* 1.3191	* 1.4808	* 1.3400	* 1.3446	* 2.0174	*
13	* 1.2938	* 1.5262	* 1.6386	* 1.6515	* 1.6493	* 1.6836	* .8707	*
	* 1.6804	* 1.4314	* 1.3417	* 1.3354	* 1.3446	* 1.3175	* 2.5152	*
14	* 1.4062	* 1.5005	* 1.5883	* 1.6204	* 1.0881	* .8707	*	*
	* 1.5444	* 1.4574	* 1.3814	* 1.3586	* 2.0174	* 2.5173	*	*
15	* .7122	* .9093	* .7101	* .7347	F-SUB-Q			
	* 3.0144	* 2.3686	* 3.0349	* 2.9463	M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 4 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - POWER ESCALATION

AT 75% POWER, 4 EFPD, THIS IS LEVEL 4 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.0464	* 1.5015	* 1.5690	* 1.4009	* 1.4555	* 1.2927	* 1.4094	* .7090
	* 1.9841	* 1.3950	* 1.3377	* 1.4993	* 1.4406	* 1.6204	* 1.4829	* 2.9188
9	* 1.5015	* 1.4362	* 1.5658	* 1.5401	* 1.4362	* 1.5294	* 1.4844	* .8996
	* 1.3950	* 1.4621	* 1.3406	* 1.3628	* 1.4669	* 1.3748	* 1.4171	* 2.3092
10	* 1.5690	* 1.5647	* 1.5626	* 1.3944	* 1.6793	* 1.6376	* 1.5658	* .7026
	* 1.3377	* 1.3412	* 1.3446	* 1.5072	* 1.2576	* 1.2892	* 1.3475	* 2.9574
11	* 1.4009	* 1.5401	* 1.3912	* 1.5219	* 1.4876	* 1.6493	* 1.5958	* .7229
	* 1.4993	* 1.3628	* 1.5108	* 1.3863	* 1.4223	* 1.2834	* 1.3253	* 2.8812
12	* 1.4555	* 1.4351	* 1.6772	* 1.4865	* 1.6547	* 1.6365	* 1.0764	*
	* 1.4406	* 1.4669	* 1.2591	* 1.4235	* 1.2834	* 1.2999	* 1.9605	*
13	* 1.2927	* 1.5294	* 1.6365	* 1.6483	* 1.6354	* 1.6579	* .8568	*
	* 1.6204	* 1.3748	* 1.2903	* 1.2845	* 1.2999	* 1.2818	* 2.4541	*
14	* 1.4094	* 1.4844	* 1.5647	* 1.5947	* 1.0753	* .8568	*	*
	* 1.4829	* 1.4177	* 1.3481	* 1.3258	* 1.9617	* 2.4560	*	*
15	* .7090	* .8996	* .7015	* .7229	F-SUB-Q			
	* 2.9188	* 2.3092	* 2.9602	* 2.8838	M-SUB-Q			

AT 75% POWER, 4 EFPD, THIS IS LEVEL 3 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.0014	* 1.4266	* 1.4887	* 1.3591	* 1.4641	* 1.2820	* 1.3773	* .6833
	* 2.0148	* 1.4248	* 1.3681	* 1.4993	* 1.3882	* 1.5851	* 1.4725	* 2.9491
9	* 1.4266	* 1.3762	* 1.5037	* 1.4983	* 1.3998	* 1.4758	* 1.4105	* .8568
	* 1.4248	* 1.4808	* 1.3551	* 1.3592	* 1.4580	* 1.3814	* 1.4439	* 2.3579
10	* 1.4887	* 1.5015	* 1.4951	* 1.3848	* 1.6279	* 1.5572	* 1.4683	* .6737
	* 1.3681	* 1.3569	* 1.3628	* 1.4759	* 1.2561	* 1.3141	* 1.3925	* 2.9971
11	* 1.3591	* 1.4973	* 1.3784	* 1.5315	* 1.4448	* 1.5754	* 1.4844	* .6844
	* 1.4993	* 1.3592	* 1.4822	* 1.3337	* 1.4203	* 1.3005	* 1.3802	* 2.9546
12	* 1.4641	* 1.3998	* 1.6258	* 1.4437	* 1.6311	* 1.5669	* 1.0239	*
	* 1.3882	* 1.4580	* 1.2576	* 1.4223	* 1.2566	* 1.3119	* 1.9955	*
13	* 1.2820	* 1.4758	* 1.5562	* 1.5744	* 1.5669	* 1.5540	* .8086	*
	* 1.5851	* 1.3814	* 1.3147	* 1.3016	* 1.3125	* 1.3225	* 2.5213	*
14	* 1.3773	* 1.4105	* 1.4673	* 1.4833	* 1.0239	* .8086	*	*
	* 1.4725	* 1.4439	* 1.3931	* 1.3808	* 1.9968	* 2.5213	*	*
15	* .6833	* .8568	* .6726	* .6833	F-SUB-Q			
	* 2.9491	* 2.3561	* 3.0000	* 2.9574	M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 4 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - POWER ESCALATION

AT 75% POWER, 4 EFPD, THIS IS LEVEL 2 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .8579	* 1.1952	* 1.2563	* 1.4244	* 1.3409	* 1.3698	* 1.2316	* .5965
	* 2.3007	* 1.6608	* 1.5803	* 1.3919	* 1.4780	* 1.4459	* 1.6062	* 3.2971
9	* 1.1952	* 1.3677	* 1.2574	* 1.3184	* 1.4491	* 1.2616	* 1.3130	* .7390
	* 1.6608	* 1.4513	* 1.5803	* 1.5058	* 1.3693	* 1.5747	* 1.5116	* 2.6675
10	* 1.2563	* 1.2574	* 1.3034	* 1.4833	* 1.4084	* 1.2852	* 1.3184	* .5912
	* 1.5803	* 1.5811	* 1.5233	* 1.3406	* 1.4145	* 1.5521	* 1.5087	* 3.3393
11	* 1.4244	* 1.3173	* 1.4780	* 1.4019	* 1.5197	* 1.3495	* 1.2531	* .5923
	* 1.3919	* 1.5065	* 1.3452	* 1.4190	* 1.3119	* 1.4808	* 1.5907	* 3.3322
12	* 1.3409	* 1.4491	* 1.4073	* 1.5187	* 1.4705	* 1.4651	* .8954	*
	* 1.4780	* 1.3693	* 1.4165	* 1.3136	* 1.3581	* 1.3652	* 2.2254	*
13	* 1.3698	* 1.2616	* 1.2841	* 1.3484	* 1.4641	* 1.3034	* .6887	*
	* 1.4459	* 1.5739	* 1.5536	* 1.4815	* 1.3658	* 1.5361	* 2.8865	*
14	* 1.2316	* 1.3130	* 1.3184	* 1.2520	* .8954	* .6887	*	*
	* 1.6062	* 1.5116	* 1.5087	* 1.5915	* 2.2270	* 2.8865	*	*
15	* .5965	* .7401	* .5901	* .5923	* F-SUB-Q			
	* 3.2971	* 2.6652	* 3.3393	* 3.3358	* M-SUB-Q			

AT 75% POWER, 4 EFPD, THIS IS LEVEL 1 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .5890	* .4969	* .5387	* .6180	* .5762	* .5944	* .5173	* .4059
	* 3.2764	* 3.8821	* 3.5841	* 3.1134	* 3.3429	* 3.2324	* 3.7161	* 4.7408
9	* .4969	* .5730	* .5152	* .5805	* .6287	* .5612	* .5194	* .3320
	* 3.8821	* 3.3645	* 3.7473	* 3.3251	* 3.0676	* 3.4346	* 3.7073	* 5.7730
10	* .5387	* .5152	* .5912	* .6458	* .6062	* .5301	* .5152	* .4177
	* 3.5841	* 3.7473	* 3.2661	* 2.9856	* 3.1896	* 3.6553	* 3.7428	* 4.6014
11	* .6180	* .5794	* .6437	* .6126	* .6565	* .5687	* .4798	* .2827
	* 3.1134	* 3.3287	* 2.9942	* 3.1638	* 2.9463	* 3.4122	* 4.0218	* 6.8169
12	* .5762	* .6287	* .6040	* .6555	* .6212	* .5805	* .4241	*
	* 3.3429	* 3.0676	* 3.2026	* 2.9491	* 3.1196	* 3.3429	* 4.5612	*
13	* .5944	* .5612	* .5301	* .5687	* .5794	* .5162	* .3159	*
	* 3.2324	* 3.4271	* 3.6596	* 3.4122	* 3.3429	* 3.7608	* 6.1352	*
14	* .5173	* .5194	* .5152	* .4798	* .4241	* .3149	*	*
	* 3.7161	* 3.7073	* 3.7428	* 4.0270	* 4.5612	* 6.1352	*	*
15	* .4059	* .3331	* .4177	* .2827	* F-SUB-Q			
	* 4.7408	* 5.7624	* 4.6082	* 6.8169	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 4 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - POWER ESCALATION

AT 50% POWER, 4 EFPD; THIS IS LEVEL 24 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .5816 *	* .5002 *	* .5066 *	* .4991 *	* .4455 *	* .4230 *	* .3845 *	* .3502 *
	* 3.9135 *	* 4.9156 *	* 4.9491 *	* 4.9222 *	* 5.6777 *	* 5.7528 *	* 6.4631 *	* 7.0260 *
9	* .5002 *	* .5301 *	* .5087 *	* .4787 *	* .4573 *	* .4327 *	* .4006 *	* .2774 *
	* 4.9156 *	* 4.5569 *	* 4.9323 *	* 5.2949 *	* 5.3110 *	* 5.7489 *	* 6.0206 *	* 8.9448 *
10	* .5066 *	* .5087 *	* .4927 *	* .4809 *	* .4477 *	* .4305 *	* .4048 *	* .3449 *
	* 4.9491 *	* 4.9323 *	* 5.1267 *	* 5.0514 *	* 5.4778 *	* 5.6925 *	* 5.9155 *	* 7.1553 *
11	* .4991 *	* .4787 *	* .4809 *	* .4487 *	* .4391 *	* .4198 *	* .3813 *	* .2399 *
	* 4.9222 *	* 5.2949 *	* 5.0544 *	* 5.5090 *	* 5.2193 *	* 5.6555 *	* 6.1162 *	* 10.1105 *
12	* .4455 *	* .4573 *	* .4477 *	* .4391 *	* .3888 *	* .3834 *	* .3374 *	
	* 5.6777 *	* 5.3077 *	* 5.4778 *	* 5.2193 *	* 5.4572 *	* 5.4581 *	* 6.8839 *	
13	* .4230 *	* .4338 *	* .4305 *	* .4198 *	* .3834 *	* .3427 *	* .2463 *	
	* 5.7528 *	* 5.7450 *	* 5.6925 *	* 5.6555 *	* 5.4581 *	* 6.0334 *	* 9.1448 *	
14	* .3845 *	* .4006 *	* .4048 *	* .3813 *	* .3374 *	* .2463 *		
	* 6.4631 *	* 6.0206 *	* 5.9155 *	* 6.1162 *	* 6.8839 *	* 9.1448 *		
15	* .3502 *	* .2774 *	* .3449 *	* .2399 *	F-SUB-Q			
	* 7.0260 *	* 8.9448 *	* 7.1553 *	* 10.1105 *	M-SUB-Q			

AT 50% POWER, 4 EFPD; THIS IS LEVEL 23 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .8589 *	* 1.2381 *	* 1.2723 *	* 1.0260 *	* 1.0335 *	* .8343 *	* .9146 *	* .5109 *
	* 2.7064 *	* 2.0876 *	* 2.0524 *	* 2.4865 *	* 2.5410 *	* 3.0376 *	* 2.8421 *	* 5.0234 *
9	* 1.2381 *	* 1.0828 *	* 1.2574 *	* 1.1749 *	* .9243 *	* 1.0453 *	* .9104 *	* .6190 *
	* 2.0876 *	* 2.3319 *	* 2.0816 *	* 2.2371 *	* 2.7115 *	* 2.4785 *	* 2.7500 *	* 4.1622 *
10	* 1.2723 *	* 1.2574 *	* 1.2306 *	* .9939 *	* 1.1021 *	* 1.0913 *	* .9446 *	* .4787 *
	* 2.0524 *	* 2.0821 *	* 2.1322 *	* 2.5552 *	* 2.3205 *	* 2.3261 *	* 2.6156 *	* 5.3272 *
11	* 1.0260 *	* 1.1760 *	* .9928 *	* 1.0421 *	* .9200 *	* 1.0592 *	* .9414 *	* .5012 *
	* 2.4865 *	* 2.2371 *	* 2.5583 *	* 2.4515 *	* 2.6449 *	* 2.3541 *	* 2.5721 *	* 5.0136 *
12	* 1.0335 *	* .9253 *	* 1.1021 *	* .9200 *	* .9104 *	* .8996 *	* .7079 *	
	* 2.5410 *	* 2.7098 *	* 2.3205 *	* 2.6449 *	* 2.3758 *	* 2.5136 *	* 3.4380 *	
13	* .8343 *	* 1.0453 *	* 1.0913 *	* 1.0592 *	* .8996 *	* .8846 *	* .5441 *	
	* 3.0376 *	* 2.4771 *	* 2.3261 *	* 2.3541 *	* 2.5136 *	* 2.5543 *	* 4.3542 *	
14	* .9146 *	* .9104 *	* .9446 *	* .9414 *	* .7079 *	* .5441 *		
	* 2.8421 *	* 2.7482 *	* 2.6148 *	* 2.5721 *	* 3.4380 *	* 4.3542 *		
15	* .5109 *	* .6201 *	* .4787 *	* .5012 *	F-SUB-Q			
	* 5.0234 *	* 4.1583 *	* 5.3272 *	* 5.0136 *	M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 4 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - POWER ESCALATION

AT 50% POWER, 4 EFPD, THIS IS LEVEL 22 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.1556	* 1.5701	* 1.6161	* 1.3184	* 1.2981	* 1.0689	* 1.1695	* .6394
	* 2.2700	* 1.7088	* 1.6697	* 1.9943	* 2.0896	* 2.4461	* 2.2874	* 4.1337
9	* 1.5701	* 1.3923	* 1.5915	* 1.4865	* 1.1984	* 1.3409	* 1.2017	* .7883
	* 1.7088	* 1.8741	* 1.6983	* 1.8242	* 2.1557	* 1.9929	* 2.1443	* 3.3649
10	* 1.6161	* 1.5915	* 1.5604	* 1.2756	* 1.4137	* 1.4126	* 1.2552	* .6051
	* 1.6697	* 1.6989	* 1.7340	* 2.0508	* 1.8670	* 1.8579	* 2.0284	* 4.3467
11	* 1.3184	* 1.4865	* 1.2734	* 1.3163	* 1.2059	* 1.3762	* 1.2606	* .6340
	* 1.9943	* 1.8242	* 2.0537	* 2.0120	* 2.0934	* 1.8813	* 1.9850	* 4.0967
12	* 1.2981	* 1.1995	* 1.4137	* 1.2059	* 1.3055	* 1.2316	* .9093	*
	* 2.0896	* 2.1546	* 1.8670	* 2.0939	* 1.9011	* 1.9546	* 2.7889	*
13	* 1.0689	* 1.3420	* 1.4126	* 1.3752	* 1.2316	* 1.2199	* .7079	*
	* 2.4461	* 1.9920	* 1.8579	* 1.8813	* 1.9546	* 1.9542	* 3.4925	*
14	* 1.1695	* 1.2017	* 1.2552	* 1.2606	* .9093	* .7079	*	*
	* 2.2874	* 2.1432	* 2.0284	* 1.9850	* 2.7889	* 3.4925	*	*
15	* .6394	* .7893	* .6051	* .6340	F-SUB-Q			
	* 4.1337	* 3.3598	* 4.3467	* 4.0967	M-SUB-Q			

AT 50% POWER, 4 EFPD, THIS IS LEVEL 21 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.3002	* 1.7811	* 1.8325	* 1.5208	* 1.4908	* 1.2520	* 1.3623	* .7261
	* 2.1110	* 1.5643	* 1.5264	* 1.7855	* 1.8804	* 2.1494	* 2.0200	* 3.7408
9	* 1.7811	* 1.6044	* 1.8036	* 1.6933	* 1.4041	* 1.5487	* 1.4276	* .9146
	* 1.5643	* 1.6834	* 1.5523	* 1.6579	* 1.9042	* 1.7876	* 1.8654	* 2.9987
10	* 1.8325	* 1.8036	* 1.7693	* 1.4758	* 1.6376	* 1.6365	* 1.4940	* .7015
	* 1.5264	* 1.5523	* 1.5824	* 1.8331	* 1.6688	* 1.6638	* 1.7628	* 3.8911
11	* 1.5208	* 1.6933	* 1.4726	* 1.5187	* 1.4223	* 1.6054	* 1.5058	* .7326
	* 1.7855	* 1.6576	* 1.8367	* 1.8116	* 1.8414	* 1.6760	* 1.7225	* 3.6817
12	* 1.4908	* 1.4052	* 1.6376	* 1.4223	* 1.5487	* 1.4908	* 1.0581	*
	* 1.8804	* 1.9034	* 1.6694	* 1.8421	* 1.6833	* 1.6896	* 2.4961	*
13	* 1.2520	* 1.5497	* 1.6365	* 1.6054	* 1.4908	* 1.4887	* .8300	*
	* 2.1494	* 1.7865	* 1.6644	* 1.6763	* 1.6896	* 1.6738	* 3.1142	*
14	* 1.3623	* 1.4276	* 1.4940	* 1.5058	* 1.0581	* .8300	*	*
	* 2.0200	* 1.8649	* 1.7624	* 1.7225	* 2.4961	* 3.1142	*	*
15	* .7261	* .9146	* .7015	* .7326	F-SUB-Q			
	* 3.7408	* 2.9947	* 3.8911	* 3.6817	M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 4 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - POWER ESCALATION

AT 50% POWER, 4 EFPD, THIS IS LEVEL 20 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.3409	* 1.8518	* 1.9042	* 1.6054	* 1.5754	* 1.3420	* 1.4566	* .7658
	* 2.1427	* 1.5721	* 1.5297	* 1.7532	* 1.8454	* 2.0663	* 1.9586	* 3.6818
9	* 1.8518	* 1.6879	* 1.8764	* 1.7714	* 1.5037	* 1.6418	* 1.5433	* .9746
	* 1.5721	* 1.6666	* 1.5531	* 1.6440	* 1.8470	* 1.7512	* 1.7894	* 2.9278
10	* 1.9042	* 1.8764	* 1.8443	* 1.5604	* 1.7425	* 1.7393	* 1.6183	* .7497
	* 1.5297	* 1.5536	* 1.5784	* 1.7984	* 1.6368	* 1.6359	* 1.6959	* 3.7883
11	* 1.6054	* 1.7714	* 1.5583	* 1.6108	* 1.5315	* 1.7168	* 1.6343	* .7808
	* 1.7532	* 1.6440	* 1.8014	* 1.7846	* 1.7861	* 1.6404	* 1.6578	* 3.6146
12	* 1.5754	* 1.5048	* 1.7414	* 1.5305	* 1.6708	* 1.6301	* 1.1331	*
	* 1.8454	* 1.8464	* 1.6374	* 1.7864	* 1.6374	* 1.6204	* 2.4460	*
13	* 1.3420	* 1.6429	* 1.7393	* 1.7157	* 1.6301	* 1.6365	* .8932	*
	* 2.0663	* 1.7505	* 1.6365	* 1.6407	* 1.6204	* 1.5970	* 3.0431	*
14	* 1.4566	* 1.5433	* 1.6183	* 1.6343	* 1.1331	* .8932	*	*
	* 1.9586	* 1.7888	* 1.6959	* 1.6581	* 2.4466	* 3.0431	*	*
15	* .7658	* .9746	* .7497	* .7808	* F-SUB-Q			
	* 3.6818	* 2.9259	* 3.7890	* 3.6161	* M-SUB-Q			

AT 50% POWER, 4 EFPD, THIS IS LEVEL 19 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.3473	* 1.8625	* 1.9171	* 1.6311	* 1.6086	* 1.3859	* 1.5015	* .7850
	* 2.2359	* 1.6326	* 1.5889	* 1.8027	* 1.8939	* 2.0860	* 1.9862	* 3.7586
9	* 1.8625	* 1.7082	* 1.8892	* 1.7929	* 1.5497	* 1.6825	* 1.5990	* 1.0025
	* 1.6326	* 1.7171	* 1.6125	* 1.7005	* 1.8735	* 1.7897	* 1.8056	* 2.9837
10	* 1.9171	* 1.8892	* 1.8614	* 1.5904	* 1.7929	* 1.7864	* 1.6804	* .7754
	* 1.5889	* 1.6131	* 1.6365	* 1.8434	* 1.6676	* 1.6693	* 1.7067	* 3.8399
11	* 1.6311	* 1.7929	* 1.5872	* 1.6493	* 1.5840	* 1.7704	* 1.6986	* .8054
	* 1.8027	* 1.7005	* 1.8473	* 1.8276	* 1.8115	* 1.6735	* 1.6740	* 3.6756
12	* 1.6086	* 1.5497	* 1.7918	* 1.5829	* 1.7339	* 1.7029	* 1.1706	*
	* 1.8939	* 1.8728	* 1.6687	* 1.8122	* 1.6723	* 1.6406	* 2.5052	*
13	* 1.3859	* 1.6836	* 1.7864	* 1.7704	* 1.7018	* 1.7157	* .9264	*
	* 2.0860	* 1.7884	* 1.6699	* 1.6740	* 1.6409	* 1.6128	* 3.1128	*
14	* 1.5015	* 1.6001	* 1.6804	* 1.6986	* 1.1706	* .9264	*	*
	* 1.9862	* 1.8048	* 1.7067	* 1.6740	* 2.5052	* 3.1128	*	*
15	* .7850	* 1.0025	* .7754	* .8043	* F-SUB-Q			
	* 3.7586	* 2.9818	* 3.8431	* 3.6762	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 4 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - POWER ESCALATION

AT 50% POWER, 4 EFPD, THIS IS LEVEL 18 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	1.3420	1.8678	1.9235	1.6451	1.6322	1.4191	1.5390	.8011
	2.3813	1.7249	1.6765	1.8882	1.9739	2.1336	2.0351	3.8637
9	1.8678	1.7179	1.8967	1.8078	1.5819	1.7157	1.6418	1.0249
	1.7249	1.8049	1.7005	1.7849	1.9390	1.8587	1.8595	3.0664
10	1.9235	1.8967	1.8721	1.6076	1.8325	1.8261	1.7265	.7936
	1.6765	1.7012	1.7220	1.9267	1.7272	1.7299	1.7552	3.9783
11	1.6451	1.8078	1.6054	1.6772	1.6226	1.8143	1.7489	.8236
	1.8882	1.7849	1.9301	1.8961	1.8672	1.7297	1.7189	3.8065
12	1.6322	1.5829	1.8314	1.6226	1.7832	1.7575	1.2017	
	1.9739	1.9389	1.7285	1.8680	1.7288	1.6871	2.5875	
13	1.4191	1.7168	1.8250	1.8132	1.7575	1.7768	.9543	
	2.1336	1.8580	1.7305	1.7304	1.6872	1.6566	3.2187	
14	1.5390	1.6418	1.7265	1.7489	1.2017	.9543		
	2.0351	1.8594	1.7552	1.7196	2.5875	3.2187		
15	.8011	1.0249	.7936	.8236	F-SUB-Q			
	3.8637	3.0622	3.9783	3.8097	M-SUB-Q			

AT 50% POWER, 4 EFPD, THIS IS LEVEL 17 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	1.3077	1.8314	1.8871	1.6290	1.6204	1.4244	1.5401	.7968
	2.6230	1.8756	1.8180	2.0302	2.1040	2.2574	2.1506	4.1094
9	1.8314	1.6975	1.8625	1.7821	1.5840	1.7082	1.6504	1.0217
	1.8756	1.9492	1.8415	1.9214	2.0693	1.9815	1.9710	3.2535
10	1.8871	1.8625	1.8421	1.5958	1.8325	1.8218	1.7393	.7936
	1.8180	1.8423	1.8611	2.0713	1.8535	1.8595	1.8688	4.2196
11	1.6290	1.7821	1.5926	1.6686	1.6290	1.8153	1.7639	.8236
	2.0302	1.9206	2.0752	2.0424	2.0025	1.8568	1.8356	4.0727
12	1.6204	1.5840	1.8303	1.6279	1.7918	1.7768	1.2049	
	2.1040	2.0684	1.8550	2.0025	1.8589	1.8043	2.7758	
13	1.4244	1.7093	1.8207	1.8143	1.7757	1.8014	.9575	
	2.2574	1.9815	1.8603	1.8575	1.8049	1.7661	3.4535	
14	1.5401	1.6504	1.7393	1.7639	1.2049	.9575		
	2.1506	1.9701	1.8688	1.8362	2.7758	3.4535		
15	.7968	1.0228	.7936	.8236	F-SUB-Q			
	4.1094	3.2512	4.2236	4.0727	M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 4 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - POWER ESCALATION

AT 50% POWER, 4 EFPD, THIS IS LEVEL 16 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	1.2831	1.7993	1.8560	1.6086	1.6076	1.4234	1.5401	.7947
	2.8692	2.0467	1.9831	2.2216	2.2427	2.3944	2.2603	4.3187
9	1.7993	1.6750	1.8325	1.7597	1.5797	1.7007	1.6526	1.0196
	2.0467	2.1365	2.0073	2.0867	2.2417	2.1263	2.1183	3.4158
10	1.8560	1.8325	1.8153	1.5787	1.8293	1.8175	1.7425	.7947
	1.9831	2.0082	2.0250	2.2610	1.9873	1.9960	2.0141	4.4876
11	1.6086	1.7597	1.5754	1.6590	1.6290	1.8143	1.7693	.8236
	2.2216	2.0867	2.2656	2.2039	2.1687	1.9960	1.9801	4.3638
12	1.6076	1.5797	1.8282	1.6279	1.7961	1.7854	1.2059	
	2.2427	2.2405	1.9882	2.1697	2.0126	1.9653	2.9927	
13	1.4234	1.7018	1.8164	1.8143	1.7854	1.8143	.9607	
	2.3944	2.1263	1.9969	1.9969	1.9661	1.9246	3.7415	
14	1.5401	1.6526	1.7425	1.7693	1.2059	.9607		
	2.2603	2.1172	2.0141	1.9810	2.9946	3.7415		
15	.7947	1.0196	.7947	.8225	F-SUB-Q			
	4.3187	3.4132	4.4876	4.3638	M-SUB-Q			

AT 50% POWER, 4 EFPD, THIS IS LEVEL 15 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	1.2295	1.7329	1.7886	1.5551	1.5604	1.3891	1.5037	.7765
	3.2582	2.3089	2.2309	2.4857	2.4484	2.6194	2.4523	4.6715
9	1.7329	1.6161	1.7682	1.7018	1.5401	1.6590	1.6129	.9950
	2.3089	2.4180	2.2559	2.3066	2.5063	2.3043	2.3131	3.6872
10	1.7886	1.7671	1.7532	1.5283	1.7864	1.7746	1.7029	.7743
	2.2309	2.2559	2.2714	2.5515	2.2106	2.2201	2.2543	4.8378
11	1.5551	1.7018	1.5251	1.6151	1.5915	1.7746	1.7307	.8043
	2.4857	2.3066	2.5558	2.4510	2.4297	2.2159	2.2168	4.8429
12	1.5604	1.5401	1.7854	1.5904	1.7607	1.7489	1.1813	
	2.4484	2.5050	2.2116	2.4310	2.2298	2.1953	3.3167	
13	1.3891	1.6590	1.7736	1.7736	1.7489	1.7789	.9425	
	2.6194	2.3031	2.2212	2.2169	2.1953	2.1474	4.1325	
14	1.5037	1.6129	1.7018	1.7297	1.1813	.9425		
	2.4523	2.3131	2.2543	2.2168	3.3167	4.1325		
15	.7765	.9960	.7733	.8043	F-SUB-Q			
	4.6715	3.6843	4.8378	4.8480	M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

CNEI-0400-25
Appendix A, Rev. 17
Page 271 of 331

TABLE 4 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - POWER ESCALATION

AT 50% POWER, 4 EFPD, THIS IS LEVEL 14 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	1.2059	1.6997	1.7564	1.5369	1.5465	1.3859	1.4994	.7700
	3.6014	2.5490	2.4458	2.6714	2.5873	2.7563	2.5603	4.8941
9	1.6997	1.5958	1.7361	1.6772	1.5337	1.6483	1.6129	.9885
	2.5490	2.6498	2.4292	2.4665	2.6559	2.4292	2.4375	3.8713
10	1.7564	1.7361	1.7243	1.5133	1.7789	1.7639	1.7050	.7733
	2.4458	2.4292	2.4522	2.7431	2.3855	2.3991	2.3819	5.0703
11	1.5369	1.6772	1.5101	1.6044	1.5894	1.7682	1.7350	.8000
	2.6714	2.4665	2.7464	2.6953	2.6760	2.4330	2.4349	5.0981
12	1.5465	1.5337	1.7779	1.5883	1.7597	1.7564	1.1770	
	2.5873	2.6559	2.3868	2.6792	2.4561	2.4247	3.6581	
13	1.3859	1.6483	1.7629	1.7671	1.7564	1.7907	.9393	
	2.7563	2.4292	2.3991	2.4343	2.4247	2.3672	4.5583	
14	1.4994	1.6129	1.7050	1.7350	1.1770	.9393		
	2.5603	2.4362	2.3819	2.4349	3.6581	4.5583		
15	.7700	.9885	.7722	.8000	F-SUB-Q			
	4.8941	3.8681	5.0758	5.1037	M-SUB-Q			

AT 50% POWER, 4 EFPD, THIS IS LEVEL 13 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	1.1663	1.6493	1.7050	1.4983	1.5123	1.3634	1.4748	.7551
	4.0720	2.8775	2.6464	2.9038	2.7734	2.9553	2.7234	5.2102
9	1.6493	1.5540	1.6868	1.6343	1.5069	1.6161	1.5894	.9703
	2.8775	2.8804	2.6285	2.6629	2.8592	2.5964	2.6124	4.1223
10	1.7050	1.6868	1.6772	1.4780	1.7489	1.7318	1.6815	.7593
	2.6464	2.6300	2.6524	2.9780	2.5511	2.5623	2.5565	5.3965
11	1.4983	1.6343	1.4748	1.5754	1.5647	1.7404	1.7125	.7861
	2.9038	2.6629	2.9818	3.0031	2.9991	2.7061	2.6971	5.4595
12	1.5123	1.5069	1.7479	1.5637	1.7350	1.7361	1.1588	
	2.7734	2.8592	2.5511	3.0010	2.7234	2.7049	4.0579	
13	1.3634	1.6161	1.7307	1.7393	1.7361	1.7725	.9264	
	2.9553	2.5950	2.5623	2.7076	2.7065	2.6420	5.0581	
14	1.4748	1.5894	1.6804	1.7125	1.1588	.9264		
	2.7234	2.6124	2.5565	2.6971	4.0579	5.0581		
15	.7551	.9703	.7593	.7861	F-SUB-Q			
	5.2102	4.1186	5.3965	5.4595	M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 4 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - POWER ESCALATION

AT 50% POWER, 4 EFPD, THIS IS LEVEL 12 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.1224	* 1.5894	* 1.6440	* 1.4480	* 1.4651	* 1.3270	* 1.4351	* .7347
	* 4.1719	* 2.9630	* 2.8566	* 3.1500	* 3.0048	* 3.2015	* 2.9371	* 5.6142
9	* 1.5894	* 1.5005	* 1.6268	* 1.5797	* 1.4651	* 1.5722	* 1.5465	* .9436
	* 2.9630	* 3.1165	* 2.8393	* 2.8812	* 3.1124	* 2.8138	* 2.8376	* 4.4530
10	* 1.6440	* 1.6258	* 1.6194	* 1.4298	* 1.7018	* 1.6858	* 1.6376	* .7390
	* 2.8566	* 2.8393	* 2.8653	* 3.2302	* 2.7674	* 2.7821	* 2.7854	* 5.8449
11	* 1.4480	* 1.5797	* 1.4266	* 1.5326	* 1.5262	* 1.6954	* 1.6697	* .7658
	* 3.1500	* 2.8812	* 3.2369	* 3.0898	* 3.1021	* 2.7904	* 2.8308	* 5.9261
12	* 1.4651	* 1.4651	* 1.7007	* 1.5262	* 1.6933	* 1.6943	* 1.1299	
	* 3.0048	* 3.1124	* 2.7690	* 3.1041	* 2.8021	* 2.8004	* 4.1868	
13	* 1.3270	* 1.5722	* 1.6847	* 1.6943	* 1.6933	* 1.7307	* .9039	
	* 3.2015	* 2.8138	* 2.7821	* 2.7937	* 2.8004	* 2.7399	* 5.2324	
14	* 1.4351	* 1.5465	* 1.6365	* 1.6686	* 1.1299	* .9039		
	* 2.9371	* 2.8376	* 2.7854	* 2.8308	* 4.1868	* 5.2324		
15	* .7347	* .9436	* .7390	* .7658	* F-SUB-Q			
	* 5.6142	* 4.4530	* 5.8449	* 5.9335	* M-SUB-Q			

AT 50% POWER, 4 EFPD, THIS IS LEVEL 11 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.1010	* 1.5669	* 1.6236	* 1.4319	* 1.4533	* 1.3205	* 1.4309	* .7304
	* 4.1461	* 2.9261	* 2.7052	* 2.9819	* 2.8759	* 3.1124	* 2.8619	* 5.5282
9	* 1.5669	* 1.4833	* 1.6054	* 1.5626	* 1.4576	* 1.5647	* 1.5422	* .9371
	* 2.9261	* 2.9463	* 2.6881	* 2.7319	* 2.9875	* 2.7224	* 2.7560	* 4.3905
10	* 1.6236	* 1.6054	* 1.6001	* 1.4159	* 1.6965	* 1.6783	* 1.6354	* .7347
	* 2.7052	* 2.6881	* 2.7114	* 3.0596	* 2.6502	* 2.6866	* 2.6958	* 5.7377
11	* 1.4319	* 1.5626	* 1.4126	* 1.5240	* 1.5240	* 1.6911	* 1.6686	* .7615
	* 2.9819	* 2.7319	* 3.0656	* 3.0378	* 3.0398	* 2.7383	* 2.7690	* 5.8087
12	* 1.4533	* 1.4576	* 1.6943	* 1.5230	* 1.6911	* 1.6943	* 1.1256	
	* 2.8759	* 2.9875	* 2.6517	* 3.0418	* 2.7415	* 2.7351	* 4.1027	
13	* 1.3205	* 1.5647	* 1.6772	* 1.6890	* 1.6943	* 1.7350	* .9018	
	* 3.1124	* 2.7224	* 2.6881	* 2.7399	* 2.7351	* 2.6713	* 5.1238	
14	* 1.4309	* 1.5422	* 1.6343	* 1.6686	* 1.1256	* .9018		
	* 2.8619	* 2.7560	* 2.6958	* 2.7706	* 4.1062	* 5.1238		
15	* .7304	* .9382	* .7347	* .7615	* F-SUB-Q			
	* 5.5282	* 4.3864	* 5.7377	* 5.8159	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 4 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - POWER ESCALATION

AT 50% POWER, 4 EFPD, THIS IS LEVEL 10 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.0678	* 1.5283	* 1.5840	* 1.4041	* 1.4244	* 1.3023	* 1.4094	* .7154
	* 4.1243	* 2.8223	* 2.6031	* 2.8619	* 2.7641	* 2.9819	* 2.7415	* 5.2854
9	* 1.5283	* 1.4523	* 1.5679	* 1.5283	* 1.4362	* 1.5380	* 1.5230	* .9211
	* 2.8223	* 2.8257	* 2.5859	* 2.6264	* 2.8601	* 2.6133	* 2.6368	* 4.1981
10	* 1.5840	* 1.5679	* 1.5637	* 1.3891	* 1.6708	* 1.6504	* 1.6161	* .7219
	* 2.6031	* 2.5859	* 2.6075	* 2.9334	* 2.5370	* 2.5760	* 2.5746	* 5.5023
11	* 1.4041	* 1.5283	* 1.3859	* 1.4983	* 1.5058	* 1.6654	* 1.6504	* .7486
	* 2.8619	* 2.6264	* 2.9389	* 2.9649	* 2.9705	* 2.6850	* 2.6943	* 5.5742
12	* 1.4244	* 1.4351	* 1.6686	* 1.5048	* 1.6675	* 1.6772	* 1.1085	
	* 2.7641	* 2.8601	* 2.5370	* 2.9743	* 2.6989	* 2.6866	* 4.0356	
13	* 1.3023	* 1.5380	* 1.6493	* 1.6633	* 1.6761	* 1.7190	* .8879	
	* 2.9819	* 2.6133	* 2.5774	* 2.6866	* 2.6866	* 2.6220	* 5.0576	
14	* 1.4094	* 1.5230	* 1.6151	* 1.6493	* 1.1085	* .8879		
	* 2.7415	* 2.6353	* 2.5760	* 2.6958	* 4.0356	* 5.0576		
15	* .7154	* .9211	* .7208	* .7476	* F-SUB-Q			
	* 5.2854	* 4.1943	* 5.5023	* 5.5808	* M-SUB-Q			

AT 50% POWER, 4 EFPD, THIS IS LEVEL 9 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.0399	* 1.4898	* 1.5455	* 1.3730	* 1.3944	* 1.2788	* 1.3837	* .7015
	* 3.9177	* 2.6652	* 2.4547	* 2.6896	* 2.5931	* 2.7854	* 2.5633	* 4.9561
9	* 1.4898	* 1.4201	* 1.5305	* 1.4930	* 1.4094	* 1.5080	* 1.4951	* .9018
	* 2.6652	* 2.6607	* 2.4394	* 2.4741	* 2.6835	* 2.4534	* 2.4676	* 3.9309
10	* 1.5455	* 1.5305	* 1.5272	* 1.3602	* 1.6408	* 1.6204	* 1.5872	* .7079
	* 2.4547	* 2.4394	* 2.4599	* 2.7576	* 2.3849	* 2.4218	* 2.4156	* 5.1351
11	* 1.3730	* 1.4930	* 1.3570	* 1.4694	* 1.4812	* 1.6354	* 1.6226	* .7336
	* 2.6896	* 2.4741	* 2.7625	* 2.7887	* 2.8155	* 2.5439	* 2.5480	* 5.2091
12	* 1.3944	* 1.4094	* 1.6386	* 1.4801	* 1.6397	* 1.6493	* 1.0881	
	* 2.5931	* 2.6835	* 2.3861	* 2.8172	* 2.6031	* 2.5732	* 3.8283	
13	* 1.2788	* 1.5080	* 1.6183	* 1.6333	* 1.6493	* 1.6911	* .8707	
	* 2.7854	* 2.4534	* 2.4218	* 2.5466	* 2.5746	* 2.5139	* 4.8039	
14	* 1.3837	* 1.4951	* 1.5872	* 1.6215	* 1.0871	* .8707		
	* 2.5633	* 2.4663	* 2.4156	* 2.5494	* 3.8283	* 4.8039		
15	* .7015	* .9029	* .7079	* .7326	* F-SUB-Q			
	* 4.9561	* 3.9309	* 5.1407	* 5.2149	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 4 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - POWER ESCALATION

AT 50% POWER, 4 EFPD, THIS IS LEVEL 8 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.0110	* 1.4523	* 1.5069	* 1.3377	* 1.3623	* 1.2477	* 1.3527	* .6854
	* 3.6667	* 2.4952	* 2.3030	* 2.5302	* 2.4381	* 2.6279	* 2.4143	* 4.6747
9	* 1.4523	* 1.3827	* 1.4930	* 1.4576	* 1.3762	* 1.4748	* 1.4598	* .8814
	* 2.4952	* 2.4978	* 2.2872	* 2.3212	* 2.5193	* 2.3030	* 2.3246	* 3.7073
10	* 1.5069	* 1.4930	* 1.4898	* 1.3259	* 1.6044	* 1.5851	* 1.5497	* .6897
	* 2.3030	* 2.2884	* 2.3052	* 2.5902	* 2.2318	* 2.2685	* 2.2685	* 4.8436
11	* 1.3377	* 1.4576	* 1.3227	* 1.4373	* 1.4469	* 1.6001	* 1.5840	* .7165
	* 2.5302	* 2.3212	* 2.5945	* 2.6060	* 2.6442	* 2.3873	* 2.3849	* 4.8890
12	* 1.3623	* 1.3762	* 1.6033	* 1.4469	* 1.6044	* 1.6119	* 1.0635	*
	* 2.4381	* 2.5193	* 2.2328	* 2.6472	* 2.4458	* 2.4318	* 3.6048	*
13	* 1.2477	* 1.4748	* 1.5840	* 1.5990	* 1.6108	* 1.6515	* .8514	*
	* 2.6279	* 2.3030	* 2.2696	* 2.3885	* 2.4318	* 2.3776	* 4.5435	*
14	* 1.3527	* 1.4587	* 1.5487	* 1.5829	* 1.0624	* .8514	*	*
	* 2.4143	* 2.3246	* 2.2685	* 2.3861	* 3.6076	* 4.5435	*	*
15	* .6854	* .8814	* .6897	* .7154	* F-SUB-Q			
	* 4.6747	* 3.7044	* 4.8486	* 4.8890	* M-SUB-Q			

AT 50% POWER, 4 EFPD, THIS IS LEVEL 7 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.0025	* 1.4426	* 1.4983	* 1.3366	* 1.3591	* 1.2477	* 1.3505	* .6801
	* 3.3453	* 2.2996	* 2.1266	* 2.3304	* 2.2554	* 2.4318	* 2.2371	* 4.3619
9	* 1.4426	* 1.3805	* 1.4855	* 1.4523	* 1.3762	* 1.4683	* 1.4608	* .8761
	* 2.2996	* 2.2973	* 2.1123	* 2.1441	* 2.3177	* 2.1305	* 2.1451	* 3.4485
10	* 1.4983	* 1.4855	* 1.4833	* 1.3248	* 1.6033	* 1.5797	* 1.5508	* .6876
	* 2.1266	* 2.1132	* 2.1276	* 2.3825	* 2.0495	* 2.0943	* 2.0841	* 4.4870
11	* 1.3366	* 1.4512	* 1.3216	* 1.4330	* 1.4480	* 1.5958	* 1.5851	* .7111
	* 2.3304	* 2.1441	* 2.3873	* 2.3885	* 2.3897	* 2.1659	* 2.1639	* 4.5216
12	* 1.3591	* 1.3762	* 1.6011	* 1.4469	* 1.6022	* 1.6140	* 1.0571	*
	* 2.2554	* 2.3177	* 2.0513	* 2.3922	* 2.2339	* 2.2191	* 3.3029	*
13	* 1.2477	* 1.4683	* 1.5787	* 1.5947	* 1.6129	* 1.6547	* .8461	*
	* 2.4318	* 2.1305	* 2.0943	* 2.1679	* 2.2202	* 2.1689	* 4.1906	*
14	* 1.3505	* 1.4598	* 1.5508	* 1.5840	* 1.0571	* .8450	*	*
	* 2.2371	* 2.1441	* 2.0850	* 2.1649	* 3.3029	* 4.1906	*	*
15	* .6801	* .8761	* .6865	* .7111	* F-SUB-Q			
	* 4.3619	* 3.4485	* 4.4913	* 4.5260	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 4 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - POWER ESCALATION

