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PAGE NO. 1 OF 303

TITLE: MCGUIRE 2 CYCLE 8
CORE OPERATING LIMITS REPORT

DATE

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McGuire Nuclear Station COLR

McGuire Unit 2 Cycle 8

Core Operating Limits Report

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Revision 1

Duke Power Company

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McGuire 2 Cycle 8 Core Operating Limits Report

REVISION LOG

<u>Revision</u>	<u>Effective Date</u>	<u>Effective Pages</u>
Original Issue	21 February 1992	Pages 1 - 303
Revision 1	8 January 1993	Pages 1 -3A, 11, 12, 16, 252 - 278, and A1 - A39

McGuire 2 Cycle 8 Core Operating Limits Report

Insertion Sheet for Revision 1

Remove Pages

Pages 1 - 3A, 11, 12, 16,
and 252 - 278

Insert Rev. 1 Pages

Pages 1 - 3A, 11, 12, 16, 252 - 278, Insert
pages A1 - A39 after page 303

McGuire 2 Cycle 8 Core Operating Limits Report

2.5 Heat Flux Hot Channel Factor, $F_Q(X,Y,Z)$ (Specification 3/4.2.2)

$$2.5.1 \quad \gamma_Q^{RTP} = 2.52$$

2.5.2 $K(Z)$ is provided in Figure 4 for Mark-BW fuel.

2.5.3 $K(Z)$ is provided in Figure 5 for OFA fuel.

The following parameters are required for core monitoring per the Surveillance Requirements of Specification 3/4.2.2:

$$2.5.4 \quad [F_Q^L(X,Y,Z)]^{OP} = F_Q^D(X,Y,Z) * M_Q(X,Y,Z) / (UMT * MT * TILT)$$

where $[F_Q^L(X,Y,Z)]^{OP}$ = cycle dependent maximum allowable design peaking factor which ensures that the $F_Q(X,Y,Z)$ limit will be preserved for operation within the LCO limits $[F_Q^L(X,Y,Z)]^{OP}$.
 $[F_Q^L(X,Y,Z)]^{OP}$ includes allowances for calculational and measurement uncertainties.

$F_Q^D(X,Y,Z)$ = the design power distribution for F_Q . $F_Q^D(X,Y,Z)$ is provided in Table 1 and A1 for normal operating conditions and in Table 1A for power escalation during startup operations.

$M_Q(X,Y,Z)$ = the 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 2 and A2 for normal operating conditions and in Table 2A for power escalation during startup operations.

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

McGuire 2 Cycle 8 Core Operating Limits Report

2.5.5 $[F_Q^L(X,Y,Z)]^{RPS} = F_Q^D(X,Y,Z) * (M_C(X,Y,Z)/(UMT*MT*TILT))$

where $[F_Q^L(X,Y,Z)]^{RPS}$ = cycle dependent maximum allowable design peaking factor which ensures that the centerline fuel melt limit will be preserved for operation within the LCO limits. $[F_Q^L(X,Y,Z)]^{RPS}$ includes allowances for calculational and measurement uncertainties.

$F_Q^D(X,Y,Z)$ = the design power distributions for F_Q . $F_Q^D(X,Y,Z)$ is provided in Table 1 and A1 for normal operating conditions and in Table 1A for power escalation during startup operations.

$M_C(X,Y,Z)$ = the 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 and A3 for normal operating conditions and in Table 3A for power escalation during 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.

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

2.5.6 $KSLOPE = 0.078$

McGuire 2 Cycle 8 Core Operating Limits Report

2.6 Nuclear Enthalpy Rise Hot Channel Factor, $F_{\Delta H}(X,Y,Z)$ (Specification 3/4.2.3)

$$[F_{\Delta H}(X,Y)]^{LCO} = \text{MARP}(X,Y) * [1.0 + (1/\text{RRH}) * (1.0 - P)]$$

2.6.1 McGuire 2 Cycle 8 Operating Limit Maximum Allowable Radial Peaks, (MARP(X,Y)), are provided in Table 4.

The following parameters are required for core monitoring per the Surveillance Requirements of Specification 3/4.2.3:

$$[F_{\Delta H}(X,Y)]^{\text{SURV}} = F_{\Delta H}^D(X,Y) * M_{\Delta H}(X,Y)/(\text{UMR} * \text{TILT}), \text{ as identified in DPC-NE-2011PA.}$$

where

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

TILT = Factor to account for a peaking increase due to an allowable quadrant tilt, (TILT = 1.02).

2.6.2 $F_{\Delta H}^D(X,Y)$ = the design power distribution for $F_{\Delta H}$. $F_{\Delta H}^D(X,Y)$ is provided in Table 5 and A5 for normal operating conditions and in Table 5A for power escalation during startup operations.

2.6.3 $M_{\Delta H}(X,Y)$ = the margin remaining in core location X,Y to the DNB limit from the transient power distribution. $M_{\Delta H}(X,Y)$ is provided in Table 6 and A6 for normal operating conditions and in Table 6A for power escalation during startup operations.

2.6.4 $\text{RRH} = 3.34$ when $0.0 < P \leq 1.0$,

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

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

TABLE 3

CORE OPERATING LIMITS REPORT

M-SUB-C VALUES (F-SUB-Q RPS MARGIN)

MC (3-D) AT: 118% POWER 4 EFPD THIS IS THE 18-TH LEVEL OF 18
WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A
8 *	2.3319	1.7142	2.3711	1.7540	2.2333	2.1217	2.5361	2.7090
9 *	1.7104	1.9533	1.7136	1.9790	1.7084	2.2265	2.0371	2.8583
10 *	2.3097	1.7256	2.1439	1.8409	1.9497	1.8365	2.4782	2.7725
11 *	1.7567	1.9844	1.8424	1.9571	1.7962	2.3201	2.3224	2.8153
12 *	2.3290	1.7168	1.9499	1.7968	2.3706	2.1565	2.7768	
13 *	2.1259	2.2213	1.8351	2.3212	2.1558	2.4081	3.1593	
14 *	2.5379	2.0390	2.4764	2.3222	2.7778	3.1574		
15 *	2.7095	2.8613	2.7730	2.8166				

MC (3-D) AT: 118% POWER 4 EFPD THIS IS THE 17-TH LEVEL OF 18
WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A
8 *	1.5839	1.2466	1.6138	1.2753	1.4967	1.3496	1.5716	1.6405
9 *	1.2438	1.4231	1.2424	1.4398	1.2360	1.4368	1.3784	1.9060
10 *	1.5721	1.2511	1.4164	1.2594	1.4138	1.3211	1.5449	1.6654
11 *	1.2773	1.4438	1.2604	1.3996	1.2861	1.4705	1.4140	1.8080
12 *	1.5609	1.2421	1.4139	1.2865	1.5538	1.3592	1.6671	
13 *	1.3522	1.4335	1.3201	1.4711	1.3587	1.6064	2.0557	
14 *	1.5727	1.3797	1.5438	1.4139	1.6678	2.0544		
15 *	1.6408	1.9080	1.6657	1.8088				

TABLE 3 (cont.)

CORE OPERATING LIMITS REPORT

M-SUB-C VALUES (F-SUB-Q RPS MARGIN)

MC (3-D) AT: 118% POWER 4 EFPD THIS IS THE 16-TH LEVEL OF 18
WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A

3 *	1.4492	1.1144	1.4812	1.1442	1.3694	1.1884	1.3621	1.3751
9 *	1.1119	1.3228	1.1125	1.3491	1.1033	1.2736	1.1792	1.6674
10 *	1.4429	1.1203	1.2950	1.1510	1.3015	1.1536	1.3319	1.3863
11 *	1.1460	1.3528	1.1519	1.2889	1.1338	1.2778	1.1762	1.5585
12 *	1.4281	1.1087	1.3017	1.1341	1.3892	1.1481	1.4288	
13 *	1.1907	1.2706	1.1527	1.2784	1.1477	1.4059	1.8163	
14 *	1.3631	1.1803	1.3309	1.1761	1.4293	1.8152		
15 *	1.3754	1.6692	1.3065	1.5592				

MC (3-D) AT: 118% POWER 4 EFPD THIS IS THE 15-TH LEVEL OF 18
WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A

8 *	1.4605	1.1033	1.4969	1.1367	1.3827	1.1696	1.3218	1.3061
9 *	1.1009	1.3425	1.1043	1.3773	1.0888	1.2558	1.1297	1.6181
10 *	1.4582	1.1120	1.3111	1.1609	1.3066	1.1176	1.2846	1.3094
11 *	1.1385	1.3811	1.1618	1.2979	1.1066	1.2383	1.1091	1.5034
12 *	1.4419	1.0942	1.3067	1.1069	1.3737	1.0927	1.3819	
13 *	1.1719	1.2529	1.1168	1.2389	1.0923	1.3638	1.7886	
14 *	1.3228	1.1307	1.2836	1.1090	1.3824	1.7875		
15 *	1.3063	1.6199	1.3097	1.5041				

TABLE 3 (cont.)

CORE OPERATING LIMITS REPORT

M-SUB-C VALUES (F-SUB-Q RPS MARGIN)

MC (3-D) AT: 118% POWER 4 EFPD THIS IS THE 14-TH LEVEL OF 18
WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A

8 *	1.5513	1.1570	1.5895	1.1923	1.4645	1.2161	1.3584	1.3215
9 *	1.1544	1.4298	1.1587	1.4694	1.1352	1.3066	1.1515	1.6614
10 *	1.5483	1.1668	1.3944	1.2299	1.3758	1.1488	1.3139	1.3221
11 *	1.1941	1.4735	1.2309	1.3716	1.1451	1.2721	1.1183	1.5401
12 *	1.5273	1.1408	1.3760	1.1454	1.4346	1.1107	1.4217	
13 *	1.2185	1.3036	1.1479	1.2727	1.1104	1.4024	1.8630	
14 *	1.3593	1.1525	1.3129	1.1182	1.4222	1.8619		
15 *	1.3218	1.6632	1.3223	1.5409				

MC (3-D) AT: 118% POWER 4 EFPD THIS IS THE 13-TH LEVEL OF 18
WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A

8 *	1.7047	1.2643	1.7350	1.2951	1.5970	1.3070	1.4334	1.3740
9 *	1.2615	1.5704	1.2624	1.6138	1.2260	1.4062	1.2194	1.7422
10 *	1.6901	1.2712	1.5319	1.3472	1.4989	1.2295	1.3974	1.3910
11 *	1.2970	1.6182	1.3484	1.5025	1.2360	1.3627	1.1792	1.6401
12 *	1.6655	1.2320	1.4991	1.2364	1.5677	1.1828	1.5256	
13 *	1.3095	1.4030	1.2286	1.3633	1.1824	1.5051	2.0175	
14 *	1.4344	1.2205	1.3964	1.1790	1.5262	2.0163		
15 *	1.3743	1.7441	1.3913	1.6409				

TABLE 3 (cont.)
CORE OPERATING LIMITS REPORT

M-SUB-C VALUES (F-SUB-Q RPS MARGIN)

MC (3-D) AT: 118% POWER 4 EFPD THIS IS THE 12-TH LEVEL OF 18
WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A

8 *	1.8642	1.3958	1.8846	1.4285	1.7527	1.4089	1.5275	1.4502
9 *	1.3928	1.7106	1.3922	1.7619	1.3452	1.5350	1.3046	1.8510
10 *	1.8358	1.4019	1.6716	1.4981	1.6591	1.3416	1.5152	1.4884
11 *	1.4307	1.7667	1.4993	1.6690	1.3653	1.4964	1.2776	1.7789
12 *	1.8278	1.3518	1.6593	1.3658	1.7470	1.2951	1.6769	
13 *	1.4116	1.5315	1.3406	1.4971	1.2946	1.6571	2.2324	
14 *	1.5286	1.3058	1.5140	1.2774	1.6775	2.2310		
15 *	1.4505	1.8529	1.4887	1.7798				

MC (3-D) AT: 118% POWER 4 EFPD THIS IS THE 11-TH LEVEL OF 18
WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A

8 *	2.0461	1.5212	2.0580	1.5518	1.9039	1.5123	1.6276	1.5327
9 *	1.5178	1.8733	1.5123	1.9212	1.4720	1.6512	1.3855	1.9649
10 *	2.0048	1.5229	1.8250	1.6338	1.8138	1.4858	1.6409	1.5730
11 *	1.5542	1.9264	1.6351	1.8202	1.5194	1.6582	1.3990	1.9312
12 *	1.9856	1.4792	1.8140	1.5199	1.9566	1.4326	1.8579	
13 *	1.5152	1.6474	1.4847	1.6590	1.4321	1.8406	2.4858	
14 *	1.6288	1.3868	1.6397	1.3988	1.8586	2.4843		
15 *	1.5330	1.9670	1.5733	1.9321				

TABLE 3 (cont.)

CORE OPERATING LIMITS REPORT

M-SUB-C VALUES (F-SUB-Q RPS MARGIN)

MC (3-D) AT: 118% POWER 4 EFDP THIS IS THE 10-TH LEVEL OF 18
WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A
8 *	2.2201	1.6629	2.2327	1.6866	2.0273	1.6566	1.7686	1.6491
9 *	1.6593	2.0368	1.6481	2.0965	1.5975	1.8112	1.4992	2.1299
10 *	2.1749	1.6596	1.9906	1.7861	1.9781	1.6257	1.7845	1.6938
11 *	1.6892	2.1022	1.7876	1.9925	1.6578	1.8498	1.5484	2.0997
12 *	2.1142	1.6053	1.9783	1.6583	2.1419	1.6013	2.0795	
13 *	1.6599	1.8070	1.6245	1.8507	1.6008	2.6613	2.7343	
14 *	1.7698	1.5006	1.7832	1.5482	2.0803	2.7326		
15 *	1.6494	2.1321	1.6941	2.1007				

MC (3-D) AT: 118% POWER 4 EFDP THIS IS THE 9-TH LEVEL OF 18
WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A
8 *	2.1479	1.6083	2.1598	1.6437	2.0118	1.6446	1.7843	1.7047
9 *	1.6047	1.9706	1.5992	2.0286	1.5763	1.8018	1.5225	2.2033
10 *	2.1039	1.6104	1.9239	1.7397	1.9383	1.6140	1.8224	1.7699
11 *	1.6462	2.0341	1.7412	1.9453	1.6484	1.8253	1.5573	2.2029
12 *	2.0981	1.5840	1.9385	1.6490	2.1401	1.6003	2.0958	
13 *	1.6478	1.7976	1.6128	1.8262	1.5997	2.0761	2.8457	
14 *	1.7856	1.5239	1.8211	1.5571	2.0966	2.8440		
15 *	1.7050	2.2057	1.7702	2.2040				

TABLE 3 (cont.)
CORE OPERATING LIMITS REPORT

M-SUB-C VALUES (F-SUB-Q RPS MARGIN)

MC (3-D) AT: 118% POWER 4 EFPD THIS IS THE 8-TH LEVEL OF 18
WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A

8 *	2.0856	1.5518	2.0935	1.5723	1.9000	1.5852	1.7030	1.6171
9 *	1.5483	1.9134	1.5415	1.9468	1.4969	1.7368	1.4578	2.0905
10 *	2.0393	1.5523	1.8622	1.6803	1.8744	1.5589	1.7442	1.6788
11 *	1.5747	1.9522	1.6817	1.8848	1.5865	1.7845	1.5071	2.0835
12 *	1.9814	1.5042	1.8746	1.5870	2.0672	1.5756	2.0313	
13 *	1.5883	1.7328	1.5577	1.7853	1.5751	2.0271	2.7260	
14 *	1.7092	1.4591	1.7429	1.5069	2.0321	2.7243		
15 *	1.6174	2.0928	1.6791	2.0845				

MC (3-D) AT: 118% POWER 4 EFPD THIS IS THE 7-TH LEVEL OF 18
WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A

8 *	1.9303	1.4275	1.9094	1.4419	1.7738	1.4525	1.5703	1.4861
9 *	1.4243	1.7510	1.4082	1.7871	1.3788	1.5909	1.3340	1.9306
10 *	1.8600	1.4180	1.6973	1.5322	1.7055	1.4157	1.5885	1.5331
11 *	1.4441	1.7920	1.5334	1.7185	1.4533	1.6375	1.3883	1.9032
12 *	1.8498	1.3855	1.7057	1.4538	1.9140	1.4521	1.8755	
13 *	1.4553	1.5872	1.4147	1.6382	1.4516	1.8561	2.4842	
14 *	1.5714	1.3353	1.5873	1.3882	1.8762	2.4828		
15 *	1.4864	1.9326	1.5334	1.9041				

TABLE 3 (cont.)

CORE OPERATING LIMITS REPORT

M-SUB-C VALUES (F-SUB-Q RPS MARGIN)

MC (3-D) AT: 118% POWER 4 EFPD THIS IS THE 6-TH LEVEL OF 18
WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A
8 *	1.7667	1.3040	1.7643	1.3261	1.6459	1.3469	1.4633	1.3853
9 *	1.3011	1.6142	1.2919	1.6541	1.2700	1.4742	1.2367	1.8077
10 *	1.7187	1.3009	1.5668	1.4089	1.5749	1.3023	1.4641	1.4191
11 *	1.3282	1.6586	1.4101	1.5823	1.3287	1.4986	1.2601	1.7597
12 *	1.7164	1.2762	1.5750	1.3292	1.7456	1.3298	1.7253	
13 *	1.3495	1.4707	1.3014	1.4993	1.3294	1.7000	2.3012	
14 *	1.4643	1.2378	1.4630	1.2600	1.7260	2.2998		
15 *	1.3856	1.8096	1.4194	1.7605				

MC (3-D) AT: 118% POWER 4 EFPD THIS IS THE 5-TH LEVEL OF 18
WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A
8 *	1.6536	1.2143	1.6601	1.2405	1.5523	1.2690	1.3884	1.3172
9 *	1.2116	1.5150	1.2062	1.5563	1.1901	1.3889	1.1680	1.7250
10 *	1.6171	1.2146	1.4712	1.3170	1.4807	1.2163	1.3765	1.3414
11 *	1.3424	1.5605	1.3181	1.4842	1.2401	1.4006	1.1642	1.6617
12 *	1.6189	1.1960	1.4808	1.2405	1.6308	1.2349	1.6218	
13 *	1.2714	1.3856	1.2154	1.4012	1.2345	1.5942	2.1796	
14 *	1.3894	1.1691	1.3754	1.1640	1.6225	2.1783		
15 *	1.3174	1.7268	1.3417	1.6625				

TABLE 3 (cont.)
CORE OPERATING LIMITS REPORT

M-SUB-C VALUES (F-SUB-Q RPS MARGIN)

MC (3-D) AT: 118% POWER 4 EFPD THIS IS THE 4-TH LEVEL OF 18
WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A
8 *	1.5865	1.1587	1.5958	1.1861	1.4914	1.2202	1.3494	1.2896
9 *	1.1562	1.4516	1.1520	1.4920	1.1402	1.3370	1.1332	1.6895
10 *	1.5545	1.1600	1.4091	1.2548	1.4213	1.1674	1.3307	1.3089
11 *	1.1879	1.4961	1.2558	1.4220	1.1880	1.3294	1.1152	1.6184
12 *	1.5553	1.1458	1.4214	1.1883	1.5647	1.1624	1.5456	
13 *	1.2226	1.3339	1.1665	1.3300	1.1620	1.5360	2.1186	
14 *	1.3504	1.1343	1.3297	1.1151	1.5462	2.1173		
15 *	1.2898	1.6913	1.3091	1.6192				

MC (3-D) AT: 118% POWER 4 EFPD THIS IS THE 3-TH LEVEL OF 18
WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A
8 *	1.5710	1.1481	1.5811	1.1748	1.4671	1.2106	1.3600	1.3270
9 *	1.1456	1.4314	1.1416	1.4682	1.1296	1.3269	1.1474	1.7232
10 *	1.5402	1.1496	1.3896	1.2307	1.4013	1.1681	1.3396	1.3466
11 *	1.1766	1.4722	1.2317	1.4026	1.1827	1.3213	1.1284	1.6524
12 *	1.5299	1.1352	1.4015	1.1831	1.5498	1.1587	1.5505	
13 *	1.2129	1.3238	1.1672	1.3219	1.1583	1.5326	2.1288	
14 *	1.3609	1.1485	1.3386	1.1283	1.5511	2.1276		
15 *	1.3273	1.7251	1.3468	1.6532				

TABLE 3 (cont.)
CORE OPERATING LIMITS REPORT

M-SUB-C VALUES (F-SUB-Q RPS MARGIN)

MC (3-D) AT: 118% POWER 4 EFPD THIS IS THE 2-TH LEVEL OF 18
WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A
8 *	1.6501	1.2259	1.6604	1.2521	1.5274	1.2915	1.4760	1.5170
9 *	1.2231	1.4956	1.2196	1.5311	1.2015	1.4029	1.2611	1.9073
10 *	1.6174	1.2281	1.4597	1.2932	1.4628	1.2566	1.4555	1.5443
11 *	1.2540	1.5352	1.2943	1.4703	1.2660	1.4175	1.2672	1.8518
12 *	1.5929	1.2074	1.4630	1.2664	1.6302	1.2781	1.7016	
13 *	1.2941	1.3996	1.2557	1.4181	1.2777	1.6715	2.3204	
14 *	1.4770	1.2623	1.4544	1.2671	1.7023	2.3190		
15 *	1.5173	1.9093	1.5445	1.8527				

MC (3-D) AT: 118% POWER 4 EFPD THIS IS THE 1-TH LEVEL OF 18
WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A
8 *	2.1253	1.5350	2.1437	1.5712	1.9614	1.7768	2.0231	2.3360
9 *	1.5316	1.9270	1.761	1.9860	1.5020	1.8364	1.6343	2.6948
10 *	2.0882	1.5468	1.9370	1.7621	1.8768	1.5259	1.9831	2.3906
11 *	1.5736	1.9915	1.7635	1.9311	1.5919	1.8976	1.8542	2.7189
12 *	2.0455	1.5093	1.8770	1.5924	2.1137	1.8011	2.4169	
13 *	1.7803	1.8322	1.5248	1.8984	1.8005	2.3392	3.2899	
14 *	2.0245	1.6358	1.9816	1.8540	2.4178	3.2880		
15 *	2.3364	2.6977	2.3911	2.7202				

TABLE 3 (cont.)
CORE OPERATING LIMITS REPORT

M-SUP-C VALUES (F-SUB-Q RPS MARGIN)

MC (3-D) AT: 118% POWER 200 EFPD THIS IS THE 18-TH LEVEL OF 18
WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A

8 *	2.4571	1.8663	2.2974	1.6758	2.0651	1.9170	2.1980	2.2356
9 *	1.8722	2.0107	1.6956	1.8696	1.6469	2.0043	1.8214	2.3800
10 *	2.2546	1.6947	2.0955	1.8199	1.8703	1.7743	2.2179	2.2861
11 *	1.6779	1.8720	1.8205	2.0109	1.8761	2.2954	2.0962	2.6932
12 *	2.1094	1.6489	1.8705	1.8765	2.3469	2.1052	2.7837	
13 *	1.9202	2.0033	1.7737	2.2954	2.1048	2.3989	2.9102	
14 *	2.1983	1.8211	2.2181	2.0965	2.7826	2.9089		
15 *	2.2356	2.3808	2.2864	2.6935				

MC (3-D) AT: 118% POWER 200 EFPD THIS IS THE 17-TH LEVEL OF 18
WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A

8 *	1.6827	1.3562	1.5822	1.2173	1.3988	1.2719	1.4022	1.4191
9 *	1.3605	1.4895	1.2333	1.3796	1.1769	1.3166	1.2311	1.6227
10 *	1.5528	1.2326	1.4235	1.3003	1.3769	1.2540	1.4161	1.4367
11 *	1.2188	1.3813	1.3007	1.4873	1.3374	1.4989	1.3345	1.7899
12 *	1.4280	1.1783	1.3771	1.3377	1.5640	1.3685	1.7343	
13 *	1.2740	1.3159	1.2536	1.4989	1.3683	1.6500	1.9530	
14 *	1.4075	1.2309	1.4162	1.3347	1.7337	1.9521		
15 *	1.4195	1.6232	1.4369	1.7900				

TABLE 3 (cont.)
CORE OPERATING LIMITS REPORT

M-SUB-C VALUES (F-SUB-Q RPS MARGIN)

MC (3-D) AT: 118% POWER 200 EFPD THIS IS THE 16-TH LEVEL OF 18
WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A
8 *	1.5676	1.2261	1.4825	1.1127	1.3036	1.1585	1.2511	1.2366
9 *	1.2299	1.4167	1.1288	1.3163	1.0672	1.1938	1.0785	1.4570
10 *	1.4549	1.1282	1.3371	1.2284	1.2963	1.1150	1.2570	1.2432
11 *	1.1141	1.3180	1.2288	1.4161	1.2060	1.3484	1.1605	1.5975
12 *	1.3315	1.0684	1.2964	1.2062	1.4357	1.2019	1.5410	
13 *	1.1604	1.1932	1.1147	1.3484	1.2017	1.4930	1.7795	
14 *	1.2513	1.0780	1.2571	1.1606	1.5404	1.7788		
15 *	1.2369	1.4574	1.2434	1.5977				

MC (3-D) AT: 118% POWER 200 EFPD THIS IS THE 15-TH LEVEL OF 18
WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A
8 *	1.4898	1.1650	1.5056	1.1218	1.3356	1.1677	1.2418	1.2075
9 *	1.1686	1.3908	1.1399	1.3628	1.0679	1.1989	1.0539	1.4446
10 *	1.4775	1.1393	1.3801	1.2672	1.3258	1.0996	1.2426	1.2090
11 *	1.1232	1.3645	1.2077	1.3942	1.1577	1.3090	1.1329	1.5851
12 *	1.3642	1.0692	1.3260	1.1579	1.4205	1.1788	1.5117	
13 *	1.1696	1.1983	1.0993	1.3090	1.1786	1.4766	1.7570	
14 *	1.2420	1.0538	1.2427	1.1330	1.5111	1.7563		
15 *	1.2079	1.4451	1.2092	1.5853				