AT 50% POWER, 4 EFPD, THIS IS LEVEL 6 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9864	* 1.4223	* 1.4801	* 1.3216	* 1.3452	* 1.2306	* 1.3334	* .6694
	* 3.0919	* 2.1334	* 1.9887	* 2.1820	* 2.1161	* 2.2951	* 2.1104	* 4.1352
9	* 1.4223	* 1.3634	* 1.4683	* 1.4362	* 1.3602	* 1.4491	* 1.4384	* .8611
	* 2.1334	* 2.1470	* 1.9745	* 2.0057	* 2.1689	* 2.0023	* 2.0213	* 3.2661
10	* 1.4801	* 1.4683	* 1.4662	* 1.3109	* 1.5862	* 1.5594	* 1.5272	* .6758
	* 1.9887	* 1.9754	* 1.9879	* 2.2265	* 1.9102	* 1.9580	* 1.9572	* 4.2398
11	* 1.3216	* 1.4362	* 1.3077	* 1.4169	* 1.4276	* 1.5754	* 1.5604	* .6983
	* 2.1820	* 2.0066	* 2.2307	* 2.2045	* 2.2202	* 2.0092	* 2.0144	* 4.2552
12	* 1.3452	* 1.3602	* 1.5840	* 1.4266	* 1.5797	* 1.5894	* 1.0389	
	* 2.1161	* 2.1689	* 1.9110	* 2.2223	* 2.0486	* 2.0397	* 3.0596	
13	* 1.2306	* 1.4491	* 1.5583	* 1.5744	* 1.5894	* 1.6279	* .8300	
	* 2.2951	* 2.0023	* 1.9580	* 2.0109	* 2.0406	* 1.9989	* 3.8629	
14	* 1.3334	* 1.4384	* 1.5262	* 1.5594	* 1.0389	* .8300		
	* 2.1104	* 2.0213	* 1.9572	* 2.0152	* 3.0616	* 3.8661		
15	* .6694	* .8611	* .6747	* .6972	F-SUB-Q			
	* 4.1352	* 3.2661	* 4.2436	* 4.2590	M-SUB-Q			

AT 50% POWER, 4 EFPD, THIS IS LEVEL 5 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9585	* 1.3848	* 1.4437	* 1.2873	* 1.3184	* 1.1931	* 1.2948	* .6512
	* 2.9781	* 2.0057	* 1.8940	* 2.0906	* 2.0222	* 2.2233	* 2.0397	* 4.0012
9	* 1.3848	* 1.3259	* 1.4362	* 1.4062	* 1.3238	* 1.4094	* 1.3869	* .8322
	* 2.0057	* 2.0540	* 1.8811	* 1.9126	* 2.0758	* 1.9235	* 1.9613	* 3.1734
10	* 1.4437	* 1.4351	* 1.4330	* 1.2788	* 1.5455	* 1.5176	* 1.4694	* .6501
	* 1.8940	* 1.8819	* 1.8925	* 2.1266	* 1.8170	* 1.8662	* 1.8933	* 4.1207
11	* 1.2873	* 1.4062	* 1.2756	* 1.3859	* 1.3816	* 1.5305	* 1.5005	* .6726
	* 2.0906	* 1.9133	* 2.1314	* 2.0649	* 2.0953	* 1.9009	* 1.9212	* 4.1098
12	* 1.3184	* 1.3238	* 1.5433	* 1.3805	* 1.5337	* 1.5315	* 1.0046	
	* 2.0222	* 2.0758	* 1.8178	* 2.0981	* 1.9475	* 1.9540	* 2.9444	
13	* 1.1931	* 1.4094	* 1.5165	* 1.5294	* 1.5315	* 1.5604	* .8000	
	* 2.2233	* 1.9235	* 1.8669	* 1.9025	* 1.9548	* 1.9220	* 3.7044	
14	* 1.2948	* 1.3869	* 1.4683	* 1.4994	* 1.0035	* .8000		
	* 2.0397	* 1.9613	* 1.8940	* 1.9220	* 2.9444	* 3.7044		
15	* .6512	* .8332	* .6501	* .6726	F-SUB-Q			
	* 4.0012	* 3.1712	* 4.1243	* 4.1098	M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 4 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - POWER ESCALATION

AT 50% POWER, 4 EFPD, THIS IS LEVEL 4 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9457 *	* 1.3666 *	* 1.4298 *	* 1.2788 *	* 1.3291 *	* 1.1802 *	* 1.2863 *	* .6426 *
	* 2.7351 *	* 1.8956 *	* 1.7887 *	* 1.9820 *	* 1.8925 *	* 2.1266 *	* 1.9443 *	* 3.8471 *
9	* 1.3666 *	* 1.3109 *	* 1.4287 *	* 1.4062 *	* 1.3152 *	* 1.3987 *	* 1.3580 *	* .8150 *
	* 1.8956 *	* 1.9499 *	* 1.7778 *	* 1.8010 *	* 1.9630 *	* 1.8305 *	* 1.8849 *	* 3.0656 *
10	* 1.4298 *	* 1.4276 *	* 1.4255 *	* 1.2745 *	* 1.5390 *	* 1.5005 *	* 1.4330 *	* .6362 *
	* 1.7887 *	* 1.7785 *	* 1.7880 *	* 2.0057 *	* 1.7036 *	* 1.7644 *	* 1.8213 *	* 3.9741 *
11	* 1.2788 *	* 1.4062 *	* 1.2713 *	* 1.3944 *	* 1.3645 *	* 1.5123 *	* 1.4619 *	* .6555 *
	* 1.9820 *	* 1.8017 *	* 2.0109 *	* 1.9064 *	* 1.9638 *	* 1.7798 *	* 1.8355 *	* 3.9574 *
12	* 1.3291 *	* 1.3141 *	* 1.5369 *	* 1.3634 *	* 1.5187 *	* 1.5026 *	* .9832 *	
	* 1.8925 *	* 1.9630 *	* 1.7048 *	* 1.9662 *	* 1.8248 *	* 1.8573 *	* 2.7706 *	
13	* 1.1802 *	* 1.3987 *	* 1.4994 *	* 1.5112 *	* 1.5026 *	* 1.5208 *	* .7797 *	
	* 2.1266 *	* 1.8305 *	* 1.7651 *	* 1.7819 *	* 1.8581 *	* 1.8456 *	* 3.5476 *	
14	* 1.2863 *	* 1.3580 *	* 1.4319 *	* 1.4608 *	* .9821 *	* .7797 *		
	* 1.9443 *	* 1.8849 *	* 1.8220 *	* 1.8370 *	* 2.7723 *	* 3.5476 *		
15	* .6426 *	* .8161 *	* .6362 *	* .6555 *	F-SUB-Q			
	* 3.8471 *	* 3.0656 *	* 3.9809 *	* 3.9607 *	M-SUB-Q			

AT 50% POWER, 4 EFPD, THIS IS LEVEL 3 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .8975 *	* 1.2873 *	* 1.3441 *	* 1.2295 *	* 1.3248 *	* 1.1599 *	* 1.2445 *	* .6126 *
	* 2.7240 *	* 1.8933 *	* 1.7969 *	* 1.9638 *	* 1.8114 *	* 2.0694 *	* 1.9212 *	* 3.8629 *
9	* 1.2873 *	* 1.2445 *	* 1.3591 *	* 1.3548 *	* 1.2691 *	* 1.3355 *	* 1.2766 *	* .7700 *
	* 1.8933 *	* 1.9507 *	* 1.7825 *	* 1.7812 *	* 1.9299 *	* 1.8234 *	* 1.8963 *	* 3.1021 *
10	* 1.3441 *	* 1.3580 *	* 1.3516 *	* 1.2552 *	* 1.4780 *	* 1.4126 *	* 1.3302 *	* .6051 *
	* 1.7969 *	* 1.7839 *	* 1.7948 *	* 1.9704 *	* 1.6780 *	* 1.7724 *	* 1.8566 *	* 3.9944 *
11	* 1.2295 *	* 1.3548 *	* 1.2499 *	* 1.3880 *	* 1.3130 *	* 1.4309 *	* 1.3462 *	* .6148 *
	* 1.9638 *	* 1.7812 *	* 1.9737 *	* 1.8017 *	* 1.9330 *	* 1.7785 *	* 1.8872 *	* 4.0046 *
12	* 1.3248 *	* 1.2691 *	* 1.4758 *	* 1.3120 *	* 1.4833 *	* 1.4244 *	* .9264 *	
	* 1.8114 *	* 1.9307 *	* 1.6792 *	* 1.9354 *	* 1.7345 *	* 1.8220 *	* 2.7657 *	
13	* 1.1599 *	* 1.3355 *	* 1.4116 *	* 1.4287 *	* 1.4244 *	* 1.4116 *	* .7294 *	
	* 2.0694 *	* 1.8234 *	* 1.7731 *	* 1.7805 *	* 1.8227 *	* 1.8493 *	* 3.5449 *	
14	* 1.2445 *	* 1.2766 *	* 1.3302 *	* 1.3452 *	* .9264 *	* .7294 *		
	* 1.9212 *	* 1.8963 *	* 1.8573 *	* 1.8887 *	* 2.7674 *	* 3.5476 *		
15	* .6126 *	* .7700 *	* .6040 *	* .6148 *	F-SUB-Q			
	* 3.8629 *	* 3.1000 *	* 3.9978 *	* 4.0081 *	M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 4 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - POWER ESCALATION

AT 50% POWER, 4 EFPD, THIS IS LEVEL 2 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .7626	* 1.0667	* 1.1235	* 1.2745	* 1.2006	* 1.2252	* 1.1010	* .5312
	* 3.0497	* 2.1840	* 2.0640	* 1.8100	* 1.9228	* 1.8796	* 2.0906	* 4.3099
9	* 1.0667	* 1.2231	* 1.1245	* 1.1802	* 1.2981	* 1.1299	* 1.1749	* .6587
	* 2.1840	* 1.9017	* 2.0703	* 1.9712	* 1.7948	* 2.0630	* 1.9829	* 3.4973
10	* 1.1235	* 1.1245	* 1.1674	* 1.3291	* 1.2649	* 1.1524	* 1.1802	* .5259
	* 2.0640	* 2.0712	* 2.0075	* 1.7792	* 1.8744	* 2.0740	* 1.9955	* 4.4111
11	* 1.2745	* 1.1792	* 1.3248	* 1.2584	* 1.3645	* 1.2124	* 1.1224	* .5280
	* 1.8100	* 1.9695	* 1.7853	* 1.9002	* 1.7832	* 2.0230	* 2.1510	* 4.4827
12	* 1.2006	* 1.2981	* 1.2627	* 1.3634	* 1.3205	* 1.3163	* .8022	*
	* 1.9228	* 1.7948	* 1.8759	* 1.7866	* 1.8551	* 1.8744	* 3.0596	*
13	* 1.2252	* 1.1299	* 1.1513	* 1.2113	* 1.3163	* 1.1706	* .6158	*
	* 1.8796	* 2.0621	* 2.0749	* 2.0248	* 1.8751	* 2.1189	* 4.0115	*
14	* 1.1010	* 1.1749	* 1.1802	* 1.1224	* .8011	* .6148	*	*
	* 2.0906	* 1.9829	* 1.9964	* 2.1520	* 3.0616	* 4.0115	*	*
15	* .5312	* .6587	* .5259	* .5269	* F-SUB-Q			
	* 4.3099	* 3.4973	* 4.4111	* 4.4870	* M-SUB-Q			

AT 50% POWER, 4 EFPD, THIS IS LEVEL 1 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .5173	* .4359	* .4734	* .5430	* .5066	* .5216	* .4541	* .3556
	* 4.3099	* 5.0960	* 4.6747	* 4.0531	* 4.3579	* 4.2094	* 4.8386	* 6.2000
9	* .4359	* .5023	* .4520	* .5109	* .5516	* .4927	* .4552	* .2913
	* 5.0960	* 4.4070	* 4.9095	* 4.3701	* 4.0218	* 4.4785	* 4.8536	* 7.5701
10	* .4734	* .4520	* .5194	* .5687	* .5344	* .4670	* .4520	* .3663
	* 4.6747	* 4.9095	* 4.3178	* 3.9607	* 4.2552	* 4.8941	* 4.9561	* 6.0796
11	* .5430	* .5098	* .5666	* .5398	* .5783	* .5012	* .4220	* .2474
	* 4.0531	* 4.3741	* 3.9708	* 4.2668	* 3.9809	* 4.6654	* 5.4322	* 9.1490
12	* .5066	* .5516	* .5323	* .5773	* .5473	* .5109	* .3738	*
	* 4.3579	* 4.0218	* 4.2706	* 3.9910	* 4.2321	* 4.5879	* 6.2663	*
13	* .5216	* .4937	* .4670	* .5012	* .5109	* .4541	* .2774	*
	* 4.2094	* 4.4742	* 4.8992	* 4.6701	* 4.5924	* 5.1861	* 8.5026	*
14	* .4541	* .4552	* .4520	* .4220	* .3727	* .2774	*	*
	* 4.8386	* 4.8486	* 4.9561	* 5.4322	* 6.2746	* 8.5026	*	*
15	* .3556	* .2913	* .3663	* .2474	* F-SUB-Q			
	* 6.2000	* 7.5701	* 6.0796	* 9.1669	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 4 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - POWER ESCALATION

AT 30% POWER, 4 EFPD, THIS IS LEVEL 24 OF 24
 (LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	.6019	.5205	.5280	.5162	.4573	.4327	.3931	.3545
	3.9135	4.9156	4.9491	4.9222	5.6777	5.7528	6.4631	7.0260
9	.5205	.5505	.5291	.4959	.4691	.4455	.4113	.2795
	4.9156	4.5569	4.9323	5.2949	5.3110	5.7489	6.0206	8.9448
10	.5280	.5291	.5119	.4959	.4627	.4445	.4166	.3491
	4.9491	4.9323	5.1267	5.0514	5.4778	5.6925	5.9155	7.1553
11	.5162	.4959	.4959	.4616	.4520	.4338	.3931	.2420
	4.9222	5.2949	5.0544	5.5090	5.2193	5.6555	6.1162	10.1105
12	.4573	.4702	.4627	.4520	.4006	.3963	.3449	
	5.6777	5.3077	5.4778	5.2193	5.4572	5.4581	6.8839	
13	.4327	.4455	.4445	.4338	.3963	.3534	.2495	
	5.7528	5.7450	5.6925	5.6555	5.4581	6.0334	9.1448	
14	.3931	.4113	.4166	.3931	.3449	.2495		
	6.4631	6.0206	5.9155	6.1162	6.8839	9.1448		
15	.3545	.2795	.3491	.2420				F-SUB-Q
	7.0260	8.9448	7.1553	10.1105				M-SUB-Q

AT 30% POWER, 4 EFPD, THIS IS LEVEL 23 OF 24
 (LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	.9082	1.3248	1.3655	1.0924	1.0924	.8761	.9607	.5269
	2.7064	2.0876	2.0524	2.4865	2.5410	3.0376	2.8421	5.0234
9	1.3248	1.1556	1.3473	1.2541	.9778	1.1085	.9618	.6405
	2.0876	2.3319	2.0816	2.2371	2.7115	2.4785	2.7500	4.1622
10	1.3655	1.3473	1.3173	1.0560	1.1738	1.1631	1.0014	.4937
	2.0524	2.0821	2.1322	2.5552	2.3205	2.3261	2.6156	5.3272
11	1.0924	1.2541	1.0539	1.1042	.9768	1.1288	.9982	.5173
	2.4865	2.2371	2.5583	2.4515	2.6449	2.3541	2.5721	5.0136
12	1.0924	.9789	1.1738	.9768	.9693	.9543	.7433	
	2.5410	2.7098	2.3205	2.6449	2.3758	2.5136	3.4380	
13	.8761	1.1085	1.1631	1.1288	.9543	.9371	.5644	
	3.0376	2.4771	2.3261	2.3541	2.5136	2.5543	4.3542	
14	.9607	.9628	1.0014	.9982	.7433	.5644		
	2.8421	2.7482	2.6148	2.5721	3.4380	4.3542		
15	.5269	.6415	.4937	.5173				F-SUB-Q
	5.0234	4.1583	5.3272	5.0136				M-SUB-Q

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 4 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - POWER ESCALATION

AT 30% POWER, 4 EFPD, THIS IS LEVEL 22 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	1.2263	1.6900	1.7447	1.4126	1.3827	1.1310	1.2381	.6640
	2.2700	1.7088	1.6697	1.9943	2.0896	2.4461	2.2874	4.1337
9	1.6900	1.4962	1.7168	1.5969	1.2788	1.4319	1.2788	.8204
	1.7088	1.8741	1.6983	1.8242	2.1557	1.9929	2.1443	3.3649
10	1.7447	1.7168	1.6815	1.3655	1.5165	1.5176	1.3409	.6297
	1.6697	1.6989	1.7340	2.0508	1.8670	1.8579	2.0284	4.3467
11	1.4126	1.5979	1.3634	1.4052	1.2895	1.4780	1.3484	.6597
	1.9943	1.8242	2.0537	2.0120	2.0934	1.8813	1.9850	4.0967
12	1.3827	1.2788	1.5165	1.2895	1.3998	1.3184	.9618	
	2.0896	2.1546	1.8670	2.0939	1.9011	1.9546	2.7889	
13	1.1310	1.4330	1.5176	1.4769	1.3184	1.3034	.7411	
	2.4461	1.9920	1.8579	1.8813	1.9546	1.9542	3.4925	
14	1.2381	1.2798	1.3420	1.3484	.9618	.7411		
	2.2874	2.1432	2.0284	1.9850	2.7889	3.4925		
15	.6640	.8215	.6297	.6597	F-SUB-Q			
	4.1337	3.3598	4.3467	4.0967	M-SUB-Q			

AT 30% POWER, 4 EFPD, THIS IS LEVEL 21 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	1.3784	1.9149	1.9760	1.6311	1.5894	1.3270	1.4437	.7561
	2.1110	1.5643	1.5264	1.7855	1.8804	2.1494	2.0200	3.7408
9	1.9149	1.7232	1.9439	1.8186	1.4994	1.6558	1.5219	.9543
	1.5643	1.6834	1.5523	1.6579	1.9042	1.7876	1.8654	2.9987
10	1.9760	1.9439	1.9064	1.5797	1.7586	1.7586	1.5969	.7315
	1.5264	1.5523	1.5824	1.8331	1.6688	1.6638	1.7628	3.8911
11	1.6311	1.8186	1.5765	1.6226	1.5230	1.7254	1.6129	.7647
	1.7855	1.6576	1.8367	1.8116	1.8414	1.6760	1.7225	3.6817
12	1.5894	1.4994	1.7586	1.5219	1.6622	1.5990	1.1213	
	1.8804	1.9034	1.6694	1.8421	1.6833	1.6896	2.4961	
13	1.3270	1.6568	1.7586	1.7243	1.5990	1.5947	.8707	
	2.1494	1.7865	1.6644	1.6763	1.6896	1.6738	3.1142	
14	1.4437	1.5230	1.5969	1.6129	1.1213	.8707		
	2.0200	1.8649	1.7624	1.7225	2.4961	3.1142		
15	.7561	.9553	.7315	.7647	F-SUB-Q			
	3.7408	2.9947	3.8911	3.6817	M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 4 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - POWER ESCALATION

AT 30% POWER, 4 EFPD, THIS IS LEVEL 20 OF 24
 (LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	1.4169	1.9835	2.0456	1.7147	1.6750	1.4201	1.5422	.7968
	2.1427	1.5721	1.5297	1.7532	1.8454	2.0663	1.9586	3.6818
9	1.9835	1.8057	2.0135	1.8957	1.6022	1.7511	1.6418	1.0164
	1.5721	1.6666	1.5531	1.6440	1.8470	1.7512	1.7894	2.9278
10	2.0456	2.0135	1.9781	1.6654	1.8668	1.8646	1.7265	.7808
	1.5297	1.5536	1.5784	1.7984	1.6368	1.6359	1.6959	3.7883
11	1.7147	1.8957	1.6622	1.7168	1.6354	1.8400	1.7468	.8140
	1.7532	1.6440	1.8014	1.7846	1.7861	1.6404	1.6578	3.6146
12	1.6750	1.6022	1.8657	1.6343	1.7896	1.7447	1.1984	
	1.8454	1.8464	1.6374	1.7864	1.6374	1.6204	2.4460	
13	1.4201	1.7522	1.8635	1.8389	1.7447	1.7500	.9361	
	2.0663	1.7505	1.6365	1.6407	1.6204	1.5970	3.0431	
14	1.5422	1.6429	1.7275	1.7468	1.1984	.9361		
	1.9586	1.7888	1.6959	1.6581	2.4466	3.0431		
15	.7968	1.0174	.7808	.8140	F-SUB-Q			
	3.6818	2.9259	3.7890	3.6161	M-SUB-Q			

AT 30% POWER, 4 EFPD, THIS IS LEVEL 19 OF 24
 (LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	1.4159	1.9835	2.0456	1.7339	1.7029	1.4598	1.5840	.8140
	2.2359	1.6326	1.5889	1.8027	1.8939	2.0860	1.9862	3.7586
9	1.9835	1.8175	2.0156	1.9085	1.6440	1.7875	1.6954	1.0421
	1.6326	1.7171	1.6125	1.7005	1.8735	1.7897	1.8056	2.9837
10	2.0456	2.0156	1.9856	1.6890	1.9117	1.9064	1.7854	.8054
	1.5889	1.6131	1.6365	1.8434	1.6676	1.6693	1.7067	3.8399
11	1.7339	1.9085	1.6858	1.7500	1.6847	1.8892	1.8089	.8365
	1.8027	1.7005	1.8473	1.8276	1.8115	1.6735	1.6740	3.6756
12	1.7029	1.6440	1.9107	1.6836	1.8496	1.8153	1.2349	
	1.8939	1.8728	1.6687	1.8122	1.6723	1.6406	2.5052	
13	1.4598	1.7875	1.9064	1.8882	1.8153	1.8282	.9693	
	2.0860	1.7884	1.6699	1.6740	1.6409	1.6128	3.1128	
14	1.5840	1.6954	1.7854	1.8078	1.2349	.9693		
	1.9862	1.8048	1.7067	1.6740	2.5052	3.1128		
15	.8140	1.0432	.8054	.8365	F-SUB-Q			
	3.7586	2.9818	3.8431	3.6762	M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 4 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - POWER ESCALATION

AT 30% POWER, 4 EFPD, THIS IS LEVEL 18 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	1.4009	1.9749	2.0381	1.7372	1.7190	1.4876	1.6140	.8268
	2.3813	1.7249	1.6765	1.8882	1.9739	2.1336	2.0351	3.8637
9	1.9749	1.8164	2.0103	1.9128	1.6697	1.8121	1.7307	1.0614
	1.7249	1.8049	1.7005	1.7849	1.9390	1.8587	1.8595	3.0664
10	2.0381	2.0103	1.9846	1.6975	1.9439	1.9364	1.8261	.8204
	1.6765	1.7012	1.7220	1.9267	1.7272	1.7299	1.7552	3.9783
11	1.7372	1.9128	1.6943	1.7704	1.7168	1.9246	1.8518	.8525
	1.8882	1.7849	1.9301	1.8961	1.8672	1.7297	1.7189	3.8065
12	1.7190	1.6697	1.9428	1.7157	1.8925	1.8646	1.2606	
	1.9739	1.9389	1.7285	1.8680	1.7288	1.6871	2.5875	
13	1.4876	1.8132	1.9364	1.9246	1.8646	1.8839	.9939	
	2.1336	1.8580	1.7305	1.7304	1.6872	1.6566	3.2187	
14	1.6140	1.7307	1.8250	1.8518	1.2606	.9939		
	2.0351	1.8594	1.7552	1.7196	2.5875	3.2187		
15	.8268	1.0614	.8204	.8525	F-SUB-Q			
	3.8637	3.0622	3.9783	3.8097	M-SUB-Q			

AT 30% POWER, 4 EFPD, THIS IS LEVEL 17 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	1.3548	1.9214	1.9846	1.7072	1.6943	1.4833	1.6054	.8182
	2.6230	1.8756	1.8180	2.0302	2.1040	2.2574	2.1506	4.1094
9	1.9214	1.7811	1.9589	1.8710	1.6600	1.7918	1.7297	1.0528
	1.8756	1.9492	1.8415	1.9214	2.0693	1.9815	1.9710	3.2535
10	1.9846	1.9578	1.9364	1.6718	1.9289	1.9192	1.8261	.8161
	1.8180	1.8423	1.8611	2.0713	1.8535	1.8595	1.8688	4.2196
11	1.7072	1.8721	1.6686	1.7489	1.7125	1.9128	1.8550	.8482
	2.0302	1.9206	2.0752	2.0424	2.0025	1.8568	1.8356	4.0727
12	1.6943	1.6600	1.9278	1.7104	1.8882	1.8721	1.2563	
	2.1040	2.0684	1.8550	2.0025	1.8589	1.8043	2.7758	
13	1.4833	1.7929	1.9182	1.9117	1.8721	1.8978	.9917	
	2.2574	1.9815	1.8603	1.8575	1.8049	1.7661	3.4535	
14	1.6054	1.7297	1.8261	1.8550	1.2563	.9917		
	2.1506	1.9701	1.8688	1.8362	2.7758	3.4535		
15	.8182	1.0528	.8161	.8472	F-SUB-Q			
	4.1094	3.2512	4.2236	4.0727	M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 4 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - POWER ESCALATION

AT 30% POWER, 4 EFPD, THIS IS LEVEL 16 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	1.3184	1.8710	1.9342	1.6729	1.6675	1.4716	1.5936	.8107
	2.8692	2.0467	1.9831	2.2216	2.2427	2.3944	2.2603	4.3187
9	1.8710	1.7425	1.9107	1.8325	1.6429	1.7704	1.7179	1.0432
	2.0467	2.1365	2.0073	2.0867	2.2417	2.1263	2.1183	3.4158
10	1.9342	1.9096	1.8925	1.6418	1.9117	1.8989	1.8164	.8118
	1.9831	2.0082	2.0250	2.2610	1.9873	1.9960	2.0141	4.4876
11	1.6729	1.8325	1.6376	1.7254	1.6997	1.8978	1.8475	.8418
	2.2216	2.0867	2.2656	2.2039	2.1687	1.9960	1.9801	4.3638
12	1.6675	1.6429	1.9107	1.6975	1.8785	1.8678	1.2488	
	2.2427	2.2405	1.9882	2.1697	2.0126	1.9653	2.9927	
13	1.4716	1.7714	1.8989	1.8967	1.8678	1.8978	.9875	
	2.3944	2.1263	1.9969	1.9969	1.9661	1.9246	3.7415	
14	1.5936	1.7179	1.8164	1.8464	1.2488	.9875		
	2.2603	2.1172	2.0141	1.9810	2.9946	3.7415		
15	.8107	1.0432	.8118	.8418	F-SUB-Q			
	4.3187	3.4132	4.4876	4.3638	M-SUB-Q			

AT 30% POWER, 4 EFPD, THIS IS LEVEL 15 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	1.2520	1.7854	1.8475	1.6022	1.6054	1.4244	1.5433	.7861
	3.2582	2.3089	2.2309	2.4857	2.4484	2.6194	2.4523	4.6715
9	1.7854	1.6665	1.8250	1.7564	1.5883	1.7115	1.6622	1.0100
	2.3089	2.4180	2.2559	2.3066	2.5063	2.3043	2.3131	3.6872
10	1.8475	1.8250	1.8111	1.5744	1.8507	1.8389	1.7597	.7850
	2.2309	2.2559	2.2714	2.5515	2.2106	2.2201	2.2543	4.8378
11	1.6022	1.7564	1.5712	1.6665	1.6461	1.8400	1.7907	.8161
	2.4857	2.3066	2.5558	2.4510	2.4297	2.2159	2.2168	4.8429
12	1.6054	1.5883	1.8485	1.6440	1.8261	1.8153	1.2134	
	2.4484	2.5050	2.2116	2.4310	2.2298	2.1953	3.3167	
13	1.4244	1.7115	1.8378	1.8389	1.8143	1.8443	.9628	
	2.6194	2.3031	2.2212	2.2169	2.1953	2.1474	4.1325	
14	1.5433	1.6622	1.7586	1.7907	1.2134	.9618		
	2.4523	2.3131	2.2543	2.2168	3.3167	4.1325		
15	.7861	1.0110	.7840	.8161	F-SUB-Q			
	4.6715	3.6843	4.8378	4.8480	M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 4 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - POWER ESCALATION

AT 30% POWER, 4 EFPD, THIS IS LEVEL 14 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.2167	* 1.7350	* 1.7961	* 1.5690	* 1.5754	* 1.4094	* 1.5251	* .7733
	* 3.6014	* 2.5490	* 2.4458	* 2.6714	* 2.5873	* 2.7563	* 2.5603	* 4.8941
9	* 1.7350	* 1.6290	* 1.7757	* 1.7147	* 1.5679	* 1.6847	* 1.6483	* .9950
	* 2.5490	* 2.6498	* 2.4292	* 2.4665	* 2.6559	* 2.4292	* 2.4375	* 3.8713
10	* 1.7961	* 1.7746	* 1.7639	* 1.5444	* 1.8261	* 1.8100	* 1.7468	* .7775
	* 2.4458	* 2.4292	* 2.4522	* 2.7431	* 2.3855	* 2.3991	* 2.3819	* 5.0703
11	* 1.5690	* 1.7147	* 1.5412	* 1.6418	* 1.6290	* 1.8164	* 1.7800	* .8054
	* 2.6714	* 2.4665	* 2.7464	* 2.6953	* 2.6760	* 2.4330	* 2.4349	* 5.0981
12	* 1.5754	* 1.5679	* 1.8250	* 1.6279	* 1.8078	* 1.8057	* 1.1984	
	* 2.5873	* 2.6559	* 2.3868	* 2.6792	* 2.4561	* 2.4247	* 3.6581	
13	* 1.4094	* 1.6847	* 1.8089	* 1.8153	* 1.8057	* 1.8400	* .9510	
	* 2.7563	* 2.4292	* 2.3991	* 2.4343	* 2.4247	* 2.3672	* 4.5583	
14	* 1.5251	* 1.6483	* 1.7457	* 1.7789	* 1.1984	* .9510		
	* 2.5603	* 2.4362	* 2.3819	* 2.4349	* 3.6581	* 4.5583		
15	* .7733	* .9960	* .7765	* .8054	* F-SUB-Q			
	* 4.8941	* 3.8681	* 5.0758	* 5.1037	* M-SUB-Q			

AT 30% POWER, 4 EFPD, THIS IS LEVEL 13 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.1652	* 1.6665	* 1.7265	* 1.5144	* 1.5262	* 1.3741	* 1.4865	* .7518
	* 4.0720	* 2.8775	* 2.6464	* 2.9038	* 2.7734	* 2.9553	* 2.7234	* 5.2102
9	* 1.6665	* 1.5712	* 1.7072	* 1.6536	* 1.5262	* 1.6365	* 1.6086	* .9682
	* 2.8775	* 2.8804	* 2.6285	* 2.6629	* 2.8592	* 2.5964	* 2.6124	* 4.1223
10	* 1.7265	* 1.7061	* 1.6986	* 1.4940	* 1.7779	* 1.7597	* 1.7050	* .7572
	* 2.6464	* 2.6300	* 2.6524	* 2.9780	* 2.5511	* 2.5623	* 2.5565	* 5.3965
11	* 1.5144	* 1.6536	* 1.4908	* 1.5969	* 1.5904	* 1.7693	* 1.7393	* .7850
	* 2.9038	* 2.6629	* 2.9818	* 3.0031	* 2.9991	* 2.7061	* 2.6971	* 5.4595
12	* 1.5262	* 1.5262	* 1.7757	* 1.5894	* 1.7661	* 1.7682	* 1.1695	
	* 2.7734	* 2.8592	* 2.5511	* 3.0010	* 2.7234	* 2.7049	* 4.0579	
13	* 1.3741	* 1.6365	* 1.7586	* 1.7682	* 1.7671	* 1.8046	* .9296	
	* 2.9553	* 2.5950	* 2.5623	* 2.7076	* 2.7065	* 2.6420	* 5.0581	
14	* 1.4865	* 1.6086	* 1.7050	* 1.7382	* 1.1685	* .9296		
	* 2.7234	* 2.6124	* 2.5565	* 2.6971	* 4.0579	* 5.0581		
15	* .7518	* .9682	* .7572	* .7850	* F-SUB-Q			
	* 5.2102	* 4.1186	* 5.3965	* 5.4595	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 4 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - POWER ESCALATION

AT 30% POWER, 4 EFPD, THIS IS LEVEL 12 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.1106	* 1.5883	* 1.6472	* 1.4480	* 1.4641	* 1.3238	* 1.4330	* .7251
	* 4.1719	* 2.9630	* 2.8566	* 3.1500	* 3.0048	* 3.2015	* 2.9371	* 5.6142
9	* 1.5883	* 1.5015	* 1.6290	* 1.5819	* 1.4683	* 1.5765	* 1.5497	* .9328
	* 2.9630	* 3.1165	* 2.8393	* 2.8812	* 3.1124	* 2.8138	* 2.8376	* 4.4530
10	* 1.6472	* 1.6290	* 1.6226	* 1.4309	* 1.7125	* 1.6954	* 1.6440	* .7304
	* 2.8566	* 2.8393	* 2.8653	* 3.2302	* 2.7674	* 2.7821	* 2.7854	* 5.8449
11	* 1.4480	* 1.5819	* 1.4276	* 1.5380	* 1.5358	* 1.7072	* 1.6783	* .7572
	* 3.1500	* 2.8812	* 3.2369	* 3.0898	* 3.1021	* 2.7904	* 2.8308	* 5.9261
12	* 1.4641	* 1.4683	* 1.7104	* 1.5347	* 1.7061	* 1.7082	* 1.1288	*
	* 3.0048	* 3.1124	* 2.7690	* 3.1041	* 2.8021	* 2.8004	* 4.1868	*
13	* 1.3238	* 1.5765	* 1.6943	* 1.7061	* 1.7072	* 1.7436	* .8986	*
	* 3.2015	* 2.8138	* 2.7821	* 2.7937	* 2.8004	* 2.7399	* 5.2324	*
14	* 1.4330	* 1.5497	* 1.6440	* 1.6772	* 1.1288	* .8986	*	*
	* 2.9371	* 2.8376	* 2.7854	* 2.8308	* 4.1868	* 5.2324	*	*
15	* .7251	* .9328	* .7304	* .7572	F-SUB-Q			
	* 5.6142	* 4.4530	* 5.8449	* 5.9335	M-SUB-Q			

AT 30% POWER, 4 EFPD, THIS IS LEVEL 11 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.0785	* 1.5497	* 1.6086	* 1.4180	* 1.4384	* 1.3055	* 1.4137	* .7133
	* 4.1461	* 2.9261	* 2.7052	* 2.9819	* 2.8759	* 3.1124	* 2.8619	* 5.5282
9	* 1.5497	* 1.4683	* 1.5915	* 1.5487	* 1.4469	* 1.5519	* 1.5305	* .9189
	* 2.9261	* 2.9463	* 2.6881	* 2.7319	* 2.9875	* 2.7224	* 2.7560	* 4.3905
10	* 1.6086	* 1.5915	* 1.5872	* 1.4030	* 1.6890	* 1.6718	* 1.6258	* .7197
	* 2.7052	* 2.6881	* 2.7114	* 3.0596	* 2.6502	* 2.6866	* 2.6958	* 5.7377
11	* 1.4180	* 1.5487	* 1.3998	* 1.5144	* 1.5187	* 1.6847	* 1.6611	* .7465
	* 2.9819	* 2.7319	* 3.0656	* 3.0378	* 3.0398	* 2.7383	* 2.7690	* 5.8087
12	* 1.4384	* 1.4469	* 1.6879	* 1.5176	* 1.6868	* 1.6911	* 1.1149	*
	* 2.8759	* 2.9875	* 2.6517	* 3.0418	* 2.7415	* 2.7351	* 4.1027	*
13	* 1.3055	* 1.5519	* 1.6708	* 1.6836	* 1.6911	* 1.7297	* .8879	*
	* 3.1124	* 2.7224	* 2.6881	* 2.7399	* 2.7351	* 2.6713	* 5.1238	*
14	* 1.4137	* 1.5305	* 1.6247	* 1.6600	* 1.1138	* .8879	*	*
	* 2.8619	* 2.7560	* 2.6958	* 2.7706	* 4.1062	* 5.1238	*	*
15	* .7133	* .9189	* .7186	* .7454	F-SUB-Q			
	* 5.5282	* 4.3864	* 5.7377	* 5.8159	M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 4 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - POWER ESCALATION

AT 30% POWER, 4 EFPD, THIS IS LEVEL 10 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 1.0346	* 1.4962	* 1.5530	* 1.3762	* 1.3955	* 1.2745	* 1.3794	* .6929
	* 4.1243	* 2.8223	* 2.6031	* 2.8619	* 2.7641	* 2.9819	* 2.7415	* 5.2854
9	* 1.4962	* 1.4234	* 1.5390	* 1.4994	* 1.4105	* 1.5101	* 1.4962	* .8932
	* 2.8223	* 2.8257	* 2.5859	* 2.6264	* 2.8601	* 2.6133	* 2.6368	* 4.1981
10	* 1.5530	* 1.5380	* 1.5347	* 1.3623	* 1.6461	* 1.6268	* 1.5894	* .6994
	* 2.6031	* 2.5859	* 2.6075	* 2.9334	* 2.5370	* 2.5760	* 2.5746	* 5.5023
11	* 1.3762	* 1.4983	* 1.3591	* 1.4737	* 1.4844	* 1.6418	* 1.6258	* .7261
	* 2.8619	* 2.6264	* 2.9389	* 2.9649	* 2.9705	* 2.6850	* 2.6943	* 5.5742
12	* 1.3955	* 1.4105	* 1.6440	* 1.4833	* 1.6461	* 1.6558	* 1.0871	*
	* 2.7641	* 2.8601	* 2.5370	* 2.9743	* 2.6989	* 2.6866	* 4.0356	*
13	* 1.2745	* 1.5101	* 1.6258	* 1.6408	* 1.6558	* 1.6965	* .8654	*
	* 2.9819	* 2.6133	* 2.5774	* 2.6866	* 2.6866	* 2.6220	* 5.0576	*
14	* 1.3794	* 1.4951	* 1.5894	* 1.6247	* 1.0860	* .8654	*	*
	* 2.7415	* 2.6353	* 2.5760	* 2.6958	* 4.0356	* 5.0576	*	*
15	* .6929	* .8943	* .6994	* .7261	* F-SUB-Q			
	* 5.2854	* 4.1943	* 5.5023	* 5.5808	* M-SUB-Q			

AT 30% POWER, 4 EFPD, THIS IS LEVEL 9 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9992	* 1.4437	* 1.4994	* 1.3323	* 1.3527	* 1.2391	* 1.3398	* .6726
	* 3.9177	* 2.6652	* 2.4547	* 2.6896	* 2.5931	* 2.7854	* 2.5633	* 4.9561
9	* 1.4437	* 1.3773	* 1.4865	* 1.4501	* 1.3709	* 1.4662	* 1.4544	* .8675
	* 2.6652	* 2.6607	* 2.4394	* 2.4741	* 2.6835	* 2.4534	* 2.4676	* 3.9309
10	* 1.4994	* 1.4865	* 1.4833	* 1.3205	* 1.6001	* 1.5797	* 1.5465	* .6801
	* 2.4547	* 2.4394	* 2.4599	* 2.7576	* 2.3849	* 2.4218	* 2.4156	* 5.1351
11	* 1.3323	* 1.4501	* 1.3173	* 1.4309	* 1.4459	* 1.5958	* 1.5819	* .7058
	* 2.6896	* 2.4741	* 2.7625	* 2.7887	* 2.8155	* 2.5439	* 2.5480	* 5.2091
12	* 1.3527	* 1.3709	* 1.5979	* 1.4448	* 1.6022	* 1.6129	* 1.0560	*
	* 2.5931	* 2.6835	* 2.3861	* 2.8172	* 2.6031	* 2.5732	* 3.8283	*
13	* 1.2391	* 1.4651	* 1.5787	* 1.5947	* 1.6119	* 1.6526	* .8418	*
	* 2.7854	* 2.4534	* 2.4218	* 2.5466	* 2.5746	* 2.5139	* 4.8039	*
14	* 1.3398	* 1.4544	* 1.5455	* 1.5808	* 1.0549	* .8418	*	*
	* 2.5633	* 2.4663	* 2.4156	* 2.5494	* 3.8283	* 4.8039	*	*
15	* .6726	* .8675	* .6801	* .7047	* F-SUB-Q			
	* 4.9561	* 3.9309	* 5.1407	* 5.2149	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 4 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - POWER ESCALATION

AT 30% POWER, 4 EFPD, THIS IS LEVEL 8 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9618	* 1.3934	* 1.4480	* 1.2852	* 1.3088	* 1.1974	* 1.2970	* .6512
	* 3.6667	* 2.4952	* 2.3030	* 2.5302	* 2.4381	* 2.6279	* 2.4143	* 4.6747
9	* 1.3934	* 1.3280	* 1.4362	* 1.4019	* 1.3259	* 1.4201	* 1.4052	* .8386
	* 2.4952	* 2.4978	* 2.2872	* 2.3212	* 2.5193	* 2.3030	* 2.3246	* 3.7073
10	* 1.4480	* 1.4351	* 1.4330	* 1.2745	* 1.5497	* 1.5305	* 1.4940	* .6565
	* 2.3030	* 2.2884	* 2.3052	* 2.5902	* 2.2318	* 2.2685	* 2.2685	* 4.8436
11	* 1.2852	* 1.4009	* 1.2713	* 1.3859	* 1.3987	* 1.5465	* 1.5283	* .6822
	* 2.5302	* 2.3212	* 2.5945	* 2.6060	* 2.6442	* 2.3873	* 2.3849	* 4.8890
12	* 1.3088	* 1.3259	* 1.5476	* 1.3977	* 1.5519	* 1.5594	* 1.0217	*
	* 2.4381	* 2.5193	* 2.2328	* 2.6472	* 2.4458	* 2.4318	* 3.6048	*
13	* 1.1974	* 1.4191	* 1.5294	* 1.5444	* 1.5594	* 1.5969	* .8150	*
	* 2.6279	* 2.3030	* 2.2696	* 2.3885	* 2.4318	* 2.3776	* 4.5435	*
14	* 1.2970	* 1.4052	* 1.4930	* 1.5272	* 1.0217	* .8150	*	*
	* 2.4143	* 2.3246	* 2.2685	* 2.3861	* 3.6076	* 4.5435	*	*
15	* .6512	* .8397	* .6565	* .6822	* F-SUB-Q			
	* 4.6747	* 3.7044	* 4.8486	* 4.8890	* M-SUB-Q			