TABLE 3 (cont.)
CORE OPERATING LIMITS REPORT

M-SUB-C VALUES (F-SUB-Q RPS MARGIN)

MC (3-D) AT: 118% POWER 200 EFPD THIS IS THE 14-TH LEVEL OF 18
WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A

8 *	1.5211	1.1832	1.5569	1.1868	1.4277	1.2329	1.2955	1.2462
9 *	1.1869	1.4372	1.1949	1.4663	1.1231	1.2626	1.0883	1.5051
10 *	1.5279	1.1943	1.4636	1.3420	1.3755	1.1445	1.2933	1.2449
11 *	1.1883	1.4682	1.3425	1.4358	1.1667	1.3214	1.1695	1.6562
12 *	1.4584	1.1244	1.3756	1.1669	1.4350	1.1756	1.5283	
13 *	1.2350	1.2620	1.1441	1.3214	1.1754	1.4842	1.7912	
14 *	1.2957	1.0882	1.2935	1.1697	1.5277	1.7905		
15 *	1.2465	1.5055	1.2451	1.6564				

MC (3-D) AT: 118% POWER 200 EFPD THIS IS THE 13-TH LEVEL OF 18
WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A

8 *	1.6378	1.2566	1.6690	1.2878	1.5554	1.3329	1.3898	1.3281
9 *	1.2605	1.5423	1.2695	1.5825	1.2125	1.3618	1.1603	1.6079
10 *	1.6379	1.2688	1.5718	1.4377	1.4671	1.2092	1.3801	1.3190
11 *	1.2894	1.5845	1.4382	1.5358	1.2308	1.3914	1.2125	1.7631
12 *	1.5888	1.2139	1.4673	1.2310	1.5317	1.2296	1.6123	
13 *	1.3351	1.3611	1.2088	1.3914	1.2294	1.5615	1.9026	
14 *	1.3900	1.1601	1.3802	1.2127	1.6116	1.9018		
15 *	1.3284	1.6085	1.3192	1.7633				

TABLE 3 (cont.)
CORE OPERATING LIMITS REPORT

M-SUB-1 VALUES (F-SUB-Q RPS MARGIN)

MC (3-D) AT: 118% POWER 200 EFPD THIS IS THE 12-TH LEVEL OF 18
WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A
8 *	1.8163	1.3772	1.8394	1.4067	1.7248	1.4640	1.5113	1.4310
9 *	1.3816	1.7052	1.3896	1.7407	1.3310	1.45	1.2549	1.7454
10 *	1.8052	1.3888	1.7323	1.5839	1.6121	1.3069	1.5041	1.4245
11 *	1.4084	1.7429	1.5844	1.6932	1.3410	1.5135	1.2951	1.9183
12 *	1.7618	1.3326	1.6123	1.3413	1.6856	1.3302	1.7556	
13 *	1.4664	1.4947	1.3065	1.5135	1.3300	1.6985	2.0842	
14 *	1.5115	1.2547	1.5042	1.2953	1.7549	2.0833		
15 *	1.4314	1.7460	1.4247	1.9185				

MC (3-D) AT: 118% POWER 200 EFPD THIS IS THE 11-TH LEVEL OF 18
WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A
8 *	2.0288	1.5277	2.0469	1.5533	1.9219	1.6490	1.6872	1.5828
9 *	1.5325	1.8997	1.5361	1.9377	1.4784	1.6836	1.3926	1.9421
10 *	2.0088	1.5353	1.9306	1.7606	1.7868	1.4538	1.6784	1.5759
11 *	1.5552	1.9402	1.7612	1.8847	1.4845	1.6734	1.4255	2.1352
12 *	1.9632	1.4802	1.7870	1.4848	1.8809	1.4647	1.9358	
13 *	1.6518	1.6827	1.4533	1.6734	1.4644	1.8820	2.3127	
14 *	1.6875	1.3924	1.6785	1.4258	1.9350	2.3118		
15 *	1.5831	1.9427	1.5762	2.1354				

TABLE 3 (cont.)
CORE OPERATING LIMITS REPORT

M-SUB-C VALUES (F-SUB-B-Q RPS MARGIN)

MC (3-D) AT: 118% POWER 200 EFPD THIS IS THE 10-TH LEVEL OF 18
WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A

8 *	2.2879	1.7109	2.2966	1.7291	2.1505	1.8532	1.9213	1.7864
9 *	1.7163	2.1373	1.7146	2.1731	1.6422	1.8975	1.5763	2.2026
10 *	2.2538	1.7137	2.1673	1.9750	2.0006	1.6187	1.8981	1.7757
11 *	1.7312	2.1758	1.9756	2.1193	1.6595	1.8691	1.6125	2.4280
12 *	2.1967	1.6442	2.0008	1.6598	2.1188	1.6368	2.1661	
13 *	1.8563	1.8965	1.6182	1.8691	1.6366	2.1046	2.5907	
14 *	1.9215	1.5761	1.8983	1.6128	2.1653	2.5896		
15 *	1.7868	2.2033	1.7759	2.4282				

MC (3-D) AT: 118% POWER 200 EFPD THIS IS THE 9-TH LEVEL OF 18
WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A

8 *	2.3559	1.8031	2.3797	1.8405	2.2734	2.0150	2.1014	1.9928
9 *	1.8088	2.2143	1.8151	2.2711	1.7631	2.0348	1.7302	2.4479
10 *	2.3354	1.8142	2.2556	2.0862	2.1322	1.7403	2.0438	1.9846
11 *	1.8428	2.2740	2.0869	2.2438	1.7865	2.0125	1.7547	2.6476
12 *	2.3222	1.7652	2.1325	1.7869	2.2943	1.7726	2.3652	
13 *	2.0183	2.0337	1.7398	2.0125	1.7723	2.3012	2.8543	
14 *	2.1018	1.7299	2.0440	1.7550	2.3643	2.8531		
15 *	1.9932	2.4487	1.9849	2.6479				

TABLE 3 (cont.)
CORE OPERATING LIMITS REPORT

M-SUB-C VALUES (F-SUB-Q RPS MARGIN)

MC (3-D) AT: 118% POWER 200 EFPD THIS IS THE 8-TH LEVEL OF 18
WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A

8 *	2.2160	1.6878	2.2395	1.7227	2.1344	1.8908	1.9764	1.8767
9 *	1.6931	2.0839	1.7001	2.1357	1.6545	1.9282	1.6357	2.2948
10 *	2.1978	1.6992	2.1219	1.9612	2.0054	1.6627	1.9601	1.8716
11 *	1.7249	2.1384	1.9619	2.1111	1.6914	1.9317	1.6884	2.5066
12 *	2.1802	1.6565	2.0056	1.6918	2.1670	1.7052	2.2840	
13 *	1.8939	1.9272	1.6622	1.9317	1.7049	2.2123	2.7542	
14 *	1.9767	1.6355	1.9603	1.6886	2.2831	2.7530		
15 *	1.8771	2.2955	1.8718	2.5069				

MC (3-D) AT: 118% POWER 200 EFPD THIS IS THE 7-TH LEVEL OF 18
WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A

8 *	2.0686	1.5639	2.0578	1.5741	1.9434	1.7103	1.7730	1.6831
9 *	1.5689	1.9246	1.5610	1.9552	1.5081	1.7405	1.4628	2.0615
10 *	2.0195	1.5602	1.9465	1.7986	1.8390	1.5004	1.7514	1.6691
11 *	1.5761	1.9577	1.7992	1.9456	1.5561	1.7496	1.5125	2.2530
12 *	1.9851	1.5099	1.8392	1.5564	2.0244	1.5490	2.0462	
13 *	1.7131	1.7396	1.4999	1.7496	1.5487	1.9996	2.4880	
14 *	1.7732	1.4626	1.7515	1.5128	2.0454	2.4869		
15 *	1.6835	2.0622	1.6693	2.2532				

TABLE 3 (cont.)
CORE OPERATING LIMITS REPORT

M-SUB-C VALUES (F-SUB-Q RPS MARGIN)

MC (3-D) AT: 118% POWER 200 EFPD THIS IS THE 6-TH LEVEL OF 18
WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A
8 *	1.8569	1.3994	1.8569	1.4162	1.7664	1.5384	1.5989	1.5172
9 *	1.4038	1.7342	1.4008	1.7682	1.3528	1.5627	1.3121	1.8659
10 *	1.8223	1.4001	1.7571	1.6187	1.6573	1.3415	1.5662	1.4971
11 *	1.4180	1.7704	1.6193	1.7511	1.3933	1.5723	1.3526	2.0235
12 *	1.8043	1.3544	1.6575	1.3936	1.8113	1.3819	1.8477	
13 *	1.5410	1.5619	1.3411	1.5723	1.3816	1.7978	2.2600	
14 *	1.5992	1.3119	1.5663	1.3529	1.8470	2.2591		
15 *	1.5175	1.8665	1.4974	2.0237				

MC (3-D) AT: 118% POWER 200 EFPD THIS IS THE 5-TH LEVEL OF 18
WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A
8 *	1.6736	1.2573	1.6857	1.2810	1.6106	1.3987	1.4587	1.3843
9 *	1.2613	1.5693	1.2638	1.6073	1.2236	1.4201	1.1919	1.7098
10 *	1.6543	1.2631	1.5941	1.4642	1.5042	1.2106	1.4206	1.3618
11 *	1.2827	1.6093	1.4647	1.5849	1.2516	1.4129	1.2140	1.8461
12 *	1.6452	1.2250	1.5043	1.2518	1.6308	1.2400	1.6647	
13 *	1.4010	1.4194	1.2102	1.4129	1.2398	1.6210	2.0449	
14 *	1.4589	1.1917	1.4207	1.2142	1.6641	2.0440		
15 *	1.3846	1.7103	1.3620	1.8463				

TABLE 3 (cont.)
CORE OPERATING LIMITS REPORT

M-SUB-C VALUES (F-SUB-Q RPS MARGIN)

MC (3-D) AT: 118% POWER 200 EFPD THIS IS THE 4-TH LEVEL OF 18
WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A
8 *	1.5374	1.1494	1.5511	1.1726	1.4794	1.2902	1.3537	1.2890
9 *	1.1530	1.4400	1.1561	1.4748	1.1267	1.3118	1.1048	1.5967
10 *	1.5222	1.1555	1.4620	1.3367	1.3795	1.1172	1.3142	1.2671
11 *	1.1741	1.4767	1.3372	1.4515	1.1460	1.2967	1.1166	1.7217
12 *	1.5111	1.1280	1.3796	1.1462	1.4690	1.1311	1.5341	
13 *	1.2924	1.3111	1.1169	1.2967	1.1309	1.4885	1.6899	
14 *	1.3539	1.1047	1.3143	1.1168	1.5335	1.8891		
15 *	1.2893	1.5972	1.2673	1.7219				

MC (3-D) AT: 118% POWER 200 EFPD THIS IS THE 3-TH LEVEL OF 18
WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A
8 *	1.4577	1.0904	1.4705	1.1115	1.3939	1.2204	1.2947	1.2495
9 *	1.0938	1.3596	1.0960	1.3893	1.0685	1.2447	1.0635	1.5432
10 *	1.4431	1.0954	1.3774	1.2527	1.3004	1.0702	1.2567	1.2309
11 *	1.1129	1.3910	1.2531	1.3661	1.0906	1.2317	1.0708	1.6678
12 *	1.4238	1.0698	1.3006	1.0908	1.4043	1.0779	1.4681	
13 *	1.2225	1.2440	1.0698	1.2317	1.0777	1.4212	1.8103	
14 *	1.2948	1.0634	1.2568	1.0709	1.4675	1.8096		
15 *	1.2498	1.5437	1.2310	1.6680				

TABLE 3 (cont.)
CORE OPERATING LIMITS REPORT

M-SUB-C VALUES (F-SUB-Q RPS MARGIN)

MC (3-D) AT: 118% POWER 200 EFPD THIS IS THE 2-TH LEVEL OF 18
WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A
8 *	1.4773	1.1230	1.4891	1.1420	1.3966	1.2335	1.3300	1.3337
9 *	1.1265	1.3701	1.1273	1.3944	1.0974	1.2597	1.1140	1.6168
10 *	1.4614	1.1267	1.3855	1.2566	1.3060	1.1093	1.2944	1.3218
11 *	1.1434	1.3961	1.2570	1.3712	1.1236	1.2577	1.1272	1.7629
12 *	1.4266	1.0988	1.3061	1.1238	1.4107	1.1250	1.5253	
13 *	1.2356	1.2590	1.1090	1.2577	1.1248	1.4712	1.8788	
14 *	1.3302	1.1139	1.2945	1.1273	1.5247	1.8780		
15 *	1.3340	1.6173	1.3220	1.7631				

MC (3-D) AT: 118% POWER 200 EFPD THIS IS THE 1-TH LEVEL OF 18
WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A
8 *	1.8744	1.4032	1.8888	1.4231	1.7526	1.5978	1.7396	1.9091
9 *	1.4076	1.7352	1.4086	1.7626	1.3780	1.6005	1.4290	2.1891
10 *	1.8536	1.4079	1.7687	1.6225	1.6391	1.3686	1.6948	1.9121
11 *	1.4249	1.7648	1.6230	1.7360	1.4041	1.6231	1.5479	2.4531
12 *	1.7902	1.3796	1.6393	1.4044	1.7670	1.5165	2.0605	
13 *	1.6005	1.5997	1.3682	1.6230	1.5163	1.9657	2.5535	
14 *	1.7399	1.4288	1.6950	1.5481	2.0597	2.5524		
15 *	1.9095	2.1898	1.9124	2.4533				

TABLE 3 (cont.)
CORE OPERATING LIMITS REPORT

M-SUB-C VALUES (F-SUP-Q RPS MARGIN)

MC (3-D) AT: 118% POWER 355 EFPD THIS IS THE 18-TH LEVEL OF 18

WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A
8 *	1.9325	1.6458	1.8332	1.4838	1.6036	1.5053	1.6471	1.8284
9 *	1.6489	1.7908	1.5087	1.6564	1.4323	1.5188	1.4835	1.9630
10 *	1.8014	1.5076	1.6959	1.5958	1.6167	1.4981	1.6574	1.8539
11 *	1.4849	1.6577	1.5963	1.7968	1.6040	1.7356	1.6666	2.2162
12 *	1.6232	1.4331	1.6166	1.6042	1.7430	1.6866	2.0429	
13 *	1.5060	1.5184	1.4980	1.7359	1.6863	1.9628	2.2735	
14 *	1.6473	1.4837	1.6575	1.6668	2.0422	2.2728		
15 *	1.8289	1.9638	1.8540	2.2162				

MC (3-D) AT: 118% POWER 355 EFPD THIS IS THE 17-TH LEVEL OF 18

WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A
8 *	1.5031	1.2636	1.4292	1.1395	1.2520	1.1417	1.2342	1.2764
9 *	1.2660	1.3853	1.1578	1.2843	1.0811	1.1586	1.0998	1.4307
10 *	1.4044	1.1570	1.3157	1.2180	1.2513	1.1318	1.2320	1.2781
11 *	1.1404	1.2853	1.2183	1.3930	1.2110	1.3105	1.1911	1.5851
12 *	1.2672	1.0817	1.2513	1.2111	1.3511	1.2188	1.4980	
13 *	1.1423	1.1582	1.1317	1.3107	1.2185	1.4497	1.6618	
14 *	1.2344	1.0999	1.2321	1.1912	1.4974	1.6612		
15 *	1.2767	1.4312	1.2782	1.5851				

TABLE 3 (cont.)
CORE OPERATING LIMITS REPORT

M-SUB-C VALUES (F-SUB-Q RPS MARGIN)

MC (3-D) AT: 118% POWER 355 EFPD THIS IS THE 16-TH LEVEL OF 18

WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A
8 *	1.4811	1.2059	1.4144	1.0908	1.2434	1.1167	1.1870	1.1841
9 *	1.2082	1.3710	1.1079	1.2775	1.0297	1.1264	1.0273	1.3565
10 *	1.3899	1.1071	1.3071	1.2026	1.2322	1.0649	1.1748	1.1774
11 *	1.0916	1.2785	1.2029	1.3820	1.1493	1.2628	1.1086	1.4980
12 *	1.2585	1.0302	1.2321	1.1495	1.3268	1.1428	1.4325	
13 *	1.1173	1.1261	1.0648	1.2630	1.1426	1.3872	1.6027	
14 *	1.1871	1.0273	1.1749	1.1087	1.4320	1.6022		
15 *	1.1843	1.3571	1.1774	1.4980				

MC (3-D) AT: 118% POWER 355 EFPD THIS IS THE 15-TH LEVEL OF 18

WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A
8 *	1.5634	1.2485	1.5011	1.1351	1.3223	1.1756	1.2327	1.2066
9 *	1.2509	1.4585	1.1535	1.3628	1.0666	1.1796	1.0477	1.3997
10 *	1.4750	1.1527	1.3930	1.2787	1.3029	1.0920	1.2136	1.1952
11 *	1.1360	1.3638	1.2790	1.4717	1.1851	1.3120	1.1308	1.5478
12 *	1.3384	1.0671	1.3028	1.1853	1.3965	1.1700	1.4885	
13 *	1.1761	1.1793	1.0919	1.3122	1.1698	1.4385	1.6812	
14 *	1.2329	1.0478	1.2137	1.1309	1.4880	1.6806		
15 *	1.2069	1.4003	1.1953	1.5478				

TABLE 3 (cont.)
CORE OPERATING LIMITS REPORT

M-SUB-C VALUES (F-SUB-Q RPS MARGIN)

MC (3-D) AT: 118% POWER 355 EFPD THIS IS THE 14-TH LEVEL OF 18
WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A
8 *	1.6583	1.2703	1.5939	1.2269	1.4480	1.2769	1.3249	1.2818
9 *	1.2727	1.5007	1.2438	1.4970	1.1483	1.2770	1.1134	1.4992
10 *	1.5063	1.2430	1.5224	1.3922	1.3973	1.1669	1.3005	1.2669
11 *	1.2278	1.4982	1.3926	1.5117	1.2336	1.3575	1.2028	1.6622
12 *	1.4656	1.1489	1.3973	1.2338	1.5166	1.2465	1.5783	
13 *	1.2775	1.2766	1.1568	1.3577	1.2463	1.5451	1.8120	
14 *	1.3250	1.1135	1.3006	1.2029	1.5778	1.8114		
15 *	1.2820	1.4998	1.2670	1.6622				

MC (3-D) AT: 118% POWER 355 EFPD THIS IS THE 13-TH LEVEL OF 18
WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A
8 *	1.7134	1.3315	1.7135	1.3414	1.6166	1.4179	1.4578	1.3972
9 *	1.3340	1.6057	1.3284	1.6364	1.2652	1.4147	1.2148	1.6443
10 *	1.6838	1.3275	1.6464	1.5005	1.4970	1.2591	1.4279	1.3786
11 *	1.3425	1.6377	1.5009	1.6115	1.2841	1.4273	1.2848	1.8237
12 *	1.6363	1.2658	1.4969	1.2843	1.5869	1.2955	1.6552	
13 *	1.4186	1.4142	1.2589	1.4276	1.2953	1.6135	1.9057	
14 *	1.4580	1.2149	1.4280	1.2849	1.6546	1.9051		
15 *	1.3975	1.6450	1.3787	1.8237				

TABLE 3 (cont.)
CORE OPERATING LIMITS REPORT

M-SUB-C VALUES (F-SUB-Q RPS MARGIN)

MC (3-D) AT: 118% POWER 355 EFPD THIS IS THE 12-TH LEVEL OF 18
WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A
8 *	1.8851	1.4558	1.8991	1.4774	1.7986	1.6041	1.6380	1.5556
9 *	1.4586	1.7776	1.4609	1.8200	1.3907	1.5855	1.3527	1.8396
10 *	1.8662	1.4599	1.8302	1.6640	1.6534	1.3737	1.5802	1.5243
11 *	1.4785	1.8215	1.6645	1.7790	1.3953	1.5560	1.3910	2.0108
12 *	1.8205	1.3914	1.6533	1.3955	1.7291	1.3933	1.7984	
13 *	1.6049	1.5850	1.3735	1.5563	1.3931	1.7437	2.0752	
14 *	1.6382	1.3528	1.5803	1.3911	1.7978	2.0745		
15 *	1.5560	1.8404	1.5244	2.0108				

MC (3-D) AT: 118% POWER 355 EFPD THIS IS THE 11-TH LEVEL OF 18
WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A
8 *	2.1438	1.6415	2.1621	1.6659	2.0372	1.8107	1.8702	1.7655
9 *	1.6447	2.0243	1.6502	2.0704	1.5642	1.7864	1.5275	2.0890
10 *	2.1246	1.6491	2.0882	1.8950	1.8764	1.5392	1.7804	1.7108
11 *	1.6671	2.0720	1.8955	2.0216	1.5645	1.7479	1.5475	2.2593
12 *	2.0620	1.5650	1.8763	1.5647	1.9503	1.5489	2.0117	
13 *	1.8116	1.7858	1.5390	1.7482	1.5487	1.9458	2.3261	
14 *	1.8704	1.5276	1.7805	1.5477	2.0110	2.3253		
15 *	1.7659	2.0899	1.7109	2.2593				

TABLE 3 (cont.)
CORE OPERATING LIMITS REPORT

M-SUB-C VALUES (F-SUB-Q RPS MARGIN)

MC (3-D) AT: 118% POWER 355 EFPD THIS IS THE 10-TH LEVEL OF 18
WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A
8 *	2.4721	1.8808	2.4826	1.8995	2.3444	2.0755	2.1273	2.0274
9 *	1.8844	2.3314	1.8839	2.3809	1.7807	2.0436	1.7324	2.3866
10 *	2.4396	1.8826	2.3992	2.1791	2.1526	1.7453	2.0176	1.9571
11 *	1.9009	2.3828	2.1797	2.3309	1.7903	2.0011	1.7505	2.5593
12 *	2.3730	1.7816	2.1525	1.7905	2.2524	1.7668	2.2976	
13 *	2.0766	2.0430	1.7451	2.0015	1.7665	2.2268	2.6667	
14 *	2.1275	1.7326	2.0177	1.7507	2.2968	2.6658		
15 *	2.0278	2.3876	1.9572	2.5593				

MC (3-D) AT: 118% POWER 355 EFPD THIS IS THE 9-TH LEVEL OF 18
WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A
8 *	2.4851	1.9488	2.5051	1.9859	2.4085	2.1791	2.2726	2.1949
9 *	1.9525	2.3522	1.9566	2.4195	1.8886	2.1610	1.8826	2.5870
10 *	2.4616	1.9552	2.4190	2.2260	2.2411	1.8827	2.1802	2.1339
11 *	1.9874	2.4214	2.2266	2.3984	1.9168	2.1472	1.9120	2.7945
12 *	2.4378	1.8896	2.2410	1.9171	2.3991	1.9267	2.4997	
13 *	2.1801	2.1603	1.8825	2.1475	1.9264	2.4207	2.9065	
14 *	2.2729	1.8828	2.1803	1.9122	2.4988	2.9055		
15 *	2.1954	2.5880	2.1340	2.7946				

TABLE 3 (cont.)

CORE OPERATING LIMITS REPORT

M-SUB-C VALUES (F-SUB-Q RPS MARGIN)

MC (3-D) AT: 118% POWER 355 EFPD THIS IS THE 8-TH LEVEL OF 18
WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A
8 *	2.3391	1.8255	2.3583	1.8611	2.2674	2.0537	2.1416	2.0547
9 *	1.8290	2.2149	1.8335	2.2789	1.7721	2.0430	1.7748	2.4170
10 *	2.3174	1.8322	2.2781	2.0942	2.1082	1.7826	2.0710	2.0141
11 *	1.8625	2.2807	2.0948	2.2572	1.8062	2.0420	1.8313	2.6335
12 *	2.2950	1.7730	2.1081	1.8064	2.2639	1.8443	2.3956	
13 *	2.0547	2.0423	1.7824	2.0423	1.8440	2.3122	2.7771	
14 *	2.1418	1.7750	2.0712	1.8315	2.3947	2.7762		
15 *	2.0553	2.4179	2.0142	2.6335				

MC (3-D) AT: 118% POWER 355 EFPD THIS IS THE 7-TH LEVEL OF 18
WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A
8 *	2.1504	1.6607	2.1241	1.6693	2.0298	1.8385	1.9119	1.8340
9 *	1.6638	2.0063	1.6520	2.0453	1.5872	1.8264	1.5815	2.1620
10 *	2.0873	1.6508	2.0512	1.8895	1.9000	1.5900	1.8393	1.7940
11 *	1.6706	2.0469	1.8900	2.0462	1.6344	1.8313	1.6264	2.3434
12 *	2.0546	1.5880	1.8999	1.6347	2.0800	1.6561	2.1207	
13 *	1.8394	1.8258	1.5898	1.8316	1.6558	2.0624	2.4535	
14 *	1.9121	1.5817	1.8394	1.6266	2.1199	2.4527		
15 *	1.8345	2.1628	1.7941	2.3435				

TABLE 3 (cont.)