AT 30% POWER, 4 EFPD, THIS IS LEVEL 7 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9446	* 1.3709	* 1.4255	* 1.2723	* 1.2938	* 1.1856	* 1.2831	* .6405
	* 3.3453	* 2.2996	* 2.1266	* 2.3304	* 2.2554	* 2.4318	* 2.2371	* 4.3619
9	* 1.3709	* 1.3141	* 1.4148	* 1.3827	* 1.3130	* 1.3998	* 1.3923	* .8268
	* 2.2996	* 2.2973	* 2.1123	* 2.1441	* 2.3177	* 2.1305	* 2.1451	* 3.4485
10	* 1.4255	* 1.4137	* 1.4126	* 1.2616	* 1.5337	* 1.5101	* 1.4812	* .6490
	* 2.1266	* 2.1132	* 2.1276	* 2.3825	* 2.0495	* 2.0943	* 2.0841	* 4.4870
11	* 1.2723	* 1.3827	* 1.2584	* 1.3687	* 1.3859	* 1.5272	* 1.5144	* .6715
	* 2.3304	* 2.1441	* 2.3873	* 2.3885	* 2.3897	* 2.1659	* 2.1639	* 4.5216
12	* 1.2938	* 1.3130	* 1.5315	* 1.3848	* 1.5337	* 1.5465	* 1.0067	*
	* 2.2554	* 2.3177	* 2.0513	* 2.3922	* 2.2339	* 2.2191	* 3.3029	*
13	* 1.1856	* 1.3998	* 1.5090	* 1.5262	* 1.5455	* 1.5840	* .8022	*
	* 2.4318	* 2.1305	* 2.0943	* 2.1679	* 2.2202	* 2.1689	* 4.1906	*
14	* 1.2831	* 1.3923	* 1.4801	* 1.5133	* 1.0067	* .8022	*	*
	* 2.2371	* 2.1441	* 2.0850	* 2.1649	* 3.3029	* 4.1906	*	*
15	* .6405	* .8268	* .6480	* .6715	* F-SUB-Q			
	* 4.3619	* 3.4485	* 4.4913	* 4.5260	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 4 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - POWER ESCALATION

AT 30% POWER, 4 EFPD, THIS IS LEVEL 6 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .9211	* 1.3398	* 1.3955	* 1.2466	* 1.2691	* 1.1599	* 1.2552	* .6255
	* 3.0919	* 2.1334	* 1.9887	* 2.1820	* 2.1161	* 2.2951	* 2.1104	* 4.1352
9	* 1.3398	* 1.2863	* 1.3859	* 1.3559	* 1.2863	* 1.3687	* 1.3591	* .8054
	* 2.1334	* 2.1470	* 1.9745	* 2.0057	* 2.1689	* 2.0023	* 2.0213	* 3.2661
10	* 1.3955	* 1.3848	* 1.3827	* 1.2370	* 1.5015	* 1.4758	* 1.4437	* .6319
	* 1.9887	* 1.9754	* 1.9879	* 2.2265	* 1.9102	* 1.9580	* 1.9572	* 4.2398
11	* 1.2466	* 1.3548	* 1.2338	* 1.3409	* 1.3537	* 1.4930	* 1.4769	* .6533
	* 2.1820	* 2.0066	* 2.2307	* 2.2045	* 2.2202	* 2.0092	* 2.0144	* 4.2552
12	* 1.2691	* 1.2863	* 1.4994	* 1.3527	* 1.4983	* 1.5090	* .9800	*
	* 2.1161	* 2.1689	* 1.9110	* 2.2223	* 2.0486	* 2.0397	* 3.0596	*
13	* 1.1599	* 1.3677	* 1.4748	* 1.4908	* 1.5080	* 1.5433	* .7797	*
	* 2.2951	* 2.0023	* 1.9580	* 2.0109	* 2.0406	* 1.9989	* 3.8629	*
14	* 1.2552	* 1.3591	* 1.4437	* 1.4758	* .9800	* .7797	*	*
	* 2.1104	* 2.0213	* 1.9572	* 2.0152	* 3.0616	* 3.8661	*	*
15	* .6255	* .8054	* .6308	* .6522	* F-SUB-Q			
	* 4.1352	* 3.2661	* 4.2436	* 4.2590	* M-SUB-Q			

AT 30% POWER, 4 EFPD, THIS IS LEVEL 5 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* .8879	* 1.2927	* 1.3495	* 1.2038	* 1.2316	* 1.1138	* 1.2081	* .6019
	* 2.9781	* 2.0057	* 1.8940	* 2.0906	* 2.0222	* 2.2233	* 2.0397	* 4.0012
9	* 1.2927	* 1.2391	* 1.3430	* 1.3152	* 1.2402	* 1.3184	* 1.2981	* .7711
	* 2.0057	* 2.0540	* 1.8811	* 1.9126	* 2.0758	* 1.9235	* 1.9613	* 3.1734
10	* 1.3495	* 1.3420	* 1.3409	* 1.1963	* 1.4501	* 1.4234	* 1.3762	* .6030
	* 1.8940	* 1.8819	* 1.8925	* 2.1266	* 1.8170	* 1.8662	* 1.8933	* 4.1207
11	* 1.2038	* 1.3152	* 1.1931	* 1.3002	* 1.2981	* 1.4373	* 1.4062	* .6244
	* 2.0906	* 1.9133	* 2.1314	* 2.0649	* 2.0953	* 1.9009	* 1.9212	* 4.1098
12	* 1.2316	* 1.2402	* 1.4491	* 1.2970	* 1.4416	* 1.4405	* .9393	*
	* 2.0222	* 2.0758	* 1.8178	* 2.0981	* 1.9475	* 1.9540	* 2.9444	*
13	* 1.1138	* 1.3184	* 1.4223	* 1.4351	* 1.4394	* 1.4662	* .7454	*
	* 2.2233	* 1.9235	* 1.8669	* 1.9025	* 1.9548	* 1.9220	* 3.7044	*
14	* 1.2081	* 1.2981	* 1.3752	* 1.4052	* .9382	* .7454	*	*
	* 2.0397	* 1.9613	* 1.8940	* 1.9220	* 2.9444	* 3.7044	*	*
15	* .6019	* .7722	* .6019	* .6233	* F-SUB-Q			
	* 4.0012	* 3.1712	* 4.1243	* 4.1098	* M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 4 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - POWER ESCALATION

AT 30% POWER, 4 EFPD, THIS IS LEVEL 4 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	.8697	1.2649	1.3248	1.1856	1.2316	1.0924	1.1888	.5890
	2.7351	1.8956	1.7887	1.9820	1.8925	2.1266	1.9443	3.8471
9	1.2649	1.2145	1.3248	1.3045	1.2209	1.2970	1.2595	.7497
	1.8956	1.9499	1.7778	1.8010	1.9630	1.8305	1.8849	3.0656
10	1.3248	1.3238	1.3216	1.1824	1.4319	1.3944	1.3302	.5848
	1.7887	1.7785	1.7880	2.0057	1.7036	1.7644	1.8213	3.9741
11	1.1856	1.3034	1.1792	1.2959	1.2691	1.4062	1.3580	.6030
	1.9820	1.8017	2.0109	1.9064	1.9638	1.7798	1.8355	3.9574
12	1.2316	1.2209	1.4298	1.2681	1.4137	1.3998	.9104	
	1.8925	1.9630	1.7048	1.9662	1.8248	1.8573	2.7706	
13	1.0924	1.2970	1.3934	1.4052	1.3998	1.4148	.7208	
	2.1266	1.8305	1.7651	1.7819	1.8581	1.8456	3.5476	
14	1.1888	1.2595	1.3291	1.3570	.9104	.7208		
	1.9443	1.8849	1.8220	1.8370	2.7723	3.5476		
15	.5890	.7497	.5848	.6030	F-SUB-Q			
	3.8471	3.0656	3.9809	3.9607	M-SUB-Q			

AT 30% POWER, 4 EFPD, THIS IS LEVEL 3 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	.8182	1.1813	1.2359	1.1299	1.2167	1.0646	1.1406	.5580
	2.7240	1.8933	1.7969	1.9638	1.8114	2.0694	1.9212	3.8629
9	1.1813	1.1438	1.2499	1.2456	1.1685	1.2284	1.1727	.7026
	1.8933	1.9507	1.7825	1.7812	1.9299	1.8234	1.8963	3.1021
10	1.2359	1.2488	1.2424	1.1567	1.3623	1.3013	1.2231	.5516
	1.7969	1.7839	1.7948	1.9704	1.6780	1.7724	1.8566	3.9944
11	1.1299	1.2456	1.1513	1.2788	1.2113	1.3184	1.2381	.5612
	1.9638	1.7812	1.9737	1.8017	1.9330	1.7785	1.8872	4.0046
12	1.2167	1.1685	1.3602	1.2102	1.3687	1.3152	.8514	
	1.8114	1.9307	1.6792	1.9354	1.7345	1.8220	2.7657	
13	1.0646	1.2284	1.3002	1.3173	1.3141	1.3002	.6683	
	2.0694	1.8234	1.7731	1.7805	1.8227	1.8493	3.5449	
14	1.1406	1.1727	1.2231	1.2381	.8504	.6683		
	1.9212	1.8963	1.8573	1.8887	2.7674	3.5476		
15	.5580	.7026	.5505	.5601	F-SUB-Q			
	3.8629	3.1000	3.9978	4.0081	M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 4 (CONTINUED)

F-SUB-Q & M-SUB-Q VALUES (F-SUB-Q OP MARGIN) - POWER ESCALATION

AT 30% POWER, 4 EFPD, THIS IS LEVEL 2 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	.6897	.9693	1.0228	1.1599	1.0924	1.1138	1.0003	.4787
	3.0497	2.1840	2.0640	1.8100	1.9228	1.8796	2.0906	4.3099
9	.9693	1.1128	1.0239	1.0742	1.1824	1.0282	1.0678	.5944
	2.1840	1.9017	2.0703	1.9712	1.7948	2.0630	1.9829	3.4973
10	1.0228	1.0228	1.0635	1.2124	1.1545	1.0517	1.0742	.4755
	2.0640	2.0712	2.0075	1.7792	1.8744	2.0740	1.9955	4.4111
11	1.1599	1.0742	1.2070	1.1481	1.2456	1.1063	1.0217	.4766
	1.8100	1.9695	1.7853	1.9002	1.7832	2.0230	2.1510	4.4827
12	1.0924	1.1824	1.1524	1.2445	1.2070	1.2017	.7294	
	1.9228	1.7948	1.8759	1.7866	1.8551	1.8744	3.0596	
13	1.1138	1.0292	1.0507	1.1053	1.2017	1.0689	.5580	
	1.8796	2.0621	2.0749	2.0248	1.8751	2.1189	4.0115	
14	1.0003	1.0678	1.0731	1.0217	.7294	.5580		
	2.0906	1.9829	1.9964	2.1520	3.0616	4.0115		
15	.4787	.5955	.4755	.4766	F-SUB-Q			
	4.3099	3.4973	4.4111	4.4870	M-SUB-Q			

AT 30% POWER, 4 EFPD, THIS IS LEVEL 1 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	.4616	.3888	.4230	.4852	.4530	.4659	.4048	.3159
	4.3099	5.0960	4.6747	4.0531	4.3579	4.2094	4.8386	6.2000
9	.3888	.4487	.4048	.4573	.4937	.4413	.4059	.2581
	5.0960	4.4070	4.9095	4.3701	4.0218	4.4785	4.8536	7.5701
10	.4230	.4048	.4659	.5087	.4787	.4198	.4038	.3256
	4.6747	4.9095	4.3178	3.9607	4.2552	4.8941	4.9561	6.0796
11	.4852	.4562	.5066	.4841	.5184	.4498	.3770	.2206
	4.0531	4.3741	3.9708	4.2668	3.9809	4.6654	5.4322	9.1490
12	.4530	.4937	.4766	.5173	.4905	.4573	.3342	
	4.3579	4.0218	4.2706	3.9910	4.2321	4.5879	6.2663	
13	.4659	.4413	.4188	.4498	.4573	.4070	.2474	
	4.2094	4.4742	4.8992	4.6701	4.5924	5.1861	8.5026	
14	.4048	.4059	.4038	.3770	.3342	.2474		
	4.8386	4.8486	4.9561	5.4322	6.2746	8.5026		
15	.3159	.2581	.3256	.2196	F-SUB-Q			
	6.2000	7.5701	6.0796	9.1669	M-SUB-Q			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 5

M-SUB-C VALUES (F-SUB-Q RPS MARGIN) NORMAL OPERATION
THIS IS LEVEL 24 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A

8	* 3.7369	* 4.5128	* 4.5889	* 4.2816	* 5.0036	* 4.8625	* 5.5851	* 6.2928
	* 4.0719	* 4.9046	* 4.9567	* 4.7259	* 5.2389	* 5.2495	* 5.8148	* 6.6148
	* 4.1427	* 4.9649	* 5.0036	* 4.6812	* 5.1116	* 5.0808	* 5.6502	* 6.4755
	* 4.0294	* 4.8040	* 4.7842	* 4.4427	* 4.7849	* 4.7261	* 5.2672	* 6.0678
	* 3.7208	* 4.4123	* 4.3341	* 3.9444	* 4.1854	* 4.1072	* 4.5898	* 5.2894
	* 3.3114	* 3.9304	* 3.8280	* 3.4314	* 3.6189	* 3.5135	* 3.8850	* 4.3988
	* 2.9240	* 3.4801	* 3.2365	* 2.8547	* 2.9812	* 2.8687	* 3.1292	* 3.4570

9	* 4.5128	* 4.0135	* 4.5266	* 4.8291	* 4.5466	* 5.1752	* 5.1527	* 7.6176
	* 4.9046	* 4.5111	* 4.8928	* 5.1362	* 4.9385	* 5.4401	* 5.5982	* 7.9906
	* 4.9649	* 4.5397	* 4.9238	* 5.0791	* 4.8020	* 5.3283	* 5.4776	* 7.7932
	* 4.8040	* 4.3694	* 4.7388	* 4.8091	* 4.4854	* 4.9986	* 5.1307	* 7.2979
	* 4.4123	* 3.9913	* 4.3194	* 4.2468	* 3.9376	* 4.3963	* 4.5017	* 6.3531
	* 3.9304	* 3.5519	* 3.8374	* 3.6950	* 3.4149	* 3.8088	* 3.8707	* 5.3104
	* 3.4801	* 3.1547	* 3.2675	* 3.0726	* 2.8440	* 3.1092	* 3.1345	* 4.1638

10	* 4.5889	* 4.5267	* 4.7372	* 4.3747	* 4.9218	* 5.2143	* 5.1085	* 6.3650
	* 4.9567	* 4.8928	* 5.0712	* 4.7889	* 5.1258	* 5.4736	* 5.5569	* 6.6946
	* 5.0036	* 4.9239	* 5.0086	* 4.7017	* 4.9883	* 5.3602	* 5.4580	* 6.5392
	* 4.7842	* 4.7388	* 4.7130	* 4.4045	* 4.6623	* 5.0499	* 5.1216	* 6.1460
	* 4.3341	* 4.3194	* 4.1881	* 3.8565	* 4.0789	* 4.4822	* 4.5114	* 5.3823
	* 3.8280	* 3.8375	* 3.6595	* 3.3393	* 3.5423	* 3.9402	* 3.9455	* 4.6159
	* 3.2365	* 3.2675	* 3.1856	* 2.9216	* 3.0707	* 3.3349	* 3.2650	* 3.6266

11	* 4.2816	* 4.8290	* 4.3747	* 4.9030	* 4.5112	* 5.1028	* 5.3149	* 8.8761
	* 4.7259	* 5.1362	* 4.7889	* 5.0962	* 4.8640	* 5.3262	* 5.7972	* 9.3103
	* 4.6812	* 5.0711	* 4.7017	* 4.9376	* 4.7135	* 5.1918	* 5.6936	* 9.1169
	* 4.4427	* 4.8091	* 4.4045	* 4.6192	* 4.3889	* 4.8745	* 5.3536	* 8.5420
	* 3.9444	* 4.2468	* 3.8598	* 4.0380	* 3.8144	* 4.2912	* 4.7198	* 7.4523
	* 3.4314	* 3.6950	* 3.3393	* 3.4883	* 3.2851	* 3.7344	* 4.1306	* 6.3297
	* 2.8547	* 3.0700	* 2.9216	* 3.0334	* 2.8462	* 3.2135	* 3.5271	* 5.1144

12	* 5.0036	* 4.5467	* 4.9218	* 4.5112	* 4.8912	* 4.7971	* 6.2171	*
	* 5.2389	* 4.9308	* 5.1259	* 4.8640	* 5.0613	* 5.1927	* 6.5513	*
	* 5.1116	* 4.8020	* 4.9883	* 4.7135	* 4.8802	* 5.0600	* 6.4365	*
	* 4.7849	* 4.4855	* 4.6623	* 4.3889	* 4.5318	* 4.7268	* 6.0822	*
	* 4.1854	* 3.9342	* 4.0826	* 3.8144	* 3.9170	* 4.1280	* 5.3953	*
	* 3.6189	* 3.4150	* 3.5423	* 3.2851	* 3.3506	* 3.5813	* 4.7057	*
	* 2.9812	* 2.8415	* 3.0707	* 2.8462	* 2.8442	* 3.0522	* 3.9611	*

13	* 4.8625	* 5.1751	* 5.2142	* 5.1028	* 4.7971	* 5.2852	* 8.1320	*
	* 5.2495	* 5.4309	* 5.4734	* 5.3262	* 5.1927	* 5.7054	* 8.5396	*
	* 5.0808	* 5.3195	* 5.3601	* 5.1918	* 5.0600	* 5.5599	* 8.3561	*
	* 4.7261	* 4.9908	* 5.0498	* 4.8745	* 4.7268	* 5.1909	* 7.8525	*
	* 4.1072	* 4.3904	* 4.4821	* 4.2912	* 4.1280	* 4.5160	* 6.8442	*
	* 3.5135	* 3.8044	* 3.9401	* 3.7344	* 3.5813	* 3.9129	* 5.8395	*
	* 2.8687	* 3.1063	* 3.3380	* 3.2135	* 3.0522	* 3.2867	* 4.7827	*

14	* 5.5851	* 5.1527	* 5.0998	* 5.3149	* 6.2170	* 8.1319	*	*
	* 5.8148	* 5.5982	* 5.5569	* 5.7972	* 6.5512	* 8.5395	*	*
	* 5.6502	* 5.4776	* 5.4485	* 5.6936	* 6.4364	* 8.3560	*	*
	* 5.2672	* 5.1307	* 5.1216	* 5.3536	* 6.0821	* 7.8524	*	*
	* 4.5898	* 4.4973	* 4.5068	* 4.7198	* 5.3952	* 6.8441	*	*
	* 3.8850	* 3.8708	* 3.9455	* 4.1306	* 4.7056	* 5.8394	*	*
	* 3.1292	* 3.1315	* 3.2650	* 3.5271	* 3.9611	* 4.7827	*	*

15	* 6.2928	* 7.5996	* 6.3650	* 8.8763	* 4 EFPD 118 % POWER			
	* 6.6148	* 7.9708	* 6.6813	* 9.3105	* 50 EFPD 118 % POWER			
	* 6.4755	* 7.7932	* 6.5392	* 9.1170	* 100 EFPD 118 % POWER			
	* 6.0678	* 7.2979	* 6.1460	* 8.5421	* 150 EFPD 118 % POWER			
	* 5.2894	* 6.3408	* 5.3797	* 7.4524	* 250 EFPD 118 % POWER			
	* 4.3988	* 5.3105	* 4.6096	* 6.3298	* 350 EFPD 118 % POWER			
	* 3.4570	* 4.1590	* 3.6266	* 5.1144	* 475 EFPD 118 % POWER			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 5 (CONTINUED)

THIS IS LEVEL 23 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A

8	* 2.6291	* 2.0928	* 2.0659	* 2.2541	* 2.4231	* 2.6548	* 2.6224	* 4.5673
	* 2.8522	* 2.2535	* 2.2265	* 2.4558	* 2.5153	* 2.8000	* 2.7359	* 4.7612
	* 2.9147	* 2.2882	* 2.2604	* 2.4330	* 2.4549	* 2.6802	* 2.6862	* 4.6633
	* 2.8614	* 2.2405	* 2.2124	* 2.3313	* 2.3078	* 2.4944	* 2.5572	* 4.4083
	* 2.7184	* 2.1442	* 2.1086	* 2.1514	* 2.0785	* 2.2164	* 2.3239	* 3.9520
	* 2.5707	* 2.0616	* 2.0132	* 1.9392	* 1.9082	* 1.9682	* 2.0969	* 3.4636
	* 2.3937	* 1.9709	* 1.8324	* 1.6739	* 1.6854	* 1.6802	* 1.8146	* 2.8845

9	* 2.0928	* 2.1355	* 2.0878	* 2.2130	* 2.4223	* 2.4213	* 2.4456	* 3.7747
	* 2.2525	* 2.2567	* 2.2427	* 2.3457	* 2.5938	* 2.5221	* 2.6218	* 3.9297
	* 2.2882	* 2.3577	* 2.2679	* 2.3337	* 2.5240	* 2.4712	* 2.5395	* 3.8451
	* 2.2405	* 2.2807	* 2.2051	* 2.2430	* 2.3846	* 2.3497	* 2.3959	* 3.6380
	* 2.1442	* 2.1439	* 2.0853	* 2.0828	* 2.1376	* 2.1530	* 2.1706	* 3.2726
	* 2.0616	* 1.9889	* 1.9941	* 1.9477	* 1.9456	* 1.9998	* 1.9944	* 2.8988
	* 1.9709	* 1.8152	* 1.8237	* 1.7279	* 1.6655	* 1.7514	* 1.7294	* 2.4365

10	* 2.0659	* 2.0878	* 2.1369	* 2.3055	* 2.2561	* 2.3117	* 2.3575	* 4.8400
	* 2.2265	* 2.2427	* 2.2781	* 2.4967	* 2.3701	* 2.4224	* 2.5389	* 5.0207
	* 2.2604	* 2.2679	* 2.2869	* 2.4534	* 2.3461	* 2.3907	* 2.4756	* 4.9046
	* 2.2124	* 2.2065	* 2.2200	* 2.3358	* 2.2397	* 2.2877	* 2.3496	* 4.6358
	* 2.1086	* 2.0862	* 2.0835	* 2.1026	* 2.0485	* 2.1242	* 2.1524	* 4.1720
	* 2.0132	* 1.9941	* 1.9524	* 1.9018	* 1.9024	* 2.0080	* 2.0139	* 3.7513
	* 1.8324	* 1.8237	* 1.7886	* 1.7115	* 1.7508	* 1.8490	* 1.7751	* 3.1046

11	* 2.2541	* 2.2130	* 2.3091	* 2.3626	* 2.3853	* 2.3146	* 2.3237	* 4.5629
	* 2.4558	* 2.3457	* 2.4987	* 2.4489	* 2.5574	* 2.4368	* 2.5197	* 4.7565
	* 2.4330	* 2.3321	* 2.4553	* 2.3887	* 2.4913	* 2.4061	* 2.4780	* 4.6650
	* 2.3313	* 2.2430	* 2.3375	* 2.2447	* 2.3291	* 2.2923	* 2.3686	* 4.4268
	* 2.1514	* 2.0828	* 2.1044	* 2.0141	* 2.0732	* 2.1057	* 2.1930	* 4.0024
	* 1.9392	* 1.9466	* 1.9029	* 1.8585	* 1.8817	* 1.9640	* 2.0628	* 3.6370
	* 1.6739	* 1.7270	* 1.7123	* 1.7372	* 1.6982	* 1.8253	* 1.9024	* 3.1389

12	* 2.4231	* 2.4203	* 2.2562	* 2.3853	* 2.3082	* 2.2927	* 3.2792	*
	* 2.5153	* 2.5938	* 2.3701	* 2.5574	* 2.3879	* 2.4416	* 3.4265	*
	* 2.4549	* 2.5240	* 2.3461	* 2.4913	* 2.3274	* 2.3617	* 3.3757	*
	* 2.3078	* 2.3829	* 2.2397	* 2.3291	* 2.2063	* 2.2265	* 3.2247	*
	* 2.0785	* 2.1372	* 2.0493	* 2.0732	* 1.9815	* 2.0130	* 2.9611	*
	* 1.9082	* 1.9441	* 1.9024	* 1.8817	* 1.8222	* 1.8594	* 2.7425	*
	* 1.6854	* 1.6639	* 1.7508	* 1.6982	* 1.6802	* 1.7063	* 2.4882	*

13	* 2.6548	* 2.4196	* 2.3117	* 2.3130	* 2.2927	* 2.3158	* 4.0404	*
	* 2.8000	* 2.5202	* 2.4224	* 2.4368	* 2.4416	* 2.4932	* 4.2176	*
	* 2.6802	* 2.4712	* 2.3907	* 2.4061	* 2.3617	* 2.4405	* 4.1506	*
	* 2.4944	* 2.3497	* 2.2877	* 2.2923	* 2.2265	* 2.3183	* 3.9519	*
	* 2.2164	* 2.1520	* 2.1232	* 2.1057	* 2.0130	* 2.1220	* 3.5906	*
	* 1.9682	* 1.9986	* 2.0080	* 1.9640	* 1.8594	* 1.9700	* 3.2709	*
	* 1.6802	* 1.7505	* 1.8481	* 1.8253	* 1.7063	* 1.8100	* 2.8841	*

14	* 2.6224	* 2.4456	* 2.3575	* 2.3237	* 3.2792	* 4.0404	*	*
	* 2.7359	* 2.6196	* 2.5389	* 2.5177	* 3.4265	* 4.2176	*	*
	* 2.6862	* 2.5395	* 2.4756	* 2.4761	* 3.3757	* 4.1506	*	*
	* 2.5572	* 2.3959	* 2.3496	* 2.3686	* 3.2247	* 3.9518	*	*
	* 2.3239	* 2.1707	* 2.1520	* 2.1920	* 2.9611	* 3.5906	*	*
	* 2.0969	* 1.9944	* 2.0139	* 2.0628	* 2.7425	* 3.2709	*	*
	* 1.8146	* 1.7294	* 1.7750	* 1.9024	* 2.4882	* 2.8817	*	*

15	* 4.5673	* 3.7705	* 4.8331	* 4.5629	* 4 EFPD	118 % POWER		
	* 4.7612	* 3.9252	* 5.0207	* 4.7565	* 50 EFPD	118 % POWER		
	* 4.6633	* 3.8408	* 4.9047	* 4.6650	* 100 EFPD	118 % POWER		
	* 4.4083	* 3.6341	* 4.6359	* 4.4268	* 150 EFPD	118 % POWER		
	* 3.9520	* 3.2694	* 4.1720	* 4.0024	* 250 EFPD	118 % POWER		
	* 3.4636	* 2.8963	* 3.7511	* 3.6371	* 350 EFPD	118 % POWER		
	* 2.8845	* 2.4348	* 3.1043	* 3.1389	* 475 EFPD	118 % POWER		

Catawba 2 Cycle 11 Core Operating Limits Report

CNEI-0400-25
Appendix A, Rev. 17
Page 292 of 331

TABLE 5 (CONTINUED)

M-SUB-C VALUES (F-SUB-Q RPS MARGIN) NORMAL OPERATION								
THIS IS LEVEL 22 OF 24								
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)								
	H	G	F	E	D	C	B	A

8	* 2.1978	* 1.7079	* 1.6778	* 1.8087	* 2.0178	* 2.1386	* 2.1441	* 3.7432
	* 2.3780	* 1.8354	* 1.8047	* 1.9547	* 2.0557	* 2.2230	* 2.2253	* 3.8786
	* 2.4352	* 1.8752	* 1.8432	* 1.9356	* 1.9875	* 2.1187	* 2.1828	* 3.8007
	* 2.4094	* 1.8567	* 1.8253	* 1.8702	* 1.8778	* 1.9823	* 2.0773	* 3.6210
	* 2.3462	* 1.8284	* 1.7801	* 1.7408	* 1.7297	* 1.7912	* 1.9191	* 3.3096
	* 2.2909	* 1.8124	* 1.7524	* 1.6262	* 1.6478	* 1.6448	* 1.7976	* 3.0003
	* 2.2273	* 1.8034	* 1.6565	* 1.4719	* 1.5111	* 1.4729	* 1.6260	* 2.5911

9	* 1.7079	* 1.7165	* 1.7025	* 1.8055	* 1.9271	* 1.9413	* 1.9075	* 3.0436
	* 1.8354	* 1.8782	* 1.8213	* 1.8991	* 2.0448	* 2.0130	* 2.0301	* 3.1467
	* 1.8752	* 1.8828	* 1.8514	* 1.8937	* 1.9885	* 1.9820	* 1.9731	* 3.0869
	* 1.8567	* 1.8373	* 1.8195	* 1.8369	* 1.8948	* 1.9046	* 1.8801	* 2.9472
	* 1.8284	* 1.7505	* 1.7684	* 1.7443	* 1.7286	* 1.7948	* 1.7555	* 2.7272
	* 1.8124	* 1.6764	* 1.7423	* 1.6792	* 1.6213	* 1.7191	* 1.6795	* 2.5093
	* 1.8034	* 1.6161	* 1.6543	* 1.5511	* 1.4654	* 1.5652	* 1.5262	* 2.1951

10	* 1.6778	* 1.7025	* 1.7326	* 1.8516	* 1.8398	* 1.8416	* 1.8280	* 3.9369
	* 1.8047	* 1.8213	* 1.8435	* 1.9854	* 1.9168	* 1.9268	* 1.9518	* 4.0572
	* 1.8432	* 1.8514	* 1.8618	* 1.9495	* 1.8866	* 1.9146	* 1.9134	* 3.9680
	* 1.8253	* 1.8195	* 1.8266	* 1.8708	* 1.8115	* 1.8556	* 1.8389	* 3.7821
	* 1.7801	* 1.7684	* 1.7436	* 1.6970	* 1.7061	* 1.7757	* 1.7420	* 3.4830
	* 1.7524	* 1.7432	* 1.6836	* 1.5917	* 1.6431	* 1.7358	* 1.6870	* 3.2274
	* 1.6565	* 1.6551	* 1.6085	* 1.5070	* 1.5747	* 1.6620	* 1.5644	* 2.7719

11	* 1.8087	* 1.8055	* 1.8550	* 1.9636	* 1.8896	* 1.8637	* 1.7933	* 3.7229
	* 1.9547	* 1.8991	* 1.9879	* 1.9983	* 2.0080	* 1.9420	* 1.9343	* 3.8593
	* 1.9356	* 1.8937	* 1.9520	* 1.9317	* 1.9574	* 1.9197	* 1.9155	* 3.8002
	* 1.8702	* 1.8369	* 1.8719	* 1.8249	* 1.8458	* 1.8491	* 1.8551	* 3.6418
	* 1.7408	* 1.7440	* 1.6987	* 1.6804	* 1.6848	* 1.7475	* 1.7811	* 3.3800
	* 1.6262	* 1.6792	* 1.5927	* 1.6097	* 1.5702	* 1.6920	* 1.7353	* 3.1726
	* 1.4719	* 1.5504	* 1.5070	* 1.5715	* 1.5025	* 1.6463	* 1.6837	* 2.8479

12	* 2.0178	* 1.9259	* 1.8398	* 1.8896	* 1.8727	* 1.7839	* 2.6537	*
	* 2.0557	* 2.0435	* 1.9168	* 2.0080	* 1.9386	* 1.8804	* 2.7629	*
	* 1.9875	* 1.9885	* 1.8866	* 1.9574	* 1.8800	* 1.8259	* 2.7385	*
	* 1.8778	* 1.8948	* 1.8125	* 1.8458	* 1.7843	* 1.7411	* 2.6411	*
	* 1.7297	* 1.7277	* 1.7069	* 1.6854	* 1.6506	* 1.6284	* 2.4913	*
	* 1.6478	* 1.6206	* 1.6439	* 1.5704	* 1.5822	* 1.5697	* 2.3827	*
	* 1.5111	* 1.4635	* 1.5747	* 1.5025	* 1.5415	* 1.5236	* 2.2559	*

13	* 2.1386	* 1.9402	* 1.8416	* 1.8637	* 1.7839	* 1.7728	* 3.2246	*
	* 2.2230	* 2.0118	* 1.9268	* 1.9420	* 1.8804	* 1.8999	* 3.3575	*
	* 2.1187	* 1.9820	* 1.9146	* 1.9208	* 1.8259	* 1.8715	* 3.3221	*
	* 1.9823	* 1.9046	* 1.8556	* 1.8491	* 1.7411	* 1.8032	* 3.1998	*
	* 1.7912	* 1.7941	* 1.7757	* 1.7482	* 1.6286	* 1.7161	* 2.9942	*
	* 1.6448	* 1.7182	* 1.7358	* 1.6920	* 1.5697	* 1.6633	* 2.8221	*
	* 1.4729	* 1.5645	* 1.6620	* 1.6463	* 1.5236	* 1.6128	* 2.6064	*

14	* 2.1441	* 1.9076	* 1.8269	* 1.7933	* 2.6537	* 3.2246	*	*
	* 2.2253	* 2.0302	* 1.9506	* 1.9343	* 2.7629	* 3.3575	*	*
	* 2.1828	* 1.9718	* 1.9134	* 1.9155	* 2.7385	* 3.3189	*	*
	* 2.0773	* 1.8790	* 1.8389	* 1.8551	* 2.6411	* 3.1998	*	*
	* 1.9191	* 1.7555	* 1.7420	* 1.7811	* 2.4913	* 2.9942	*	*
	* 1.7976	* 1.6786	* 1.6864	* 1.7353	* 2.3827	* 2.8221	*	*
	* 1.6260	* 1.5262	* 1.5644	* 1.6837	* 2.2559	* 2.6063	*	*

15	* 3.7432	* 3.0409	* 3.9367	* 3.7229	* 4 EFPD 118 % POWER			
	* 3.8786	* 3.1438	* 4.0570	* 3.8637	* 50 EFPD 118 % POWER			
	* 3.8007	* 3.0840	* 3.9678	* 3.8002	* 100 EFPD 118 % POWER			
	* 3.6210	* 2.9446	* 3.7819	* 3.6417	* 150 EFPD 118 % POWER			
	* 3.3096	* 2.7250	* 3.4839	* 3.3800	* 250 EFPD 118 % POWER			
	* 3.0003	* 2.5074	* 3.2273	* 3.1725	* 350 EFPD 118 % POWER			
	* 2.5911	* 2.1937	* 2.7718	* 2.8479	* 475 EFPD 118 % POWER			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 5 (CONTINUED)

THIS IS LEVEL 21 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A

8	* 2.0023	* 1.5348	* 1.5058	* 1.6005	* 1.7905	* 1.8573	* 1.8964	* 3.3512
	* 2.1643	* 1.6500	* 1.6204	* 1.7106	* 1.8068	* 1.9157	* 1.9447	* 3.4557
	* 2.2269	* 1.6941	* 1.6647	* 1.6960	* 1.7452	* 1.8204	* 1.9017	* 3.3961
	* 2.2220	* 1.6935	* 1.6592	* 1.6510	* 1.6603	* 1.7134	* 1.8234	* 3.2601
	* 2.2106	* 1.7009	* 1.6400	* 1.5258	* 1.5583	* 1.5616	* 1.7174	* 3.0357
	* 2.2088	* 1.7232	* 1.6519	* 1.4661	* 1.5170	* 1.4819	* 1.6580	* 2.8202
	* 2.1949	* 1.7698	* 1.6079	* 1.3932	* 1.4470	* 1.3839	* 1.5431	* 2.5001

9	* 1.5348	* 1.5332	* 1.5278	* 1.6123	* 1.6790	* 1.7109	* 1.6364	* 2.6844
	* 1.6500	* 1.6511	* 1.6339	* 1.6900	* 1.7651	* 1.7694	* 1.7280	* 2.7643
	* 1.6941	* 1.6573	* 1.6665	* 1.6911	* 1.7191	* 1.7493	* 1.6865	* 2.7227
	* 1.6935	* 1.6306	* 1.6521	* 1.6524	* 1.6447	* 1.6958	* 1.6226	* 2.6259
	* 1.7009	* 1.5660	* 1.6326	* 1.5802	* 1.5202	* 1.6269	* 1.5578	* 2.4808
	* 1.7232	* 1.5490	* 1.6468	* 1.5543	* 1.4578	* 1.5831	* 1.5302	* 2.3542
	* 1.7698	* 1.5500	* 1.6111	* 1.4916	* 1.3835	* 1.4992	* 1.4399	* 2.1148

10	* 1.5058	* 1.5278	* 1.5525	* 1.6335	* 1.6222	* 1.6197	* 1.5658	* 3.4629
	* 1.6204	* 1.6339	* 1.6500	* 1.7340	* 1.6756	* 1.6931	* 1.6570	* 3.5515
	* 1.6647	* 1.6665	* 1.6740	* 1.7020	* 1.6544	* 1.6915	* 1.6345	* 3.4892
	* 1.6592	* 1.6521	* 1.6554	* 1.6210	* 1.6035	* 1.6569	* 1.5897	* 3.3568
	* 1.6400	* 1.6332	* 1.5813	* 1.4891	* 1.5422	* 1.6222	* 1.5529	* 3.1616
	* 1.6519	* 1.6470	* 1.5680	* 1.4368	* 1.5266	* 1.6270	* 1.5423	* 2.9976
	* 1.6079	* 1.6112	* 1.5520	* 1.4273	* 1.5103	* 1.6058	* 1.4847	* 2.6529

11	* 1.6005	* 1.6123	* 1.6361	* 1.7396	* 1.6382	* 1.6318	* 1.5335	* 3.2858
	* 1.7106	* 1.6900	* 1.7360	* 1.7533	* 1.7262	* 1.6943	* 1.6459	* 3.3929
	* 1.6960	* 1.6911	* 1.7047	* 1.6918	* 1.6736	* 1.6817	* 1.6424	* 3.3530
	* 1.6510	* 1.6524	* 1.6243	* 1.6089	* 1.5880	* 1.6330	* 1.6117	* 3.2497
	* 1.5258	* 1.5794	* 1.4911	* 1.5176	* 1.4741	* 1.5816	* 1.5948	* 3.1031
	* 1.4661	* 1.5535	* 1.4380	* 1.4922	* 1.4150	* 1.5722	* 1.5937	* 2.9944
	* 1.3932	* 1.4909	* 1.4273	* 1.5194	* 1.4267	* 1.5870	* 1.6073	* 2.7597

12	* 1.7905	* 1.6781	* 1.6222	* 1.6391	* 1.6402	* 1.5254	* 2.3307	*
	* 1.8068	* 1.7651	* 1.7356	* 1.7262	* 1.6780	* 1.5875	* 2.4183	*
	* 1.7452	* 1.7182	* 1.6552	* 1.6736	* 1.6302	* 1.5498	* 2.4082	*
	* 1.6603	* 1.6448	* 1.6043	* 1.5880	* 1.5603	* 1.4946	* 2.3494	*
	* 1.5583	* 1.5197	* 1.5429	* 1.4751	* 1.4830	* 1.4443	* 2.2774	*
	* 1.5170	* 1.4560	* 1.5273	* 1.4156	* 1.4666	* 1.4406	* 2.2409	*
	* 1.4470	* 1.3824	* 1.5103	* 1.4273	* 1.4852	* 1.4548	* 2.1902	*

13	* 1.8573	* 1.7101	* 1.6197	* 1.6318	* 1.5254	* 1.4959	* 2.8192	*
	* 1.9157	* 1.7684	* 1.6931	* 1.6951	* 1.5875	* 1.5970	* 2.9280	*
	* 1.8204	* 1.7484	* 1.6915	* 1.6817	* 1.5498	* 1.5841	* 2.9155	*
	* 1.7134	* 1.6950	* 1.6569	* 1.6330	* 1.4953	* 1.5509	* 2.8413	*
	* 1.5616	* 1.6261	* 1.6222	* 1.5816	* 1.4443	* 1.5238	* 2.7342	*
	* 1.4819	* 1.5823	* 1.6270	* 1.5727	* 1.4406	* 1.5247	* 2.6547	*
	* 1.3839	* 1.4985	* 1.6058	* 1.5870	* 1.4548	* 1.5392	* 2.5301	*

14	* 1.8964	* 1.6364	* 1.5650	* 1.5327	* 2.3307	* 2.8192	*	*
	* 1.9447	* 1.7280	* 1.6570	* 1.6459	* 2.4183	* 2.9280	*	*
	* 1.9017	* 1.6856	* 1.6345	* 1.6424	* 2.4083	* 2.9155	*	*
	* 1.8234	* 1.6226	* 1.5897	* 1.6125	* 2.3495	* 2.8414	*	*
	* 1.7174	* 1.5571	* 1.5529	* 1.5948	* 2.2774	* 2.7343	*	*
	* 1.6580	* 1.5296	* 1.5423	* 1.5937	* 2.2410	* 2.6547	*	*
	* 1.5431	* 1.4393	* 1.4847	* 1.6073	* 2.1902	* 2.5301	*	*

15	* 3.3512	* 2.6822	* 3.4663	* 3.2857	* 4 EFPD 118 % POWER			
	* 3.4557	* 2.7621	* 3.5513	* 3.3929	* 50 EFPD 118 % POWER			
	* 3.3961	* 2.7205	* 3.4890	* 3.3564	* 100 EFPD 118 % POWER			
	* 3.2601	* 2.6238	* 3.3566	* 3.2497	* 150 EFPD 118 % POWER			
	* 3.0357	* 2.4790	* 3.1614	* 3.1031	* 250 EFPD 118 % POWER			
	* 2.8202	* 2.3525	* 2.9974	* 2.9962	* 350 EFPD 118 % POWER			
	* 2.5001	* 2.1134	* 2.6527	* 2.7596	* 475 EFPD 118 % POWER			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 5 (CONTINUED)

M-SUB-C VALUES (F-SUB-Q RPS MARGIN) NORMAL OPERATION								
THIS IS LEVEL 20 OF 24								
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)								
	H	G	F	E	D	C	B	A

8	* 1.9783	* 1.4979	* 1.4683	* 1.5504	* 1.7234	* 1.7591	* 1.8065	* 3.2425
	* 2.1350	* 1.6097	* 1.5793	* 1.6398	* 1.7244	* 1.8061	* 1.8400	* 3.3273
	* 2.2058	* 1.6607	* 1.6285	* 1.6259	* 1.6666	* 1.7133	* 1.8026	* 3.2792
	* 2.2169	* 1.6742	* 1.6273	* 1.5850	* 1.5937	* 1.6222	* 1.7421	* 3.1738
	* 2.2432	* 1.7049	* 1.6211	* 1.4647	* 1.5126	* 1.4928	* 1.6668	* 3.0022
	* 2.2551	* 1.7586	* 1.6550	* 1.4325	* 1.4984	* 1.4439	* 1.6394	* 2.8404
	* 2.2782	* 1.8348	* 1.6562	* 1.4116	* 1.4766	* 1.3978	* 1.5633	* 2.5581

9	* 1.4979	* 1.4901	* 1.4892	* 1.5642	* 1.6032	* 1.6392	* 1.5486	* 2.5786
	* 1.6097	* 1.5866	* 1.5907	* 1.6334	* 1.6672	* 1.6886	* 1.6174	* 2.6420
	* 1.6607	* 1.5968	* 1.6255	* 1.6369	* 1.6243	* 1.6746	* 1.5840	* 2.6120
	* 1.6742	* 1.5809	* 1.6212	* 1.6053	* 1.5577	* 1.6375	* 1.5399	* 2.5419
	* 1.7049	* 1.5319	* 1.6164	* 1.5384	* 1.4551	* 1.5806	* 1.5046	* 2.4423
	* 1.7586	* 1.5523	* 1.6555	* 1.5376	* 1.4205	* 1.5644	* 1.5040	* 2.3649
	* 1.8348	* 1.5854	* 1.6605	* 1.5261	* 1.4008	* 1.5293	* 1.4547	* 2.1651

10	* 1.4683	* 1.4892	* 1.5100	* 1.5798	* 1.5473	* 1.5482	* 1.4790	* 3.3135
	* 1.5793	* 1.5907	* 1.6013	* 1.6560	* 1.5914	* 1.6143	* 1.5489	* 3.3806
	* 1.6285	* 1.6255	* 1.6303	* 1.6140	* 1.5769	* 1.6216	* 1.5359	* 3.3336
	* 1.6273	* 1.6220	* 1.6012	* 1.5335	* 1.5405	* 1.6027	* 1.5105	* 3.2368
	* 1.6211	* 1.6165	* 1.5489	* 1.4337	* 1.5080	* 1.5993	* 1.5048	* 3.0992
	* 1.6550	* 1.6556	* 1.5700	* 1.4172	* 1.5246	* 1.6375	* 1.5242	* 2.9754
	* 1.6562	* 1.6613	* 1.5908	* 1.4481	* 1.5443	* 1.6471	* 1.5065	* 2.7110

11	* 1.5504	* 1.5635	* 1.5830	* 1.6687	* 1.5611	* 1.5526	* 1.4446	* 3.1512
	* 1.6398	* 1.6334	* 1.6586	* 1.6648	* 1.6100	* 1.6092	* 1.5399	* 3.2402
	* 1.6259	* 1.6369	* 1.6173	* 1.6071	* 1.5650	* 1.5965	* 1.5465	* 3.2220
	* 1.5850	* 1.6053	* 1.5372	* 1.5393	* 1.4971	* 1.5627	* 1.5366	* 3.1555
	* 1.4647	* 1.5384	* 1.4360	* 1.4782	* 1.4118	* 1.5475	* 1.5581	* 3.0815
	* 1.4325	* 1.5369	* 1.4190	* 1.4897	* 1.3943	* 1.5752	* 1.5918	* 3.0338
	* 1.4116	* 1.5253	* 1.4486	* 1.5620	* 1.4532	* 1.6300	* 1.6392	* 2.8428

12	* 1.7234	* 1.6025	* 1.5480	* 1.5610	* 1.5515	* 1.4370	* 2.2227	*
	* 1.7244	* 1.6664	* 1.5922	* 1.6109	* 1.5801	* 1.4756	* 2.3005	*
	* 1.6666	* 1.6243	* 1.5776	* 1.5658	* 1.5386	* 1.4471	* 2.3036	*
	* 1.5937	* 1.5577	* 1.5412	* 1.4971	* 1.4848	* 1.4115	* 2.2706	*
	* 1.5126	* 1.4539	* 1.5094	* 1.4129	* 1.4453	* 1.3996	* 2.2553	*
	* 1.4984	* 1.4188	* 1.5260	* 1.3950	* 1.4626	* 1.4337	* 2.2687	*
	* 1.4766	* 1.3997	* 1.5443	* 1.4537	* 1.5230	* 1.4839	* 2.2610	*

13	* 1.7591	* 1.6392	* 1.5482	* 1.5526	* 1.4370	* 1.3964	* 2.6858	*
	* 1.8061	* 1.6878	* 1.6151	* 1.6092	* 1.4763	* 1.4815	* 2.7844	*
	* 1.7133	* 1.6746	* 1.6216	* 1.5965	* 1.4471	* 1.4793	* 2.7867	*
	* 1.6222	* 1.6367	* 1.6027	* 1.5635	* 1.4115	* 1.4677	* 2.7476	*
	* 1.4928	* 1.5799	* 1.5993	* 1.5480	* 1.3996	* 1.4812	* 2.7115	*
	* 1.4439	* 1.5630	* 1.6375	* 1.5752	* 1.4337	* 1.5189	* 2.6903	*
	* 1.3978	* 1.5285	* 1.6464	* 1.6308	* 1.4846	* 1.5708	* 2.6173	*

14	* 1.8065	* 1.5479	* 1.4790	* 1.4446	* 2.2227	* 2.6858	*	*
	* 1.8400	* 1.6174	* 1.5482	* 1.5399	* 2.3005	* 2.7821	*	*
	* 1.8026	* 1.5840	* 1.5359	* 1.5465	* 2.3036	* 2.7867	*	*
	* 1.7421	* 1.5392	* 1.5105	* 1.5374	* 2.2706	* 2.7476	*	*
	* 1.6668	* 1.5039	* 1.5042	* 1.5580	* 2.2553	* 2.7115	*	*
	* 1.6394	* 1.5035	* 1.5241	* 1.5918	* 2.2687	* 2.6903	*	*
	* 1.5633	* 1.4542	* 1.5065	* 1.6392	* 2.2611	* 2.6174	*	*

15	* 3.2425	* 2.5766	* 3.3133	* 3.1512	* 4 EFPD	118 %	POWER	*
	* 3.3273	* 2.6399	* 3.3838	* 3.2433	* 50 EFPD	118 %	POWER	*
	* 3.2792	* 2.6100	* 3.3334	* 3.2219	* 100 EFPD	118 %	POWER	*
	* 3.1738	* 2.5400	* 3.2366	* 3.1554	* 150 EFPD	118 %	POWER	*
	* 3.0022	* 2.4405	* 3.0990	* 3.0815	* 250 EFPD	118 %	POWER	*
	* 2.8404	* 2.3648	* 2.9753	* 3.0338	* 350 EFPD	118 %	POWER	*
	* 2.5581	* 2.1637	* 2.7109	* 2.8428	* 475 EFPD	118 %	POWER	*

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 5 (CONTINUED)

THIS IS LEVEL 19 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A

8	* 2.0157	* 1.5170	* 1.4834	* 1.5607	* 1.7254	* 1.7449	* 1.7894	* 3.2438
	* 2.1743	* 1.6311	* 1.5969	* 1.6393	* 1.7150	* 1.7810	* 1.8154	* 3.3126
	* 2.2555	* 1.6911	* 1.6528	* 1.6285	* 1.6572	* 1.6905	* 1.7838	* 3.2777
	* 2.2799	* 1.7138	* 1.6548	* 1.5754	* 1.5926	* 1.6098	* 1.7361	* 3.1997
	* 2.3188	* 1.7536	* 1.6606	* 1.4691	* 1.5259	* 1.4947	* 1.6832	* 3.0667
	* 2.3368	* 1.8284	* 1.7013	* 1.4530	* 1.5263	* 1.4611	* 1.6686	* 2.9304
	* 2.3746	* 1.9160	* 1.7395	* 1.4662	* 1.5394	* 1.4481	* 1.6216	* 2.6759

9	* 1.5170	* 1.5044	* 1.5041	* 1.5740	* 1.5952	* 1.6316	* 1.5307	* 2.5712
	* 1.6311	* 1.5919	* 1.6062	* 1.6385	* 1.6450	* 1.6755	* 1.5860	* 2.6260
	* 1.6911	* 1.6073	* 1.6457	* 1.6460	* 1.6063	* 1.6675	* 1.5592	* 2.6045
	* 1.7138	* 1.5971	* 1.6458	* 1.6103	* 1.5456	* 1.6411	* 1.5288	* 2.5579
	* 1.7536	* 1.5573	* 1.6541	* 1.5558	* 1.4544	* 1.5968	* 1.5154	* 2.4927
	* 1.8284	* 1.5883	* 1.7016	* 1.5689	* 1.4378	* 1.5953	* 1.5296	* 2.4292
	* 1.9160	* 1.6586	* 1.7461	* 1.5931	* 1.4544	* 1.5918	* 1.5064	* 2.2650

10	* 1.4834	* 1.5041	* 1.5226	* 1.5884	* 1.5334	* 1.5357	* 1.4593	* 3.2904
	* 1.5969	* 1.6069	* 1.6131	* 1.6513	* 1.5716	* 1.5986	* 1.5165	* 3.3430
	* 1.6528	* 1.6457	* 1.6474	* 1.5906	* 1.5633	* 1.6135	* 1.5127	* 3.3099
	* 1.6548	* 1.6466	* 1.6088	* 1.5196	* 1.5387	* 1.6083	* 1.5020	* 3.2455
	* 1.6606	* 1.6549	* 1.5682	* 1.4320	* 1.5203	* 1.6250	* 1.5144	* 3.1481
	* 1.7013	* 1.7023	* 1.6046	* 1.4426	* 1.5565	* 1.6772	* 1.5460	* 3.0445
	* 1.7395	* 1.7461	* 1.6650	* 1.5066	* 1.6132	* 1.7221	* 1.5649	* 2.8261

11	* 1.5607	* 1.5740	* 1.5908	* 1.6616	* 1.5445	* 1.5358	* 1.4237	* 3.1394
	* 1.6393	* 1.6385	* 1.6539	* 1.6456	* 1.5758	* 1.5860	* 1.5092	* 3.2184
	* 1.6285	* 1.6460	* 1.5938	* 1.5900	* 1.5364	* 1.5781	* 1.5258	* 3.2187
	* 1.5754	* 1.6103	* 1.5239	* 1.5334	* 1.4786	* 1.5602	* 1.5336	* 3.1822
	* 1.4691	* 1.5552	* 1.4339	* 1.4896	* 1.4154	* 1.5747	* 1.5795	* 3.1475
	* 1.4530	* 1.5681	* 1.4445	* 1.5289	* 1.4286	* 1.6305	* 1.6374	* 3.1271
	* 1.4662	* 1.5923	* 1.5071	* 1.6284	* 1.5133	* 1.7082	* 1.6999	* 2.9840

12	* 1.7254	* 1.5945	* 1.5341	* 1.5452	* 1.5299	* 1.4144	* 2.2051	*
	* 1.7150	* 1.6441	* 1.5724	* 1.5766	* 1.5520	* 1.4403	* 2.2784	*
	* 1.6572	* 1.6055	* 1.5640	* 1.5372	* 1.5154	* 1.4190	* 2.2937	*
	* 1.5926	* 1.5449	* 1.5394	* 1.4786	* 1.4754	* 1.3988	* 2.2841	*
	* 1.5259	* 1.4538	* 1.5217	* 1.4166	* 1.4641	* 1.4184	* 2.3155	*
	* 1.5263	* 1.4360	* 1.5565	* 1.4292	* 1.5099	* 1.4788	* 2.3644	*
	* 1.5394	* 1.4532	* 1.6133	* 1.5134	* 1.5966	* 1.5536	* 2.3785	*

13	* 1.7449	* 1.6308	* 1.5357	* 1.5358	* 1.4150	* 1.3707	* 2.6663	*
	* 1.7810	* 1.6747	* 1.5986	* 1.5860	* 1.4403	* 1.4444	* 2.7566	*
	* 1.6905	* 1.6667	* 1.6142	* 1.5789	* 1.4190	* 1.4524	* 2.7771	*
	* 1.6098	* 1.6403	* 1.6083	* 1.5602	* 1.3988	* 1.4583	* 2.7684	*
	* 1.4947	* 1.5960	* 1.6250	* 1.5754	* 1.4184	* 1.5053	* 2.7908	*
	* 1.4611	* 1.5945	* 1.6772	* 1.6305	* 1.4790	* 1.5719	* 2.8146	*
	* 1.4481	* 1.5918	* 1.7221	* 1.7083	* 1.5536	* 1.6453	* 2.7680	*

14	* 1.7894	* 1.5300	* 1.4594	* 1.4237	* 2.2051	* 2.6664	*	*
	* 1.8154	* 1.5852	* 1.5158	* 1.5092	* 2.2784	* 2.7566	*	*
	* 1.7838	* 1.5584	* 1.5127	* 1.5258	* 2.2937	* 2.7771	*	*
	* 1.7361	* 1.5288	* 1.5020	* 1.5343	* 2.2841	* 2.7684	*	*
	* 1.6832	* 1.5148	* 1.5144	* 1.5795	* 2.3155	* 2.7908	*	*
	* 1.6686	* 1.5289	* 1.5460	* 1.6378	* 2.3644	* 2.8138	*	*
	* 1.6216	* 1.5065	* 1.5649	* 1.6999	* 2.3785	* 2.7680	*	*

15	* 3.2438	* 2.5692	* 3.2902	* 3.1394	*	4 EFPD 118 % POWER		
	* 3.3126	* 2.6239	* 3.3462	* 3.2215	*	50 EFPD 118 % POWER		
	* 3.2777	* 2.6045	* 3.3097	* 3.2187	*	100 EFPD 118 % POWER		
	* 3.1997	* 2.5560	* 3.2453	* 3.1822	*	150 EFPD 118 % POWER		
	* 3.0667	* 2.4908	* 3.1479	* 3.1475	*	250 EFPD 118 % POWER		
	* 2.9304	* 2.4276	* 3.0444	* 3.1271	*	350 EFPD 118 % POWER		
	* 2.6759	* 2.2636	* 2.8259	* 2.9865	*	475 EFPD 118 % POWER		

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 5 (CONTINUED)

M-SUB-C VALUES (F-SUB-Q RPS MARGIN) NORMAL OPERATION
THIS IS LEVEL 18 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A

8	* 2.0846	* 1.5528	* 1.5149	* 1.5915	* 1.7453	* 1.7562	* 1.7942	* 3.2748
	* 2.2488	* 1.6692	* 1.6310	* 1.6623	* 1.7275	* 1.7835	* 1.8145	* 3.3349
	* 2.3441	* 1.7383	* 1.6902	* 1.6558	* 1.6722	* 1.6970	* 1.7896	* 3.3159
	* 2.3831	* 1.7722	* 1.6995	* 1.5932	* 1.6157	* 1.6261	* 1.7553	* 3.2614
	* 2.4321	* 1.8237	* 1.7180	* 1.4967	* 1.5605	* 1.5207	* 1.7214	* 3.1576
	* 2.4434	* 1.8840	* 1.7608	* 1.4877	* 1.5679	* 1.4919	* 1.7127	* 3.0300
	* 2.4664	* 1.9635	* 1.8281	* 1.5254	* 1.6049	* 1.5023	* 1.6827	* 2.7963

9	* 1.5528	* 1.5386	* 1.5351	* 1.6003	* 1.6091	* 1.6397	* 1.5369	* 2.5912
	* 1.6692	* 1.6185	* 1.6368	* 1.6621	* 1.6480	* 1.6832	* 1.5816	* 2.6386
	* 1.7383	* 1.6406	* 1.6820	* 1.6749	* 1.6146	* 1.6827	* 1.5617	* 2.6312
	* 1.7722	* 1.6376	* 1.6892	* 1.6380	* 1.5614	* 1.6674	* 1.5443	* 2.6036
	* 1.8237	* 1.6075	* 1.7109	* 1.5958	* 1.4778	* 1.6357	* 1.5487	* 2.5652
	* 1.8840	* 1.6322	* 1.7610	* 1.6151	* 1.4694	* 1.6414	* 1.5682	* 2.5064
	* 1.9635	* 1.7302	* 1.8364	* 1.6650	* 1.5122	* 1.6594	* 1.5621	* 2.3653

10	* 1.5149	* 1.5351	* 1.5507	* 1.6165	* 1.5391	* 1.5422	* 1.4637	* 3.3150
	* 1.6310	* 1.6368	* 1.6416	* 1.6693	* 1.5739	* 1.6041	* 1.5104	* 3.3617
	* 1.6902	* 1.6829	* 1.6762	* 1.5971	* 1.5729	* 1.6293	* 1.5158	* 3.3413
	* 1.6995	* 1.6900	* 1.6397	* 1.5356	* 1.5610	* 1.6367	* 1.5200	* 3.3047
	* 1.7180	* 1.7118	* 1.6111	* 1.4547	* 1.5540	* 1.6706	* 1.5484	* 3.2424
	* 1.7608	* 1.7611	* 1.6490	* 1.4669	* 1.5925	* 1.7244	* 1.5817	* 3.1380
	* 1.8281	* 1.8364	* 1.7467	* 1.5707	* 1.6868	* 1.8046	* 1.6265	* 2.9526

11	* 1.5915	* 1.6003	* 1.6198	* 1.6766	* 1.5547	* 1.5395	* 1.4271	* 3.1677
	* 1.6623	* 1.6621	* 1.6728	* 1.6530	* 1.5731	* 1.5854	* 1.5046	* 3.2418
	* 1.6558	* 1.6749	* 1.6011	* 1.6008	* 1.5405	* 1.5873	* 1.5319	* 3.2578
	* 1.5932	* 1.6380	* 1.5400	* 1.5541	* 1.4912	* 1.5839	* 1.5575	* 3.2517
	* 1.4967	* 1.5950	* 1.4566	* 1.5211	* 1.4352	* 1.6127	* 1.6183	* 3.2490
	* 1.4877	* 1.6143	* 1.4687	* 1.5672	* 1.4699	* 1.6872	* 1.6848	* 3.2201
	* 1.5254	* 1.6642	* 1.5713	* 1.6796	* 1.5677	* 1.7755	* 1.7497	* 3.1285

12	* 1.7453	* 1.6084	* 1.5398	* 1.5546	* 1.5335	* 1.4200	* 2.2190	*
	* 1.7275	* 1.6480	* 1.5747	* 1.5739	* 1.5515	* 1.4329	* 2.2885	*
	* 1.6722	* 1.6147	* 1.5736	* 1.5412	* 1.5204	* 1.4194	* 2.3182	*
	* 1.6157	* 1.5614	* 1.5617	* 1.4919	* 1.4919	* 1.4140	* 2.3324	*
	* 1.5605	* 1.4771	* 1.5554	* 1.4365	* 1.4931	* 1.4514	* 2.3827	*
	* 1.5679	* 1.4681	* 1.5925	* 1.4708	* 1.5592	* 1.5281	* 2.4570	*
	* 1.6049	* 1.5109	* 1.6868	* 1.5683	* 1.6583	* 1.6105	* 2.4755	*

13	* 1.7562	* 1.6397	* 1.5422	* 1.5395	* 1.4200	* 1.3715	* 2.6846	*
	* 1.7835	* 1.6824	* 1.6049	* 1.5861	* 1.4329	* 1.4363	* 2.7692	*
	* 1.6970	* 1.6827	* 1.6301	* 1.5880	* 1.4200	* 1.4560	* 2.8089	*
	* 1.6261	* 1.6666	* 1.6375	* 1.5846	* 1.4140	* 1.4793	* 2.8286	*
	* 1.5207	* 1.6349	* 1.6713	* 1.6127	* 1.4514	* 1.5458	* 2.8835	*
	* 1.4919	* 1.6399	* 1.7244	* 1.6876	* 1.5281	* 1.6311	* 2.9324	*
	* 1.5023	* 1.6586	* 1.8046	* 1.7755	* 1.6105	* 1.7115	* 2.8890	*

14	* 1.7942	* 1.5370	* 1.4637	* 1.4271	* 2.2190	* 2.6846	*	*
	* 1.8145	* 1.5808	* 1.5104	* 1.5054	* 2.2885	* 2.7692	*	*
	* 1.7896	* 1.5609	* 1.5151	* 1.5319	* 2.3182	* 2.8089	*	*
	* 1.7553	* 1.5443	* 1.5200	* 1.5575	* 2.3324	* 2.8286	*	*
	* 1.7214	* 1.5487	* 1.5484	* 1.6191	* 2.3828	* 2.8835	*	*
	* 1.7127	* 1.5675	* 1.5817	* 1.6848	* 2.4570	* 2.9325	*	*
	* 1.6827	* 1.5621	* 1.6265	* 1.7497	* 2.4756	* 2.8884	*	*

15	* 3.2748	* 2.5892	* 3.3181	* 3.1677	* 4 EFPD 118 % POWER			
	* 3.3349	* 2.6365	* 3.3614	* 3.2418	* 50 EFPD 118 % POWER			
	* 3.3159	* 2.6291	* 3.3444	* 3.2578	* 100 EFPD 118 % POWER			
	* 3.2614	* 2.6036	* 3.3077	* 3.2517	* 150 EFPD 118 % POWER			
	* 3.1576	* 2.5652	* 3.2422	* 3.2489	* 250 EFPD 118 % POWER			
	* 3.0300	* 2.5047	* 3.1382	* 3.2201	* 350 EFPD 118 % POWER			
	* 2.7963	* 2.3637	* 2.9525	* 3.1312	* 475 EFPD 118 % POWER			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 5 (CONTINUED)

THIS IS LEVEL 17 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A

8	* 2.2232	* 1.6352	* 1.5925	* 1.6607	* 1.8162	* 1.8116	* 1.8507	* 3.4063
	* 2.3996	* 1.7592	* 1.7143	* 1.7295	* 1.7931	* 1.8360	* 1.8671	* 3.4642
	* 2.5090	* 1.8410	* 1.7797	* 1.7231	* 1.7389	* 1.7522	* 1.8488	* 3.4545
	* 2.5648	* 1.8833	* 1.7964	* 1.6570	* 1.6906	* 1.6892	* 1.8269	* 3.4234
	* 2.6239	* 1.9478	* 1.8262	* 1.5695	* 1.6436	* 1.5895	* 1.8048	* 3.3275
	* 2.6187	* 1.9944	* 1.8657	* 1.5600	* 1.6515	* 1.5613	* 1.7981	* 3.1954
	* 2.5889	* 2.0526	* 1.9513	* 1.6112	* 1.7043	* 1.5823	* 1.7782	* 2.9697

9	* 1.6352	* 1.6097	* 1.6125	* 1.6746	* 1.6634	* 1.6978	* 1.5824	* 2.6910
	* 1.7592	* 1.6883	* 1.7171	* 1.7369	* 1.6973	* 1.7428	* 1.6212	* 2.7332
	* 1.8410	* 1.7176	* 1.7688	* 1.7545	* 1.6708	* 1.7521	* 1.6085	* 2.7386
	* 1.8833	* 1.7241	* 1.7839	* 1.7171	* 1.6227	* 1.7449	* 1.6036	* 2.7328
	* 1.9478	* 1.7008	* 1.8183	* 1.6849	* 1.5473	* 1.7243	* 1.6242	* 2.7097
	* 1.9944	* 1.7173	* 1.8661	* 1.7049	* 1.5381	* 1.7309	* 1.6430	* 2.6468
	* 2.0526	* 1.8007	* 1.9595	* 1.7709	* 1.5960	* 1.7615	* 1.6450	* 2.5138

10	* 1.5925	* 1.6125	* 1.6258	* 1.6858	* 1.5925	* 1.5973	* 1.5053	* 3.4343
	* 1.7143	* 1.7171	* 1.7198	* 1.7275	* 1.6267	* 1.6613	* 1.5473	* 3.4736
	* 1.7797	* 1.7697	* 1.7541	* 1.6511	* 1.6334	* 1.6985	* 1.5630	* 3.4734
	* 1.7964	* 1.7839	* 1.7226	* 1.5973	* 1.6331	* 1.7174	* 1.5805	* 3.4660
	* 1.8262	* 1.8193	* 1.7047	* 1.5234	* 1.6389	* 1.7688	* 1.6247	* 3.4232
	* 1.8657	* 1.8671	* 1.7395	* 1.5295	* 1.6740	* 1.8198	* 1.6562	* 3.3083
	* 1.9513	* 1.9596	* 1.8434	* 1.6391	* 1.7847	* 1.9149	* 1.7157	* 3.1358

11	* 1.6607	* 1.6737	* 1.6884	* 1.7438	* 1.6079	* 1.5929	* 1.4683	* 3.2852
	* 1.7295	* 1.7369	* 1.7332	* 1.7139	* 1.6197	* 1.6381	* 1.5442	* 3.3583
	* 1.7231	* 1.7545	* 1.6563	* 1.6660	* 1.5948	* 1.6505	* 1.5832	* 3.3962
	* 1.6570	* 1.7162	* 1.6029	* 1.6295	* 1.5541	* 1.6623	* 1.6245	* 3.4175
	* 1.5695	* 1.6849	* 1.5255	* 1.6030	* 1.5038	* 1.7045	* 1.7029	* 3.4472
	* 1.5600	* 1.7041	* 1.5316	* 1.6430	* 1.5306	* 1.7723	* 1.7589	* 3.3957
	* 1.6112	* 1.7699	* 1.6406	* 1.7578	* 1.6324	* 1.8612	* 1.8212	* 3.2894

12	* 1.8162	* 1.6636	* 1.5932	* 1.6086	* 1.5917	* 1.4632	* 2.3003	*
	* 1.7931	* 1.6973	* 1.6274	* 1.6197	* 1.6073	* 1.4723	* 2.3702	*
	* 1.7389	* 1.6699	* 1.6342	* 1.5956	* 1.5828	* 1.4675	* 2.4160	*
	* 1.6906	* 1.6228	* 1.6347	* 1.5548	* 1.5657	* 1.4759	* 2.4530	*
	* 1.6436	* 1.5466	* 1.6412	* 1.5050	* 1.5781	* 1.5281	* 2.5292	*
	* 1.6515	* 1.5366	* 1.6748	* 1.5320	* 1.6421	* 1.6068	* 2.5898	*
	* 1.7043	* 1.5946	* 1.7847	* 1.6332	* 1.7444	* 1.6886	* 2.5938	*

13	* 1.8116	* 1.6978	* 1.5973	* 1.5929	* 1.4632	* 1.4120	* 2.7913	*
	* 1.8360	* 1.7428	* 1.6622	* 1.6389	* 1.4722	* 1.4738	* 2.8761	*
	* 1.7522	* 1.7512	* 1.6985	* 1.6505	* 1.4682	* 1.5059	* 2.9377	*
	* 1.6892	* 1.7440	* 1.7183	* 1.6623	* 1.4759	* 1.5458	* 2.9859	*
	* 1.5895	* 1.7234	* 1.7688	* 1.7054	* 1.5288	* 1.6287	* 3.0631	*
	* 1.5613	* 1.7300	* 1.8198	* 1.7723	* 1.6069	* 1.7224	* 3.1154	*
	* 1.5823	* 1.7614	* 1.9149	* 1.8618	* 1.6886	* 1.8014	* 3.0486	*

14	* 1.8507	* 1.5816	* 1.5060	* 1.4683	* 2.3003	* 2.7890	*	*
	* 1.8671	* 1.6204	* 1.5473	* 1.5442	* 2.3702	* 2.8762	*	*
	* 1.8488	* 1.6076	* 1.5630	* 1.5832	* 2.4160	* 2.9377	*	*
	* 1.8269	* 1.6036	* 1.5805	* 1.6253	* 2.4548	* 2.9859	*	*
	* 1.8048	* 1.6242	* 1.6247	* 1.7030	* 2.5292	* 3.0631	*	*
	* 1.7981	* 1.6430	* 1.6562	* 1.7589	* 2.5898	* 3.1154	*	*
	* 1.7782	* 1.6450	* 1.7157	* 1.8212	* 2.5938	* 3.0487	*	*

15	* 3.4063	* 2.6889	* 3.4375	* 3.2884	* 4 EFPD	118 % POWER		
	* 3.4642	* 2.7310	* 3.4733	* 3.3583	* 50 EFPD	118 % POWER		
	* 3.4545	* 2.7363	* 3.4768	* 3.3962	* 100 EFPD	118 % POWER		
	* 3.4234	* 2.7328	* 3.4657	* 3.4209	* 150 EFPD	118 % POWER		
	* 3.3275	* 2.7096	* 3.4230	* 3.4504	* 250 EFPD	118 % POWER		
	* 3.1954	* 2.6464	* 3.3111	* 3.3988	* 350 EFPD	118 % POWER		
	* 2.9697	* 2.5119	* 3.1357	* 3.2894	* 475 EFPD	118 % POWER		

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 5 (CONTINUED)

M-SUB-C VALUES (F-SUB-Q RPS MARGIN) NORMAL OPERATION
THIS IS LEVEL 16 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A

8	* 2.3627	* 1.7284	* 1.6791	* 1.7447	* 1.8981	* 1.8827	* 1.9194	* 3.5399
	* 2.5496	* 1.8591	* 1.8081	* 1.8126	* 1.8709	* 1.9020	* 1.9348	* 3.5987
	* 2.6782	* 1.9541	* 1.8810	* 1.8033	* 1.8217	* 1.8279	* 1.9261	* 3.6116
	* 2.7467	* 2.0084	* 1.9064	* 1.7410	* 1.7799	* 1.7709	* 1.9153	* 3.6010
	* 2.8012	* 2.0743	* 1.9371	* 1.6513	* 1.7329	* 1.6684	* 1.8972	* 3.5134
	* 2.8059	* 2.1291	* 1.9909	* 1.6519	* 1.7521	* 1.6466	* 1.8946	* 3.3809
	* 2.7355	* 2.1649	* 2.0582	* 1.7138	* 1.8156	* 1.6791	* 1.8867	* 3.1572

9	* 1.7284	* 1.6938	* 1.6996	* 1.7576	* 1.7346	* 1.7673	* 1.6439	* 2.8030
	* 1.8591	* 1.7744	* 1.8074	* 1.8225	* 1.7654	* 1.8170	* 1.6788	* 2.8441
	* 1.9541	* 1.8124	* 1.8677	* 1.8437	* 1.7461	* 1.8362	* 1.6747	* 2.8643
	* 2.0084	* 1.8284	* 1.8924	* 1.8123	* 1.7052	* 1.8402	* 1.6825	* 2.8799
	* 2.0743	* 1.8028	* 1.9302	* 1.7828	* 1.6304	* 1.8184	* 1.7072	* 2.8577
	* 2.1291	* 1.8249	* 1.9913	* 1.8141	* 1.6290	* 1.8368	* 1.7352	* 2.7995
	* 2.1649	* 1.8898	* 2.0680	* 1.8898	* 1.6950	* 1.8769	* 1.7430	* 2.6706

10	* 1.6791	* 1.6996	* 1.7109	* 1.7698	* 1.6585	* 1.6653	* 1.5652	* 3.5700
	* 1.8081	* 1.8083	* 1.8103	* 1.8001	* 1.6947	* 1.7341	* 1.6045	* 3.6087
	* 1.8810	* 1.8688	* 1.8463	* 1.7284	* 1.7115	* 1.7830	* 1.6306	* 3.6281
	* 1.9064	* 1.8935	* 1.8225	* 1.6833	* 1.7251	* 1.8166	* 1.6632	* 3.6438
	* 1.9371	* 1.9313	* 1.8095	* 1.6122	* 1.7412	* 1.8770	* 1.7140	* 3.6007
	* 1.9909	* 1.9915	* 1.8506	* 1.6178	* 1.7774	* 1.9344	* 1.7513	* 3.5009
	* 2.0582	* 2.0680	* 1.9393	* 1.7178	* 1.8770	* 2.0134	* 1.8064	* 3.3249

11	* 1.7447	* 1.7576	* 1.7726	* 1.8261	* 1.6815	* 1.6605	* 1.5278	* 3.4290
	* 1.8126	* 1.8225	* 1.8063	* 1.7924	* 1.6871	* 1.7088	* 1.6038	* 3.5015
	* 1.8033	* 1.8437	* 1.7331	* 1.7500	* 1.6713	* 1.7320	* 1.6569	* 3.5617
	* 1.7410	* 1.8123	* 1.6886	* 1.7219	* 1.6398	* 1.7604	* 1.7147	* 3.6166
	* 1.6513	* 1.7818	* 1.6146	* 1.7065	* 1.5992	* 1.8206	* 1.8106	* 3.6599
	* 1.6519	* 1.8131	* 1.6201	* 1.7420	* 1.6152	* 1.8735	* 1.8576	* 3.6038
	* 1.7138	* 1.8887	* 1.7202	* 1.8441	* 1.7130	* 1.9527	* 1.9092	* 3.4528

12	* 1.8981	* 1.7348	* 1.6593	* 1.6813	* 1.6634	* 1.5248	* 2.4037	*
	* 1.8709	* 1.7654	* 1.6955	* 1.6880	* 1.6770	* 1.5315	* 2.4765	*
	* 1.8217	* 1.7461	* 1.7123	* 1.6722	* 1.6618	* 1.5374	* 2.5421	*
	* 1.7799	* 1.7044	* 1.7251	* 1.6406	* 1.6574	* 1.5608	* 2.6034	*
	* 1.7329	* 1.6288	* 1.7422	* 1.6007	* 1.6839	* 1.6303	* 2.7063	*
	* 1.7521	* 1.6267	* 1.7774	* 1.6161	* 1.7350	* 1.6924	* 2.7384	*
	* 1.8156	* 1.6943	* 1.8770	* 1.7138	* 1.8326	* 1.7712	* 2.7124	*

13	* 1.8827	* 1.7664	* 1.6653	* 1.6605	* 1.5248	* 1.4724	* 2.9201	*
	* 1.9020	* 1.8161	* 1.7341	* 1.7088	* 1.5323	* 1.5324	* 3.0134	*
	* 1.8279	* 1.8362	* 1.7839	* 1.7329	* 1.5382	* 1.5789	* 3.0983	*
	* 1.7709	* 1.8392	* 1.8176	* 1.7613	* 1.5608	* 1.6366	* 3.1761	*
	* 1.6684	* 1.8164	* 1.8770	* 1.8207	* 1.6303	* 1.7384	* 3.2834	*
	* 1.6466	* 1.8358	* 1.9344	* 1.8735	* 1.6924	* 1.8128	* 3.2893	*
	* 1.6791	* 1.8758	* 2.0134	* 1.9527	* 1.7712	* 1.8852	* 3.1848	*

14	* 1.9194	* 1.6440	* 1.5652	* 1.5278	* 2.4037	* 2.9201	*	*
	* 1.9348	* 1.6779	* 1.6045	* 1.6046	* 2.4783	* 3.0134	*	*
	* 1.9261	* 1.6747	* 1.6306	* 1.6578	* 2.5440	* 3.0983	*	*
	* 1.9153	* 1.6825	* 1.6632	* 1.7147	* 2.6054	* 3.1761	*	*
	* 1.8972	* 1.7063	* 1.7140	* 1.8106	* 2.7063	* 3.2835	*	*
	* 1.8946	* 1.7343	* 1.7513	* 1.8575	* 2.7384	* 3.2893	*	*
	* 1.8867	* 1.7431	* 1.8062	* 1.9092	* 2.7124	* 3.1848	*	*

15	* 3.5399	* 2.8007	* 3.5735	* 3.4290	* 4 EFPD	118 % POWER		
	* 3.5987	* 2.8417	* 3.6084	* 3.5015	* 50 EFPD	118 % POWER		
	* 3.6116	* 2.8643	* 3.6318	* 3.5617	* 100 EFPD	118 % POWER		
	* 3.6010	* 2.8775	* 3.6475	* 3.6165	* 150 EFPD	118 % POWER		
	* 3.5134	* 2.8576	* 3.6044	* 3.6598	* 250 EFPD	118 % POWER		
	* 3.3809	* 2.7995	* 3.5044	* 3.6043	* 350 EFPD	118 % POWER		
	* 3.1572	* 2.6706	* 3.3279	* 3.4559	* 475 EFPD	118 % POWER		

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 5 (CONTINUED)

THIS IS LEVEL 15 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A

8	* 2.5580	* 1.8577	* 1.8028	* 1.8653	* 2.0221	* 1.9942	* 2.0316	* 3.7534
	* 2.7584	* 1.9976	* 1.9399	* 1.9404	* 1.9900	* 2.0145	* 2.0464	* 3.8109
	* 2.9026	* 2.1049	* 2.0204	* 1.9286	* 1.9444	* 1.9498	* 2.0477	* 3.8388
	* 2.9863	* 2.1743	* 2.0577	* 1.8717	* 1.9106	* 1.8988	* 2.0490	* 3.8492
	* 3.0726	* 2.2637	* 2.1119	* 1.7942	* 1.8804	* 1.8087	* 2.0528	* 3.8082
	* 3.0577	* 2.3241	* 2.1647	* 1.7941	* 1.9020	* 1.7863	* 2.0541	* 3.6665
	* 2.9757	* 2.3350	* 2.2151	* 1.8580	* 1.9761	* 1.8309	* 2.0524	* 3.4409

9	* 1.8577	* 1.8142	* 1.8225	* 1.8800	* 1.8448	* 1.8763	* 1.7465	* 2.9706
	* 1.9976	* 1.9035	* 1.9379	* 1.9475	* 1.8797	* 1.9301	* 1.7818	* 3.0140
	* 2.1049	* 1.9509	* 2.0062	* 1.9728	* 1.8679	* 1.9618	* 1.7865	* 3.0504
	* 2.1743	* 1.9791	* 2.0428	* 1.9518	* 1.8359	* 1.9785	* 1.8066	* 3.0821
	* 2.2637	* 1.9673	* 2.1039	* 1.9376	* 1.7698	* 1.9727	* 1.8502	* 3.1009
	* 2.3241	* 1.9915	* 2.1693	* 1.9697	* 1.7683	* 1.9927	* 1.8794	* 3.0307
	* 2.3350	* 2.0322	* 2.2248	* 2.0405	* 1.8418	* 2.0453	* 1.8953	* 2.9020

10	* 1.8028	* 1.8235	* 1.8325	* 1.8912	* 1.7671	* 1.7737	* 1.6648	* 3.8016
	* 1.9399	* 1.9379	* 1.9380	* 1.9214	* 1.8053	* 1.8478	* 1.7076	* 3.8414
	* 2.0204	* 2.0074	* 1.9804	* 1.8541	* 1.8332	* 1.9120	* 1.7440	* 3.8816
	* 2.0577	* 2.0440	* 1.9673	* 1.8176	* 1.8569	* 1.9615	* 1.7904	* 3.9228
	* 2.1119	* 2.1039	* 1.9683	* 1.7511	* 1.8887	* 2.0381	* 1.8581	* 3.9189
	* 2.1647	* 2.1693	* 2.0222	* 1.7674	* 1.9393	* 2.1113	* 1.9025	* 3.8016
	* 2.2151	* 2.2263	* 2.0928	* 1.8514	* 2.0199	* 2.1688	* 1.9449	* 3.6052

11	* 1.8653	* 1.8800	* 1.8956	* 1.9518	* 1.7954	* 1.7693	* 1.6284	* 3.6531
	* 1.9404	* 1.9475	* 1.9285	* 1.9143	* 1.8036	* 1.8252	* 1.7115	* 3.7273
	* 1.9286	* 1.9728	* 1.8595	* 1.8795	* 1.7989	* 1.8629	* 1.7803	* 3.8131
	* 1.8717	* 1.9506	* 1.8228	* 1.8592	* 1.7780	* 1.9074	* 1.8537	* 3.8896
	* 1.7942	* 1.9365	* 1.7539	* 1.8504	* 1.7374	* 1.9789	* 1.9630	* 3.9625
	* 1.7941	* 1.9685	* 1.7702	* 1.9014	* 1.7618	* 2.0414	* 2.0228	* 3.9206
	* 1.8580	* 2.0392	* 1.8534	* 1.9916	* 1.8442	* 2.1028	* 2.0521	* 3.7093

12	* 2.0221	* 1.8449	* 1.7680	* 1.7963	* 1.7774	* 1.6313	* 2.5717	*
	* 1.9900	* 1.8786	* 1.8062	* 1.8046	* 1.7929	* 1.6388	* 2.6512	*
	* 1.9444	* 1.8679	* 1.8342	* 1.7999	* 1.7867	* 1.6559	* 2.7379	*
	* 1.9106	* 1.8349	* 1.8569	* 1.7790	* 1.7957	* 1.6945	* 2.8237	*
	* 1.8804	* 1.7688	* 1.8898	* 1.7393	* 1.8321	* 1.7773	* 2.9356	*
	* 1.9020	* 1.7664	* 1.9394	* 1.7627	* 1.8908	* 1.8435	* 2.9783	*
	* 1.9761	* 1.8408	* 2.0199	* 1.8450	* 1.9719	* 1.9015	* 2.9216	*

13	* 1.9942	* 1.8763	* 1.7737	* 1.7703	* 1.6313	* 1.5763	* 3.1283	*
	* 2.0145	* 1.9301	* 1.8488	* 1.8262	* 1.6388	* 1.6407	* 3.2253	*
	* 1.9498	* 1.9607	* 1.9120	* 1.8629	* 1.6567	* 1.7024	* 3.3395	*
	* 1.8988	* 1.9773	* 1.9626	* 1.9085	* 1.6953	* 1.7787	* 3.4515	*
	* 1.8087	* 1.9716	* 2.0381	* 1.9789	* 1.7783	* 1.8986	* 3.5733	*
	* 1.7863	* 1.9915	* 2.1100	* 2.0425	* 1.8435	* 1.9734	* 3.5747	*
	* 1.8309	* 2.0440	* 2.1689	* 2.1028	* 1.9015	* 2.0245	* 3.4227	*