CORE OPERATING LIMITS REPORT

M-SUB-C VALUES (F-SUB-Q RPS MARGIN)

MC (3-D) AT: 118% POWER 355 EFPD THIS IS THE 6-TH LEVEL OF 18
WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A
8 *	1.8899	1.4633	1.8902	1.4791	1.8110	1.6285	1.6929	1.6256
9 *	1.4660	1.7804	1.4619	1.8224	1.4021	1.6159	1.3942	1.9216
10 *	1.8575	1.4609	1.8257	1.6780	1.6854	1.3984	1.6247	1.5861
11 *	1.4802	1.8238	1.6785	1.8138	1.4310	1.6103	1.4290	2.0827
12 *	1.8331	1.4028	1.6853	1.4312	1.8155	1.4463	1.8720	
13 *	1.6293	1.6154	1.3982	1.6106	1.4460	1.8131	2.1776	
14 *	1.6931	1.3943	1.6248	1.4292	1.8713	2.1769		
15 *	1.6260	1.9224	1.5862	2.0827				

MC (3-D) AT: 118% POWER 355 EFPD THIS IS THE 5-TH LEVEL OF 18
WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A
8 *	1.6729	1.2901	1.6815	1.3115	1.6166	1.4562	1.5144	1.4524
9 *	1.2925	1.5809	1.2935	1.6224	1.2469	1.4442	1.2418	1.7240
10 *	1.6524	1.2926	1.6232	1.4875	1.4988	1.2434	1.4500	1.4168
11 *	1.3125	1.6237	1.4879	1.6073	1.2682	1.4320	1.2690	1.8711
12 *	1.6363	1.2476	1.4987	1.2683	1.6097	1.2781	1.6708	
13 *	1.4570	1.4437	1.2433	1.4323	1.2778	1.6132	1.9541	
14 *	1.5145	1.2419	1.4501	1.2692	1.6702	1.9535		
15 *	1.4527	1.7247	1.4169	1.8711				

TABLE 3 (cont.)
CORE OPERATING LIMITS REPORT

M-SUB-C VALUES (F-SUB-Q RPS MARGIN)

MC (3-D) AT: 118% POWER 355 EFPD THIS IS THE 4-TH LEVEL OF 18
WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A
8 *	1.5109	1.1592	1.5211	1.1795	1.4589	1.3124	1.3742	1.3199
9 *	1.1614	1.4265	1.1632	1.4638	1.1203	1.3040	1.1246	1.5712
10 *	1.4947	1.1624	1.4650	1.3372	1.3494	1.1245	1.3137	1.2884
11 *	1.1805	1.4649	1.3376	1.4467	1.1407	1.2939	1.1465	1.7093
12 *	1.4766	1.1209	1.3494	1.1408	1.4474	1.1505	1.5158	
13 *	1.3131	1.3036	1.1244	1.2941	1.1503	1.4608	1.7815	
14 *	1.3743	1.1247	1.3137	1.1466	1.5153	1.7809		
15 *	1.3202	1.5718	1.2885	1.7093				

MC (3-D) AT: 118% POWER 355 EFPD THIS IS THE 3-TH LEVEL OF 18
WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A
8 *	1.4038	1.0771	1.4132	1.0953	1.3468	1.2094	1.2797	1.2421
9 *	1.0791	1.3202	1.0803	1.3521	1.0393	1.2036	1.0531	1.4759
10 *	1.3887	1.0795	1.3540	1.2306	1.2452	1.0465	1.2235	1.2154
11 *	1.0961	1.3531	1.2309	1.3340	1.0573	1.1997	1.0719	1.6127
12 *	1.3632	1.0398	1.2451	1.0575	1.3322	1.0715	1.4167	
13 *	1.2100	1.2032	1.0464	1.1999	1.0713	1.3635	1.6712	
14 *	1.2799	1.0532	1.2236	1.0720	1.4162	1.6706		
15 *	1.2424	1.4765	1.2155	1.6127				

TABLE 3 (cont.)

CORE OPERATING LIMITS REPORT

M-SUB-C VALUES (F-SUB-Q RPS MARGIN)

MC (3-D) AT: 118% POWER 355 EFPD THIS IS THE 2-TH LEVEL OF 18

WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A
8 *	1.3907	1.0849	1.3989	1.1009	1.3185	1.1894	1.2739	1.2789
9 *	1.0870	1.3002	1.0865	1.3266	1.0442	1.1867	1.0725	1.4988
10 *	1.3747	1.0857	1.3294	1.2057	1.2211	1.0576	1.2233	1.2584
11 *	1.1017	1.3276	1.2060	1.3064	1.0631	1.1900	1.0932	1.6523
12 *	1.3345	1.0447	1.2211	1.0633	1.3046	1.0862	1.4299	
13 *	1.1900	1.1864	1.0575	1.1902	1.0860	1.3719	1.6916	
14 *	1.2741	1.0726	1.2234	1.0933	1.4294	1.6910		
15 *	1.2792	1.4994	1.2584	1.6523				

MC (3-D) AT: 118% POWER 355 EFPD THIS IS THE 1-TH LEVEL OF 18

WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A
8 *	1.7381	1.3605	1.7468	1.3749	1.6247	1.4970	1.6247	1.7558
9 *	1.3631	1.6201	1.3594	1.6450	1.3243	1.4873	1.3765	1.9792
10 *	1.7165	1.3585	1.6532	1.5084	1.5067	1.3386	1.5665	1.7475
11 *	1.3760	1.6463	1.5088	1.6140	1.3486	1.5084	1.4554	2.2290
12 *	1.6445	1.3250	1.5067	1.3488	1.6110	1.4346	1.8786	
13 *	1.4977	1.4868	1.3385	1.5086	1.4343	1.7855	2.2444	
14 *	1.6249	1.3766	1.5665	1.4555	1.8779	2.2437		
15 *	1.7562	1.9800	1.7476	2.2290				

Appendix A

Appendix A contains full power F_Q -design(X,Y,Z), $F_{\Delta H}$ -design(X,Y), $M_Q(X,Y,Z)$, $M_C(X,Y,Z)$ and, $M_{\Delta H}(X,Y)$ monitoring factors generated at EOC conditions with the ARO perked position defined at 222 swd. The EOC monitoring factors described previously were generated with an ARO parked position of 220 swd. In addition, F_Q -design(X,Y,Z) and $F_{\Delta H}$ -design(X,Y) monitoring factors at 400 EFPD are provided.

TABLE A1
CORE OPERATING LIMITS REPORT

F-SUB-Q DESIGN

FQD (3-D) AT: 100% POWER 355 EFPD THIS IS THE 18-TH LEVEL OF 18
WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A
8 *	.6660	.8449	.6660	.8447	.7048	.7588	.6620	.6513
9 *	.8433	.7766	.8531	.7807	.8640	.7354	.7859	.6150
10 *	.6778	.8537	.7051	.8234	.8195	.8193	.6809	.6513
11 *	.8440	.7801	.8232	.7796	.8434	.7139	.7435	.5582
12 *	.6963	.8635	.8196	.8433	.6948	.7617	.5877	
13 *	.7585	.7356	.8194	.7137	.7618	.6745	.5648	
14 *	.6619	.7859	.6809	.7434	.5879	.5650		
15 *	.6512	.6148	.6512	.5582				

FQD (3-D) AT: 100% POWER 355 EFPD THIS IS THE 17-TH LEVEL OF 18
WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A
8 *	.9852	1.1939	.9837	1.1896	1.0482	1.1301	1.0309	1.0034
9 *	1.1916	1.0708	1.2022	1.0675	1.2414	1.1226	1.1753	.8986
10 *	1.0011	1.2030	1.0416	1.1482	1.1278	1.1988	1.0637	1.0161
11 *	1.1828	1.0666	1.1479	1.0673	1.2136	1.1007	1.1512	.8331
12 *	1.0356	1.2408	1.1278	1.2134	1.0448	1.1644	.9367	
13 *	1.1295	1.1230	1.1989	1.1005	1.1646	.9777	.8408	
14 *	1.0307	1.1752	1.0636	1.1511	.9370	.8411		
15 *	1.0032	.8983	1.0160	.8331				

TABLE A1 (cont.)
CORE OPERATING LIMITS REPORT

F-SUB-Q DESIGN

FQD (3-D) AT: 100% POWER 355 EFPD THIS IS THE 16-TH LEVEL OF 18
WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A
8 *	1.0765	1.3311	1.0725	1.3207	1.1398	1.2441	1.1552	1.1437
9 *	1.3286	1.1537	1.3354	1.1392	1.3862	1.2457	1.3437	1.0033
10 *	1.0914	1.3363	1.1276	1.2339	1.2180	1.3617	1.1990	1.1656
11 *	1.3197	1.1383	1.2336	1.1451	1.3606	1.2326	1.3187	.9351
12 *	1.1261	1.3855	1.2181	1.3604	1.1460	1.3251	1.0589	
13 *	1.2435	1.2461	1.3618	1.2323	1.3253	1.0864	.9327	
14 *	1.1551	1.3436	1.1990	1.3185	1.0593	.9331		
15 *	1.1435	1.0029	1.1655	.9351				

FQD (3-D) AT: 100% POWER 355 EFPD THIS IS THE 15-TH LEVEL OF 18
WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A
8 *	1.0950	1.3718	1.0889	1.3560	1.1520	1.2665	1.1876	1.1892
9 *	1.3692	1.1672	1.3721	1.1452	1.4281	1.2732	1.4009	1.0332
10 *	1.1081	1.3731	1.1382	1.2441	1.2346	1.4163	1.2371	1.2156
11 *	1.3550	1.1443	1.2437	1.1562	1.4059	1.2680	1.3745	.9634
12 *	1.1382	1.4273	1.2347	1.4057	1.1644	1.3772	1.0905	
13 *	1.2658	1.2736	1.4165	1.2678	1.3774	1.1172	.9522	
14 *	1.1875	1.4008	1.2370	1.3743	1.0909	.9525		
15 *	1.1890	1.0328	1.2155	.9634				

TABLE A1 (cont.)

CORE OPERATING LIMITS REPORT

F-SUB-Q DESIGN

FQD (3-D) AT: 100% POWER 350 EFPD THIS IS THE 14-TH LEVEL OF 18

WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A
8 *	1.0956	1.3825	1.0879	1.3627	1.1464	1.2648	1.1526	1.2010
9 *	1.3798	1.1642	1.3800	1.1379	1.4370	1.2742	1.4175	1.0379
10 *	1.1071	1.3809	1.1332	1.2380	1.2323	1.4318	1.2445	1.2290
11 *	1.3617	1.1370	1.2377	1.1518	1.4170	1.2743	1.3902	.9665
12 *	1.1326	1.4363	1.2323	1.4168	1.1618	1.3915	1.0938	
13 *	1.2642	1.2746	1.4320	1.2741	1.3917	1.1229	.9497	
14 *	1.1925	1.4173	1.2444	1.3900	1.0942	.9500		
15 *	1.2007	1.0374	1.2390	.9665				

FQD (3-D) AT: 100% POWER 355 EFPD THIS IS THE 13-TH LEVEL OF 18

WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A
8 *	1.0942	1.3876	1.0855	1.3649	1.1403	1.2607	1.1923	1.2041
9 *	1.3849	1.1605	1.3832	1.1316	1.4398	1.2714	1.4234	1.0366
10 *	1.1047	1.3841	1.1285	1.2325	1.2283	1.4375	1.2451	1.2325
11 *	1.3639	1.1307	1.2322	1.1470	1.4208	1.2748	1.3954	.9635
12 *	1.1266	1.4391	1.2284	1.4205	1.1568	1.3965	1.0909	
13 *	1.2600	1.2718	1.4377	1.2746	1.3968	1.1230	.9430	
14 *	1.1922	1.4233	1.2450	1.3953	1.0913	.9433		
15 *	1.2038	1.0362	1.2324	.9635				

TABLE A1 (cont.)
CORE OPERATING LIMITS REPORT

F-SUB-Q DESIGN

FQD (3-D) AT: 100% POWER 355 EFPD THIS IS THE 12-TH LEVEL OF 18

WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A
8 *	1.0948	1.3944	1.0854	1.3695	1.1373	1.2593	1.1931	1.2071
9 *	1.3917	1.1597	1.3885	1.1291	1.4445	1.2707	1.4293	1.0359
10 *	1.1045	1.3895	1.1269	1.2308	1.2271	1.4435	1.2464	1.2354
11 *	1.3684	1.1282	1.2305	1.1452	1.4256	1.2764	1.4004	.9607
12 *	1.1237	1.4438	1.2272	1.4254	1.1542	1.4019	1.0888	
13 *	1.2586	1.2711	1.4436	1.2761	1.4021	1.1236	.9374	
14 *	1.1929	1.4291	1.2463	1.4003	1.0891	.9377		
15 *	1.2008	1.0354	1.2353	.9607				

FQD (3-D) AT: 100% POWER 355 EFPD THIS IS THE 11-TH LEVEL OF 18

WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A
8 *	1.0976	1.4040	1.0877	1.3773	1.1375	1.2611	1.1963	1.2122
9 *	1.4014	1.1618	1.3971	1.1298	1.4526	1.2731	1.4377	1.0371
10 *	1.1069	1.3981	1.1282	1.2326	1.2289	1.4521	1.2501	1.2403
11 *	1.3762	1.1289	1.2323	1.1462	1.4335	1.2805	1.4080	.9597
12 *	1.1238	1.4518	1.2290	1.4333	1.1545	1.4099	1.0888	
13 *	1.2605	1.2735	1.4523	1.2803	1.4101	1.1261	.9338	
14 *	1.1962	1.4376	1.2501	1.4078	1.0892	.9341		
15 *	1.2119	1.0366	1.2402	.9596				

TABLE A1 (cont.)
CORE OPERATING LIMITS REPORT

F-SUB-Q DESIGN

FQD (3-D) AT: 100% POWER 355 EFPD THIS IS THE 10-TH LEVEL OF 18
WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A
8 *	1.1023	1.4163	1.0919	1.3879	1.1399	1.2656	1.2018	1.2198
9 *	1.4136	1.1660	1.4084	1.1378	1.4636	1.2780	1.4490	1.0403
10 *	1.1111	1.4093	1.1317	1.2369	1.7331	1.4636	1.2562	1.2476
11 *	1.3869	1.1319	1.2366	1.1495	1.4443	1.2870	1.4183	.9605
12 *	1.1262	1.4629	1.2331	1.4440	1.1571	1.4206	1.0909	
13 *	1.2650	1.2784	1.4638	1.2868	1.4209	1.1305	.9320	
14 *	1.2017	1.4489	1.2562	1.4181	1.0913	.9323		
15 *	1.2195	1.0398	1.2475	.9605				

FQD (3-D) AT: 100% POWER 355 EFPD THIS IS THE 9-TH LEVEL OF 18
WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A
8 *	1.1082	1.4306	1.0974	1.4008	1.1441	1.2722	1.2093	1.2296
9 *	1.4279	1.1716	1.4218	1.1375	1.4773	1.2851	1.4629	1.0452
10 *	1.1168	1.4228	1.1366	1.2431	1.2391	1.4777	1.2644	1.2572
11 *	1.3997	1.1367	1.2428	1.1545	1.4576	1.2955	1.4311	.9629
12 *	1.1303	1.4765	1.2392	1.4573	1.1616	1.4340	1.0948	
13 *	1.2716	1.2854	1.4779	1.2953	1.4342	1.1367	.9317	
14 *	1.2091	1.4628	1.2644	1.4309	1.0952	.9320		
15 *	1.2293	1.0448	1.2571	.9629				

TABLE A1 (cont.)