14	* 2.0316	* 1.7456	* 1.6657	* 1.6292	* 2.5717	* 3.1283	*	*
	* 2.0464	* 1.7808	* 1.7076	* 1.7124	* 2.6512	* 3.2253	*	*
	* 2.0477	* 1.7865	* 1.7440	* 1.7803	* 2.7379	* 3.3395	*	*
	* 2.0490	* 1.8056	* 1.7904	* 1.8537	* 2.8237	* 3.4515	*	*
	* 2.0528	* 1.8492	* 1.8581	* 1.9630	* 2.9356	* 3.5733	*	*
	* 2.0541	* 1.8783	* 1.9025	* 2.0228	* 2.9783	* 3.5747	*	*
	* 2.0524	* 1.8953	* 1.9449	* 2.0521	* 2.9216	* 3.4223	*	*

15	* 3.7534	* 2.9680	* 3.8057	* 3.6531	* 4 EFPD	118 % POWER		
	* 3.8109	* 3.0113	* 3.8411	* 3.7273	* 50 EFPD	118 % POWER		
	* 3.8388	* 3.0477	* 3.8858	* 3.8131	* 100 EFPD	118 % POWER		
	* 3.8492	* 3.0793	* 3.9272	* 3.8941	* 150 EFPD	118 % POWER		
	* 3.8082	* 3.0980	* 3.9187	* 3.9672	* 250 EFPD	118 % POWER		
	* 3.6665	* 3.0307	* 3.8057	* 3.9206	* 350 EFPD	118 % POWER		
	* 3.4409	* 2.9008	* 3.6051	* 3.7093	* 475 EFPD	118 % POWER		

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 5 (CONTINUED)

M-SUB-C VALUES (F-SUB-Q RPS MARGIN) NORMAL OPERATION								
THIS IS LEVEL 14 OF 24								
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)								
H	G	F	E	D	C	B	A	

8	* 2.7054	* 1.9630	* 1.9018	* 1.9553	* 2.1112	* 2.0674	* 2.1056	* 3.9046
	* 2.8931	* 2.1092	* 2.0450	* 2.0272	* 2.0762	* 2.0830	* 2.1201	* 3.9576
	* 3.0418	* 2.2291	* 2.1332	* 2.0114	* 2.0363	* 2.0294	* 2.1296	* 4.0070
	* 3.1342	* 2.3075	* 2.1792	* 1.9600	* 2.0124	* 1.9838	* 2.1418	* 4.0429
	* 3.2479	* 2.4270	* 2.2606	* 1.9040	* 2.0052	* 1.9149	* 2.1763	* 4.0388
	* 3.2611	* 2.4873	* 2.3312	* 1.9176	* 2.0424	* 1.9067	* 2.1912	* 3.9263
	* 3.1570	* 2.4820	* 2.3636	* 1.9717	* 2.1060	* 1.9501	* 2.1981	* 3.6755

9	* 1.9630	* 1.9041	* 1.9227	* 1.9751	* 1.9250	* 1.9585	* 1.8138	* 3.0911
	* 2.1092	* 1.9944	* 2.0403	* 2.0447	* 1.9562	* 2.0159	* 1.8429	* 3.1323
	* 2.2291	* 2.0500	* 2.1180	* 2.0764	* 1.9528	* 2.0614	* 1.8564	* 3.1866
	* 2.3075	* 2.0859	* 2.1653	* 2.0618	* 1.9268	* 2.0877	* 1.8891	* 3.2396
	* 2.4270	* 2.0958	* 2.2561	* 2.0720	* 1.8810	* 2.1042	* 1.9579	* 3.2910
	* 2.4873	* 2.1263	* 2.3367	* 2.1185	* 1.8883	* 2.1409	* 2.0009	* 3.2436
	* 2.4820	* 2.1531	* 2.3765	* 2.1769	* 1.9535	* 2.1818	* 2.0166	* 3.0859

10	* 1.9018	* 1.9227	* 1.9316	* 1.9829	* 1.8449	* 1.8561	* 1.7312	* 3.9479
	* 2.0450	* 2.0416	* 2.0416	* 2.0040	* 1.8854	* 1.9352	* 1.7716	* 3.9861
	* 2.1332	* 2.1180	* 2.0889	* 1.9400	* 1.9246	* 2.0126	* 1.8190	* 4.0442
	* 2.1792	* 2.1667	* 2.0845	* 1.9147	* 1.9620	* 2.0790	* 1.8802	* 4.1142
	* 2.2606	* 2.2576	* 2.1127	* 1.8685	* 2.0254	* 2.1889	* 1.9741	* 4.1570
	* 2.3312	* 2.3367	* 2.1724	* 1.8878	* 2.0783	* 2.2647	* 2.0221	* 4.0500
	* 2.3636	* 2.3765	* 2.2307	* 1.9613	* 2.1490	* 2.3091	* 2.0586	* 3.8107

11	* 1.9553	* 1.9751	* 1.9865	* 2.0458	* 1.8722	* 1.8473	* 1.6930	* 3.8190
	* 2.0272	* 2.0447	* 2.0104	* 2.0046	* 1.8740	* 1.9028	* 1.7748	* 3.8959
	* 2.0114	* 2.0752	* 1.9459	* 1.9768	* 1.8798	* 1.9539	* 1.8575	* 4.0044
	* 1.9600	* 2.0618	* 1.9192	* 1.9678	* 1.8676	* 2.0161	* 1.9479	* 4.1152
	* 1.9040	* 2.0707	* 1.8717	* 1.9875	* 1.8520	* 2.1203	* 2.0916	* 4.2467
	* 1.9176	* 2.1171	* 1.8910	* 2.0465	* 1.8932	* 2.2009	* 2.1568	* 4.1883
	* 1.9717	* 2.1754	* 1.9635	* 2.1202	* 1.9642	* 2.2481	* 2.1665	* 3.9293

12	* 2.1112	* 1.9252	* 1.8469	* 1.8731	* 1.8541	* 1.6932	* 2.6880	*
	* 2.0762	* 1.9562	* 1.8875	* 1.8751	* 1.8688	* 1.7013	* 2.7683	*
	* 2.0363	* 1.9516	* 1.9268	* 1.8798	* 1.8724	* 1.7300	* 2.8780	*
	* 2.0124	* 1.9268	* 1.9631	* 1.8687	* 1.8960	* 1.7838	* 2.9893	*
	* 2.0052	* 1.8778	* 2.0255	* 1.8541	* 1.9613	* 1.8953	* 3.1554	*
	* 2.0424	* 1.8861	* 2.0797	* 1.8942	* 2.0391	* 1.9768	* 3.2175	*
	* 2.1060	* 1.9525	* 2.1504	* 1.9652	* 2.1097	* 2.0243	* 3.1181	*

13	* 2.0674	* 1.9585	* 1.8561	* 1.8483	* 1.6941	* 1.6382	* 3.2748	*
	* 2.0830	* 2.0159	* 1.9363	* 1.9039	* 1.7013	* 1.7026	* 3.3756	*
	* 2.0294	* 2.0601	* 2.0126	* 1.9550	* 1.7300	* 1.7789	* 3.5160	*
	* 1.9838	* 2.0877	* 2.0803	* 2.0161	* 1.7837	* 1.8730	* 3.6566	*
	* 1.9149	* 2.1029	* 2.1890	* 2.1216	* 1.8953	* 2.0225	* 3.8334	*
	* 1.9067	* 2.1395	* 2.2647	* 2.2022	* 1.9778	* 2.1155	* 3.8554	*
	* 1.9501	* 2.1803	* 2.3075	* 2.2481	* 2.0243	* 2.1513	* 3.6515	*

14	* 2.1056	* 1.8139	* 1.7312	* 1.6939	* 2.6880	* 3.2748	*	*
	* 2.1201	* 1.8429	* 1.7716	* 1.7758	* 2.7706	* 3.3757	*	*
	* 2.1296	* 1.8565	* 1.8190	* 1.8586	* 2.8781	* 3.5160	*	*
	* 2.1418	* 1.8880	* 1.8802	* 1.9479	* 2.9894	* 3.6566	*	*
	* 2.1763	* 1.9580	* 1.9728	* 2.0916	* 3.1554	* 3.8334	*	*
	* 2.1912	* 2.0009	* 2.0221	* 2.1568	* 3.2175	* 3.8554	*	*
	* 2.1981	* 2.0166	* 2.0586	* 2.1665	* 3.1181	* 3.6515	*	*

15	* 3.9046	* 3.0911	* 3.9522	* 3.8190	* 4 EFPD 118 % POWER			
	* 3.9576	* 3.1323	* 3.9858	* 3.8958	* 50 EFPD 118 % POWER			
	* 4.0070	* 3.1836	* 4.0487	* 4.0043	* 100 EFPD 118 % POWER			
	* 4.0429	* 3.2365	* 4.1139	* 4.1203	* 150 EFPD 118 % POWER			
	* 4.0388	* 3.2909	* 4.1568	* 4.2466	* 250 EFPD 118 % POWER			
	* 3.9263	* 3.2404	* 4.0498	* 4.1883	* 350 EFPD 118 % POWER			
	* 3.6755	* 3.0858	* 3.8106	* 3.9292	* 475 EFPD 118 % POWER			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 5 (CONTINUED)

THIS IS LEVEL 13 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A

8	* 2.8422	* 2.0896	* 2.0265	* 2.0741	* 2.2345	* 2.1740	* 2.2123	* 4.1164
	* 3.0340	* 2.2247	* 2.1659	* 2.1364	* 2.1909	* 2.1848	* 2.2238	* 4.1650
	* 3.1896	* 2.3447	* 2.2559	* 2.1250	* 2.1548	* 2.1396	* 2.2416	* 4.2253
	* 3.3015	* 2.4304	* 2.3104	* 2.0831	* 2.1414	* 2.1019	* 2.2687	* 4.2875
	* 3.4532	* 2.5722	* 2.4188	* 2.0518	* 2.1639	* 2.0581	* 2.3360	* 4.3277
	* 3.4991	* 2.6642	* 2.5141	* 2.0873	* 2.2293	* 2.0747	* 2.3817	* 4.2429
	* 3.4382	* 2.6983	* 2.5730	* 2.1415	* 2.2921	* 2.1126	* 2.3762	* 3.9718

9	* 2.0896	* 2.0204	* 2.0489	* 2.0994	* 2.0287	* 2.0678	* 1.9071	* 3.2617
	* 2.2247	* 2.0999	* 2.1620	* 2.1655	* 2.0577	* 2.1252	* 1.9327	* 3.2978
	* 2.3447	* 2.1547	* 2.2428	* 2.2025	* 2.0612	* 2.1821	* 1.9543	* 3.3613
	* 2.4304	* 2.1981	* 2.2996	* 2.1958	* 2.0471	* 2.2237	* 1.9998	* 3.4377
	* 2.5722	* 2.2305	* 2.4172	* 2.2364	* 2.0252	* 2.2709	* 2.1012	* 3.5389
	* 2.6642	* 2.2812	* 2.5225	* 2.3078	* 2.0604	* 2.3377	* 2.1723	* 3.5178
	* 2.6983	* 2.3341	* 2.5905	* 2.3719	* 2.1230	* 2.3708	* 2.1785	* 3.3374

10	* 2.0265	* 2.0489	* 2.0553	* 2.0999	* 1.9451	* 1.9597	* 1.8170	* 4.1626
	* 2.1659	* 2.1634	* 2.1648	* 2.1091	* 1.9866	* 2.0418	* 1.8578	* 4.1895
	* 2.2559	* 2.2442	* 2.2131	* 2.0496	* 2.0363	* 2.1315	* 1.9140	* 4.2703
	* 2.3104	* 2.3011	* 2.2144	* 2.0334	* 2.0858	* 2.2168	* 1.9910	* 4.3659
	* 2.4188	* 2.4190	* 2.2748	* 2.0119	* 2.1856	* 2.3633	* 2.1184	* 4.4623
	* 2.5141	* 2.5244	* 2.3603	* 2.0584	* 2.2685	* 2.4712	* 2.1959	* 4.3855
	* 2.5730	* 2.5905	* 2.4291	* 2.1266	* 2.3378	* 2.5104	* 2.2232	* 4.1222

11	* 2.0741	* 2.0994	* 2.1040	* 2.1642	* 1.9768	* 1.9500	* 1.7817	* 4.0252
	* 2.1364	* 2.1655	* 2.1162	* 2.1181	* 1.9756	* 2.0095	* 1.8657	* 4.1007
	* 2.1250	* 2.2025	* 2.0562	* 2.0960	* 1.9914	* 2.0728	* 1.9616	* 4.2267
	* 2.0831	* 2.1943	* 2.0398	* 2.0969	* 1.9905	* 2.1536	* 2.0686	* 4.3738
	* 2.0518	* 2.2334	* 2.0156	* 2.1487	* 2.0016	* 2.2968	* 2.2498	* 4.5477
	* 2.0873	* 2.3062	* 2.0609	* 2.2312	* 2.0566	* 2.3931	* 2.3359	* 4.5178
	* 2.1415	* 2.3702	* 2.1291	* 2.3043	* 2.1233	* 2.4285	* 2.3339	* 4.2448

12	* 2.2345	* 2.0289	* 1.9473	* 1.9778	* 1.9610	* 1.7885	* 2.8426	*
	* 2.1909	* 2.0577	* 1.9878	* 1.9769	* 1.9740	* 1.7949	* 2.9251	*
	* 2.1548	* 2.0612	* 2.0375	* 1.9926	* 1.9872	* 1.8347	* 3.0538	*
	* 2.1414	* 2.0471	* 2.0870	* 1.9917	* 2.0258	* 1.9046	* 3.1950	*
	* 2.1639	* 2.0227	* 2.1871	* 2.0040	* 2.1270	* 2.0537	* 3.4140	*
	* 2.2293	* 2.0579	* 2.2685	* 2.0591	* 2.2216	* 2.1488	* 3.4861	*
	* 2.2921	* 2.1203	* 2.3379	* 2.1245	* 2.2835	* 2.1843	* 3.3616	*

13	* 2.1740	* 2.0678	* 1.9597	* 1.9511	* 1.7885	* 1.7311	* 3.4686	*
	* 2.1848	* 2.1239	* 2.0430	* 2.0107	* 1.7949	* 1.7974	* 3.5744	*
	* 2.1396	* 2.1820	* 2.1329	* 2.0741	* 1.8347	* 1.8888	* 3.7407	*
	* 2.1019	* 2.2222	* 2.2183	* 2.1536	* 1.9046	* 2.0019	* 3.9142	*
	* 2.0581	* 2.2694	* 2.3633	* 2.2968	* 2.0537	* 2.1924	* 4.1591	*
	* 2.0747	* 2.3360	* 2.4713	* 2.3931	* 2.1488	* 2.2998	* 4.1734	*
	* 2.1126	* 2.3707	* 2.5085	* 2.4285	* 2.1843	* 2.3202	* 3.9428	*

14	* 2.2123	* 1.9071	* 1.8180	* 1.7827	* 2.8426	* 3.4687	*	*
	* 2.2238	* 1.9327	* 1.8578	* 1.8668	* 2.9277	* 3.5744	*	*
	* 2.2416	* 1.9543	* 1.9139	* 1.9628	* 3.0538	* 3.7407	*	*
	* 2.2687	* 1.9998	* 1.9910	* 2.0686	* 3.1950	* 3.9143	*	*
	* 2.3360	* 2.1012	* 2.1183	* 2.2498	* 3.4140	* 4.1592	*	*
	* 2.3817	* 2.1724	* 2.1959	* 2.3359	* 3.4861	* 4.1735	*	*
	* 2.3762	* 2.1786	* 2.2232	* 2.3339	* 3.3616	* 3.9429	*	*

15	* 4.1164	* 3.2585	* 4.1674	* 4.0251	* 4 EFPD 118	* POWER		
	* 4.1650	* 3.2946	* 4.1944	* 4.1007	* 50 EFPD 118	* POWER		
	* 4.2253	* 3.3613	* 4.2754	* 4.2321	* 100 EFPD 118	* POWER		
	* 4.2875	* 3.4343	* 4.3712	* 4.3738	* 150 EFPD 118	* POWER		
	* 4.3277	* 3.5388	* 4.4621	* 4.5477	* 250 EFPD 118	* POWER		
	* 4.2429	* 3.5177	* 4.3853	* 4.5178	* 350 EFPD 118	* POWER		
	* 3.9718	* 3.3340	* 4.1220	* 4.2448	* 475 EFPD 118	* POWER		

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 5 (CONTINUED)

M-SUB-C VALUES (F-SUB-Q RPS MARGIN) NORMAL OPERATION
THIS IS LEVEL 12 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	* 3.0046	* 2.2012	* 2.1368	* 2.1765	* 2.3431	* 2.2971	* 2.3464	* 4.3102
	* 3.1035	* 2.2863	* 2.2184	* 2.1914	* 2.2477	* 2.2684	* 2.3139	* 4.3466
	* 3.1971	* 2.3664	* 2.2632	* 2.1275	* 2.1573	* 2.1539	* 2.2824	* 4.3320
	* 3.2835	* 2.4368	* 2.3035	* 2.0677	* 2.1264	* 2.1044	* 2.2979	* 4.3744
	* 3.4822	* 2.6118	* 2.4395	* 2.0617	* 2.1776	* 2.0924	* 2.4040	* 4.5027
	* 3.6463	* 2.7765	* 2.6118	* 2.1700	* 2.3168	* 2.1856	* 2.5277	* 4.5513
	* 3.6698	* 2.9019	* 2.7832	* 2.3335	* 2.5000	* 2.3110	* 2.6010	* 4.3544
9	* 2.2012	* 2.1219	* 2.1590	* 2.2093	* 2.1453	* 2.2013	* 2.0294	* 3.4341
	* 2.2863	* 2.1545	* 2.2100	* 2.2137	* 2.1145	* 2.1956	* 2.0094	* 3.4563
	* 2.3664	* 2.1690	* 2.2467	* 2.1980	* 2.0718	* 2.1999	* 1.9911	* 3.4574
	* 2.4368	* 2.2019	* 2.2881	* 2.1782	* 2.0388	* 2.2261	* 2.0301	* 3.5236
	* 2.6118	* 2.2594	* 2.4362	* 2.2451	* 2.0453	* 2.3049	* 2.1687	* 3.6874
	* 2.7765	* 2.3769	* 2.6209	* 2.3950	* 2.1509	* 2.4486	* 2.3142	* 3.7761
	* 2.9019	* 2.5256	* 2.8040	* 2.5817	* 2.3179	* 2.5904	* 2.3878	* 3.6558
10	* 2.1368	* 2.1604	* 2.1688	* 2.2038	* 2.0744	* 2.0895	* 1.9357	* 4.3658
	* 2.2184	* 2.2129	* 2.2115	* 2.1569	* 2.0419	* 2.1040	* 1.9286	* 4.3670
	* 2.2632	* 2.2481	* 2.2111	* 2.0507	* 2.0472	* 2.1513	* 1.9504	* 4.3735
	* 2.3035	* 2.2896	* 2.1994	* 2.0200	* 2.0830	* 2.2265	* 2.0237	* 4.4620
	* 2.4395	* 2.4379	* 2.2869	* 2.0291	* 2.2038	* 2.4035	* 2.1944	* 4.6382
	* 2.6118	* 2.6230	* 2.4517	* 2.1459	* 2.3643	* 2.5955	* 2.3494	* 4.7103
	* 2.7832	* 2.8040	* 2.6434	* 2.3254	* 2.5544	* 2.7440	* 2.4363	* 4.5103
11	* 2.1765	* 2.2093	* 2.2083	* 2.2859	* 2.1044	* 2.0786	* 1.8988	* 4.2316
	* 2.1914	* 2.2137	* 2.1658	* 2.1697	* 2.0345	* 2.0736	* 1.9383	* 4.2713
	* 2.1275	* 2.1980	* 2.0573	* 2.0972	* 2.0052	* 2.0998	* 2.0025	* 4.3338
	* 2.0677	* 2.1782	* 2.0251	* 2.0859	* 2.0002	* 2.1744	* 2.1081	* 4.4755
	* 2.0617	* 2.2435	* 2.0329	* 2.1650	* 2.0418	* 2.3624	* 2.3412	* 4.7577
	* 2.1700	* 2.3950	* 2.1486	* 2.3222	* 2.1653	* 2.5362	* 2.5091	* 4.8635
	* 2.3335	* 2.5796	* 2.3284	* 2.5185	* 2.3232	* 2.6572	* 2.5619	* 4.6457
12	* 2.3431	* 2.1454	* 2.0756	* 2.1056	* 2.0912	* 1.9057	* 3.0266	*
	* 2.2477	* 2.1145	* 2.0444	* 2.0358	* 2.0297	* 1.8565	* 3.0275	*
	* 2.1573	* 2.0718	* 2.0485	* 2.0052	* 2.0036	* 1.8639	* 3.1097	*
	* 2.1264	* 2.0389	* 2.0830	* 2.0014	* 2.0355	* 1.9322	* 3.2468	*
	* 2.1776	* 2.0415	* 2.2052	* 2.0430	* 2.1760	* 2.1265	* 3.5352	*
	* 2.3168	* 2.1481	* 2.3643	* 2.1681	* 2.3458	* 2.2938	* 3.7221	*
	* 2.5000	* 2.3148	* 2.5545	* 2.3247	* 2.4970	* 2.3926	* 3.6790	*
13	* 2.2971	* 2.2013	* 2.0895	* 2.0798	* 1.9057	* 1.8427	* 3.6768	*
	* 2.2684	* 2.1942	* 2.1053	* 2.0749	* 1.8565	* 1.8669	* 3.7073	*
	* 2.1539	* 2.1999	* 2.1527	* 2.1011	* 1.8650	* 1.9303	* 3.8240	*
	* 2.1044	* 2.2246	* 2.2265	* 2.1758	* 1.9333	* 2.0456	* 4.0007	*
	* 2.0924	* 2.3033	* 2.4035	* 2.3624	* 2.1265	* 2.2760	* 4.3347	*
	* 2.1856	* 2.4468	* 2.5955	* 2.5362	* 2.2954	* 2.4639	* 4.4938	*
	* 2.3110	* 2.5904	* 2.7440	* 2.6572	* 2.3926	* 2.5439	* 4.3173	*
14	* 2.3464	* 2.0294	* 1.9357	* 1.8987	* 3.0294	* 3.6768	*	*
	* 2.3139	* 2.0081	* 1.9298	* 1.9395	* 3.0275	* 3.7073	*	*
	* 2.2824	* 1.9898	* 1.9504	* 2.0038	* 3.1097	* 3.8240	*	*
	* 2.2979	* 2.0288	* 2.0237	* 2.1081	* 3.2468	* 4.0008	*	*
	* 2.4040	* 2.1687	* 2.1944	* 2.3412	* 3.5352	* 4.3347	*	*
	* 2.5277	* 2.3142	* 2.3494	* 2.5091	* 3.7221	* 4.4938	*	*
	* 2.6010	* 2.3879	* 2.4363	* 2.5619	* 3.6791	* 4.3173	*	*
15	* 4.3102	* 3.4342	* 4.3654	* 4.2316	* 4 EFPD 118 % POWER			
	* 4.3466	* 3.4528	* 4.3723	* 4.2712	* 50 EFPD 118 % POWER			
	* 4.3320	* 3.4575	* 4.3789	* 4.3394	* 100 EFPD 118 % POWER			
	* 4.3744	* 3.5236	* 4.4616	* 4.4755	* 150 EFPD 118 % POWER			
	* 4.5027	* 3.6833	* 4.6379	* 4.7645	* 250 EFPD 118 % POWER			
	* 4.5513	* 3.7760	* 4.7100	* 4.8635	* 350 EFPD 118 % POWER			
	* 4.3544	* 3.6558	* 4.5101	* 4.6457	* 475 EFPD 118 % POWER			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 5 (CONTINUED)

THIS IS LEVEL 11 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A

8	* 2.9039	* 2.1427	* 2.0752	* 2.1190	* 2.2954	* 2.2438	* 2.2906	* 4.2755
	* 2.9907	* 2.1986	* 2.1398	* 2.1034	* 2.1614	* 2.1683	* 2.2107	* 4.1604
	* 3.0807	* 2.2662	* 2.1773	* 2.0453	* 2.0778	* 2.0684	* 2.1863	* 4.1469
	* 3.1577	* 2.3280	* 2.2117	* 1.9857	* 2.0467	* 2.0170	* 2.2020	* 4.1908
	* 3.3060	* 2.4810	* 2.3232	* 1.9584	* 2.0728	* 1.9861	* 2.2823	* 4.2568
	* 3.4382	* 2.6413	* 2.4879	* 2.0610	* 2.2055	* 2.0725	* 2.3969	* 4.3107
	* 3.4944	* 2.7734	* 2.6579	* 2.2271	* 2.3876	* 2.2186	* 2.5116	* 4.2119

9	* 2.1427	* 2.0628	* 2.0974	* 2.1517	* 2.0827	* 2.1332	* 1.9668	* 3.3998
	* 2.1986	* 2.0694	* 2.1347	* 2.1368	* 2.0312	* 2.1080	* 1.9199	* 3.3107
	* 2.2662	* 2.0767	* 2.1650	* 2.1236	* 1.9938	* 2.1188	* 1.9063	* 3.3249
	* 2.3280	* 2.1034	* 2.2017	* 2.1012	* 1.9604	* 2.1414	* 1.9453	* 3.3894
	* 2.4810	* 2.1469	* 2.3232	* 2.1391	* 1.9437	* 2.1946	* 2.0599	* 3.4912
	* 2.6413	* 2.2587	* 2.4998	* 2.2824	* 2.0414	* 2.3326	* 2.1963	* 3.5815
	* 2.7734	* 2.4073	* 2.6766	* 2.4638	* 2.2163	* 2.4883	* 2.3080	* 3.5495

10	* 2.0752	* 2.0987	* 2.1066	* 2.1484	* 1.9993	* 2.0184	* 1.8767	* 4.3186
	* 2.1398	* 2.1360	* 2.1374	* 2.0785	* 1.9646	* 2.0259	* 1.8472	* 4.1900
	* 2.1773	* 2.1664	* 2.1373	* 1.9792	* 1.9743	* 2.0788	* 1.8714	* 4.2010
	* 2.2117	* 2.2032	* 2.1261	* 1.9478	* 2.0088	* 2.1499	* 1.9442	* 4.2824
	* 2.3232	* 2.3232	* 2.1841	* 1.9326	* 2.1048	* 2.2980	* 2.0886	* 4.3979
	* 2.4879	* 2.4998	* 2.3371	* 2.0407	* 2.2530	* 2.4784	* 2.2341	* 4.4684
	* 2.6579	* 2.6788	* 2.5219	* 2.2230	* 2.4407	* 2.6341	* 2.3598	* 4.3779

11	* 2.1190	* 2.1517	* 2.1526	* 2.2213	* 2.0263	* 2.0057	* 1.8378	* 4.1818
	* 2.1034	* 2.1368	* 2.0868	* 2.0879	* 1.9489	* 1.9882	* 1.8550	* 4.1112
	* 2.0453	* 2.1236	* 1.9853	* 2.0268	* 1.9276	* 2.0208	* 1.9250	* 4.1794
	* 1.9857	* 2.0985	* 1.9525	* 2.0153	* 1.9227	* 2.0958	* 2.0296	* 4.3118
	* 1.9584	* 2.1377	* 1.9360	* 2.0676	* 1.9443	* 2.2547	* 2.2284	* 4.5233
	* 2.0610	* 2.2808	* 2.0431	* 2.2147	* 2.0585	* 2.4188	* 2.3862	* 4.6443
	* 2.2271	* 2.4637	* 2.2258	* 2.4043	* 2.2348	* 2.5649	* 2.4838	* 4.5232

12	* 2.2954	* 2.0829	* 2.0005	* 2.0274	* 2.0126	* 1.8354	* 2.9249	*
	* 2.1614	* 2.0312	* 1.9658	* 1.9501	* 1.9466	* 1.7740	* 2.9052	*
	* 2.0778	* 1.9938	* 1.9743	* 1.9287	* 1.9271	* 1.7877	* 2.9966	*
	* 2.0467	* 1.9605	* 2.0088	* 1.9238	* 1.9600	* 1.8556	* 3.1323	*
	* 2.0728	* 1.9402	* 2.1061	* 1.9465	* 2.0780	* 2.0272	* 3.3659	*
	* 2.2055	* 2.0389	* 2.2530	* 2.0623	* 2.2375	* 2.1842	* 3.5460	*
	* 2.3876	* 2.2134	* 2.4407	* 2.2362	* 2.4072	* 2.3193	* 3.5690	*

13	* 2.2438	* 2.1333	* 2.0196	* 2.0069	* 1.8364	* 1.7806	* 3.5769	*
	* 2.1683	* 2.1080	* 2.0259	* 1.9894	* 1.7740	* 1.7814	* 3.5594	*
	* 2.0684	* 2.1188	* 2.0800	* 2.0220	* 1.7877	* 1.8507	* 3.6871	*
	* 2.0170	* 2.1400	* 2.1499	* 2.0971	* 1.8567	* 1.9643	* 3.8645	*
	* 1.9861	* 2.1946	* 2.2980	* 2.2548	* 2.0272	* 2.1693	* 4.1183	*
	* 2.0725	* 2.3309	* 2.4766	* 2.4188	* 2.1842	* 2.3454	* 4.2765	*
	* 2.2186	* 2.4863	* 2.6341	* 2.5649	* 2.3193	* 2.4683	* 4.1989	*

14	* 2.2906	* 1.9669	* 1.8779	* 1.8377	* 2.9249	* 3.5769	*	*
	* 2.2107	* 1.9199	* 1.8472	* 1.8561	* 2.9077	* 3.5594	*	*
	* 2.1863	* 1.9063	* 1.8725	* 1.9262	* 2.9966	* 3.6871	*	*
	* 2.2020	* 1.9441	* 1.9442	* 2.0308	* 3.1353	* 3.8646	*	*
	* 2.2823	* 2.0599	* 2.0886	* 2.2284	* 3.3659	* 4.1183	*	*
	* 2.3969	* 2.1948	* 2.2341	* 2.3862	* 3.5460	* 4.2765	*	*
	* 2.5116	* 2.3080	* 2.3598	* 2.4838	* 3.5690	* 4.1990	*	*

15	* 4.2755	* 3.3998	* 4.3183	* 4.1817	* 4 EFPD	118 % POWER		
	* 4.1604	* 3.3107	* 4.1896	* 4.1112	* 50 EFPD	118 % POWER		
	* 4.1469	* 3.3216	* 4.2059	* 4.1794	* 100 EFPD	118 % POWER		
	* 4.1908	* 3.3861	* 4.2875	* 4.3118	* 150 EFPD	118 % POWER		
	* 4.2568	* 3.4912	* 4.3977	* 4.5233	* 250 EFPD	118 % POWER		
	* 4.3107	* 3.5814	* 4.4681	* 4.6443	* 350 EFPD	118 % POWER		
	* 4.2119	* 3.5494	* 4.3834	* 4.5231	* 475 EFPD	118 % POWER		

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 5 (CONTINUED)

M-SUB-C VALUES (F-SUB-Q RPS MARGIN) NORMAL OPERATION
THIS IS LEVEL 10 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A

8	* 2.7929	* 2.0504	* 1.9956	* 2.0237	* 2.1925	* 2.1511	* 2.1936	* 4.0603
	* 2.8928	* 2.1134	* 2.0553	* 2.0130	* 2.0713	* 2.0821	* 2.1230	* 3.9587
	* 2.9882	* 2.1833	* 2.0942	* 1.9555	* 1.9969	* 1.9828	* 2.0980	* 3.9438
	* 3.0577	* 2.2390	* 2.1230	* 1.9004	* 1.9697	* 1.9338	* 2.1046	* 3.9643
	* 3.0795	* 2.3044	* 2.1744	* 1.8265	* 1.9390	* 1.8527	* 2.1312	* 3.9899
	* 3.1881	* 2.4455	* 2.3085	* 1.9078	* 2.0490	* 1.9214	* 2.2232	* 4.0001
	* 3.2509	* 2.5868	* 2.4853	* 2.0859	* 2.2392	* 2.0772	* 2.3469	* 3.9313

9	* 2.0504	* 1.9686	* 2.0161	* 2.0662	* 2.0015	* 2.0554	* 1.8884	* 3.2432
	* 2.1134	* 1.9818	* 2.0506	* 2.0487	* 1.9541	* 2.0419	* 1.8477	* 3.1637
	* 2.1833	* 1.9928	* 2.0813	* 2.0403	* 1.9188	* 2.0497	* 1.8325	* 3.1691
	* 2.2390	* 2.0154	* 2.1137	* 2.0173	* 1.8840	* 2.0629	* 1.8614	* 3.2124
	* 2.3044	* 1.9978	* 2.1758	* 2.0014	* 1.8108	* 2.0534	* 1.9202	* 3.2699
	* 2.4455	* 2.0853	* 2.3190	* 2.1190	* 1.8917	* 2.1663	* 2.0338	* 3.3179
	* 2.5868	* 2.2441	* 2.5062	* 2.3100	* 2.0766	* 2.3321	* 2.1568	* 3.3104

10	* 1.9956	* 2.0161	* 2.0258	* 2.0509	* 1.9230	* 1.9430	* 1.7968	* 4.1094
	* 2.0553	* 2.0506	* 2.0519	* 1.9864	* 1.8984	* 1.9591	* 1.7762	* 4.0047
	* 2.0942	* 2.0826	* 2.0495	* 1.8962	* 1.9096	* 2.0145	* 1.8085	* 4.0119
	* 2.1230	* 2.1150	* 2.0365	* 1.8658	* 1.9397	* 2.0760	* 1.8693	* 4.0661
	* 2.1744	* 2.1768	* 2.0406	* 1.7981	* 1.9652	* 2.1478	* 1.9428	* 4.1191
	* 2.3085	* 2.3206	* 2.1700	* 1.8919	* 2.0928	* 2.3008	* 2.0662	* 4.1401
	* 2.4853	* 2.5073	* 2.3654	* 2.0878	* 2.2936	* 2.4730	* 2.2080	* 4.0866

11	* 2.0237	* 2.0662	* 2.0533	* 2.1369	* 1.9505	* 1.9311	* 1.7616	* 3.9756
	* 2.0130	* 2.0487	* 1.9940	* 2.0145	* 1.8824	* 1.9227	* 1.7854	* 3.9300
	* 1.9555	* 2.0391	* 1.9018	* 1.9531	* 1.8631	* 1.9611	* 1.8584	* 4.0023
	* 1.9004	* 2.0161	* 1.8712	* 1.9426	* 1.8569	* 2.0344	* 1.9598	* 4.1084
	* 1.8265	* 2.0002	* 1.8010	* 1.9310	* 1.8114	* 2.1079	* 2.0748	* 4.2259
	* 1.9078	* 2.1177	* 1.8951	* 2.0593	* 1.9117	* 2.2487	* 2.2096	* 4.2950
	* 2.0859	* 2.3100	* 2.0903	* 2.2599	* 2.1025	* 2.4123	* 2.3257	* 4.2170

12	* 2.1925	* 2.0016	* 1.9241	* 1.9515	* 1.9397	* 1.7639	* 2.8179	*
	* 2.0713	* 1.9541	* 1.8994	* 1.8824	* 1.8826	* 1.7104	* 2.8111	*
	* 1.9969	* 1.9188	* 1.9096	* 1.8641	* 1.8696	* 1.7294	* 2.8991	*
	* 1.9697	* 1.8840	* 1.9397	* 1.8601	* 1.9017	* 1.7974	* 3.0232	*
	* 1.9390	* 1.8088	* 1.9663	* 1.8134	* 1.9438	* 1.8921	* 3.1544	*
	* 2.0490	* 1.8895	* 2.0928	* 1.9149	* 2.0819	* 2.0247	* 3.2890	*
	* 2.2392	* 2.0742	* 2.2937	* 2.1050	* 2.2683	* 2.1779	* 3.3433	*

13	* 2.1511	* 2.0554	* 1.9441	* 1.9323	* 1.7649	* 1.7104	* 3.4462	*
	* 2.0821	* 2.0419	* 1.9602	* 1.9238	* 1.7113	* 1.7172	* 3.4405	*
	* 1.9828	* 2.0497	* 2.0146	* 1.9622	* 1.7304	* 1.7901	* 3.5635	*
	* 1.9338	* 2.0617	* 2.0773	* 2.0356	* 1.7974	* 1.9035	* 3.7248	*
	* 1.8527	* 2.0522	* 2.1478	* 2.1079	* 1.8932	* 2.0247	* 3.8631	*
	* 1.9214	* 2.1660	* 2.3008	* 2.2488	* 2.0248	* 2.1716	* 3.9531	*
	* 2.0772	* 2.3320	* 2.4730	* 2.4141	* 2.1778	* 2.3131	* 3.9223	*

14	* 2.1936	* 1.8884	* 1.7968	* 1.7625	* 2.8203	* 3.4462	*	*
	* 2.1230	* 1.8477	* 1.7772	* 1.7854	* 2.8135	* 3.4406	*	*
	* 2.0980	* 1.8315	* 1.8085	* 1.8595	* 2.8991	* 3.5635	*	*
	* 2.1046	* 1.8614	* 1.8693	* 1.9598	* 3.0232	* 3.7248	*	*
	* 2.1312	* 1.9190	* 1.9428	* 2.0748	* 3.1545	* 3.8632	*	*
	* 2.2232	* 2.0328	* 2.0662	* 2.2096	* 3.2891	* 3.9532	*	*
	* 2.3469	* 2.1562	* 2.2080	* 2.3257	* 3.3433	* 3.9224	*	*

15	* 4.0603	* 3.2401	* 4.1091	* 3.9803	* 4 EFPD 118 % POWER			
	* 3.9587	* 3.1637	* 4.0065	* 3.9300	* 50 EFPD 118 % POWER			
	* 3.9438	* 3.1661	* 4.0116	* 4.0023	* 100 EFPD 118 % POWER			
	* 3.9643	* 3.2124	* 4.0707	* 4.1084	* 150 EFPD 118 % POWER			
	* 3.9899	* 3.2698	* 4.1189	* 4.2259	* 250 EFPD 118 % POWER			
	* 4.0001	* 3.3178	* 4.1398	* 4.2950	* 350 EFPD 118 % POWER			
	* 3.9313	* 3.3089	* 4.0864	* 4.2170	* 475 EFPD 118 % POWER			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 5 (CONTINUED)

THIS IS LEVEL 9 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A

8	* 2.6774	* 1.9587	* 1.9037	* 1.9254	* 2.0793	* 2.0312	* 2.0657	* 3.8303
	* 2.7716	* 2.0118	* 1.9546	* 1.9093	* 1.9610	* 1.9611	* 2.0058	* 3.7341
	* 2.8459	* 2.0669	* 1.9810	* 1.8457	* 1.8864	* 1.8668	* 1.9808	* 3.7190
	* 2.8910	* 2.1086	* 1.9982	* 1.7861	* 1.8529	* 1.8136	* 1.9844	* 3.7330
	* 2.8869	* 2.1513	* 2.0276	* 1.7169	* 1.8271	* 1.7424	* 2.0070	* 3.7346
	* 2.9598	* 2.2677	* 2.1461	* 1.7648	* 1.8997	* 1.7774	* 2.0607	* 3.7249
	* 3.0048	* 2.3899	* 2.3046	* 1.9261	* 2.0727	* 1.9187	* 2.1692	* 3.6496

9	* 1.9587	* 1.8765	* 1.9229	* 1.9654	* 1.9002	* 1.9396	* 1.7843	* 3.0557
	* 2.0118	* 1.8812	* 1.9484	* 1.9452	* 1.8504	* 1.9343	* 1.7469	* 2.9766
	* 2.0669	* 1.8834	* 1.9695	* 1.9296	* 1.8121	* 1.9344	* 1.7302	* 2.9815
	* 2.1086	* 1.8963	* 1.9911	* 1.8990	* 1.7718	* 1.9392	* 1.7546	* 3.0172
	* 2.1513	* 1.8611	* 2.0284	* 1.8796	* 1.7026	* 1.9357	* 1.8059	* 3.0687
	* 2.2677	* 1.9351	* 2.1554	* 1.9656	* 1.7491	* 2.0100	* 1.8832	* 3.0890
	* 2.3899	* 2.0752	* 2.3242	* 2.1398	* 1.9168	* 2.1599	* 1.9916	* 3.0691

10	* 1.9037	* 1.9234	* 1.9306	* 1.9526	* 1.8290	* 1.8483	* 1.6978	* 3.8675
	* 1.9546	* 1.9503	* 1.9503	* 1.8930	* 1.8110	* 1.8711	* 1.6839	* 3.7558
	* 1.9810	* 1.9718	* 1.9432	* 1.8031	* 1.8082	* 1.9127	* 1.7080	* 3.7645
	* 1.9982	* 1.9922	* 1.9235	* 1.7654	* 1.8283	* 1.9563	* 1.7598	* 3.8076
	* 2.0276	* 2.0296	* 1.9114	* 1.6879	* 1.8486	* 2.0196	* 1.8260	* 3.8498
	* 2.1461	* 2.1565	* 2.0129	* 1.7465	* 1.9379	* 2.1361	* 1.9121	* 3.8470
	* 2.3046	* 2.3249	* 2.1898	* 1.9247	* 2.1212	* 2.2904	* 2.0387	* 3.7814

11	* 1.9254	* 1.9654	* 1.9560	* 2.0350	* 1.8624	* 1.8435	* 1.6784	* 3.7577
	* 1.9093	* 1.9452	* 1.8999	* 1.9260	* 1.8087	* 1.8509	* 1.7022	* 3.6988
	* 1.8457	* 1.9285	* 1.8093	* 1.8636	* 1.7873	* 1.8876	* 1.7670	* 3.7544
	* 1.7861	* 1.8979	* 1.7692	* 1.8418	* 1.7673	* 1.9407	* 1.8439	* 3.8475
	* 1.7169	* 1.8785	* 1.6913	* 1.8149	* 1.6962	* 1.9774	* 1.9477	* 3.9457
	* 1.7648	* 1.9644	* 1.7492	* 1.9054	* 1.7637	* 2.0819	* 2.0433	* 3.9946
	* 1.9261	* 2.1384	* 1.9273	* 2.0896	* 1.9374	* 2.2282	* 2.1444	* 3.9054

12	* 2.0793	* 1.9004	* 1.8310	* 1.8644	* 1.8625	* 1.6950	* 2.6890	*
	* 1.9610	* 1.8504	* 1.8110	* 1.8097	* 1.8108	* 1.6520	* 2.6891	*
	* 1.8864	* 1.8121	* 1.8092	* 1.7882	* 1.8007	* 1.6693	* 2.7624	*
	* 1.8529	* 1.7718	* 1.8293	* 1.7712	* 1.8276	* 1.7283	* 2.8623	*
	* 1.8271	* 1.7008	* 1.8496	* 1.6979	* 1.8196	* 1.7696	* 2.9533	*
	* 1.8997	* 1.7470	* 1.9391	* 1.7664	* 1.9248	* 1.8717	* 3.0529	*
	* 2.0727	* 1.9153	* 2.1213	* 1.9384	* 2.0930	* 2.0083	* 3.0907	*

13	* 2.0312	* 1.9396	* 1.8493	* 1.8445	* 1.6960	* 1.6426	* 3.2832	*
	* 1.9611	* 1.9335	* 1.8722	* 1.8519	* 1.6520	* 1.6591	* 3.2909	*
	* 1.8668	* 1.9344	* 1.9138	* 1.8886	* 1.6693	* 1.7313	* 3.3996	*
	* 1.8136	* 1.9380	* 1.9563	* 1.9418	* 1.7283	* 1.8269	* 3.5273	*
	* 1.7424	* 1.9346	* 2.0196	* 1.9774	* 1.7696	* 1.8935	* 3.6066	*
	* 1.7774	* 2.0097	* 2.1351	* 2.0819	* 1.8725	* 2.0088	* 3.6739	*
	* 1.9187	* 2.1584	* 2.2897	* 2.2282	* 2.0083	* 2.1338	* 3.6318	*

14	* 2.0657	* 1.7843	* 1.6988	* 1.6793	* 2.6911	* 3.2832	*	*
	* 2.0058	* 1.7470	* 1.6839	* 1.7031	* 2.6891	* 3.2909	*	*
	* 1.9808	* 1.7302	* 1.7080	* 1.7680	* 2.7624	* 3.3997	*	*
	* 1.9844	* 1.7546	* 1.7598	* 1.8439	* 2.8623	* 3.5273	*	*
	* 2.0070	* 1.8049	* 1.8260	* 1.9477	* 2.9533	* 3.6066	*	*
	* 2.0607	* 1.8824	* 1.9121	* 2.0433	* 3.0529	* 3.6739	*	*
	* 2.1692	* 1.9916	* 2.0387	* 2.1444	* 3.0907	* 3.6296	*	*

15	* 3.8303	* 3.0544	* 3.8672	* 3.7596	* 4 EFPD	118 % POWER		
	* 3.7341	* 2.9766	* 3.7597	* 3.6987	* 50 EFPD	118 % POWER		
	* 3.7190	* 2.9789	* 3.7642	* 3.7543	* 100 EFPD	118 % POWER		
	* 3.7330	* 3.0172	* 3.8116	* 3.8474	* 150 EFPD	118 % POWER		
	* 3.7346	* 3.0678	* 3.8509	* 3.9490	* 250 EFPD	118 % POWER		
	* 3.7249	* 3.0867	* 3.8477	* 3.9946	* 350 EFPD	118 % POWER		
	* 3.6496	* 3.0677	* 3.7836	* 3.9080	* 475 EFPD	118 % POWER		

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 5 (CONTINUED)

M-SUB-C VALUES (F-SUB-Q RPS MARGIN) NORMAL OPERATION								
THIS IS LEVEL 8 OF 24								
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)								
	H	G	F	E	D	C	B	A

8	* 2.5452	* 1.8507	* 1.7968	* 1.8240	* 1.9667	* 1.9241	* 1.9596	* 3.6409
	* 2.6315	* 1.9067	* 1.8511	* 1.8140	* 1.8578	* 1.8614	* 1.8976	* 3.5534
	* 2.7059	* 1.9644	* 1.8812	* 1.7542	* 1.7872	* 1.7742	* 1.8768	* 3.5392
	* 2.7443	* 2.0000	* 1.8940	* 1.6934	* 1.7505	* 1.7191	* 1.8759	* 3.5442
	* 2.7407	* 2.0324	* 1.9110	* 1.6144	* 1.7151	* 1.6430	* 1.8903	* 3.5326
	* 2.7776	* 2.1165	* 2.0070	* 1.6511	* 1.7746	* 1.6612	* 1.9279	* 3.4985
	* 2.8023	* 2.2204	* 2.1420	* 1.7926	* 1.9303	* 1.7852	* 2.0209	* 3.4064

9	* 1.8507	* 1.7764	* 1.8154	* 1.8558	* 1.7936	* 1.8349	* 1.6922	* 2.8993
	* 1.9067	* 1.7865	* 1.8436	* 1.8417	* 1.7500	* 1.8241	* 1.6531	* 2.8281
	* 1.9644	* 1.7922	* 1.8694	* 1.8270	* 1.7154	* 1.8298	* 1.6385	* 2.8334
	* 2.0000	* 1.8011	* 1.8854	* 1.7960	* 1.6752	* 1.8328	* 1.6574	* 2.8607
	* 2.0324	* 1.7576	* 1.9108	* 1.7658	* 1.6038	* 1.8180	* 1.7032	* 2.8954
	* 2.1165	* 1.8124	* 2.0181	* 1.8377	* 1.6349	* 1.8784	* 1.7622	* 2.8949
	* 2.2204	* 1.9297	* 2.1608	* 1.9934	* 1.7843	* 2.0107	* 1.8537	* 2.8581

10	* 1.7968	* 1.8159	* 1.8218	* 1.8475	* 1.7239	* 1.7411	* 1.6058	* 3.6771
	* 1.8511	* 1.8453	* 1.8453	* 1.7870	* 1.7028	* 1.7607	* 1.5952	* 3.5746
	* 1.8812	* 1.8715	* 1.8397	* 1.7018	* 1.7056	* 1.8017	* 1.6120	* 3.5847
	* 1.8940	* 1.8876	* 1.8159	* 1.6643	* 1.7208	* 1.8430	* 1.6586	* 3.6197
	* 1.9110	* 1.9119	* 1.7951	* 1.5884	* 1.7352	* 1.8975	* 1.7229	* 3.6451
	* 2.0070	* 2.0181	* 1.8815	* 1.6312	* 1.8111	* 1.9972	* 1.7885	* 3.6167
	* 2.1420	* 2.1621	* 2.0399	* 1.7906	* 1.9740	* 2.1328	* 1.8961	* 3.5309

11	* 1.8240	* 1.8558	* 1.8517	* 1.9182	* 1.7579	* 1.7324	* 1.5819	* 3.5598
	* 1.8140	* 1.8417	* 1.7942	* 1.8110	* 1.7069	* 1.7400	* 1.6105	* 3.5056
	* 1.7542	* 1.8270	* 1.7082	* 1.7530	* 1.6798	* 1.7659	* 1.6635	* 3.5610
	* 1.6934	* 1.7951	* 1.6694	* 1.7325	* 1.6584	* 1.8146	* 1.7338	* 3.6398
	* 1.6144	* 1.7649	* 1.5915	* 1.7043	* 1.6012	* 1.8608	* 1.8354	* 3.7234
	* 1.6511	* 1.8366	* 1.6342	* 1.7791	* 1.6472	* 1.9430	* 1.9119	* 3.7402
	* 1.7926	* 1.9928	* 1.7924	* 1.9447	* 1.8003	* 2.0709	* 1.9947	* 3.6389

12	* 1.9667	* 1.7937	* 1.7256	* 1.7599	* 1.7555	* 1.5934	* 2.5347	*
	* 1.8578	* 1.7500	* 1.7045	* 1.7071	* 1.7112	* 1.5600	* 2.5259	*
	* 1.7872	* 1.7154	* 1.7055	* 1.6798	* 1.6938	* 1.5683	* 2.5953	*
	* 1.7505	* 1.6753	* 1.7217	* 1.6618	* 1.7080	* 1.6127	* 2.6852	*
	* 1.7151	* 1.6023	* 1.7361	* 1.6036	* 1.7173	* 1.6711	* 2.7746	*
	* 1.7746	* 1.6331	* 1.8113	* 1.6502	* 1.7949	* 1.7474	* 2.8528	*
	* 1.9303	* 1.7825	* 1.9740	* 1.8011	* 1.9438	* 1.8644	* 2.8744	*

13	* 1.9241	* 1.8359	* 1.7420	* 1.7342	* 1.5942	* 1.5439	* 3.0937	*
	* 1.8614	* 1.8241	* 1.7616	* 1.7409	* 1.5602	* 1.5679	* 3.0904	*
	* 1.7742	* 1.8298	* 1.8026	* 1.7668	* 1.5683	* 1.6251	* 3.1902	*
	* 1.7191	* 1.8318	* 1.8430	* 1.8156	* 1.6135	* 1.7060	* 3.3054	*
	* 1.6430	* 1.8170	* 1.8975	* 1.8609	* 1.6717	* 1.7871	* 3.3921	*
	* 1.6612	* 1.8774	* 1.9963	* 1.9433	* 1.7476	* 1.8757	* 3.4376	*
	* 1.7852	* 2.0094	* 2.1328	* 2.0709	* 1.8644	* 1.9815	* 3.3750	*

14	* 1.9596	* 1.6922	* 1.6067	* 1.5827	* 2.5366	* 3.0937	*	*
	* 1.8976	* 1.6531	* 1.5957	* 1.6107	* 2.5278	* 3.0904	*	*
	* 1.8768	* 1.6385	* 1.6128	* 1.6643	* 2.5974	* 3.1902	*	*
	* 1.8759	* 1.6574	* 1.6586	* 1.7338	* 2.6852	* 3.3054	*	*
	* 1.8903	* 1.7030	* 1.7229	* 1.8357	* 2.7746	* 3.3921	*	*
	* 1.9279	* 1.7612	* 1.7885	* 1.9119	* 2.8528	* 3.4376	*	*
	* 2.0209	* 1.8538	* 1.8961	* 1.9940	* 2.8745	* 3.3750	*	*

15	* 3.6409	* 2.8982	* 3.6789	* 3.5636	* 4 EFPD	118 % POWER		
	* 3.5534	* 2.8275	* 3.5781	* 3.5093	* 50 EFPD	118 % POWER		
	* 3.5392	* 2.8334	* 3.5844	* 3.5609	* 100 EFPD	118 % POWER		
	* 3.5442	* 2.8607	* 3.6233	* 3.6398	* 150 EFPD	118 % POWER		
	* 3.5326	* 2.8953	* 3.6449	* 3.7264	* 250 EFPD	118 % POWER		
	* 3.4985	* 2.8943	* 3.6204	* 3.7435	* 350 EFPD	118 % POWER		
	* 3.4064	* 2.8567	* 3.5324	* 3.6389	* 475 EFPD	118 % POWER		

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 5 (CONTINUED)

THIS IS LEVEL 7 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A

8	* 2.3800	* 1.7290	* 1.6764	* 1.7013	* 1.8347	* 1.7944	* 1.8250	* 3.4170
	* 2.4758	* 1.7933	* 1.7399	* 1.6978	* 1.7418	* 1.7396	* 1.7756	* 3.3520
	* 2.5536	* 1.8534	* 1.7737	* 1.6449	* 1.6807	* 1.6633	* 1.7604	* 3.3480
	* 2.5855	* 1.8843	* 1.7832	* 1.5833	* 1.6427	* 1.6073	* 1.7569	* 3.3490
	* 2.5762	* 1.9046	* 1.7881	* 1.4949	* 1.5953	* 1.5215	* 1.7571	* 3.3097
	* 2.5756	* 1.9587	* 1.8550	* 1.5173	* 1.6389	* 1.5257	* 1.7743	* 3.2420
	* 2.5735	* 2.0356	* 1.9634	* 1.6394	* 1.7698	* 1.6304	* 1.8448	* 3.1264

9	* 1.7290	* 1.6559	* 1.6938	* 1.7307	* 1.6685	* 1.7140	* 1.5730	* 2.7180
	* 1.7933	* 1.6713	* 1.7320	* 1.7288	* 1.6319	* 1.7084	* 1.5392	* 2.6627
	* 1.8534	* 1.6827	* 1.7606	* 1.7203	* 1.6042	* 1.7193	* 1.5294	* 2.6745
	* 1.8843	* 1.6868	* 1.7746	* 1.6867	* 1.5621	* 1.7207	* 1.5443	* 2.6945
	* 1.9046	* 1.6353	* 1.7875	* 1.6461	* 1.4833	* 1.6949	* 1.5781	* 2.7093
	* 1.9587	* 1.6637	* 1.8645	* 1.6997	* 1.5014	* 1.7372	* 1.6185	* 2.6818
	* 2.0356	* 1.7591	* 1.9813	* 1.8278	* 1.6304	* 1.8443	* 1.6913	* 2.6241

10	* 1.6764	* 1.6943	* 1.6990	* 1.7225	* 1.6011	* 1.6202	* 1.4887	* 3.4346
	* 1.7399	* 1.7329	* 1.7336	* 1.6640	* 1.5848	* 1.6438	* 1.4805	* 3.3546
	* 1.7737	* 1.7624	* 1.7297	* 1.5876	* 1.5945	* 1.6867	* 1.5013	* 3.3697
	* 1.7832	* 1.7755	* 1.7041	* 1.5496	* 1.6079	* 1.7270	* 1.5418	* 3.3969
	* 1.7881	* 1.7885	* 1.6747	* 1.4682	* 1.6139	* 1.7713	* 1.5951	* 3.4023
	* 1.8550	* 1.8655	* 1.7416	* 1.4978	* 1.6721	* 1.8498	* 1.6432	* 3.3442
	* 1.9634	* 1.9824	* 1.8699	* 1.6360	* 1.8112	* 1.9599	* 1.7313	* 3.2337

11	* 1.7013	* 1.7312	* 1.7251	* 1.7814	* 1.6305	* 1.6086	* 1.4632	* 3.3294
	* 1.6978	* 1.7289	* 1.6709	* 1.6889	* 1.5757	* 1.6148	* 1.4917	* 3.2921
	* 1.6449	* 1.7203	* 1.5931	* 1.6392	* 1.5554	* 1.6432	* 1.5465	* 3.3536
	* 1.5833	* 1.6850	* 1.5541	* 1.6159	* 1.5373	* 1.6856	* 1.6096	* 3.4240
	* 1.4949	* 1.6447	* 1.4708	* 1.5836	* 1.4774	* 1.7285	* 1.7011	* 3.4895
	* 1.5173	* 1.6989	* 1.5004	* 1.6427	* 1.5106	* 1.7917	* 1.7577	* 3.4732
	* 1.6394	* 1.8278	* 1.6383	* 1.7827	* 1.6439	* 1.8954	* 1.8202	* 3.3440

12	* 1.8347	* 1.6687	* 1.6026	* 1.6320	* 1.6174	* 1.4653	* 2.3558	*
	* 1.7418	* 1.6319	* 1.5863	* 1.5764	* 1.5783	* 1.4342	* 2.3548	*
	* 1.6807	* 1.6042	* 1.5952	* 1.5562	* 1.5666	* 1.4455	* 2.4268	*
	* 1.6427	* 1.5622	* 1.6087	* 1.5380	* 1.5781	* 1.4848	* 2.5089	*
	* 1.5953	* 1.4818	* 1.6147	* 1.4794	* 1.5908	* 1.5436	* 2.5932	*
	* 1.6389	* 1.4995	* 1.6728	* 1.5127	* 1.6529	* 1.6026	* 2.6415	*
	* 1.7698	* 1.6288	* 1.8113	* 1.6446	* 1.7793	* 1.7011	* 2.6368	*

13	* 1.7944	* 1.7140	* 1.6209	* 1.6094	* 1.4660	* 1.4168	* 2.8779	*
	* 1.7396	* 1.7084	* 1.6446	* 1.6155	* 1.4342	* 1.4413	* 2.8838	*
	* 1.6633	* 1.7184	* 1.6875	* 1.6448	* 1.4455	* 1.4976	* 2.9820	*
	* 1.6073	* 1.7198	* 1.7278	* 1.6865	* 1.4848	* 1.5715	* 3.0852	*
	* 1.5215	* 1.6940	* 1.7713	* 1.7294	* 1.5435	* 1.6522	* 3.1727	*
	* 1.5257	* 1.7362	* 1.8498	* 1.7917	* 1.6032	* 1.7213	* 3.1831	*
	* 1.6304	* 1.8443	* 1.9594	* 1.8961	* 1.7011	* 1.8061	* 3.0947	*

14	* 1.8250	* 1.5730	* 1.4894	* 1.4639	* 2.3575	* 2.8779	*	*
	* 1.7756	* 1.5392	* 1.4812	* 1.4924	* 2.3560	* 2.8838	*	*
	* 1.7604	* 1.5294	* 1.5013	* 1.5473	* 2.4285	* 2.9820	*	*
	* 1.7569	* 1.5444	* 1.5425	* 1.6104	* 2.5089	* 3.0853	*	*
	* 1.7571	* 1.5779	* 1.5951	* 1.7011	* 2.5932	* 3.1728	*	*
	* 1.7743	* 1.6185	* 1.6432	* 1.7577	* 2.6415	* 3.1825	*	*
	* 1.8448	* 1.6908	* 1.7313	* 1.8201	* 2.6368	* 3.0948	*	*

15	* 3.4170	* 2.7168	* 3.4362	* 3.3327	* 4 EFPD 118	* POWER		
	* 3.3520	* 2.6627	* 3.3553	* 3.2953	* 50 EFPD 118	* POWER		
	* 3.3480	* 2.6745	* 3.3728	* 3.3536	* 100 EFPD 118	* POWER		
	* 3.3490	* 2.6945	* 3.4001	* 3.4275	* 150 EFPD 118	* POWER		
	* 3.3097	* 2.7086	* 3.4031	* 3.4931	* 250 EFPD 118	* POWER		
	* 3.2420	* 2.6813	* 3.3440	* 3.4732	* 350 EFPD 118	* POWER		
	* 3.1264	* 2.6231	* 3.2366	* 3.3440	* 475 EFPD 118	* POWER		

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 5 (CONTINUED)

M-SUB-C VALUES (F-SUB-Q RPS MARGIN) NORMAL OPERATION
THIS IS LEVEL 6 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8	2.2669	1.6390	1.5867	1.6117	1.7354	1.7035	1.7287	3.2592
	2.3786	1.7169	1.6631	1.6236	1.6640	1.6650	1.6978	3.2260
	2.4688	1.7851	1.7067	1.5821	1.6154	1.6000	1.6914	3.2376
	2.4968	1.8136	1.7154	1.5231	1.5779	1.5453	1.6857	3.2322
	2.4761	1.8234	1.7090	1.4253	1.5202	1.4501	1.6740	3.1716
	2.4340	1.8429	1.7424	1.4251	1.5425	1.4335	1.6685	3.0576
	2.3795	1.8779	1.8110	1.5061	1.6298	1.5031	1.7016	2.8937
9	1.6390	1.5690	1.6020	1.6361	1.5786	1.6240	1.4930	2.5907
	1.7169	1.5985	1.6543	1.6512	1.5577	1.6319	1.4710	2.5609
	1.7851	1.6187	1.6929	1.6520	1.5392	1.6506	1.4681	2.5823
	1.8136	1.6244	1.7057	1.6198	1.4985	1.6534	1.4801	2.5970
	1.8234	1.5638	1.7082	1.5709	1.4141	1.6168	1.5020	2.5934
	1.8429	1.5608	1.7519	1.5973	1.4109	1.6352	1.5203	2.5324
	1.8779	1.6186	1.8282	1.6839	1.5007	1.7035	1.5586	2.4281
10	1.5867	1.6027	1.6066	1.6305	1.5088	1.5318	1.4123	3.2764
	1.6631	1.6557	1.6560	1.5870	1.5075	1.5658	1.4126	3.2249
	1.7067	1.6946	1.6610	1.5217	1.5266	1.6158	1.4383	3.2524
	1.7154	1.7065	1.6364	1.4857	1.5389	1.6550	1.4757	3.2745
	1.7090	1.7093	1.5981	1.3980	1.5377	1.6890	1.5172	3.2568
	1.7424	1.7529	1.6342	1.4070	1.5741	1.7422	1.5428	3.1548
	1.8110	1.8292	1.7222	1.5056	1.6692	1.8082	1.5953	2.9933
11	1.6117	1.6361	1.6336	1.6805	1.5397	1.5193	1.3856	3.1784
	1.6236	1.6514	1.5932	1.6082	1.4973	1.5340	1.4213	3.1658
	1.5821	1.6528	1.5275	1.5697	1.4852	1.5690	1.4797	3.2368
	1.5231	1.6197	1.4897	1.5467	1.4662	1.6073	1.5383	3.2990
	1.4253	1.5694	1.4010	1.5077	1.4053	1.6441	1.6175	3.3420
	1.4251	1.5965	1.4095	1.5449	1.4190	1.6836	1.6510	3.2744
	1.5061	1.6830	1.5075	1.6415	1.5136	1.7484	1.6772	3.0943
12	1.7354	1.5787	1.5105	1.5408	1.5230	1.3819	2.2344	
	1.6640	1.5577	1.5093	1.4980	1.4963	1.3605	2.2501	
	1.6154	1.5392	1.5273	1.4858	1.4930	1.3762	2.3274	
	1.5779	1.4993	1.5396	1.4675	1.5022	1.4122	2.4009	
	1.5202	1.4122	1.5385	1.4071	1.5109	1.4648	2.4748	
	1.5425	1.4091	1.5741	1.4202	1.5513	1.5034	2.4893	
	1.6298	1.4994	1.6693	1.5141	1.6400	1.5653	2.4359	
13	1.7035	1.6240	1.5325	1.5207	1.3825	1.3357	2.7322	
	1.6650	1.6319	1.5666	1.5354	1.3609	1.3672	2.7568	
	1.6000	1.6505	1.6166	1.5698	1.3768	1.4258	2.8594	
	1.5453	1.6518	1.6558	1.6081	1.4122	1.4943	2.9541	
	1.4501	1.6160	1.6890	1.6449	1.4654	1.5688	3.0296	
	1.4335	1.6343	1.7422	1.6838	1.5035	1.6148	3.0008	
	1.5031	1.7030	1.8082	1.7484	1.5653	1.6623	2.8612	
14	1.7287	1.4930	1.4123	1.3862	2.2352	2.7334		
	1.6978	1.4710	1.4130	1.4219	2.2506	2.7568		
	1.6914	1.4681	1.4390	1.4804	2.3291	2.8594		
	1.6857	1.4801	1.4757	1.5383	2.4009	2.9542		
	1.6740	1.5013	1.5172	1.6183	2.4748	3.0296		
	1.6685	1.5203	1.5428	1.6510	2.4893	3.0009		
	1.7016	1.5586	1.5953	1.6772	2.4345	2.8613		
15	3.2592	2.5908	3.2793	3.1800	4 EFPD	118 % POWER		
	3.2260	2.5604	3.2268	3.1688	50 EFPD	118 % POWER		
	3.2376	2.5803	3.2552	3.2368	100 EFPD	118 % POWER		
	3.2322	2.5970	3.2774	3.2990	150 EFPD	118 % POWER		
	3.1716	2.5913	3.2566	3.3430	250 EFPD	118 % POWER		
	3.0576	2.5308	3.1547	3.2744	350 EFPD	118 % POWER		
	2.8937	2.4280	2.9950	3.0943	475 EFPD	118 % POWER		

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 5 (CONTINUED)

THIS IS LEVEL 5 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A

8	* 2.2052	* 1.5846	* 1.5298	* 1.5577	* 1.6680	* 1.6529	* 1.6730	* 3.1702
	* 2.3451	* 1.6830	* 1.6250	* 1.5950	* 1.6250	* 1.6426	* 1.6680	* 3.1825
	* 2.4529	* 1.7659	* 1.6831	* 1.5705	* 1.5937	* 1.5896	* 1.6759	* 3.2160
	* 2.4821	* 1.7967	* 1.6961	* 1.5162	* 1.5594	* 1.5396	* 1.6711	* 3.2107
	* 2.4501	* 1.7958	* 1.6813	* 1.4095	* 1.4952	* 1.4343	* 1.6466	* 3.1334
	* 2.3542	* 1.7719	* 1.6731	* 1.3719	* 1.4798	* 1.3863	* 1.6132	* 2.9557
	* 2.2460	* 1.7643	* 1.6991	* 1.4108	* 1.5274	* 1.4087	* 1.5992	* 2.7238

9	* 1.5846	* 1.5178	* 1.5415	* 1.5727	* 1.5243	* 1.5680	* 1.4523	* 2.5283
	* 1.6830	* 1.5724	* 1.6135	* 1.6115	* 1.5294	* 1.5960	* 1.4530	* 2.5316
	* 1.7659	* 1.6065	* 1.6692	* 1.6293	* 1.5259	* 1.6297	* 1.4599	* 2.5698
	* 1.7967	* 1.6141	* 1.6841	* 1.6027	* 1.4897	* 1.6357	* 1.4713	* 2.5804
	* 1.7958	* 1.5499	* 1.6786	* 1.5453	* 1.3984	* 1.5909	* 1.4795	* 2.5596
	* 1.7719	* 1.5063	* 1.6807	* 1.5324	* 1.3601	* 1.5721	* 1.4727	* 2.4454
	* 1.7643	* 1.5190	* 1.7149	* 1.5782	* 1.4043	* 1.5957	* 1.4631	* 2.2829

10	* 1.5298	* 1.5422	* 1.5451	* 1.5733	* 1.4512	* 1.4777	* 1.3788	* 3.2129
	* 1.6250	* 1.6151	* 1.6166	* 1.5561	* 1.4716	* 1.5292	* 1.3957	* 3.2051
	* 1.6831	* 1.6708	* 1.6401	* 1.5080	* 1.5051	* 1.5934	* 1.4297	* 3.2526
	* 1.6961	* 1.6858	* 1.6190	* 1.4742	* 1.5184	* 1.6324	* 1.4642	* 3.2684
	* 1.6813	* 1.6794	* 1.5723	* 1.3817	* 1.5100	* 1.6575	* 1.4949	* 3.2260
	* 1.6731	* 1.6816	* 1.5683	* 1.3554	* 1.5095	* 1.6706	* 1.4924	* 3.0566
	* 1.6991	* 1.7154	* 1.6143	* 1.4083	* 1.5614	* 1.6938	* 1.4947	* 2.8201

11	* 1.5577	* 1.5731	* 1.5763	* 1.6121	* 1.4884	* 1.4674	* 1.3522	* 3.1117
	* 1.5950	* 1.6120	* 1.5623	* 1.5668	* 1.4711	* 1.5010	* 1.4031	* 3.1379
	* 1.5705	* 1.6293	* 1.5137	* 1.5449	* 1.4707	* 1.5456	* 1.4686	* 3.2262
	* 1.5162	* 1.6035	* 1.4796	* 1.5258	* 1.4543	* 1.5837	* 1.5252	* 3.2774
	* 1.4095	* 1.5441	* 1.3850	* 1.4809	* 1.3862	* 1.6137	* 1.5929	* 3.2947
	* 1.3719	* 1.5317	* 1.3576	* 1.4813	* 1.3700	* 1.6231	* 1.5977	* 3.1551
	* 1.4108	* 1.5774	* 1.4100	* 1.5382	* 1.4165	* 1.6385	* 1.5728	* 2.9047

12	* 1.6680	* 1.5248	* 1.4528	* 1.4898	* 1.4695	* 1.3427	* 2.1727	*
	* 1.6250	* 1.5299	* 1.4731	* 1.4718	* 1.4611	* 1.3377	* 2.2159	*
	* 1.5937	* 1.5260	* 1.5058	* 1.4713	* 1.4692	* 1.3624	* 2.3039	*
	* 1.5594	* 1.4897	* 1.5191	* 1.4549	* 1.4794	* 1.3960	* 2.3725	*
	* 1.4952	* 1.3968	* 1.5107	* 1.3885	* 1.4821	* 1.4394	* 2.4278	*
	* 1.4798	* 1.3585	* 1.5102	* 1.3717	* 1.4954	* 1.4530	* 2.3947	*
	* 1.5274	* 1.4029	* 1.5614	* 1.4169	* 1.5350	* 1.4649	* 2.2855	*

13	* 1.6529	* 1.5684	* 1.4790	* 1.4680	* 1.3433	* 1.3030	* 2.6641	*
	* 1.6426	* 1.5952	* 1.5299	* 1.5021	* 1.3383	* 1.3477	* 2.7175	*
	* 1.5896	* 1.6297	* 1.5949	* 1.5463	* 1.3630	* 1.4129	* 2.8359	*
	* 1.5396	* 1.6356	* 1.6332	* 1.5844	* 1.3960	* 1.4771	* 2.9213	*
	* 1.4343	* 1.5902	* 1.6576	* 1.6144	* 1.4396	* 1.5434	* 2.9802	*
	* 1.3863	* 1.5714	* 1.6706	* 1.6231	* 1.4530	* 1.5603	* 2.8946	*
	* 1.4087	* 1.5949	* 1.6938	* 1.6385	* 1.4649	* 1.5592	* 2.6915	*

14	* 1.6730	* 1.4523	* 1.3794	* 1.3527	* 2.1735	* 2.6641	*	*
	* 1.6680	* 1.4523	* 1.3959	* 1.4037	* 2.2159	* 2.7175	*	*
	* 1.6759	* 1.4599	* 1.4304	* 1.4693	* 2.3055	* 2.8359	*	*
	* 1.6711	* 1.4713	* 1.4642	* 1.5252	* 2.3725	* 2.9213	*	*
	* 1.6466	* 1.4795	* 1.4944	* 1.5937	* 2.4291	* 2.9803	*	*
	* 1.6132	* 1.4721	* 1.4924	* 1.5977	* 2.3947	* 2.8946	*	*
	* 1.5992	* 1.4631	* 1.4946	* 1.5728	* 2.2855	* 2.6906	*	*

15	* 3.1702	* 2.5264	* 3.2157	* 3.1132	* 4 EFPD	118 % POWER		
	* 3.1825	* 2.5311	* 3.2079	* 3.1408	* 50 EFPD	118 % POWER		
	* 3.2160	* 2.5679	* 3.2523	* 3.2262	* 100 EFPD	118 % POWER		
	* 3.2107	* 2.5804	* 3.2713	* 3.2774	* 150 EFPD	118 % POWER		
	* 3.1334	* 2.5576	* 3.2266	* 3.2947	* 250 EFPD	118 % POWER		
	* 2.9557	* 2.4453	* 3.0592	* 3.1581	* 350 EFPD	118 % POWER		
	* 2.7238	* 2.2820	* 2.8211	* 2.9060	* 475 EFPD	118 % POWER		

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 5 (CONTINUED)

M-SUB-C VALUES (F-SUB-Q RPS MARGIN) NORMAL OPERATION
THIS IS LEVEL 4 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A

8	* 2.1242	* 1.5213	* 1.4626	* 1.4883	* 1.5662	* 1.5823	* 1.5932	* 3.0531
	* 2.3011	* 1.6471	* 1.5812	* 1.5550	* 1.5665	* 1.6004	* 1.6247	* 3.1295
	* 2.4330	* 1.7475	* 1.6598	* 1.5479	* 1.5639	* 1.5703	* 1.6543	* 3.1988
	* 2.4686	* 1.7842	* 1.6810	* 1.5055	* 1.5400	* 1.5300	* 1.6561	* 3.1998
	* 2.4255	* 1.7764	* 1.6612	* 1.5376	* 1.4764	* 1.4224	* 1.6238	* 3.1062
	* 2.2792	* 1.7114	* 1.6148	* 1.3249	* 1.4267	* 1.3399	* 1.5543	* 2.8618
	* 2.1145	* 1.6555	* 1.5951	* 1.3215	* 1.4312	* 1.3187	* 1.4949	* 2.5600

9	* 1.5213	* 1.4555	* 1.4666	* 1.4892	* 1.4532	* 1.4969	* 1.4007	* 2.4477
	* 1.6471	* 1.5379	* 1.5659	* 1.5611	* 1.4899	* 1.5530	* 1.4269	* 2.5011
	* 1.7475	* 1.5907	* 1.6422	* 1.6013	* 1.5082	* 1.6086	* 1.4507	* 2.5657
	* 1.7842	* 1.6042	* 1.6668	* 1.5862	* 1.4787	* 1.6215	* 1.4636	* 2.5801
	* 1.7764	* 1.5380	* 1.6569	* 1.5274	* 1.3873	* 1.5739	* 1.4621	* 2.5394
	* 1.7114	* 1.4551	* 1.6212	* 1.4789	* 1.3129	* 1.5172	* 1.4193	* 2.3695
	* 1.6555	* 1.4214	* 1.6091	* 1.4802	* 1.3148	* 1.4961	* 1.3689	* 2.1458

10	* 1.4626	* 1.4672	* 1.4711	* 1.4983	* 1.3751	* 1.4102	* 1.3362	* 3.1168
	* 1.5812	* 1.5674	* 1.5726	* 1.5080	* 1.4272	* 1.4906	* 1.3763	* 3.1721
	* 1.6598	* 1.6438	* 1.6141	* 1.4865	* 1.4792	* 1.5736	* 1.4234	* 3.2513
	* 1.6810	* 1.6676	* 1.6035	* 1.4614	* 1.4994	* 1.6168	* 1.4571	* 3.2673
	* 1.6612	* 1.6580	* 1.5555	* 1.3695	* 1.4897	* 1.6363	* 1.4766	* 3.2018
	* 1.6148	* 1.6220	* 1.5142	* 1.3075	* 1.4550	* 1.6101	* 1.4356	* 2.9577
	* 1.5951	* 1.6095	* 1.5151	* 1.3163	* 1.4615	* 1.5876	* 1.3964	* 2.6499

11	* 1.4883	* 1.4895	* 1.5013	* 1.5127	* 1.4211	* 1.4021	* 1.3107	* 3.0296
	* 1.5550	* 1.5611	* 1.5138	* 1.5105	* 1.4386	* 1.4641	* 1.3835	* 3.1148
	* 1.5479	* 1.6013	* 1.4921	* 1.5149	* 1.4515	* 1.5259	* 1.4605	* 3.2280
	* 1.5055	* 1.5870	* 1.4668	* 1.5052	* 1.4430	* 1.5658	* 1.5169	* 3.2794
	* 1.3976	* 1.5267	* 1.3730	* 1.4615	* 1.3717	* 1.5903	* 1.5734	* 3.2708
	* 1.3249	* 1.4783	* 1.3100	* 1.4274	* 1.3200	* 1.5609	* 1.5375	* 3.0580
	* 1.3215	* 1.4796	* 1.3177	* 1.4399	* 1.3213	* 1.5302	* 1.4708	* 2.7287

12	* 1.5662	* 1.4540	* 1.3763	* 1.4224	* 1.3986	* 1.2899	* 2.0991	*
	* 1.5665	* 1.4905	* 1.4286	* 1.4393	* 1.4155	* 1.3111	* 2.1821	*
	* 1.5639	* 1.5083	* 1.4799	* 1.4521	* 1.4445	* 1.3502	* 2.2925	*
	* 1.5400	* 1.4787	* 1.5000	* 1.4436	* 1.4600	* 1.3841	* 2.3605	*
	* 1.4764	* 1.3861	* 1.4909	* 1.3739	* 1.4597	* 1.4182	* 2.4000	*
	* 1.4267	* 1.3114	* 1.4550	* 1.3215	* 1.4377	* 1.3993	* 2.3095	*
	* 1.4312	* 1.3133	* 1.4615	* 1.3220	* 1.4331	* 1.3668	* 2.1412	*

13	* 1.5823	* 1.4966	* 1.4111	* 1.4032	* 1.2904	* 1.2593	* 2.5872	*
	* 1.6004	* 1.5530	* 1.4919	* 1.4648	* 1.3117	* 1.3264	* 2.6875	*
	* 1.5703	* 1.6079	* 1.5750	* 1.5266	* 1.3502	* 1.4035	* 2.8273	*
	* 1.5300	* 1.6215	* 1.6175	* 1.5673	* 1.3847	* 1.4659	* 2.9122	*
	* 1.4224	* 1.5726	* 1.6363	* 1.5911	* 1.4186	* 1.5224	* 2.9529	*
	* 1.3399	* 1.5165	* 1.6101	* 1.5617	* 1.3993	* 1.5041	* 2.7984	*
	* 1.3187	* 1.4954	* 1.5872	* 1.5302	* 1.3668	* 1.4571	* 2.5252	*

14	* 1.5932	* 1.4007	* 1.3365	* 1.3113	* 2.0998	* 2.5872	*	*
	* 1.6247	* 1.4269	* 1.3765	* 1.3841	* 2.1825	* 2.6875	*	*
	* 1.6543	* 1.4507	* 1.4234	* 1.4612	* 2.2925	* 2.8273	*	*
	* 1.6561	* 1.4637	* 1.4571	* 1.5177	* 2.3605	* 2.9122	*	*
	* 1.6238	* 1.4621	* 1.4766	* 1.5736	* 2.4001	* 2.9529	*	*
	* 1.5543	* 1.4187	* 1.4356	* 1.5382	* 2.3095	* 2.7984	*	*
	* 1.4949	* 1.3686	* 1.3964	* 1.4701	* 2.1412	* 2.5253	*	*

15	* 3.0531	* 2.4469	* 3.1194	* 3.0308	* 4 EFPD 118	* POWER		
	* 3.1295	* 2.5006	* 3.1727	* 3.1148	* 50 EFPD 118	* POWER		
	* 3.1988	* 2.5637	* 3.2510	* 3.2311	* 100 EFPD 118	* POWER		
	* 3.1998	* 2.5782	* 3.2702	* 3.2826	* 150 EFPD 118	* POWER		
	* 3.1062	* 2.5394	* 3.2046	* 3.2740	* 250 EFPD 118	* POWER		
	* 2.8618	* 2.3677	* 2.9602	* 3.0580	* 350 EFPD 118	* POWER		
	* 2.5600	* 2.1443	* 2.6497	* 2.7309	* 475 EFPD 118	* POWER		

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 5 (CONTINUED)

THIS IS LEVEL 3 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A

8	* 2.1419	* 1.5365	* 1.4785	* 1.4737	* 1.4937	* 1.5411	* 1.5622	* 3.0636
	* 2.3759	* 1.7032	* 1.6241	* 1.5703	* 1.5566	* 1.5999	* 1.6470	* 3.2271
	* 2.5471	* 1.8331	* 1.7296	* 1.5917	* 1.6004	* 1.6179	* 1.7133	* 3.3553
	* 2.5959	* 1.8842	* 1.7678	* 1.5718	* 1.5991	* 1.5986	* 1.7310	* 3.3727
	* 2.5469	* 1.8735	* 1.7503	* 1.4755	* 1.5518	* 1.5015	* 1.7029	* 3.2680
	* 2.3465	* 1.7625	* 1.6625	* 1.3743	* 1.4708	* 1.3899	* 1.5976	* 2.9469
	* 2.1080	* 1.6445	* 1.5852	* 1.3185	* 1.4231	* 1.3152	* 1.4844	* 2.5555

9	* 1.5365	* 1.4549	* 1.4664	* 1.4692	* 1.4305	* 1.4866	* 1.4034	* 2.4753
	* 1.7032	* 1.5869	* 1.6052	* 1.5859	* 1.5184	* 1.5894	* 1.4781	* 2.6024
	* 1.8331	* 1.6720	* 1.7122	* 1.6435	* 1.5605	* 1.6750	* 1.5325	* 2.7132
	* 1.8842	* 1.6981	* 1.7542	* 1.6533	* 1.5493	* 1.7012	* 1.5552	* 2.7426
	* 1.8735	* 1.6328	* 1.7450	* 1.6068	* 1.4667	* 1.6591	* 1.5494	* 2.6899
	* 1.7625	* 1.5046	* 1.6675	* 1.5246	* 1.3601	* 1.5654	* 1.4648	* 2.4542
	* 1.6445	* 1.4123	* 1.5990	* 1.4748	* 1.3117	* 1.4927	* 1.3619	* 2.1466

10	* 1.4785	* 1.4677	* 1.4746	* 1.4524	* 1.3569	* 1.4193	* 1.3614	* 3.1383
	* 1.6241	* 1.6067	* 1.5978	* 1.5035	* 1.4543	* 1.5406	* 1.4436	* 3.2896
	* 1.7296	* 1.7140	* 1.6643	* 1.5299	* 1.5366	* 1.6522	* 1.5160	* 3.4293
	* 1.7678	* 1.7551	* 1.6796	* 1.5275	* 1.5676	* 1.7099	* 1.5572	* 3.4653
	* 1.7503	* 1.7462	* 1.6402	* 1.4481	* 1.5608	* 1.7268	* 1.5736	* 3.3860
	* 1.6625	* 1.6683	* 1.5627	* 1.3531	* 1.4947	* 1.6560	* 1.4854	* 3.0580
	* 1.5852	* 1.5994	* 1.5122	* 1.3106	* 1.4473	* 1.5787	* 1.3845	* 2.6418

11	* 1.4737	* 1.4692	* 1.4583	* 1.4403	* 1.4030	* 1.4034	* 1.3423	* 3.0875
	* 1.5703	* 1.5861	* 1.5092	* 1.5010	* 1.4616	* 1.5010	* 1.4614	* 3.2599
	* 1.5917	* 1.6443	* 1.5358	* 1.5505	* 1.4988	* 1.5944	* 1.5622	* 3.4291
	* 1.5718	* 1.6525	* 1.5333	* 1.5630	* 1.5105	* 1.6459	* 1.6245	* 3.4911
	* 1.4755	* 1.6058	* 1.4513	* 1.5361	* 1.4489	* 1.6754	* 1.6704	* 3.4601
	* 1.3743	* 1.5238	* 1.3559	* 1.4703	* 1.3640	* 1.6051	* 1.5892	* 3.1553
	* 1.3185	* 1.4741	* 1.3128	* 1.4313	* 1.3130	* 1.5159	* 1.4626	* 2.7180

12	* 1.4937	* 1.4306	* 1.3583	* 1.4037	* 1.3565	* 1.2894	* 2.1206	*
	* 1.5566	* 1.5184	* 1.4555	* 1.4623	* 1.4246	* 1.3559	* 2.2670	*
	* 1.6004	* 1.5606	* 1.5373	* 1.4988	* 1.4912	* 1.4234	* 2.4169	*
	* 1.5991	* 1.5494	* 1.5683	* 1.5112	* 1.5232	* 1.4677	* 2.4948	*
	* 1.5518	* 1.4656	* 1.5615	* 1.4515	* 1.5321	* 1.4996	* 2.5266	*
	* 1.4708	* 1.3590	* 1.4947	* 1.3651	* 1.4760	* 1.4450	* 2.3679	*
	* 1.4231	* 1.3102	* 1.4476	* 1.3135	* 1.4178	* 1.3570	* 2.1227	*