CORE OPERATING LIMITS REPORT

F-SUB-Q DESIGN

FQD (3-D) AT: 100% POWER 355 EFPD THIS IS THE 8-TH LEVEL OF 18

WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A
8 *	1.1153	1.4469	1.1042	1.4158	1.1498	1.2807	1.2186	1.2416
9 *	1.4441	1.1786	1.4373	1.1438	1.4933	1.2941	1.4795	1.0518
10 *	1.1237	1.4382	1.1429	1.2510	1.2468	1.4945	1.2747	1.2691
11 *	1.4147	1.1428	1.2507	1.1610	1.4733	1.3061	1.4465	.9670
12 *	1.1360	1.4925	1.2469	1.4731	1.1678	1.4498	1.1004	
13 *	1.2801	1.2945	1.4946	1.3059	1.4501	1.1445	.9328	
14 *	1.2185	1.4794	1.2746	1.4464	1.1008	.9331		
15 *	1.2413	1.0514	1.2691	.9670				

FQD (3-D) AT: 100% POWER 355 EFPD THIS IS THE 7-TH LEVEL OF 18

WHERE: LEVEL 19 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A
8 *	1.1238	1.4653	1.1125	1.4332	1.1575	1.2916	1.2302	1.2562
9 *	1.4625	1.1872	1.4550	1.1517	1.5122	1.3055	1.4991	1.0605
10 *	1.1321	1.4560	1.1508	1.2610	1.2566	1.5141	1.2874	1.2837
11 *	1.4321	1.1508	1.2606	1.1694	1.4920	1.3190	1.4630	.9730
12 *	1.1436	1.5114	1.2567	1.4917	1.1764	1.4687	1.1083	
13 *	1.2910	1.3059	1.5143	1.3188	1.4690	1.1543	.9357	
14 *	1.2301	1.4990	1.2873	1.4648	1.1087	.9360		
15 *	1.2559	1.0601	1.2836	.9730				

TABLE A1 (cont.)
CORE OPERATING LIMITS REPORT

F-SUB-Q DESIGN

FQD (3-D) AT: 100% POWER 355 EFPD THIS IS THE 6-TH LEVEL OF 18
WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A
8 *	1.1341	1.4863	1.1227	1.4535	1.1679	1.3058	1.2447	1.2738
9 *	1.4835	1.1981	1.4755	1.1623	1.5344	1.3201	1.5223	1.0718
10 *	1.1425	1.4765	1.1611	1.2739	1.2693	1.5374	1.3032	1.3013
11 *	1.4524	1.1613	1.2736	1.1805	1.5141	1.3351	1.4870	.9813
12 *	1.1538	1.5337	1.2694	1.5139	1.1880	1.4913	1.1189	
13 *	1.3052	1.3205	1.5375	1.3348	1.4915	1.1668	.9411	
14 *	1.2446	1.5222	1.3031	1.4869	1.1193	.9414		
15 *	1.2735	1.0713	1.3012	.9813				

FQD (3-D) AT: 100% POWER 355 EFPD THIS IS THE 5-TH LEVEL OF 18
WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A
8 *	1.1465	1.5097	1.1351	1.4768	1.1820	1.3244	1.2624	1.2938
9 *	1.5068	1.2120	1.4987	1.1763	1.5602	1.3387	1.5486	1.0855
10 *	1.1552	1.4997	1.1745	1.2911	1.2858	1.5637	1.3224	1.3212
11 *	1.4757	1.1754	1.2907	1.1951	1.5397	1.3546	1.5123	.9919
12 *	1.1678	1.5594	1.2858	1.5394	1.2036	1.5172	1.1328	
13 *	1.3237	1.3391	1.5638	1.3544	1.5175	1.1819	.9494	
14 *	1.2623	1.5484	1.3223	1.5121	1.1332	.9497		
15 *	1.2935	1.0850	1.3211	.9919				

TABLE A1 (cont.)

CORE OPERATING LIMITS REPORT

F-SUB-Q DESIGN

FQD (3-D) AT: 100% POWER 355 EFPD THIS IS THE 4-TH LEVEL OF 18

WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A
8 *	1.1592	1.5307	1.1484	1.4989	1.1995	1.3464	1.2810	1.3107
9 *	1.5278	1.2280	1.5205	1.1935	1.5848	1.3599	1.5717	1.0984
10 *	1.1686	1.5215	1.1907	1.3124973	1.3419	1.3370
11 *	1.4978	1.1925	1.3120	1.2128	1.840		.9948	1.0013
12 *	1.1851	1.5840	1.3051	1.5636	1.2225	1.5413	1.1470	
13 *	1.3457	1.3603	1.5875	1.3748	1.5416	1.1969	.9589	
14 *	1.2808	1.5715	1.3418	1.5346	1.1474	.9592		
15 *	1.3104	1.0980	1.3370	1.0013				

FQD (3-D) AT: 100% POWER 355 EFPD THIS IS THE 3-TH LEVEL OF 18

WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A
8 *	1.1624	1.5290	1.1526	1.5003	1.2121	1.3606	1.2867	1.3028
9 *	1.5261	1.2364	1.5210	1.2052	1.5870	1.3710	1.5670	1.0957
10 *	1.1730	1.5220	1.2015	1.3283	1.3171	1.5846	1.3461	1.3256
11 *	1.4992	1.2043	1.3279	1.2251	1.5648	1.3817	1.5301	.9949
12 *	1.1976	1.5862	1.3172	1.5646	1.2348	1.5402	1.1471	
13 *	1.3599	1.3715	1.5848	1.3815	1.5404	1.1970	.9580	
14 *	1.2866	1.5669	1.3460	1.5299	1.1476	.9583		
15 *	1.3025	1.0952	1.3256	.9949				

TABLE A1 (cont.)

CORE OPERATING LIMITS REPORT

F-SUB-Q DESIGN

FQD (3-D) AT: 100% POWER 355 EFPD THIS IS THE 2-TH LEVEL OF 18

WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A
8 *	1.1147	1.4358	1.1069	1.4133	1.1772	1.3127	1.2267	1.2030
9 *	1.4330	1.1927	1.4316	1.1680	1.4948	1.3186	1.4594	1.0271
10 *	1.1265	1.4325	1.1638	1.2874	1.2752	1.4826	1.2781	1.2177
11 *	1.4133	1.1671	1.2870	1.1886	1.4715	1.3188	1.4220	.9255
12 *	1.1631	1.4940	1.2752	1.4712	1.1960	1.4385	1.0805	
13 *	1.3121	1.3190	1.4828	1.3186	1.4388	1.1297	.9022	
14 *	1.2266	1.4592	1.2780	1.4219	1.0808	.9025		
15 *	1.2027	1.0267	1.2176	.9255				

FQD (3-D) AT: 100% POWER 355 EFPD THIS IS THE 1-TH LEVEL OF 18

WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A
8 *	.8635	1.1043	.8586	1.0921	.9250	1.0071	.9280	.8465
9 *	1.1022	.9265	1.1040	.9121	1.1368	1.0157	1.0929	.7515
10 *	.873	1.1047	.9061	.9946	.9994	1.1292	.9614	.8476
11 *	1.0913	.9114	.9943	.9308	1.1184	1.0035	1.0285	.7638
12 *	.9139	1.1362	.9994	1.1182	.9363	1.0476	.7938	
13 *	1.0066	1.0160	1.1293	1.0033	1.0478	.8370	.6583	
14 *	.9279	1.0929	.9614	1.0284	.7941	.6585		
15 *	.8463	.7512	.8475	.6638				

TABLE A1 (cont.)

CORE OPERATING LIMITS REPORT

F-SUB-Q DESIGN

FQD (3-D) AT: 100% POWER 400 EFPD THIS IS THE 18-TH LEVEL OF 18

WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A
8 *	.8571	1.0134	.8588	1.0207	.9350	.9907	.8983	.7981
9 *	1.0116	.9107	1.0236	.9178	1.0568	.9911	1.0047	.7426
10 *	.8739	1.0242	.9050	.9720	.9762	1.0343	.9166	.7977
11 *	1.0197	.9170	.9717	.9153	1.0296	.9549	.9470	.6745
12 *	.9239	1.0563	.9762	1.0294	.9266	.9625	.7907	
13 *	.9901	.9914	1.0344	.9547	.9627	.8165	.6945	
14 *	.8982	1.0046	.9165	.9469	.7910	.6947		
15 *	.7979	.7423	.7976	.6745				

FQD (3-D) AT: 100% POWER 400 EFPD THIS IS THE 17-TH LEVEL OF 18

WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A
8 *	1.1186	1.3420	1.1188	1.3446	1.2098	1.3146	1.2049	1.1476
9 *	1.3395	1.1976	1.3524	1.1980	1.4140	1.3081	1.3619	1.0253
10 *	1.1386	1.3533	1.1822	1.2884	1.2760	1.3819	1.2391	1.1610
11 *	1.3434	1.1971	1.2880	1.1987	1.3815	1.2781	1.3304	.9499
12 *	1.1955	1.4133	1.2760	1.3813	1.2089	1.3415	1.0899	
13 *	1.3139	1.3085	1.3820	1.2778	1.3418	1.1158	.9619	
14 *	1.2048	1.3618	1.2390	1.3302	1.0903	.9623		
15 *	1.1473	1.0250	1.609	.9498				

TABLE A1 (cont.)

CORE OPERATING LIMITS REPORT

F-SUB-Q DESIGN

PQD (3-D) AT: 100% POWER 400 EFPD THIS IS THE 16-TH LEVEL OF 18

WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A
8 *	1.1634	1.4380	1.1607	1.4320	1.2434	1.3653	1.2695	1.2508
9 *	1.4353	1.2442	1.4439	1.2321	1.5100	1.3664	1.4753	1.0966
10 *	1.1811	1.4448	1.2195	1.3348	1.3239	1.4910	1.3162	1.2738
11 *	1.4307	1.2312	1.3344	1.2401	1.4824	1.3505	1.4462	1.0209
12 *	1.2286	1.5093	1.3240	1.4821	1.2528	1.4511	1.1611	
13 *	1.3646	1.3668	1.4912	1.3502	1.4513	1.1866	1.0188	
14 *	1.2693	1.4751	1.3161	1.4460	1.1615	1.0192		
15 *	1.2505	1.0962	1.2738	1.0209				

PQD (3-D) AT: 100% POWER 400 EFPD THIS IS THE 15-TH LEVEL OF 18

WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A
8 *	1.1486	1.4408	1.1433	1.4275	1.2149	1.3403	1.2582	1.2591
9 *	1.4381	1.2243	1.4421	1.2035	1.5075	1.3474	1.4851	1.0934
10 *	1.1635	1.4430	1.1947	1.3081	1.3016	1.4991	1.3107	1.2866
11 *	1.4262	1.2026	1.3078	1.2165	1.4848	1.3420	1.4566	1.0185
12 *	1.2005	1.5068	1.3017	1.4846	1.2304	1.4583	1.1541	
13 *	1.3395	1.3479	1.4593	1.3417	1.4586	1.1815	1.0062	
14 *	1.2581	1.4850	1.3107	1.4565	1.1545	1.0065		
15 *	1.2588	1.0930	1.2865	1.0184				

TABLE A1 (cont.)