13	* 1.5411	* 1.4866	* 1.4202	* 1.4045	* 1.2899	* 1.2844	* 2.6408	*
	* 1.5999	* 1.5894	* 1.5420	* 1.5024	* 1.3561	* 1.3928	* 2.8162	*
	* 1.6179	* 1.6750	* 1.6530	* 1.5951	* 1.4241	* 1.4943	* 3.0011	*
	* 1.5986	* 1.7003	* 1.7107	* 1.6467	* 1.4677	* 1.5629	* 3.0962	*
	* 1.5015	* 1.6582	* 1.7268	* 1.6762	* 1.4998	* 1.6136	* 3.1205	*
	* 1.3899	* 1.5646	* 1.6560	* 1.6051	* 1.4450	* 1.5527	* 2.8851	*
	* 1.3152	* 1.4920	* 1.5787	* 1.5159	* 1.3569	* 1.4502	* 2.5143	*

14	* 1.5622	* 1.4034	* 1.3619	* 1.3428	* 2.1219	* 2.6408	*	*
	* 1.6470	* 1.4776	* 1.4441	* 1.4621	* 2.2670	* 2.8162	*	*
	* 1.7133	* 1.5325	* 1.5167	* 1.5630	* 2.4170	* 3.0011	*	*
	* 1.7310	* 1.5552	* 1.5572	* 1.6253	* 2.4966	* 3.0962	*	*
	* 1.7029	* 1.5488	* 1.5735	* 1.6704	* 2.5266	* 3.1205	*	*
	* 1.5976	* 1.4641	* 1.4854	* 1.5892	* 2.3679	* 2.8826	*	*
	* 1.4844	* 1.3614	* 1.3845	* 1.4626	* 2.1228	* 2.5143	*	*

15	* 3.0636	* 2.4743	* 3.1410	* 3.0888	* 4 EFPD	118 %	POWER	
	* 3.2271	* 2.6005	* 3.2926	* 3.2630	* 50 EFPD	118 %	POWER	
	* 3.3553	* 2.7132	* 3.4325	* 3.4291	* 100 EFPD	118 %	POWER	
	* 3.3727	* 2.7404	* 3.4686	* 3.4910	* 150 EFPD	118 %	POWER	
	* 3.2680	* 2.6878	* 3.3891	* 3.4636	* 250 EFPD	118 %	POWER	
	* 2.9469	* 2.4524	* 3.0606	* 3.1553	* 350 EFPD	118 %	POWER	
	* 2.5555	* 2.1459	* 2.6417	* 2.7191	* 475 EFPD	118 %	POWER	

Catawba 2 Cycle 11 Core Operating Limits Report

CNEI-0400-25
Appendix A, Rev. 17
Page 312 of 331

TABLE 5 (CONTINUED)

M-SUB-C VALUES (F-SUB-Q RPS MARGIN) NORMAL OPERATION							
THIS IS LEVEL 2 OF 24							
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)							
H	G	F	E	D	C	B	A

8	* 2.4265	* 1.7606	* 1.6803	* 1.3508	* 1.5654	* 1.3951	* 1.6469
	* 2.7564	* 2.0003	* 1.8889	* 1.5058	* 1.7141	* 1.5405	* 1.8244
	* 2.9928	* 2.1843	* 2.0462	* 1.6127	* 1.8224	* 1.6431	* 1.9668
	* 3.0617	* 2.2509	* 2.1033	* 1.6526	* 1.8555	* 1.6816	* 2.0100
	* 2.9958	* 2.2410	* 2.0938	* 1.6484	* 1.8308	* 1.6774	* 1.9920
	* 2.6885	* 2.0525	* 1.9376	* 1.5497	* 1.7076	* 1.5662	* 1.8270
	* 2.3275	* 1.8266	* 1.7601	* 1.4557	* 1.5788	* 1.4517	* 1.6295

9	* 1.7606	* 1.4092	* 1.6803	* 1.5992	* 1.3289	* 1.6659	* 1.4393
	* 2.0003	* 1.6124	* 1.8881	* 1.7616	* 1.4793	* 1.8273	* 1.6153
	* 2.1843	* 1.7593	* 2.0426	* 1.8837	* 1.5880	* 1.9508	* 1.7439
	* 2.2509	* 1.8205	* 2.0995	* 1.9255	* 1.6322	* 1.9932	* 1.7984
	* 2.2410	* 1.8331	* 2.0939	* 1.9071	* 1.6374	* 1.9751	* 1.8095
	* 2.0525	* 1.7099	* 1.9438	* 1.7731	* 1.5411	* 1.8254	* 1.6763
	* 1.8266	* 1.5627	* 1.7726	* 1.6360	* 1.4494	* 1.6589	* 1.5047

10	* 1.6803	* 1.6807	* 1.6207	* 1.3031	* 1.4973	* 1.6473	* 1.4378
	* 1.8889	* 1.8900	* 1.7920	* 1.4491	* 1.6533	* 1.8324	* 1.6196
	* 2.0462	* 2.0450	* 1.9220	* 1.5563	* 1.7757	* 1.9900	* 1.7573
	* 2.1033	* 2.1021	* 1.9678	* 1.6038	* 1.8268	* 2.0615	* 1.8249
	* 2.0938	* 2.0952	* 1.9531	* 1.6149	* 1.8243	* 2.0769	* 1.8601
	* 1.9376	* 1.9450	* 1.8209	* 1.5320	* 1.7172	* 1.9328	* 1.7320
	* 1.7601	* 1.7731	* 1.6793	* 1.4482	* 1.5921	* 1.7490	* 1.5448

11	* 1.3508	* 1.6000	* 1.3075	* 1.5088	* 1.2749	* 1.5680	* 1.5011
	* 1.5058	* 1.7625	* 1.4538	* 1.6526	* 1.4189	* 1.7324	* 1.7148
	* 1.6127	* 1.8847	* 1.5617	* 1.7680	* 1.5351	* 1.8782	* 1.8694
	* 1.6526	* 1.9255	* 1.6078	* 1.8147	* 1.5942	* 1.9532	* 1.9503
	* 1.6484	* 1.9060	* 1.6184	* 1.8143	* 1.6228	* 1.9889	* 1.9962
	* 1.5497	* 1.7721	* 1.5355	* 1.7057	* 1.5426	* 1.8655	* 1.8549
	* 1.4557	* 1.6352	* 1.4504	* 1.5849	* 1.4484	* 1.6788	* 1.6321

12	* 1.5654	* 1.3290	* 1.4993	* 1.2763	* 1.4379	* 1.3223	* 2.3373
	* 1.7141	* 1.4793	* 1.6568	* 1.4201	* 1.5857	* 1.4791	* 2.5888
	* 1.8224	* 1.5881	* 1.7795	* 1.5365	* 1.7126	* 1.6162	* 2.8185
	* 1.8555	* 1.6322	* 1.8298	* 1.5958	* 1.7749	* 1.6952	* 2.9303
	* 1.8308	* 1.6351	* 1.8253	* 1.6252	* 1.7984	* 1.7501	* 2.9649
	* 1.7076	* 1.5396	* 1.7181	* 1.5455	* 1.6982	* 1.6525	* 2.7112
	* 1.5788	* 1.4478	* 1.5922	* 1.4493	* 1.5594	* 1.4983	* 2.3287

13	* 1.3951	* 1.6655	* 1.6485	* 1.5694	* 1.3229	* 1.4528	* 3.0076
	* 1.5405	* 1.8263	* 1.8334	* 1.7335	* 1.4798	* 1.6547	* 3.3038
	* 1.6431	* 1.9496	* 1.9912	* 1.8793	* 1.6170	* 1.8037	* 3.5720
	* 1.6816	* 1.9920	* 2.0628	* 1.9543	* 1.6952	* 1.8869	* 3.6953
	* 1.6774	* 1.9739	* 2.0778	* 1.9893	* 1.7504	* 1.9424	* 3.7063
	* 1.5662	* 1.8244	* 1.9328	* 1.8655	* 1.6525	* 1.8172	* 3.3317
	* 1.4517	* 1.6580	* 1.7486	* 1.6788	* 1.4983	* 1.6142	* 2.7819

14	* 1.6469	* 1.4393	* 1.4381	* 1.5018	* 2.3389	* 3.0077	*
	* 1.8244	* 1.6153	* 1.6202	* 1.7158	* 2.5908	* 3.3038	*
	* 1.9668	* 1.7439	* 1.7573	* 1.8705	* 2.8185	* 3.5721	*
	* 2.0100	* 1.7984	* 1.8249	* 1.9503	* 2.9303	* 3.6954	*
	* 1.9920	* 1.8092	* 1.8601	* 1.9974	* 2.9667	* 3.7063	*
	* 1.8270	* 1.6763	* 1.7320	* 1.8549	* 2.7113	* 3.3317	*
	* 1.6295	* 1.5044	* 1.5448	* 1.6321	* 2.3279	* 2.7820	*

15	* 3.4126	* 2.7601	* 3.4684	* 3.4566	* 4 EFPD 118 % POWER		
	* 3.7051	* 3.0071	* 3.7708	* 3.7752	* 50 EFPD 118 % POWER		
	* 3.9270	* 3.2040	* 4.0150	* 4.0465	* 100 EFPD 118 % POWER		
	* 3.9704	* 3.2605	* 4.0829	* 4.1439	* 150 EFPD 118 % POWER		
	* 3.8547	* 3.2045	* 3.9992	* 4.0968	* 250 EFPD 118 % POWER		
	* 3.3966	* 2.8595	* 3.5401	* 3.6410	* 350 EFPD 118 % POWER		
	* 2.8305	* 2.4104	* 2.9386	* 3.0105	* 475 EFPD 118 % POWER		

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 5 (CONTINUED)

THIS IS LEVEL 1 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A

8	* 3.3771	* 3.8640	* 3.5613	* 2.8706	* 3.2855	* 2.9648	* 3.5414	* 4.7955
	* 3.9066	* 4.4635	* 4.0711	* 3.3493	* 3.7070	* 3.4296	* 3.9545	* 5.3189
	* 4.2869	* 4.9013	* 4.4406	* 3.6118	* 4.0203	* 3.6831	* 4.2550	* 5.6807
	* 4.3883	* 5.0276	* 4.5411	* 3.6745	* 4.0981	* 3.7434	* 4.3317	* 5.7394
	* 4.2602	* 4.8973	* 4.4336	* 3.5806	* 3.9819	* 3.6480	* 4.2095	* 5.4965
	* 3.7068	* 4.2816	* 3.9327	* 3.2050	* 3.5455	* 3.2425	* 3.6776	* 4.6684
	* 3.0450	* 3.5132	* 3.3013	* 2.7655	* 3.0171	* 2.7600	* 3.0386	* 3.6544

9	* 3.8640	* 3.1034	* 3.7234	* 3.2968	* 2.8288	* 3.4027	* 3.3783	* 5.6286
	* 4.4635	* 3.6984	* 4.2506	* 3.7336	* 3.2942	* 3.8291	* 3.9064	* 6.2415
	* 4.9013	* 4.0366	* 4.6084	* 4.0592	* 3.5553	* 4.1478	* 4.2005	* 6.6929
	* 5.0276	* 4.1281	* 4.7027	* 4.1629	* 3.6291	* 4.2431	* 4.2688	* 6.7759
	* 4.8973	* 4.0268	* 4.5740	* 4.0943	* 3.5542	* 4.1639	* 4.1556	* 6.5125
	* 4.2816	* 3.5496	* 4.0568	* 3.6584	* 3.1815	* 3.7119	* 3.6262	* 5.5277
	* 3.5132	* 2.9869	* 3.4117	* 3.1096	* 2.7469	* 3.1186	* 2.9841	* 4.3217

10	* 3.5613	* 3.7235	* 3.2598	* 2.7607	* 3.1091	* 3.6435	* 3.4146	* 4.6647
	* 4.0711	* 4.2547	* 3.7002	* 3.2141	* 3.5185	* 4.1144	* 3.9656	* 5.1889
	* 4.4406	* 4.6085	* 4.0342	* 3.4770	* 3.8348	* 4.4851	* 4.2860	* 5.5853
	* 4.5411	* 4.7028	* 4.1405	* 3.5600	* 3.9505	* 4.6196	* 4.3808	* 5.6705
	* 4.4336	* 4.5741	* 4.0827	* 3.5051	* 3.9133	* 4.5268	* 4.2990	* 5.4952
	* 3.9327	* 4.0569	* 3.6756	* 3.1603	* 3.5089	* 4.0210	* 3.7520	* 4.6932
	* 3.3013	* 3.4135	* 3.1274	* 2.7402	* 3.0150	* 3.3495	* 3.0634	* 3.6772

11	* 2.8706	* 3.2984	* 2.7683	* 3.1137	* 2.7224	* 3.3497	* 3.6693	* 6.8673
	* 3.3493	* 3.7348	* 3.2241	* 3.5271	* 3.1698	* 3.7846	* 4.2648	* 7.6238
	* 3.6118	* 4.0643	* 3.4847	* 3.8604	* 3.4433	* 4.1507	* 4.6240	* 8.1863
	* 3.6745	* 4.1682	* 3.5680	* 3.9963	* 3.5527	* 4.3028	* 4.7463	* 8.3182
	* 3.5806	* 4.0907	* 3.5128	* 3.9390	* 3.5252	* 4.2880	* 4.6665	* 8.0188
	* 3.2050	* 3.6545	* 3.1664	* 3.5352	* 3.1827	* 3.8257	* 4.0586	* 6.7544
	* 2.7655	* 3.1053	* 2.7448	* 3.0159	* 2.7404	* 3.1967	* 3.2644	* 5.1527

12	* 3.2855	* 2.8292	* 3.1214	* 2.7249	* 3.0400	* 3.0690	* 4.5694	*
	* 3.7070	* 3.2942	* 3.5302	* 3.1730	* 3.4292	* 3.5761	* 5.1386	*
	* 4.0203	* 3.5553	* 3.8485	* 3.4470	* 3.7456	* 3.8996	* 5.6133	*
	* 4.0981	* 3.6291	* 3.9601	* 3.5526	* 3.8654	* 4.0256	* 5.7927	*
	* 3.9819	* 3.5503	* 3.9226	* 3.5330	* 3.8386	* 4.0130	* 5.7253	*
	* 3.5455	* 3.1784	* 3.5125	* 3.1858	* 3.4517	* 3.5646	* 4.9802	*
	* 3.0171	* 2.7446	* 3.0162	* 2.7415	* 2.9498	* 2.9595	* 3.9539	*

13	* 2.9648	* 3.3991	* 3.6476	* 3.3514	* 3.0707	* 3.4413	* 6.1746	*
	* 3.4296	* 3.8246	* 4.1196	* 3.7878	* 3.5761	* 3.9988	* 6.8838	*
	* 3.6831	* 4.1426	* 4.4912	* 4.1506	* 3.8996	* 4.3596	* 7.4813	*
	* 3.7434	* 4.2377	* 4.6260	* 4.3028	* 4.0308	* 4.5005	* 7.6624	*
	* 3.6480	* 4.1639	* 4.5329	* 4.2919	* 4.0129	* 4.4642	* 7.5083	*
	* 3.2425	* 3.7078	* 4.0258	* 3.8257	* 3.5645	* 3.9357	* 6.4182	*
	* 2.7600	* 3.1157	* 3.3545	* 3.1982	* 2.9594	* 3.2047	* 4.9512	*

14	* 3.5414	* 3.3783	* 3.4146	* 3.6693	* 4.5757	* 6.1745	*	*
	* 3.9545	* 3.9064	* 3.9656	* 4.2647	* 5.1443	* 6.8837	*	*
	* 4.2550	* 4.2005	* 4.2860	* 4.6309	* 5.6132	* 7.4811	*	*
	* 4.3317	* 4.2688	* 4.3808	* 4.7463	* 5.7926	* 7.6623	*	*
	* 4.2095	* 4.1518	* 4.2990	* 4.6665	* 5.7252	* 7.5082	*	*
	* 3.6776	* 3.6262	* 3.7519	* 4.0586	* 4.9801	* 6.4182	*	*
	* 3.0386	* 2.9828	* 3.0634	* 3.2644	* 3.9539	* 4.9512	*	*

15	* 4.7955	* 5.6236	* 4.6698	* 6.8674	* 4 EFPD 118	% POWER		
	* 5.3189	* 6.2417	* 5.1947	* 7.6238	* 50 EFPD 118	% POWER		
	* 5.6807	* 6.6932	* 5.5854	* 8.2064	* 100 EFPD 118	% POWER		
	* 5.7394	* 6.7762	* 5.6801	* 8.3183	* 150 EFPD 118	% POWER		
	* 5.4965	* 6.5037	* 5.4952	* 8.0188	* 250 EFPD 118	% POWER		
	* 4.6684	* 5.5280	* 4.6932	* 6.7544	* 350 EFPD 118	% POWER		
	* 3.6544	* 4.3220	* 3.6772	* 5.1527	* 475 EFPD 118	% POWER		

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 6

M-SUB-C VALUES (F-SUB-Q RPS MARGIN) POWER ESCALATION

AT 118% POWER, 4 EFPD, THIS IS LEVEL 24 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A

8*	3.7369	4.5128	4.5889	4.2816	5.0036	4.8625	5.5851	6.2928
9*	4.5128	4.0135	4.5266	4.8291	4.5466	5.1752	5.1527	7.6176
10*	4.5889	4.5267	4.7372	4.3747	4.9218	5.2143	5.1085	6.3650
11*	4.2816	4.8290	4.3747	4.9030	4.5112	5.1028	5.3149	8.8761
12*	5.0036	4.5467	4.9218	4.5112	4.8912	4.7971	6.2171	
13*	4.8625	5.1751	5.2142	5.1028	4.7971	5.2852	8.1320	
14*	5.5851	5.1527	5.0998	5.3149	6.2170	8.1319		
15 *	6.2928	7.5996	6.3650	8.8763				

AT 118% POWER, 4 EFPD, THIS IS LEVEL 23 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A

8*	2.6291	2.0928	2.0659	2.2541	2.4231	2.6548	2.6224	4.5673
9*	2.0928	2.1355	2.0878	2.2130	2.4223	2.4213	2.4456	3.7747
10*	2.0659	2.0878	2.1369	2.3055	2.2561	2.3117	2.3575	4.8400
11*	2.2541	2.2130	2.3091	2.3626	2.3853	2.3146	2.3237	4.5629
12*	2.4231	2.4203	2.2562	2.3853	2.3082	2.2927	3.2792	
13*	2.6548	2.4196	2.3117	2.3130	2.2927	2.3158	4.0404	
14*	2.6224	2.4456	2.3575	2.3237	3.2792	4.0404		
15 *	4.5673	3.7705	4.8331	4.5629				

M-SUB-C VALUES (F-SUB-Q RPS MARGIN) POWER ESCALATION

AT 118% POWER, 4 EFPD, THIS IS LEVEL 22 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A

8*	2.1978	1.7079	1.6778	1.8087	2.0178	2.1386	2.1441	3.7432
9*	1.7079	1.7165	1.7025	1.8055	1.9271	1.9413	1.9075	3.0436
10*	1.6778	1.7025	1.7326	1.8516	1.8398	1.8416	1.8280	3.9369
11*	1.8087	1.8055	1.8550	1.9636	1.8896	1.8637	1.7933	3.7229
12*	2.0178	1.9259	1.8398	1.8896	1.8727	1.7839	2.6537	
13*	2.1386	1.9402	1.8416	1.8637	1.7839	1.7728	3.2246	
14*	2.1441	1.9076	1.8269	1.7933	2.6537	3.2246		
15 *	3.7432	3.0409	3.9367	3.7229				

AT 118% POWER, 4 EFPD, THIS IS LEVEL 21 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A

8*	2.0023	1.5348	1.5058	1.6005	1.7905	1.8573	1.8964	3.3512
9*	1.5348	1.5332	1.5278	1.6123	1.6790	1.7109	1.6364	2.6844
10*	1.5058	1.5278	1.5525	1.6335	1.6222	1.6197	1.5658	3.4629
11*	1.6005	1.6123	1.6361	1.7396	1.6382	1.6318	1.5335	3.2858
12*	1.7905	1.6781	1.6222	1.6391	1.6402	1.5254	2.3307	
13*	1.8573	1.7101	1.6197	1.6318	1.5254	1.4959	2.8192	
14*	1.8964	1.6364	1.5650	1.5327	2.3307	2.8192		
15 *	3.3512	2.6822	3.4663	3.2857				

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 6 (CONTINUED)

M-SUB-C VALUES (F-SUB-Q RPS MARGIN) POWER ESCALATION

AT 118% POWER, 4 EFPD, THIS IS LEVEL 20 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8*	1.9783	1.4979	1.4683	1.5504	1.7234	1.7591	1.8065	3.2425
9*	1.4979	1.4901	1.4892	1.5642	1.6032	1.6392	1.5486	2.5786
10*	1.4683	1.4892	1.5100	1.5798	1.5473	1.5482	1.4790	3.3135
11*	1.5504	1.5635	1.5830	1.6687	1.5611	1.5526	1.4446	3.1512
12*	1.7234	1.6025	1.5480	1.5610	1.5515	1.4370	2.2227	
13*	1.7591	1.6392	1.5482	1.5526	1.4370	1.3964	2.6858	
14*	1.8065	1.5479	1.4790	1.4446	2.2227	2.6858		
15 *	3.2425	2.5766	3.3133	3.1512				

AT 118% POWER, 4 EFPD, THIS IS LEVEL 19 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8*	2.0157	1.5170	1.4834	1.5607	1.7254	1.7449	1.7894	3.2438
9*	1.5170	1.5044	1.5041	1.5740	1.5952	1.6316	1.5307	2.5712
10*	1.4834	1.5041	1.5226	1.5884	1.5334	1.5357	1.4593	3.2904
11*	1.5607	1.5740	1.5908	1.6616	1.5445	1.5358	1.4237	3.1394
12*	1.7254	1.5945	1.5341	1.5452	1.5299	1.4144	2.2051	
13*	1.7449	1.6308	1.5357	1.5358	1.4150	1.3707	2.6663	
14*	1.7894	1.5300	1.4594	1.4237	2.2051	2.6664		
15 *	3.2438	2.5692	3.2902	3.1394				

M-SUB-C VALUES (F-SUB-Q RPS MARGIN) POWER ESCALATION

AT 118% POWER, 4 EFPD, THIS IS LEVEL 18 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8*	2.0846	1.5528	1.5149	1.5915	1.7453	1.7562	1.7942	3.2748
9*	1.5528	1.5386	1.5351	1.6003	1.6091	1.6397	1.5369	2.5912
10*	1.5149	1.5351	1.5507	1.6165	1.5391	1.5422	1.4637	3.3150
11*	1.5915	1.6003	1.6198	1.6766	1.5547	1.5395	1.4271	3.1677
12*	1.7453	1.6084	1.5398	1.5546	1.5335	1.4200	2.2190	
13*	1.7562	1.6397	1.5422	1.5395	1.4200	1.3715	2.6846	
14*	1.7942	1.5370	1.4637	1.4271	2.2190	2.6846		
15 *	3.2748	2.5892	3.3181	3.1677				

AT 118% POWER, 4 EFPD, THIS IS LEVEL 17 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8*	2.2232	1.6352	1.5925	1.6607	1.8162	1.8116	1.8507	3.4063
9*	1.6352	1.6097	1.6125	1.6746	1.6634	1.6978	1.5824	2.6910
10*	1.5925	1.6125	1.6258	1.6858	1.5925	1.5973	1.5053	3.4343
11*	1.6607	1.6737	1.6884	1.7438	1.6079	1.5929	1.4683	3.2852
12*	1.8162	1.6636	1.5932	1.6086	1.5917	1.4632	2.3003	
13*	1.8116	1.6978	1.5973	1.5929	1.4632	1.4120	2.7913	
14*	1.8507	1.5816	1.5060	1.4683	2.3003	2.7890		
15 *	3.4063	2.6889	3.4375	3.2884				

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 6 (CONTINUED)

M-SUB-C VALUES (F-SUB-Q RPS MARGIN) POWER ESCALATION

AT 118% POWER, 4 EFPD, THIS IS LEVEL 16 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8*	2.3627	1.7284	1.6791	1.7447	1.8981	1.8827	1.9194	3.5399
9*	1.7284	1.6938	1.6996	1.7576	1.7346	1.7673	1.6439	2.8030
10*	1.6791	1.6996	1.7109	1.7698	1.6585	1.6653	1.5652	3.5700
11*	1.7447	1.7576	1.7726	1.8261	1.6815	1.6605	1.5278	3.4290
12*	1.8981	1.7348	1.6593	1.6813	1.6634	1.5248	2.4037	
13*	1.8827	1.7664	1.6653	1.6605	1.5248	1.4724	2.9201	
14*	1.9194	1.6440	1.5652	1.5278	2.4037	2.9201		
15 *	3.5399	2.8007	3.5735	3.4290				

AT 118% POWER, 4 EFPD, THIS IS LEVEL 15 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8*	2.5580	1.8577	1.8028	1.8653	2.0221	1.9942	2.0316	3.7534
9*	1.8577	1.8142	1.8225	1.8800	1.8448	1.8763	1.7465	2.9706
10*	1.8028	1.8235	1.8325	1.8912	1.7671	1.7737	1.6648	3.8016
11*	1.8653	1.8800	1.8956	1.9518	1.7954	1.7693	1.6284	3.6531
12*	2.0221	1.8449	1.7680	1.7963	1.7774	1.6313	2.5717	
13*	1.9942	1.8763	1.7737	1.7703	1.6313	1.5763	3.1283	
14*	2.0316	1.7456	1.6657	1.6292	2.5717	3.1283		
15 *	3.7534	2.9680	3.8057	3.6531				

M-SUB-C VALUES (F-SUB-Q RPS MARGIN) POWER ESCALATION

AT 118% POWER, 4 EFPD, THIS IS LEVEL 14 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8*	2.7054	1.9630	1.9018	1.9553	2.1112	2.0674	2.1056	3.9046
9*	1.9630	1.9041	1.9227	1.9751	1.9250	1.9585	1.8138	3.0911
10*	1.9018	1.9227	1.9316	1.9829	1.8449	1.8561	1.7312	3.9479
11*	1.9553	1.9751	1.9865	2.0458	1.8722	1.8473	1.6930	3.8190
12*	2.1112	1.9252	1.8469	1.8731	1.8541	1.6932	2.6880	
13*	2.0674	1.9585	1.8561	1.8483	1.6941	1.6382	3.2748	
14*	2.1056	1.8139	1.7312	1.6939	2.6880	3.2748		
15 *	3.9046	3.0911	3.9522	3.8190				

AT 118% POWER, 4 EFPD, THIS IS LEVEL 13 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8*	2.8422	2.0896	2.0265	2.0741	2.2345	2.1740	2.2123	4.1164
9*	2.0896	2.0204	2.0489	2.0994	2.0287	2.0678	1.9071	3.2617
10*	2.0265	2.0489	2.0553	2.0999	1.9451	1.9597	1.8170	4.1626
11*	2.0741	2.0994	2.1040	2.1642	1.9768	1.9500	1.7817	4.0252
12*	2.2345	2.0289	1.9473	1.9778	1.9610	1.7885	2.8426	
13*	2.1740	2.0678	1.9597	1.9511	1.7885	1.7311	3.4686	
14*	2.2123	1.9071	1.8180	1.7827	2.8426	3.4687		
15 *	4.1164	3.2585	4.1674	4.0251				

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 6 (CONTINUED)

M-SUB-C VALUES (F-SUB-Q RPS MARGIN) POWER ESCALATION

AT 118% POWER, 4 EFPD, THIS IS LEVEL 12 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8*	3.0046	2.2012	2.1368	2.1765	2.3431	2.2971	2.3464	4.3102
9*	2.2012	2.1219	2.1590	2.2093	2.1453	2.2013	2.0294	3.4341
10*	2.1368	2.1604	2.1688	2.2038	2.0744	2.0895	1.9357	4.3658
11*	2.1765	2.2093	2.2083	2.2859	2.1044	2.0786	1.8988	4.2316
12*	2.3431	2.1454	2.0756	2.1056	2.0912	1.9057	3.0266	
13*	2.2971	2.2013	2.0895	2.0798	1.9057	1.8427	3.6768	
14*	2.3464	2.0294	1.9357	1.8987	3.0294	3.6768		
15 *	4.3102	3.4342	4.3654	4.2316				

AT 118% POWER, 4 EFPD, THIS IS LEVEL 11 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8*	2.9039	2.1427	2.0752	2.1190	2.2954	2.2438	2.2906	4.2755
9*	2.1427	2.0628	2.0974	2.1517	2.0827	2.1332	1.9668	3.3998
10*	2.0752	2.0987	2.1066	2.1484	1.9993	2.0184	1.8767	4.3186
11*	2.1190	2.1517	2.1526	2.2213	2.0263	2.0057	1.8378	4.1818
12*	2.2954	2.0829	2.0005	2.0274	2.0126	1.8354	2.9249	
13*	2.2438	2.1333	2.0196	2.0069	1.8364	1.7806	3.5769	
14*	2.2906	1.9669	1.8779	1.8377	2.9249	3.5769		
15 *	4.2755	3.3998	4.3183	4.1817				

M-SUB-C VALUES (F-SUB-Q RPS MARGIN) POWER ESCALATION

AT 118% POWER, 4 EFPD, THIS IS LEVEL 10 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8*	2.7929	2.0504	1.9956	2.0237	2.1925	2.1511	2.1936	4.0603
9*	2.0504	1.9686	2.0161	2.0662	2.0015	2.0554	1.8884	3.2432
10*	1.9956	2.0161	2.0258	2.0509	1.9230	1.9430	1.7968	4.1094
11*	2.0237	2.0662	2.0533	2.1369	1.9505	1.9311	1.7616	3.9756
12*	2.1925	2.0016	1.9241	1.9515	1.9397	1.7639	2.8179	
13*	2.1511	2.0554	1.9441	1.9323	1.7649	1.7104	3.4462	
14*	2.1936	1.8884	1.7968	1.7625	2.8203	3.4462		
15 *	4.0603	3.2401	4.1091	3.9803				

AT 118% POWER, 4 EFPD, THIS IS LEVEL 9 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8*	2.6774	1.9587	1.9037	1.9254	2.0793	2.0312	2.0657	3.8303
9*	1.9587	1.8765	1.9229	1.9654	1.9002	1.9396	1.7843	3.0557
10*	1.9037	1.9234	1.9306	1.9526	1.8290	1.8483	1.6978	3.8675
11*	1.9254	1.9654	1.9560	2.0350	1.8624	1.8435	1.6784	3.7577
12*	2.0793	1.9004	1.8310	1.8644	1.8625	1.6950	2.6890	
13*	2.0312	1.9396	1.8493	1.8445	1.6960	1.6426	3.2832	
14*	2.0657	1.7843	1.6988	1.6793	2.6911	3.2832		
15 *	3.8303	3.0544	3.8672	3.7596				

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 6 (CONTINUED)

M-SUB-C VALUES (F-SUB-Q RPS MARGIN) POWER ESCALATION

AT 118% POWER, 4 EFPD, THIS IS LEVEL 8 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8*	2.5452	1.8507	1.7968	1.8240	1.9667	1.9241	1.9596	3.6409
9*	1.8507	1.7764	1.8154	1.8558	1.7936	1.8349	1.6922	2.8993
10*	1.7968	1.8159	1.8218	1.8475	1.7239	1.7411	1.6058	3.6771
11*	1.8240	1.8558	1.8517	1.9182	1.7579	1.7324	1.5819	3.5598
12*	1.9667	1.7937	1.7256	1.7599	1.7555	1.5934	2.5347	
13*	1.9241	1.8359	1.7420	1.7342	1.5942	1.5439	3.0937	
14*	1.9596	1.6922	1.6067	1.5827	2.5366	3.0937		
15 *	3.6409	2.8982	3.6789	3.5636				

AT 118% POWER, 4 EFPD, THIS IS LEVEL 7 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8*	2.3800	1.7290	1.6764	1.7013	1.8347	1.7944	1.8250	3.4170
9*	1.7290	1.6559	1.6938	1.7307	1.6685	1.7140	1.5730	2.7180
10*	1.6764	1.6943	1.6990	1.7225	1.6011	1.6202	1.4887	3.4346
11*	1.7013	1.7312	1.7251	1.7814	1.6305	1.6086	1.4632	3.3294
12*	1.8347	1.6687	1.6026	1.6320	1.6174	1.4653	2.3558	
13*	1.7944	1.7140	1.6209	1.6094	1.4660	1.4168	2.8779	
14*	1.8250	1.5730	1.4894	1.4639	2.3575	2.8779		
15 *	3.4170	2.7168	3.4362	3.3327				

M-SUB-C VALUES (F-SUB-Q RPS MARGIN) POWER ESCALATION

AT 118% POWER, 4 EFPD, THIS IS LEVEL 6 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8*	2.2669	1.6390	1.5867	1.6117	1.7354	1.7035	1.7287	3.2592
9*	1.6390	1.5690	1.6020	1.6361	1.5786	1.6240	1.4930	2.5907
10*	1.5867	1.6027	1.6066	1.6305	1.5088	1.5318	1.4123	3.2764
11*	1.6117	1.6361	1.6336	1.6805	1.5397	1.5193	1.3856	3.1784
12*	1.7354	1.5787	1.5105	1.5408	1.5230	1.3819	2.2344	
13*	1.7035	1.6240	1.5325	1.5207	1.3825	1.3357	2.7322	
14*	1.7287	1.4930	1.4123	1.3862	2.2352	2.7334		
15 *	3.2592	2.5908	3.2793	3.1800				

AT 118% POWER, 4 EFPD, THIS IS LEVEL 5 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A
8*	2.2052	1.5846	1.5298	1.5577	1.6680	1.6529	1.6730	3.1702
9*	1.5846	1.5178	1.5415	1.5727	1.5243	1.5680	1.4523	2.5283
10*	1.5298	1.5422	1.5451	1.5733	1.4512	1.4777	1.3788	3.2129
11*	1.5577	1.5731	1.5763	1.6121	1.4884	1.4674	1.3522	3.1117
12*	1.6680	1.5248	1.4528	1.4898	1.4695	1.3427	2.1727	
13*	1.6529	1.5684	1.4790	1.4680	1.3433	1.3030	2.6641	
14*	1.6730	1.4523	1.3794	1.3527	2.1735	2.6641		
15 *	3.1702	2.5264	3.2157	3.1132				

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 6 (CONTINUED)

M-SUB-C VALUES (F-SUB-Q RPS MARGIN) POWER ESCALATION

AT 118% POWER, 4 EFPD, THIS IS LEVEL 4 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A

8*	2.1242	1.5213	1.4626	1.4883	1.5662	1.5823	1.5932	3.0531
9*	1.5213	1.4555	1.4666	1.4892	1.4532	1.4969	1.4007	2.4477
10*	1.4626	1.4672	1.4711	1.4983	1.3751	1.4102	1.3362	3.1168
11*	1.4883	1.4895	1.5013	1.5127	1.4211	1.4021	1.3107	3.0296
12*	1.5662	1.4540	1.3763	1.4224	1.3986	1.2899	2.0991	
13*	1.5823	1.4966	1.4111	1.4032	1.2904	1.2593	2.5872	
14*	1.5932	1.4007	1.3365	1.3113	2.0998	2.5872		
15 *	3.0531	2.4469	3.1194	3.0308				

AT 118% POWER, 4 EFPD, THIS IS LEVEL 3 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A

8*	2.1419	1.5365	1.4785	1.4737	1.4937	1.5411	1.5622	3.0636
9*	1.5365	1.4549	1.4664	1.4692	1.4305	1.4866	1.4034	2.4753
10*	1.4785	1.4677	1.4746	1.4524	1.3569	1.4193	1.3614	3.1383
11*	1.4737	1.4692	1.4583	1.4403	1.4030	1.4034	1.3423	3.0875
12*	1.4937	1.4306	1.3583	1.4037	1.3565	1.2894	2.1206	
13*	1.5411	1.4866	1.4202	1.4045	1.2899	1.2844	2.6408	
14*	1.5622	1.4034	1.3619	1.3428	2.1219	2.6408		
15 *	3.0636	2.4743	3.1410	3.0888				

M-SUB-C VALUES (F-SUB-Q RPS MARGIN) POWER ESCALATION

AT 118% POWER, 4 EFPD, THIS IS LEVEL 2 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A

8*	2.4265	1.7606	1.6803	1.3508	1.5654	1.3951	1.6469	3.4126
9*	1.7606	1.4092	1.6803	1.5992	1.3289	1.6659	1.4393	2.7624
10*	1.6803	1.6807	1.6207	1.3031	1.4973	1.6473	1.4378	3.4667
11*	1.3508	1.6000	1.3075	1.5088	1.2749	1.5680	1.5011	3.4530
12*	1.5654	1.3290	1.4993	1.2763	1.4379	1.3223	2.3373	
13*	1.3951	1.6655	1.6485	1.5694	1.3229	1.4528	3.0076	
14*	1.6469	1.4393	1.4381	1.5018	2.3389	3.0077		
15 *	3.4126	2.7601	3.4684	3.4566				

AT 118% POWER, 4 EFPD, THIS IS LEVEL 1 OF 24
(LEVEL 24 = TOP OF CORE, LEVEL 1 = BOTTOM)

	H	G	F	E	D	C	B	A

8*	3.3771	3.8640	3.5613	2.8706	3.2855	2.9648	3.5414	4.7955
9*	3.8640	3.1034	3.7234	3.2968	2.8288	3.4027	3.3783	5.6286
10*	3.5613	3.7235	3.2598	2.7607	3.1091	3.6435	3.4146	4.6647
11*	2.8706	3.2984	2.7683	3.1137	2.7224	3.3497	3.6693	6.8673
12*	3.2855	2.8292	3.1214	2.7249	3.0400	3.0690	4.5694	
13*	2.9648	3.3991	3.6476	3.3514	3.0707	3.4413	6.1746	
14*	3.5414	3.3783	3.4146	3.6693	4.5757	6.1745		
15 *	4.7955	5.6236	4.6698	6.8674				

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 7

F-DEL-H & M-DEL-H VALUES - NORMAL OPERATION

AT 100% POWER, 4 EFPD

	H	G	F	E	D	C	B	A
8	* .9980	* 1.3628	* 1.4020	* 1.2412	* 1.2653	* 1.1246	* 1.2140	* .6532
	* 1.5349	* 1.1491	* 1.1270	* 1.2919	* 1.2531	* 1.4007	* 1.2847	* 2.3359
9	* 1.3628	* 1.2814	* 1.3899	* 1.3517	* 1.2331	* 1.3145	* 1.2753	* .8120
	* 1.1491	* 1.2555	* 1.1476	* 1.1766	* 1.3095	* 1.2069	* 1.2430	* 1.8771
10	* 1.4020	* 1.3889	* 1.3809	* 1.2251	* 1.4130	* 1.3899	* 1.3387	* .6472
	* 1.1270	* 1.1477	* 1.1560	* 1.3261	* 1.1610	* 1.1728	* 1.2184	* 2.4052
11	* 1.2412	* 1.3517	* 1.2231	* 1.3015	* 1.2653	* 1.3919	* 1.3507	* .6593
	* 1.2919	* 1.1766	* 1.3282	* 1.2635	* 1.3064	* 1.1769	* 1.2073	* 2.3890
12	* 1.2653	* 1.2331	* 1.4120	* 1.2643	* 1.3769	* 1.3738	* .9467	*
	* 1.2531	* 1.3093	* 1.1609	* 1.3073	* 1.1794	* 1.1920	* 1.7042	*
13	* 1.1246	* 1.3145	* 1.3889	* 1.3909	* 1.3728	* 1.3849	* .7608	*
	* 1.4007	* 1.2068	* 1.1734	* 1.1767	* 1.1919	* 1.1721	* 2.0963	*
14	* 1.2140	* 1.2753	* 1.3387	* 1.3507	* .9467	* .7608	*	*
	* 1.2847	* 1.2430	* 1.2183	* 1.2072	* 1.7041	* 2.0963	*	*
15	* .6532	* .8120	* .6472	* .6593	* F-DEL-H			
	* 2.3359	* 1.8749	* 2.4081	* 2.3889	* M-DEL-H			

AT 100% POWER, 50 EFPD

	H	G	F	E	D	C	B	A
8	* .9296	* 1.2784	* 1.3155	* 1.2301	* 1.2864	* 1.1658	* 1.2120	* .6462
	* 1.6456	* 1.2241	* 1.2079	* 1.2980	* 1.2311	* 1.3635	* 1.2884	* 2.3623
9	* 1.2784	* 1.2522	* 1.3186	* 1.3125	* 1.2492	* 1.2934	* 1.2904	* .8060
	* 1.2241	* 1.2873	* 1.2043	* 1.2084	* 1.2907	* 1.2265	* 1.2414	* 1.8942
10	* 1.3155	* 1.3186	* 1.3155	* 1.2372	* 1.3909	* 1.3447	* 1.3377	* .6422
	* 1.2079	* 1.2043	* 1.2099	* 1.3300	* 1.1761	* 1.2102	* 1.2148	* 2.4263
11	* 1.2301	* 1.3125	* 1.2331	* 1.3256	* 1.2814	* 1.3588	* 1.3256	* .6482
	* 1.2980	* 1.2083	* 1.3320	* 1.2408	* 1.2840	* 1.2039	* 1.2287	* 2.4291
12	* 1.2864	* 1.2492	* 1.3899	* 1.2814	* 1.3859	* 1.3939	* .9226	*
	* 1.2311	* 1.2907	* 1.1760	* 1.2846	* 1.1744	* 1.1726	* 1.7469	*
13	* 1.1658	* 1.2944	* 1.3447	* 1.3578	* 1.3939	* 1.3678	* .7417	*
	* 1.3635	* 1.2265	* 1.2101	* 1.2042	* 1.1725	* 1.1854	* 2.1488	*
14	* 1.2120	* 1.2904	* 1.3377	* 1.3256	* .9226	* .7417	*	*
	* 1.2884	* 1.2405	* 1.2148	* 1.2294	* 1.7468	* 2.1487	*	*
15	* .6462	* .8060	* .6422	* .6482	* F-DEL-H			
	* 2.3623	* 1.8920	* 2.4260	* 2.4288	* M-DEL-H			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 7 (CONTINUED)