CORE OPERATING LIMITS REPORT

F-SUB-Q DESIGN

FQD (3-D) AT: 100% POWER 400 EFPD THIS IS THE 14-TH LEVEL OF 18

WHERE: LEVEL 18 = TOP OF CORE

LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A
8 *	1.1244	1.4211	1.1173	1.4028	1.1802	1.3051	1.2319	1.2410
9 *	1.4184	1.1950	1.4191	1.1693	1.4819	1.3153	1.4656	1.0719
10 *	1.1370	1.4200	1.1633	1.2731	1.2693	1.4791	1.2862	1.2700
11 *	1.4015	1.1684	1.2728	1.1848	1.4621	1.3161	1.4376	.9973
12 *	1.1662	1.4811	1.2693	1.4619	1.1983	1.4382	1.1291	
13 *	1.3044	1.3157	1.4792	1.3159	1.4384	1.1591	.9792	
14 *	1.2317	1.4655	1.2861	1.4374	1.1295	.9795		
15 *	1.2408	1.0715	1.2699	.9973				

FQD (3-D) AT: 100% POWER 400 EFPD THIS IS THE 13-TH LEVEL OF 18

WHERE: LEVEL 18 = TOP OF CORE

LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A
8 *	1.1041	1.4026	1.0958	1.3808	1.1528	1.2767	1.2086	1.2214
9 *	1.3999	1.1712	1.3984	1.1427	1.4584	1.2882	1.4447	1.0510
10 *	1.1151	1.3993	1.1386	1.2456	1.2427	1.4581	1.2631	1.2503
11 *	1.3796	1.1418	1.2452	1.1593	1.4400	1.2927	1.4167	.9760
12 *	1.1391	1.4577	1.2428	1.4398	1.1716	1.4173	1.1054	
13 *	1.2760	1.2886	1.4582	1.2924	1.4175	1.1381	.9544	
14 *	1.2084	1.4445	1.2631	1.4165	1.1058	.9547		
15 *	1.2211	1.0506	1.2503	.9760				

TABLE A1 (cont.)

CORE OPERATING LIMITS REPORT

F-SUB-Q DESIGN

FQD (3-D) AT: 100% POWER 400 EFPD THIS IS THE 12-TH LEVEL OF 18

WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A
8 *	1.0900	1.3907	1.0809	1.3665	1.1337	1.2571	1.1920	1.2069
9 *	1.3881	1.1547	1.3850	1.1246	1.4428	1.2693	1.4299	1.0352
10 *	1.1000	1.3859	1.1216	1.2268	1.2242	1.4434	1.2465	1.2354
11 *	1.3653	1.1237	1.2265	1.1415	1.4249	1.2760	1.4016	.9593
12 *	1.1203	1.4421	1.2243	1.4247	1.1525	1.4027	1.0876	
13 *	1.2565	1.2697	1.4436	1.2758	1.4029	1.1226	.9353	
14 *	1.1919	1.4298	1.2464	1.4015	1.0880	.9356		
15 *	1.2066	1.0348	1.2354	.9593				

FQD (3-D) AT: 100% POWER 400 EFPD THIS IS THE 11-TH LEVEL OF 18

WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A
8 *	1.0810	1.3852	1.0714	1.3592	1.1212	1.2448	1.1817	1.1982
9 *	1.3826	1.1443	1.3784	1.1129	1.4347	1.2573	1.4220	1.0247
10 *	1.0903	1.3792	1.1107	1.2151	1.2123	1.4358	1.2361	1.2263
11 *	1.3580	1.1120	1.2147	1.1299	1.4168	1.2657	1.3933	.9474
12 *	1.1079	1.4340	1.2124	1.4166	1.1399	1.3948	1.0753	
13 *	1.2441	1.2577	1.4359	1.2655	1.3951	1.1125	.9212	
14 *	1.1816	1.4219	1.2360	1.3931	1.0757	.9215		
15 *	1.1980	1.0243	1.2262	.9474				

TABLE A1 (cont.)
CORE OPERATING LIMITS REPORT

F-SUB-Q DESIGN

FQD (3-D) AT: 100% POWER 400 EPPD THIS IS THE 10-TH LEVEL OF 18

WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A
8 *	1.0759	1.3847	1.0658	1.3572	1.1134	1.2376	1.1761	1.1945
9 *	1.3821	1.1380	1.3769	1.1058	1.4324	1.2505	1.4199	1.0183
10 *	1.0846	1.3778	1.1040	1.2082	1.2053	1.4338	1.2306	1.2221
11 *	1.3560	1.1049	1.2079	1.1228	1.4143	1.2604	1.3904	.9335
12 *	1.1001	1.4317	1.2054	1.4141	1.1320	1.3925	1.0675	
13 *	1.2370	1.2509	1.4340	1.2602	1.3927	1.1066	.9110	
14 *	1.1759	1.4198	1.2305	1.3903	1.0679	.9113		
15 *	1.1942	1.0179	1.2220	.9395				

FQD (3-D) AT: 100% POWER 400 EPPD THIS IS THE 9-TH LEVEL OF 18

WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A
8 *	1.0735	1.3880	1.0631	1.3593	1.1088	1.2343	1.1741	1.1946
9 *	1.3854	1.1349	1.3794	1.1019	1.4345	1.2476	1.4223	1.0151
10 *	1.0819	1.3802	1.1004	1.2049	1.2018	1.4363	1.2288	1.2218
11 *	1.3580	1.1010	1.2046	1.1189	1.4162	1.2588	1.3919	.9346
12 *	1.0957	1.4338	1.2019	1.4160	1.1275	1.3945	1.0630	
13 *	1.2337	1.2480	1.4365	1.2386	1.3947	1.1039	.9037	
14 *	1.1739	1.4221	1.3288	1.3918	1.0634	.9040		
15 *	1.1943	1.0147	1.2217	.9346				

TABLE A1 (cont.)
CORE OPERATING LIMITS REPORT

F-SUB-Q DESIGN

FQD (3-D) AT: 100% POWER 400 EFPD THIS IS THE 8-TH LEVEL OF 18
WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A
8 *	1.0733	1.3944	1.0627	1.3646	1.1070	1.2342	1.1751	1.1980
9 *	1.3918	1.1341	1.3850	1.1006	1.4403	1.2478	1.4285	1.0147
10 *	1.0814	1.3859	1.0992	1.2045	1.2012	1.4426	1.2303	1.2250
11 *	1.3634	1.0997	1.2041	1.1178	1.4218	1.2604	1.3972	.9323
12 *	1.0938	1.4396	1.2013	1.4216	1.1260	1.4002	1.0613	
13 *	1.2335	1.2482	1.4428	1.2602	1.4005	1.1040	.8989	
14 *	1.1749	1.4284	1.2303	1.3971	1.0617	.8992		
15 *	1.1977	1.0143	1.2249	.9323				

FQD (3-D) AT: 100% POWER 400 EFPD THIS IS THE 7-TH LEVEL OF 18
WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A
8 *	1.0752	1.4037	1.0644	1.3732	1.1078	1.2372	1.1791	1.2048
9 *	1.4011	1.1358	1.3938	1.1018	1.4497	1.2512	1.4386	1.0170
10 *	1.0832	1.3947	1.1003	1.2069	1.2035	1.4528	1.2351	1.2316
11 *	1.3719	1.1009	1.2066	1.1193	1.4312	1.2652	1.4064	.9326
12 *	1.0947	1.4490	1.2036	1.4309	1.1275	1.4098	1.0626	
13 *	1.2366	1.2516	1.4530	1.2649	1.4101	1.1069	.8966	
14 *	1.1790	1.4385	1.2350	1.4063	1.0630	.8969		
15 *	1.2045	1.0166	1.2315	.9326				

TABLE A1 (cont.)

CORE OPERATING LIMITS REPORT

F-SUB-Q DESIGN

FQD (3-D) AT: 100% POWER 400 EFPD THIS IS THE 6-TH LEVEL OF 18

WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A
8 *	1.0796	1.4164	1.0687	1.3854	1.1120	1.2442	1.1867	1.2152
9 *	1.4138	1.1404	1.4060	1.1062	1.4633	1.2585	1.4531	1.0225
10 *	1.0876	1.4069	1.1044	1.2130	1.2094	1.4672	1.2436	1.2419
11 *	1.3841	1.1053	1.2127	1.1240	1.4447	1.2737	1.4199	.9359
12 *	1.0988	1.4626	1.2094	1.4445	1.1327	1.4238	1.0673	
13 *	1.2435	1.2589	1.4674	1.2735	1.4240	1.1130	.8973	
14 *	1.1866	1.4529	1.2435	1.4198	1.0676	.8975		
15 *	1.2149	1.0221	1.2418	.9358				

FQD (3-D) AT: 100% POWER 400 EFPD THIS IS THE 5-TH LEVEL OF 18

WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A
8 *	1.0866	1.4321	1.0759	1.4011	1.1205	1.2561	1.1981	1.2286
9 *	1.4294	1.1486	1.4217	1.1147	1.4810	1.2705	1.4712	1.0310
10 *	1.0949	1.4226	1.1123	1.2238	1.2196	1.4854	1.2561	1.2552
11 *	1.3999	1.1138	1.2235	1.1329	1.4623	1.2864	1.4373	.9418
12 *	1.1072	1.4803	1.2196	1.4621	1.1425	1.4418	1.0757	
13 *	1.2554	1.2708	1.4856	1.2861	1.4420	1.1225	.9014	
14 *	1.1980	1.4711	1.2560	1.4371	1.0761	.9017		
15 *	1.2284	1.0306	1.2551	.9418				

TABLE A1 (cont.)
CORE OPERATING LIMITS REPORT

F-SUB-Q DESIGN

FQD (3-D) AT: 100% POWER 400 EFPD THIS IS THE 4-TH LEVEL OF 18
WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A
8 *	1.0949	1.4466	1.0846	1.4168	1.1331	1.2723	1.2112	1.2401
9 *	1.4439	1.1596	1.4369	1.1269	1.4987	1.2857	1.4876	1.0396
10 *	1.1037	1.4379	1.1237	1.2395	1.2333	1.5022	1.2698	1.2656
11 *	1.4155	1.1260	1.2392	1.1456	1.4796	1.3009	1.4531	.9474
12 *	1.1196	1.4980	1.2334	1.4794	1.1562	1.4590	1.0853	
13 *	1.2716	1.2861	1.5023	1.3006	1.4593	1.1325	.9073	
14 *	1.2110	1.4874	1.2698	1.4529	1.0857	.9076		
15 *	1.2398	1.0392	1.2655	.9474				

FQD (3-D) AT: 100% POWER 400 EFPD THIS IS THE 3-TH LEVEL OF 18
WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A
8 *	1.0950	1.4410	1.0859	1.4142	1.1420	1.2822	1.2134	1.2294
9 *	1.4383	1.1645	1.4334	1.1350	1.4966	1.2928	1.4791	1.0344
10 *	1.1050	1.4343	1.1310	1.2511	1.2415	1.4955	1.2704	1.2515
11 *	1.4129	1.1341	1.2508	1.1542	1.4764	1.3037	1.4446	.9392
12 *	1.1285	1.4959	1.2415	1.4762	1.1648	1.4538	1.0827	
13 *	1.2815	1.2932	1.4957	1.3035	1.4541	1.1298	.9044	
14 *	1.2133	1.4790	1.2704	1.4444	1.0831	.9047		
15 *	1.2291	1.0340	1.2515	.9392				

TABLE A1 (cont.)
CORE OPERATING LIMITS REPORT

F-SUB-Q DESIGN

FQD (3-D) AT: 100% POWER 400 EFPD THIS IS THE 2-TH LEVEL OF 18

WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A
8 *	1.0486	1.3508	1.0413	1.3299	1.1075	1.2352	1.1552	1.1335
9 *	1.3483	1.1217	1.3468	1.0984	1.4072	1.2414	1.3752	.9684
10 *	1.0596	1.3477	1.0939	1.2107	1.2001	1.3968	1.2045	1.1480
11 *	1.3287	1.0975	1.2104	1.1181	1.3860	1.2424	1.3403	.8725
12 *	1.0944	1.4065	1.2002	1.3858	1.1264	1.3556	1.0184	
13 *	1.2345	1.2418	1.3970	1.2422	1.3558	1.0647	.8507	
14 *	1.1550	1.3751	1.2044	1.3402	1.0188	.8510		
15 *	1.1333	.9680	1.1480	.8725				

FQD (3-D) AT: 100% POWER 400 EFPD THIS IS THE 1-TH LEVEL OF 18

WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A
8 *	.8117	1.0373	.8071	1.0260	.8697	.9472	.8735	.7974
9 *	1.0353	.8708	1.0371	.8572	1.0683	.9555	1.0283	.7082
10 *	.8214	1.0377	.8514	.9350	.9399	1.0617	.9055	.7989
11 *	1.0251	.8566	.9348	.8752	1.0516	.9447	.9686	.6257
12 *	.8594	1.0678	.9400	1.0514	.8814	.9862	.7479	
13 *	.9467	.9558	1.0619	.9445	.9864	.7885	.6205	
14 *	.8734	1.0282	.9055	.9685	.7482	.6207		
15 *	.7972	.7079	.7989	.6257				

TABLE A2
CORE OPERATING LIMITS REPORT

M-SUB-Q VALUES (F-SUB-Q OP MARGIN)