F-DEL-H & M-DEL-H VALUES - NORMAL OPERATION

AT 100% POWER, 100 EFPD

	H	G	F	E	D	C	B	A
8	* .8864	* 1.2211	* 1.2713	* 1.2432	* 1.3125	* 1.2140	* 1.2140	* .6412
	* 1.7320	* 1.2852	* 1.2500	* 1.2836	* 1.2098	* 1.3109	* 1.2884	* 2.3839
9	* 1.2211	* 1.2341	* 1.2784	* 1.2944	* 1.2653	* 1.2764	* 1.2954	* .7980
	* 1.2852	* 1.3087	* 1.2441	* 1.2294	* 1.2757	* 1.2448	* 1.2195	* 1.9156
10	* 1.2713	* 1.2784	* 1.2914	* 1.2834	* 1.3718	* 1.3035	* 1.3206	* .6342
	* 1.2500	* 1.2442	* 1.2465	* 1.2899	* 1.1897	* 1.2442	* 1.2304	* 2.4547
11	* 1.2432	* 1.2944	* 1.2784	* 1.3487	* 1.3035	* 1.3256	* 1.2834	* .6342
	* 1.2836	* 1.2292	* 1.2928	* 1.2214	* 1.2663	* 1.2299	* 1.2667	* 2.4808
12	* 1.3125	* 1.2653	* 1.3718	* 1.3025	* 1.3849	* 1.3839	* .8914	*
	* 1.2098	* 1.2757	* 1.1896	* 1.2662	* 1.1736	* 1.1778	* 1.8065	*
13	* 1.2140	* 1.2764	* 1.3025	* 1.3256	* 1.3839	* 1.3226	* .7156	*
	* 1.3109	* 1.2440	* 1.2441	* 1.2308	* 1.1786	* 1.2212	* 2.2238	*
14	* 1.2140	* 1.2954	* 1.3206	* 1.2834	* .8904	* .7156	*	*
	* 1.2884	* 1.2195	* 1.2303	* 1.2674	* 1.8065	* 2.2238	*	*
15	* .6412	* .7980	* .6342	* .6331	* F-DEL-H			
	* 2.3839	* 1.9153	* 2.4545	* 2.4839	* M-DEL-H			

AT 100% POWER, 150 EFPD

	H	G	F	E	D	C	B	A
8	* .8633	* 1.1879	* 1.2502	* 1.2884	* 1.3356	* 1.2542	* 1.2150	* .6402
	* 1.7878	* 1.3284	* 1.2607	* 1.2465	* 1.1961	* 1.2742	* 1.2911	* 2.3605
9	* 1.1879	* 1.2301	* 1.2573	* 1.3065	* 1.3025	* 1.2673	* 1.2904	* .7909
	* 1.3284	* 1.3206	* 1.2558	* 1.2260	* 1.2460	* 1.2552	* 1.2257	* 1.9368
10	* 1.2502	* 1.2563	* 1.2975	* 1.3186	* 1.3598	* 1.2693	* 1.2964	* .6281
	* 1.2607	* 1.2568	* 1.2498	* 1.2556	* 1.2019	* 1.2742	* 1.2366	* 2.4797
11	* 1.2884	* 1.3065	* 1.3155	* 1.3628	* 1.3256	* 1.2954	* 1.2432	* .6211
	* 1.2465	* 1.2250	* 1.2584	* 1.2098	* 1.2476	* 1.2580	* 1.3027	* 2.5328
12	* 1.3356	* 1.3025	* 1.3598	* 1.3226	* 1.3748	* 1.3598	* .8633	*
	* 1.1961	* 1.2460	* 1.2022	* 1.2481	* 1.1803	* 1.1957	* 1.8361	*
13	* 1.2542	* 1.2673	* 1.2683	* 1.2944	* 1.3598	* 1.2784	* .6924	*
	* 1.2742	* 1.2547	* 1.2742	* 1.2586	* 1.1957	* 1.2636	* 2.2583	*
14	* 1.2150	* 1.2914	* 1.2964	* 1.2432	* .8633	* .6924	*	*
	* 1.2911	* 1.2257	* 1.2366	* 1.3031	* 1.8368	* 2.2583	*	*
15	* .6402	* .7919	* .6281	* .6211	* F-DEL-H			
	* 2.3605	* 1.9368	* 2.4814	* 2.5327	* M-DEL-H			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 7 (CONTINUED)

F-DEL-H & M-DEL-H VALUES - NORMAL OPERATION

AT 100% POWER, 250 EFPD

	H	G	F	E	D	C	B	A
8	.8442	1.1457	1.2211	1.3608	1.3537	1.3306	1.2181	.6512
	1.8131	1.3831	1.2764	1.1732	1.1542	1.2090	1.2582	2.2908
9	1.1457	1.2583	1.2231	1.3135	1.3698	1.2703	1.2814	.7919
	1.3831	1.2699	1.2753	1.1898	1.1871	1.2200	1.2219	1.8820
10	1.2211	1.2221	1.2934	1.3859	1.3447	1.2261	1.2683	.6331
	1.2764	1.2763	1.2229	1.1910	1.2009	1.2842	1.2487	2.3911
11	1.3608	1.3145	1.3839	1.3658	1.3748	1.2472	1.1909	.6130
	1.1732	1.1889	1.1926	1.1799	1.1883	1.2639	1.3313	2.4923
12	1.3537	1.3708	1.3447	1.3728	1.3437	1.3155	.8321	
	1.1542	1.1854	1.2008	1.1891	1.1664	1.1973	1.8683	
13	1.3306	1.2713	1.2261	1.2472	1.3155	1.2221	.6713	
	1.2090	1.2190	1.2839	1.2639	1.1972	1.2781	2.2831	
14	1.2181	1.2814	1.2683	1.1909	.8321	.6713		
	1.2582	1.2210	1.2480	1.3313	1.8683	2.2831		
15	.6512	.7919	.6331	.6130	F-DEL-H			
	2.2908	1.8819	2.3938	2.4954	M-DEL-H			

AT 100% POWER, 350 EFPD

	H	G	F	E	D	C	B	A
8	.8452	1.1226	1.1929	1.3809	1.3367	1.3608	1.2221	.6774
	1.8113	1.3923	1.2871	1.1378	1.1648	1.1461	1.2552	2.1706
9	1.1226	1.2653	1.1909	1.2944	1.3919	1.2593	1.2784	.8120
	1.3923	1.2675	1.2897	1.1884	1.1306	1.2274	1.2064	1.8113
10	1.1929	1.1899	1.2673	1.4000	1.3186	1.1949	1.2623	.6563
	1.2871	1.2903	1.2262	1.1543	1.2092	1.2958	1.2354	2.2780
11	1.3809	1.2944	1.3980	1.3387	1.3849	1.2191	1.1789	.6281
	1.1378	1.1874	1.1558	1.1955	1.1545	1.2689	1.3431	2.3938
12	1.3367	1.3939	1.3186	1.3839	1.3085	1.2975	.8301	
	1.1648	1.1298	1.2092	1.1550	1.1711	1.2102	1.8362	
13	1.3608	1.2593	1.1949	1.2191	1.2964	1.1990	.6804	
	1.1461	1.2274	1.2952	1.2695	1.2102	1.2983	2.2060	
14	1.2221	1.2784	1.2623	1.1789	.8301	.6804		
	1.2552	1.2064	1.2354	1.3432	1.8362	2.2060		
15	.6774	.8130	.6563	.6281	F-DEL-H			
	2.1706	1.8099	2.2778	2.3937	M-DEL-H			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 7 (CONTINUED)

F-DEL-H & M-DEL-H VALUES - NORMAL OPERATION

AT 100% POWER, 475 EFPD

	H	G	F	E	D	C	B	A
8	* .8583	* 1.1025	* 1.1547	* 1.3588	* 1.2864	* 1.3568	* 1.2191	* .7226
	* 1.7883	* 1.4206	* 1.3286	* 1.1348	* 1.1829	* 1.1303	* 1.2379	* 2.0428
9	* 1.1025	* 1.2512	* 1.1487	* 1.2452	* 1.3688	* 1.2281	* 1.2894	* .8543
	* 1.4206	* 1.2698	* 1.3348	* 1.2251	* 1.1282	* 1.2327	* 1.1819	* 1.7277
10	* 1.1547	* 1.1487	* 1.2181	* 1.3698	* 1.2673	* 1.1638	* 1.2633	* .7005
	* 1.3286	* 1.3348	* 1.2690	* 1.1573	* 1.2315	* 1.3260	* 1.2213	* 2.1456
11	* 1.3588	* 1.2452	* 1.3678	* 1.2824	* 1.3628	* 1.1970	* 1.1909	* .6703
	* 1.1348	* 1.2251	* 1.1585	* 1.2189	* 1.1484	* 1.2868	* 1.3141	* 2.2550
12	* 1.2864	* 1.3698	* 1.2673	* 1.3608	* 1.2653	* 1.2944	* .8563	
	* 1.1829	* 1.1273	* 1.2324	* 1.1488	* 1.1983	* 1.1925	* 1.7810	
13	* 1.3568	* 1.2291	* 1.1638	* 1.1970	* 1.2944	* 1.2000	* .7196	
	* 1.1303	* 1.2327	* 1.3260	* 1.2868	* 1.1925	* 1.2782	* 2.0859	
14	* 1.2191	* 1.2894	* 1.2633	* 1.1909	* .8563	* .7196		
	* 1.2379	* 1.1819	* 1.2213	* 1.3141	* 1.7810	* 2.0859		
15	* .7226	* .8543	* .7005	* .6693	* F-DEL-H			
	* 2.0428	* 1.7275	* 2.1457	* 2.2553	* M-DEL-H			

AT 75% POWER, 4 EFPD

	H	G	F	E	D	C	B	A
8	* .9115	* 1.3658	* 1.4201	* 1.2603	* 1.2874	* 1.1447	* 1.2382	* .6573
	* 1.9197	* 1.4192	* 1.3406	* 1.5250	* 1.4785	* 1.6876	* 1.5474	* 2.8001
9	* 1.3658	* 1.2975	* 1.4100	* 1.3769	* 1.2512	* 1.3397	* 1.2995	* .8171
	* 1.4192	* 1.4924	* 1.3382	* 1.3790	* 1.5887	* 1.4484	* 1.4989	* 2.2558
10	* 1.4201	* 1.4100	* 1.4040	* 1.2422	* 1.4311	* 1.4060	* 1.3588	* .6472
	* 1.3406	* 1.3382	* 1.3591	* 1.6009	* 1.4052	* 1.4226	* 1.4637	* 2.9598
11	* 1.2603	* 1.3769	* 1.2402	* 1.3055	* 1.2683	* 1.3949	* 1.3608	* .6553
	* 1.5250	* 1.3790	* 1.6033	* 1.5433	* 1.6113	* 1.4474	* 1.4957	* 2.9380
12	* 1.2874	* 1.2512	* 1.4301	* 1.2663	* 1.2492	* 1.3266	* .9316	
	* 1.4785	* 1.5873	* 1.4050	* 1.6129	* 1.4453	* 1.4658	* 2.1199	
13	* 1.1447	* 1.3397	* 1.4050	* 1.3949	* 1.3256	* 1.3467	* .7337	
	* 1.6876	* 1.4482	* 1.4224	* 1.4480	* 1.4665	* 1.4426	* 2.5843	
14	* 1.2382	* 1.2995	* 1.3588	* 1.3598	* .9316	* .7337		
	* 1.5474	* 1.4977	* 1.4636	* 1.4956	* 2.1198	* 2.5843		
15	* .6573	* .8171	* .6472	* .6553	* F-DEL-H			
	* 2.8001	* 2.2556	* 2.9594	* 2.9377	* M-DEL-H			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 7 (CONTINUED)

F-DEL-H & M-DEL-H VALUES - NORMAL OPERATION

AT 75% POWER, 50 EFPD

	H	G	F	E	D	C	B	A
8	.8563	1.2743	1.3296	1.2472	1.3105	1.1869	1.2382	.6502
	2.0735	1.5224	1.4263	1.5719	1.4859	1.6555	1.5615	2.8529
9	1.2743	1.2633	1.3356	1.3336	1.2693	1.3176	1.3186	.8120
	1.5224	1.5406	1.4219	1.4357	1.5770	1.4867	1.4862	2.3235
10	1.3296	1.3356	1.3336	1.2452	1.4090	1.3588	1.3608	.6432
	1.4263	1.4229	1.4421	1.6091	1.4362	1.4772	1.4722	2.9994
11	1.2472	1.3336	1.2422	1.3296	1.2804	1.3578	1.3336	.6452
	1.5719	1.4346	1.6101	1.5332	1.5819	1.4791	1.5238	3.0456
12	1.3105	1.2693	1.4090	1.2794	1.2613	1.3467	.9065	
	1.4859	1.5770	1.4360	1.5826	1.4401	1.4399	2.1703	
13	1.1869	1.3186	1.3578	1.3568	1.3467	1.3286	.7146	
	1.6555	1.4855	1.4760	1.4800	1.4409	1.4568	2.6832	
14	1.2382	1.3186	1.3608	1.3326	.9065	.7146		
	1.5615	1.4850	1.4720	1.5236	2.1725	2.6832		
15	.6502	.8120	.6432	.6452	F-DEL-H			
	2.8529	2.3208	3.0033	3.0452	M-DEL-H			

AT 75% POWER, 100 EFPD

	H	G	F	E	D	C	B	A
8	.8231	1.2150	1.2874	1.2673	1.3417	1.2402	1.2422	.6472
	2.1908	1.6009	1.4634	1.5357	1.4411	1.5712	1.5421	2.8398
9	1.2150	1.2452	1.2964	1.3176	1.2854	1.3015	1.3246	.8050
	1.6009	1.5502	1.4591	1.4427	1.5413	1.4896	1.4628	2.2898
10	1.2874	1.2954	1.3065	1.2884	1.3939	1.3165	1.3437	.6352
	1.4634	1.4602	1.4724	1.5666	1.4364	1.4785	1.4678	2.9974
11	1.2673	1.3186	1.2844	1.3547	1.2864	1.3196	1.2894	.6301
	1.5357	1.4415	1.5664	1.5081	1.5622	1.5073	1.5705	3.0317
12	1.3417	1.2854	1.3929	1.2824	1.2764	1.3306	.8723	
	1.4411	1.5410	1.4366	1.5621	1.4357	1.4446	2.2105	
13	1.2402	1.3015	1.3165	1.3186	1.3296	1.2784	.6864	
	1.5712	1.4895	1.4784	1.5083	1.4446	1.4987	2.7303	
14	1.2422	1.3246	1.3437	1.2894	.8723	.6864		
	1.5421	1.4617	1.4678	1.5704	2.2105	2.7303		
15	.6472	.8050	.6352	.6301	F-DEL-H			
	2.8398	2.2870	2.9971	3.0315	M-DEL-H			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 7 (CONTINUED)

F-DEL-H & M-DEL-H VALUES - NORMAL OPERATION

AT 75% POWER, 150 EFPD

	H	G	F	E	D	C	B	A
8	* .8060	* 1.1809	* 1.2683	* 1.3196	* 1.3708	* 1.2874	* 1.2472	* .6472
	* 2.2687	* 1.6441	* 1.4871	* 1.4557	* 1.3883	* 1.4962	* 1.5065	* 2.8184
9	* 1.1809	* 1.2382	* 1.2764	* 1.3346	* 1.3286	* 1.2954	* 1.3226	* .8000
	* 1.6441	* 1.5565	* 1.4875	* 1.4165	* 1.4773	* 1.4566	* 1.4426	* 2.2725
10	* 1.2683	* 1.2753	* 1.3155	* 1.3316	* 1.3839	* 1.2884	* 1.3196	* .6301
	* 1.4871	* 1.4878	* 1.4717	* 1.5072	* 1.4131	* 1.4854	* 1.4583	* 2.9293
11	* 1.3196	* 1.3367	* 1.3286	* 1.3728	* 1.3165	* 1.2844	* 1.2472	* .6171
	* 1.4557	* 1.4154	* 1.5071	* 1.4773	* 1.5345	* 1.5165	* 1.5819	* 3.0291
12	* 1.3708	* 1.3286	* 1.3829	* 1.3125	* 1.2774	* 1.2964	* .8412	*
	* 1.3883	* 1.4740	* 1.4132	* 1.5355	* 1.4419	* 1.4649	* 2.2737	*
13	* 1.2874	* 1.2964	* 1.2884	* 1.2834	* 1.2964	* 1.2211	* .6603	*
	* 1.4962	* 1.4557	* 1.4853	* 1.5175	* 1.4649	* 1.5504	* 2.8121	*
14	* 1.2472	* 1.3226	* 1.3196	* 1.2472	* .8412	* .6603	*	*
	* 1.5065	* 1.4424	* 1.4583	* 1.5820	* 2.2736	* 2.8121	*	*
15	* .6472	* .8000	* .6301	* .6171	* F-DEL-H			
	* 2.8184	* 2.2724	* 2.9290	* 3.0290	* M-DEL-H			

AT 75% POWER, 250 EFPD

	H	G	F	E	D	C	B	A
8	* .7919	* 1.1387	* 1.2442	* 1.4070	* 1.4000	* 1.3789	* 1.2583	* .6623
	* 2.3019	* 1.6926	* 1.5117	* 1.3678	* 1.3580	* 1.3889	* 1.4986	* 2.7344
9	* 1.1387	* 1.2713	* 1.2462	* 1.3527	* 1.4140	* 1.3105	* 1.3216	* .8060
	* 1.6926	* 1.5378	* 1.5139	* 1.4084	* 1.3683	* 1.4377	* 1.4294	* 2.2800
10	* 1.2442	* 1.2452	* 1.3165	* 1.4090	* 1.3728	* 1.2462	* 1.2954	* .6392
	* 1.5117	* 1.5142	* 1.4767	* 1.4124	* 1.4185	* 1.5302	* 1.4681	* 2.9001
11	* 1.4070	* 1.3537	* 1.4060	* 1.3789	* 1.3598	* 1.2291	* 1.1889	* .6090
	* 1.3678	* 1.4073	* 1.4132	* 1.4553	* 1.4496	* 1.5654	* 1.6411	* 3.0137
12	* 1.4000	* 1.4160	* 1.3718	* 1.3578	* 1.2573	* 1.2291	* .8030	*
	* 1.3580	* 1.3658	* 1.4184	* 1.4516	* 1.4371	* 1.4826	* 2.3556	*
13	* 1.3789	* 1.3115	* 1.2462	* 1.2281	* 1.2291	* 1.1367	* .6301	*
	* 1.3889	* 1.4366	* 1.5302	* 1.5654	* 1.4826	* 1.5895	* 2.8579	*
14	* 1.2583	* 1.3226	* 1.2954	* 1.1889	* .8030	* .6301	*	*
	* 1.4986	* 1.4294	* 1.4680	* 1.6410	* 2.3556	* 2.8578	*	*
15	* .6623	* .8060	* .6392	* .6080	* F-DEL-H			
	* 2.7344	* 2.2790	* 2.9013	* 3.0151	* M-DEL-H			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 7 (CONTINUED)

F-DEL-H & M-DEL-H VALUES - NORMAL OPERATION

AT 75% POWER, 350 EFPD

	H	G	F	E	D	C	B	A
8	* .7889	* 1.1135	* 1.2201	* 1.4361	* 1.3929	* 1.4221	* 1.2733	* .6945
	* 2.3058	* 1.7365	* 1.5481	* 1.3359	* 1.3537	* 1.3493	* 1.4728	* 2.6420
9	* 1.1135	* 1.2824	* 1.2171	* 1.3407	* 1.4492	* 1.3085	* 1.3286	* .8331
	* 1.7365	* 1.5091	* 1.5554	* 1.4062	* 1.3332	* 1.4272	* 1.4219	* 2.2037
10	* 1.2201	* 1.2171	* 1.2934	* 1.4251	* 1.3497	* 1.2171	* 1.2944	* .6673
	* 1.5481	* 1.5564	* 1.4790	* 1.3839	* 1.4159	* 1.5436	* 1.4606	* 2.7593
11	* 1.4361	* 1.3417	* 1.4231	* 1.3517	* 1.3668	* 1.1909	* 1.1748	* .6251
	* 1.3359	* 1.4058	* 1.3848	* 1.4470	* 1.4240	* 1.5660	* 1.6322	* 2.9479
12	* 1.3929	* 1.4512	* 1.3497	* 1.3638	* 1.2140	* 1.1980	* .7950	*
	* 1.3537	* 1.3314	* 1.4158	* 1.4249	* 1.4378	* 1.4797	* 2.3157	*
13	* 1.4221	* 1.3085	* 1.2171	* 1.1909	* 1.1980	* 1.0934	* .6301	*
	* 1.3493	* 1.4262	* 1.5436	* 1.5661	* 1.4797	* 1.5940	* 2.8291	*
14	* 1.2733	* 1.3286	* 1.2944	* 1.1748	* .7950	* .6301	*	*
	* 1.4728	* 1.4138	* 1.4606	* 1.6322	* 2.3157	* 2.8291	*	*
15	* .6945	* .8341	* .6673	* .6251	* F-DEL-H			
	* 2.6420	* 2.2037	* 2.7608	* 2.9479	* M-DEL-H			

AT 75% POWER, 475 EFPD

	H	G	F	E	D	C	B	A
8	* .7849	* 1.0914	* 1.1919	* 1.4291	* 1.3568	* 1.4382	* 1.2904	* .7537
	* 2.3042	* 1.7888	* 1.6000	* 1.3377	* 1.3939	* 1.3249	* 1.4724	* 2.4889
9	* 1.0914	* 1.2713	* 1.1829	* 1.3025	* 1.4402	* 1.2934	* 1.3608	* .8904
	* 1.7888	* 1.5312	* 1.6126	* 1.4559	* 1.3252	* 1.4566	* 1.3955	* 2.1067
10	* 1.1919	* 1.1829	* 1.2492	* 1.4010	* 1.3045	* 1.1939	* 1.3095	* .7226
	* 1.6000	* 1.6136	* 1.5327	* 1.3770	* 1.4630	* 1.5810	* 1.4490	* 2.6000
11	* 1.4291	* 1.3035	* 1.4000	* 1.2934	* 1.3356	* 1.1557	* 1.1889	* .6723
	* 1.3377	* 1.4552	* 1.3780	* 1.4960	* 1.4333	* 1.6206	* 1.6101	* 2.7730
12	* 1.3568	* 1.4422	* 1.3045	* 1.3346	* 1.1346	* 1.1628	* .8110	*
	* 1.3939	* 1.3234	* 1.4629	* 1.4343	* 1.5052	* 1.5104	* 2.2945	*
13	* 1.4382	* 1.2934	* 1.1939	* 1.1557	* 1.1628	* 1.0663	* .6532	*
	* 1.3249	* 1.4555	* 1.5802	* 1.6206	* 1.5104	* 1.6335	* 2.7417	*
14	* 1.2904	* 1.3608	* 1.3095	* 1.1889	* .8110	* .6532	*	*
	* 1.4724	* 1.3955	* 1.4490	* 1.6101	* 2.2945	* 2.7417	*	*
15	* .7537	* .8904	* .7226	* .6723	* F-DEL-H			
	* 2.4889	* 2.1045	* 2.5999	* 2.7730	* M-DEL-H			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 7 (CONTINUED)

F-DEL-H & M-DEL-H VALUES - NORMAL OPERATION

AT 50% POWER, 4 EFPD

	H	G	F	E	D	C	B	A
8	* .8864	* 1.3758	* 1.4442	* 1.2844	* 1.3135	* 1.1658	* 1.2633	* .6613
	* 2.0301	* 1.5144	* 1.4805	* 1.7213	* 1.7013	* 1.8250	* 1.7741	* 3.3094
9	* 1.3758	* 1.3186	* 1.4402	* 1.4060	* 1.2703	* 1.3638	* 1.3226	* .8221
	* 1.5144	* 1.6563	* 1.5010	* 1.5674	* 1.6753	* 1.6453	* 1.7203	* 2.6562
10	* 1.4442	* 1.4402	* 1.4321	* 1.2623	* 1.4542	* 1.4201	* 1.3779	* .6472
	* 1.4805	* 1.5010	* 1.5237	* 1.7030	* 1.5442	* 1.5516	* 1.6509	* 3.4656
11	* 1.2844	* 1.4060	* 1.2603	* 1.3115	* 1.2683	* 1.3959	* 1.3638	* .6512
	* 1.7213	* 1.5673	* 1.7061	* 1.6867	* 1.5885	* 1.5511	* 1.6177	* 3.3795
12	* 1.3135	* 1.2703	* 1.4532	* 1.2673	* 1.1970	* 1.2804	* .9125	*
	* 1.7013	* 1.6757	* 1.5451	* 1.5912	* 1.5050	* 1.5811	* 2.2997	*
13	* 1.1658	* 1.3648	* 1.4191	* 1.3949	* 1.2794	* 1.2944	* .7035	*
	* 1.8250	* 1.6451	* 1.5520	* 1.5509	* 1.5816	* 1.5567	* 2.8587	*
14	* 1.2633	* 1.3226	* 1.3779	* 1.3638	* .9125	* .7035	*	*
	* 1.7741	* 1.7202	* 1.6517	* 1.6176	* 2.2996	* 2.8586	*	*
15	* .6613	* .8231	* .6472	* .6502	* F-DEL-H			
	* 3.3094	* 2.6528	* 3.4654	* 3.3792	* M-DEL-H			

AT 50% POWER, 50 EFPD

	H	G	F	E	D	C	B	A
8	* .8301	* 1.2774	* 1.3507	* 1.2673	* 1.3367	* 1.2090	* 1.2643	* .6553
	* 2.2111	* 1.6361	* 1.5994	* 1.7844	* 1.6948	* 1.9193	* 1.7958	* 3.3782
9	* 1.2774	* 1.2794	* 1.3578	* 1.3578	* 1.2894	* 1.3417	* 1.3457	* .8191
	* 1.6361	* 1.7113	* 1.6011	* 1.6419	* 1.7810	* 1.6850	* 1.7222	* 2.7059
10	* 1.3507	* 1.3568	* 1.3537	* 1.2623	* 1.4311	* 1.3738	* 1.3829	* .6442
	* 1.5994	* 1.6022	* 1.6166	* 1.8013	* 1.5658	* 1.6000	* 1.6530	* 3.5150
11	* 1.2673	* 1.3578	* 1.2603	* 1.3356	* 1.2804	* 1.3557	* 1.3367	* .6412
	* 1.7844	* 1.6418	* 1.8040	* 1.6481	* 1.7058	* 1.5815	* 1.6442	* 3.4183
12	* 1.3367	* 1.2894	* 1.4301	* 1.2794	* 1.2150	* 1.2964	* .8894	*
	* 1.6948	* 1.7809	* 1.5667	* 1.7065	* 1.5410	* 1.5481	* 2.3443	*
13	* 1.2090	* 1.3427	* 1.3738	* 1.3547	* 1.2954	* 1.2794	* .6864	*
	* 1.9193	* 1.6836	* 1.5999	* 1.5822	* 1.5481	* 1.5651	* 2.9127	*
14	* 1.2643	* 1.3457	* 1.3829	* 1.3356	* .8894	* .6864	*	*
	* 1.7958	* 1.7209	* 1.6528	* 1.6443	* 2.3459	* 2.9126	*	*
15	* .6553	* .8191	* .6442	* .6412	* F-DEL-H			
	* 3.3782	* 2.7057	* 3.5148	* 3.4179	* M-DEL-H			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 7 (CONTINUED)

F-DEL-H & M-DEL-H VALUES - NORMAL OPERATION

AT 50% POWER, 100 EFPD

	H	G	F	E	D	C	B	A
8	* .7940	* 1.2161	* 1.3105	* 1.2975	* 1.3769	* 1.2713	* 1.2753	* .6553
	* 2.3487	* 1.7146	* 1.6666	* 1.7440	* 1.6312	* 1.7993	* 1.7594	* 3.3436
9	* 1.2161	* 1.2613	* 1.3206	* 1.3477	* 1.3095	* 1.3286	* 1.3568	* .8151
	* 1.7146	* 1.7509	* 1.6622	* 1.6509	* 1.7555	* 1.6886	* 1.6717	* 2.6836
10	* 1.3105	* 1.3196	* 1.3256	* 1.3005	* 1.4171	* 1.3377	* 1.3678	* .6392
	* 1.6666	* 1.6634	* 1.6735	* 1.7339	* 1.5832	* 1.6435	* 1.6594	* 3.5051
11	* 1.2975	* 1.3487	* 1.2995	* 1.3628	* 1.2854	* 1.3095	* 1.2934	* .6271
	* 1.7440	* 1.6507	* 1.7391	* 1.6137	* 1.6799	* 1.6011	* 1.6844	* 3.4723
12	* 1.3769	* 1.3095	* 1.4160	* 1.2814	* 1.2191	* 1.2653	* .8502	*
	* 1.6312	* 1.7554	* 1.5841	* 1.6796	* 1.5239	* 1.5391	* 2.4038	*
13	* 1.2713	* 1.3296	* 1.3377	* 1.3095	* 1.2653	* 1.2150	* .6522	*
	* 1.7993	* 1.6872	* 1.6440	* 1.6016	* 1.5401	* 1.5954	* 2.9832	*
14	* 1.2753	* 1.3578	* 1.3668	* 1.2924	* .8502	* .6522	*	*
	* 1.7594	* 1.6704	* 1.6593	* 1.6856	* 2.4037	* 2.9832	*	*
15	* .6553	* .8161	* .6392	* .6271	* F-DEL-H			
	* 3.3436	* 2.6803	* 3.5046	* 3.4720	* M-DEL-H			

AT 50% POWER, 150 EFPD

	H	G	F	E	D	C	B	A
8	* .7678	* 1.1829	* 1.3035	* 1.3698	* 1.4261	* 1.3387	* 1.2924	* .6643
	* 2.4360	* 1.7789	* 1.6402	* 1.6334	* 1.5508	* 1.6832	* 1.6975	* 3.2438
9	* 1.1829	* 1.2613	* 1.3085	* 1.3819	* 1.3658	* 1.3437	* 1.3698	* .8201
	* 1.7789	* 1.7491	* 1.6352	* 1.5877	* 1.6562	* 1.6328	* 1.6182	* 2.6121
10	* 1.3035	* 1.3075	* 1.3336	* 1.3527	* 1.4160	* 1.3155	* 1.3537	* .6422
	* 1.6402	* 1.6352	* 1.6497	* 1.6820	* 1.5868	* 1.6773	* 1.6462	* 3.4041
11	* 1.3698	* 1.3829	* 1.3507	* 1.3829	* 1.3125	* 1.2633	* 1.2472	* .6171
	* 1.6334	* 1.5853	* 1.6876	* 1.5902	* 1.6380	* 1.6244	* 1.7294	* 3.5229
12	* 1.4261	* 1.3668	* 1.4160	* 1.3085	* 1.1859	* 1.2000	* .8080	*
	* 1.5508	* 1.6513	* 1.5867	* 1.6379	* 1.5165	* 1.5459	* 2.4591	*
13	* 1.3387	* 1.3447	* 1.3155	* 1.2623	* 1.1990	* 1.1196	* .6120	*
	* 1.6832	* 1.6303	* 1.6772	* 1.6244	* 1.5469	* 1.6340	* 3.0497	*
14	* 1.2924	* 1.3698	* 1.3537	* 1.2472	* .8080	* .6120	*	*
	* 1.6975	* 1.6169	* 1.6461	* 1.7306	* 2.4593	* 3.0497	*	*
15	* .6643	* .8211	* .6422	* .6171	* F-DEL-H			
	* 3.2438	* 2.6120	* 3.3987	* 3.5228	* M-DEL-H			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 7 (CONTINUED)

F-DEL-H & M-DEL-H VALUES - NORMAL OPERATION

AT 50% POWER, 250 EFPD

	H	G	F	E	D	C	B	A
8	.7427	1.1346	1.2794	1.4773	1.4723	1.4502	1.2884	.6693
	2.5206	1.8223	1.5940	1.4648	1.4323	1.4885	1.5919	2.9893
9	1.1346	1.2824	1.2643	1.4110	1.4834	1.3708	1.3738	.8261
	1.8223	1.6374	1.5952	1.4776	1.4665	1.5175	1.5409	2.4478
10	1.2794	1.2643	1.2753	1.4371	1.4140	1.2814	1.3397	.6553
	1.5940	1.5964	1.5435	1.5205	1.5016	1.6175	1.5903	3.1553
11	1.4773	1.4120	1.4351	1.3849	1.3537	1.2090	1.1970	.6141
	1.4648	1.4765	1.5223	1.5464	1.5618	1.6472	1.7902	3.3313
12	1.4723	1.4854	1.4130	1.3497	1.1527	1.1336		.7708
	1.4323	1.4637	1.5025	1.5640	1.5074	1.5846		2.4944
13	1.4502	1.3718	1.2814	1.2090	1.1326	1.0271		.5809
	1.4885	1.5163	1.6174	1.6471	1.5846	1.7021		3.0767
14	1.2884	1.3748	1.3397	1.1970	.7708	.5809		
	1.5919	1.5407	1.5902	1.7902	2.4944	3.0767		
15	.6693	.8271	.6543	.6141	F-DEL-H			
	2.9893	2.4467	3.1549	3.3311	M-DEL-H			

AT 50% POWER, 475 EFPD

	H	G	F	E	D	C	B	A
8	.7266	1.0723	1.2110	1.4995	1.4251	1.5015	1.2693	.7266
	2.2187	1.9053	1.6572	1.4027	1.4484	1.3883	1.5457	2.6460
9	1.0723	1.2502	1.1819	1.3537	1.5145	1.3457	1.3829	.8965
	1.9053	1.6458	1.6610	1.5136	1.3889	1.5167	1.4783	2.2487
10	1.2110	1.1819	1.1326	1.4311	1.3477	1.2372	1.3638	.7377
	1.6572	1.6616	1.5792	1.4526	1.5181	1.6276	1.5295	2.8370
11	1.4995	1.3547	1.4311	1.2834	1.3367	1.1638	1.2281	.6924
	1.4027	1.5130	1.4531	1.5859	1.5295	1.7005	1.6254	2.7941
12	1.4251	1.5165	1.3477	1.3356	1.0573	1.1015		.8090
	1.4484	1.3870	1.5171	1.5313	1.4495	1.6486		2.3521
13	1.5015	1.3467	1.2382	1.1638	1.1015	1.0100		.6331
	1.3883	1.5156	1.6276	1.7005	1.6486	1.7985		2.9541
14	1.2693	1.3839	1.3638	1.2281	.8090	.6331		
	1.5457	1.4783	1.5286	1.6254	2.3521	2.9542		
15	.7266	.8975	.7377	.6924	F-DEL-H			
	2.6460	2.2461	2.8389	2.7941	M-DEL-H			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 8

F-DEL-H & M-DEL-H VALUES - POWER ESCALATION

AT 100% POWER, 4 EFPD

	H	G	F	E	D	C	B	A
8	* .9980	* 1.3628	* 1.4020	* 1.2412	* 1.2653	* 1.1246	* 1.2140	* .6532
	* 1.5349	* 1.1491	* 1.1270	* 1.2919	* 1.2531	* 1.4007	* 1.2847	* 2.3359
9	* 1.3628	* 1.2814	* 1.3899	* 1.3517	* 1.2331	* 1.3145	* 1.2753	* .8120
	* 1.1491	* 1.2555	* 1.1476	* 1.1766	* 1.3095	* 1.2069	* 1.2430	* 1.8771
10	* 1.4020	* 1.3889	* 1.3809	* 1.2251	* 1.4130	* 1.3899	* 1.3387	* .6472
	* 1.1270	* 1.1477	* 1.1560	* 1.3261	* 1.1610	* 1.1728	* 1.2184	* 2.4052
11	* 1.2412	* 1.3517	* 1.2231	* 1.3015	* 1.2653	* 1.3919	* 1.3507	* .6593
	* 1.2919	* 1.1766	* 1.3282	* 1.2635	* 1.3064	* 1.1769	* 1.2073	* 2.3890
12	* 1.2653	* 1.2331	* 1.4120	* 1.2643	* 1.3769	* 1.3738	* .9467	*
	* 1.2531	* 1.3093	* 1.1609	* 1.3073	* 1.1794	* 1.1920	* 1.7042	*
13	* 1.1246	* 1.3145	* 1.3889	* 1.3909	* 1.3728	* 1.3849	* .7608	*
	* 1.4007	* 1.2068	* 1.1734	* 1.1767	* 1.1919	* 1.1721	* 2.0963	*
14	* 1.2140	* 1.2753	* 1.3387	* 1.3507	* .9467	* .7608	*	*
	* 1.2847	* 1.2430	* 1.2183	* 1.2072	* 1.7041	* 2.0963	*	*
15	* .6532	* .8120	* .6472	* .6593	F-DEL-H			
	* 2.3359	* 1.8749	* 2.4081	* 2.3889	M-DEL-H			

AT 75% POWER, 4 EFPD

	H	G	F	E	D	C	B	A
8	* .9929	* 1.3738	* 1.4171	* 1.2462	* 1.2663	* 1.1206	* 1.2120	* .6432
	* 1.9197	* 1.4192	* 1.3406	* 1.5250	* 1.4785	* 1.6876	* 1.5474	* 2.8001
9	* 1.3738	* 1.2894	* 1.4030	* 1.3618	* 1.2362	* 1.3216	* 1.2804	* .8010
	* 1.4192	* 1.4924	* 1.3382	* 1.3790	* 1.5887	* 1.4484	* 1.4989	* 2.2558
10	* 1.4171	* 1.4030	* 1.3939	* 1.2291	* 1.4251	* 1.4030	* 1.3467	* .6372
	* 1.3406	* 1.3382	* 1.3591	* 1.6009	* 1.4052	* 1.4226	* 1.4637	* 2.9598
11	* 1.2462	* 1.3618	* 1.2271	* 1.3055	* 1.2723	* 1.4050	* 1.3618	* .6502
	* 1.5250	* 1.3790	* 1.6033	* 1.5433	* 1.6113	* 1.4474	* 1.4957	* 2.9380
12	* 1.2663	* 1.2362	* 1.4241	* 1.2713	* 1.3879	* 1.3839	* .9457	*
	* 1.4785	* 1.5873	* 1.4050	* 1.6129	* 1.4453	* 1.4658	* 2.1199	*
13	* 1.1206	* 1.3226	* 1.4030	* 1.4040	* 1.3839	* 1.3959	* .7537	*
	* 1.6876	* 1.4482	* 1.4224	* 1.4480	* 1.4665	* 1.4426	* 2.5843	*
14	* 1.2120	* 1.2804	* 1.3467	* 1.3608	* .9457	* .7537	*	*
	* 1.5474	* 1.4977	* 1.4636	* 1.4956	* 2.1198	* 2.5843	*	*
15	* .6432	* .8020	* .6372	* .6502	F-DEL-H			
	* 2.8001	* 2.2556	* 2.9594	* 2.9377	M-DEL-H			

Catawba 2 Cycle 11 Core Operating Limits Report

TABLE 8 (CONTINUED)

F-DEL-H & M-DEL-H VALUES - POWER ESCALATION

AT 50% POWER, 4 EFPD

	H	G	F	E	D	C	B	A
8	* .9869	* 1.3839	* 1.4301	* 1.2522	* 1.2673	* 1.1166	* 1.2090	* .6331
	* 2.0301	* 1.5144	* 1.4805	* 1.7213	* 1.7013	* 1.8250	* 1.7741	* 3.3094
9	* 1.3839	* 1.2964	* 1.4160	* 1.3708	* 1.2402	* 1.3276	* 1.2834	* .7909
	* 1.5144	* 1.6563	* 1.5010	* 1.5674	* 1.6753	* 1.6453	* 1.7203	* 2.6562
10	* 1.4301	* 1.4150	* 1.4060	* 1.2331	* 1.4371	* 1.4160	* 1.3527	* .6271
	* 1.4805	* 1.5010	* 1.5237	* 1.7030	* 1.5442	* 1.5516	* 1.6509	* 3.4656
11	* 1.2522	* 1.3708	* 1.2311	* 1.3095	* 1.2784	* 1.4181	* 1.3698	* .6412
	* 1.7213	* 1.5673	* 1.7061	* 1.6867	* 1.5885	* 1.5511	* 1.6177	* 3.3795
12	* 1.2673	* 1.2402	* 1.4351	* 1.2774	* 1.3990	* 1.3939	* .9437	*
	* 1.7013	* 1.6757	* 1.5451	* 1.5912	* 1.5050	* 1.5811	* 2.2997	*
13	* 1.1166	* 1.3286	* 1.4150	* 1.4171	* 1.3939	* 1.4050	* .7477	*
	* 1.8250	* 1.6451	* 1.5520	* 1.5509	* 1.5816	* 1.5567	* 2.8587	*
14	* 1.2090	* 1.2834	* 1.3527	* 1.3698	* .9437	* .7477	*	*
	* 1.7741	* 1.7202	* 1.6517	* 1.6176	* 2.2996	* 2.8586	*	*
15	* .6331	* .7919	* .6271	* .6412	* F-DEL-H			
	* 3.3094	* 2.6528	* 3.4654	* 3.3792	* M-DEL-H			

AT 30% POWER, 4 EFPD

	H	G	F	E	D	C	B	A
8	* .9829	* 1.3929	* 1.4422	* 1.2573	* 1.2683	* 1.1135	* 1.2060	* .6231
	* 2.0301	* 1.5144	* 1.4805	* 1.7213	* 1.7013	* 1.8250	* 1.7741	* 3.3094
9	* 1.3929	* 1.3045	* 1.4271	* 1.3789	* 1.2432	* 1.3326	* 1.2854	* .7829
	* 1.5144	* 1.6563	* 1.5010	* 1.5674	* 1.6753	* 1.6453	* 1.7203	* 2.6562
10	* 1.4422	* 1.4271	* 1.4171	* 1.2382	* 1.4462	* 1.4261	* 1.3578	* .6191
	* 1.4805	* 1.5010	* 1.5237	* 1.7030	* 1.5442	* 1.5516	* 1.6509	* 3.4656
11	* 1.2573	* 1.3789	* 1.2351	* 1.3125	* 1.2844	* 1.4281	* 1.3769	* .6342
	* 1.7213	* 1.5673	* 1.7061	* 1.6867	* 1.5885	* 1.5511	* 1.6177	* 3.3795
12	* 1.2683	* 1.2432	* 1.4452	* 1.2834	* 1.4070	* 1.4020	* .9427	*
	* 1.7013	* 1.6757	* 1.5451	* 1.5912	* 1.5050	* 1.5811	* 2.2997	*
13	* 1.1135	* 1.3326	* 1.4251	* 1.4271	* 1.4020	* 1.4120	* .7417	*
	* 1.8250	* 1.6451	* 1.5520	* 1.5509	* 1.5816	* 1.5567	* 2.8587	*
14	* 1.2060	* 1.2854	* 1.3578	* 1.3758	* .9427	* .7417	*	*
	* 1.7741	* 1.7202	* 1.6517	* 1.6176	* 2.2996	* 2.8586	*	*
15	* .6231	* .7829	* .6191	* .6331	* F-DEL-H			
	* 3.3094	* 2.6528	* 3.4654	* 3.3792	* M-DEL-H			