MQ (3-D) AT: 100% POWER 355 EFPD THIS IS THE 18-TH LEVEL OF 18
WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A
8 *	1.7376	1.3793	1.7649	1.3478	1.5899	1.4618	1.6607	1.6790
9 *	1.3819	1.5077	1.3681	1.4636	1.3143	1.5254	1.4142	1.7862
10 *	1.7343	1.3671	1.6414	1.4198	1.4310	1.4238	1.6733	1.7196
11 *	1.3488	1.4647	1.4202	1.4950	1.3727	1.6245	1.5681	2.0577
12 *	1.6093	1.3149	1.4309	1.3729	1.6413	1.5016	1.9540	
13 *	1.4625	1.5249	1.4237	1.6248	1.5013	1.6876	2.0132	
14 *	1.6609	1.4143	1.6734	1.5683	1.9533	2.0125		
15 *	1.6794	1.7869	1.7198	2.0577				

MQ (3-D) AT: 100% POWER 355 EFPD THIS IS THE 17-TH LEVEL OF 18
WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A
8 *	1.4461	1.2029	1.4749	1.1808	1.3192	1.2100	1.3145	1.3412
9 *	1.2052	1.3490	1.2000	1.3212	1.1266	1.2321	1.1634	1.5046
10 *	1.4494	1.1992	1.3737	1.2584	1.2823	1.1998	1.3202	1.3563
11 *	1.1817	1.3223	1.2588	1.3461	1.1741	1.2979	1.2469	1.6978
12 *	1.3353	1.1272	1.2822	1.1743	1.3413	1.2083	1.5104	
13 *	1.2106	1.2317	1.1997	1.2982	1.2081	1.4333	1.6664	
14 *	1.3147	1.1635	1.3203	1.2471	1.5099	1.6659		
15 *	1.3415	1.5052	1.3564	1.6978				

TABLE A2 (cont.)
CORE OPERATING LIMITS REPORT

M-SUB-Q VALUES (F-SUB-Q OF MARGIN)

MQ (3-D) AT: 100% POWER 355 EFPD THIS IS THE 16-TH LEVEL OF 18
WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A
8 *	1.4226	1.1643	1.4557	1.1495	1.3054	1.1809	1.2589	1.2614
9 *	1.1665	1.3469	1.1692	1.3335	1.0892	1.1929	1.0963	1.4456
10 *	1.4305	1.1684	1.3682	1.2626	1.2763	1.1398	1.2565	1.2725
11 *	1.1504	1.3346	1.2629	1.3486	1.1290	1.2444	1.1731	1.6224
12 *	1.3313	1.0897	1.2763	1.1291	1.3123	1.1439	1.4351	
13 *	1.1815	1.1925	1.1397	1.2446	1.1437	1.3854	1.6152	
14 *	1.2591	1.0963	1.2566	1.1732	1.4346	1.6146		
15 *	1.2617	1.4461	1.2726	1.6225				

MQ (3-D) AT: 100% POWER 355 EFPD THIS IS THE 15-TH LEVEL OF 18
WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A
8 *	1.3945	1.1700	1.4267	1.1593	1.2871	1.1542	1.2168	1.2035
9 *	1.1722	1.3272	1.1678	1.3227	1.0936	1.1608	1.0851	1.3934
10 *	1.4020	1.1670	1.3463	1.2360	1.2536	1.1233	1.2084	1.2573
11 *	1.1602	1.3238	1.2363	1.3307	1.1306	1.2035	1.1630	1.5608
12 *	1.3028	1.0942	1.2535	1.1307	1.2862	1.1384	1.3874	
13 *	1.1548	1.1604	1.1232	1.2037	1.1382	1.3417	1.5775	
14 *	1.2169	1.0852	1.2085	1.1631	1.3869	1.5770		
15 *	1.2038	1.3940	1.2574	1.5608				

TABLE A2 (cont.)

CORE OPERATING LIMITS REPORT

M-SUB-Q VALUES (F-SUB-Q OF MARGIN)

MQ (3-D) AT: 100% POWER 355 EFPD THIS IS THE 14-TH LEVEL OF 18

WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A
8 *	1.4289	1.2124	1.4188	1.1922	1.3190	1.1775	1.2328	1.2104
9 *	1.2147	1.3365	1.1860	1.3433	1.1263	1.1802	1.1142	1.4094
10 *	1.3942	1.1851	1.3552	1.2400	1.2458	1.1331	1.2107	1.2891
11 *	1.1931	1.3443	1.2404	1.3493	1.1724	1.2118	1.1677	1.5551
12 *	1.3351	1.1269	1.2457	1.1726	1.3209	1.1779	1.4132	
13 *	1.1780	1.1799	1.1330	1.2120	1.1777	1.3657	1.6189	
14 *	1.2329	1.1143	1.2107	1.1679	1.4127	1.6184		
15 *	1.2107	1.4099	1.2891	1.5551				

MQ (3-D) AT: 100% POWER 355 EFPD THIS IS THE 13-TH LEVEL OF 18

WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A
8 *	1.4679	1.2318	1.4649	1.2390	1.3779	1.2317	1.2859	1.2570
9 *	1.2342	1.3739	1.2273	1.3989	1.1699	1.2265	1.1594	1.4686
10 *	1.4395	1.2265	1.4072	1.2849	1.2853	1.1682	1.2490	1.3359
11 *	1.2399	1.4000	1.2853	1.3843	1.1946	1.2328	1.1976	1.6061
12 *	1.3946	1.1705	1.2852	1.1948	1.3735	1.2112	1.4365	
13 *	1.2323	1.2261	1.1681	1.2330	1.2110	1.4025	1.6635	
14 *	1.2860	1.1595	1.2491	1.1978	1.4360	1.6630		
15 *	1.2572	1.4692	1.3360	1.6061				

TABLE A2 (cont.)
CORE OPERATING LIMITS REPORT

M-SUB-Q VALUES (F-SUB-Q OP MARGIN)

MQ (3-D) AT: 100% POWER 355 EFPD THIS IS THE 12-TH LEVEL OF 18

WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A

*								
8 *	1.5268	1.2760	1.5359	1.2909	1.4468	1.2928	1.3487	1.3159
*								
9 *	1.2785	1.4386	1.2790	1.4712	1.2163	1.2829	1.2051	1.5391
*								
10 *	1.5093	1.2781	1.4790	1.3489	1.3467	1.2143	1.3003	1.3860
*								
11 *	1.2918	1.4724	1.3493	1.4480	1.2351	1.2815	1.2406	1.6766
*								
12 *	1.4644	1.2170	1.3466	1.2353	1.4242	1.2451	1.4927	
*								
13 *	1.2934	1.2825	1.2142	1.2817	1.2448	1.4490	1.7323	
*								
14 *	1.3489	1.2052	1.3003	1.2408	1.4922	1.7317		
*								
15 *	1.3162	1.5398	1.3860	1.6766				

MQ (3-D) AT: 100% POWER 355 EFPD THIS IS THE 11-TH LEVEL OF 18

WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A

*								
8 *	1.6159	1.3322	1.6233	1.3436	1.5318	1.3678	1.4243	1.3856
*								
9 *	1.3347	1.5253	1.3325	1.5533	1.2661	1.3539	1.2545	1.6243
*								
10 *	1.5951	1.3316	1.5636	1.4263	1.4224	1.2597	1.3647	1.4408
*								
11 *	1.3446	1.5545	1.4267	1.5347	1.2879	1.3511	1.2885	1.7604
*								
12 *	1.5505	1.2667	1.4223	1.2881	1.5049	1.2936	1.5745	
*								
13 *	1.3684	1.3535	1.2595	1.3514	1.2934	1.5234	1.8322	
*								
14 *	1.4244	1.2546	1.3647	1.2886	1.5739	1.8316		
*								
15 *	1.3859	1.6249	1.4409	1.7604				

TABLE A2 (cont.)
CORE OPERATING LIMITS REPORT

M-SUB-Q VALUES (F-SUB-Q OP MARGIN)

MQ (3-D) AT: 100% POWER 355 EFPD THIS IS THE 10-TH LEVEL OF 18

WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A

*								
8 *	1.7759	1.3945	1.7833	1.4118	1.6913	1.5084	1.5674	1.5196
*								
9 *	1.3971	1.6735	1.3973	1.7120	1.3302	1.4905	1.3169	1.7862
*								
10 *	1.7523	1.3963	1.7214	1.5679	1.5614	1.3183	1.4955	1.5108
*								
11 *	1.4129	1.7133	1.5683	1.6851	1.3482	1.4764	1.3434	1.9305
*								
12 *	1.7119	1.3309	1.5613	1.3484	1.6559	1.3540	1.7219	
*								
13 *	1.5091	1.4900	1.3182	1.4767	1.3538	1.6690	2.0120	
*								
14 *	1.5676	1.3170	1.4956	1.3435	1.7213	2.0114		
*								
15 *	1.5199	1.7869	1.5109	1.9305				

MQ (3-D) AT: 100% POWER 355 EFPD THIS IS THE 9-TH LEVEL OF 18

WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A

*								
8 *	1.8285	1.4243	1.8428	1.4505	1.7642	1.5909	1.6728	1.6292
*								
9 *	1.4270	1.7288	1.4307	1.7759	1.3772	1.5792	1.3804	1.9170
*								
10 *	1.8108	1.4297	1.7782	1.6301	1.6381	1.3787	1.6025	1.5909
*								
11 *	1.4516	1.7773	1.6305	1.7575	1.4021	1.5754	1.4130	2.0816
*								
12 *	1.7857	1.3780	1.6380	1.4023	1.7564	1.4168	1.8472	
*								
13 *	1.5917	1.5787	1.3785	1.5757	1.4165	1.7836	2.1619	
*								
14 *	1.6730	1.3805	1.6025	1.4132	1.8465	2.1612		
*								
15 *	1.6296	1.9178	1.5910	2.0817				

TABLE A2 (cont.)
CORE OPERATING LIMITS REPORT

M-SUB-Q VALUES (F-SUB-Q OP MARGIN)

MQ (3-D) AT: 100% POWER 355 EFPD THIS IS THE 3-TH LEVEL OF 18
WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A
8 *	1.7503	1.3577	1.7651	1.3844	1.6947	1.5264	1.5975	1.5581
9 *	1.3602	1.6958	1.3645	1.7036	1.3145	1.5138	1.3233	1.8326
10 *	1.7345	1.3636	1.7045	1.5610	1.5690	1.3182	1.5406	1.5306
11 *	1.3854	1.7050	1.5615	1.6839	1.3384	1.5087	1.3654	2.0012
12 *	1.7154	1.3152	1.5689	1.3386	1.6831	1.3661	1.7846	
13 *	1.5272	1.5133	1.3181	1.5090	1.3659	1.7199	2.0933	
14 *	1.5977	1.3235	1.5407	1.3656	1.7840	2.0926		
15 *	1.5584	1.8333	1.5307	2.0012				

MQ (3-D) AT: 100% POWER 355 EFPD THIS IS THE 7-TH LEVEL OF 18
WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A
8 *	1.6820	1.2978	1.6865	1.3114	1.6093	1.4434	1.5085	1.4683
9 *	1.3003	1.5879	1.2970	1.6233	1.2423	1.4322	1.2443	1.7327
10 *	1.6573	1.2961	1.6288	1.4909	1.4956	1.2442	1.4516	1.4407
11 *	1.3124	1.6246	1.4913	1.6135	1.2761	1.4372	1.2857	1.8918
12 *	1.6289	1.2429	1.4955	1.2763	1.6150	1.3005	1.6920	
13 *	1.4441	1.4317	1.2441	1.4375	1.3003	1.6378	1.9837	
14 *	1.5087	1.2444	1.4516	1.2858	1.6914	1.9830		
15 *	1.4686	1.7334	1.4408	1.8919				

TABLE A2 (cont.)
CORE OPERATING LIMITS REPORT

M-SUB-Q VALUES (F-SUB-Q OP MARGIN)

MQ (3-D) AT: 100% POWER 355 EFPD THIS IS THE 6-TH LEVEL OF 18
WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A
8 *	1.5931	1.2182	1.5947	1.2348	1.5248	1.3653	1.4263	1.3854
9 *	1.2206	1.4998	1.2202	1.5364	1.1693	1.3536	1.1714	1.6405
10 *	1.5670	1.2193	1.5408	1.4078	1.4122	1.1692	1.3693	1.3580
11 *	1.2357	1.5376	1.4082	1.5222	1.1956	1.3513	1.2069	1.7914
12 *	1.5434	1.1699	1.4121	1.1958	1.5243	1.2156	1.5944	
13 *	1.3660	1.3531	1.1691	1.3515	1.2154	1.5386	1.8761	
14 *	1.4265	1.1715	1.3693	1.2070	1.5939	1.8755		
15 *	1.3857	1.6412	1.3580	1.7914				

MQ (3-D) AT: 100% POWER 355 EFPD THIS IS THE 5-TH LEVEL OF 18
WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A
8 *	1.4986	1.1435	1.5030	1.1590	1.4349	1.2818	1.3408	1.3033
9 *	1.1457	1.4124	1.1457	1.4461	1.0965	1.2714	1.0993	1.5484
10 *	1.4769	1.1449	1.4507	1.3223	1.3275	1.0966	1.2875	1.2793
11 *	1.1599	1.4472	1.3227	1.4310	1.1206	1.2693	1.1339	1.6965
12 *	1.4524	1.0970	1.3274	1.1207	1.4305	1.1400	1.5060	
13 *	1.2825	1.2710	1.0965	1.2695	1.1398	1.4502	1.7791	
14 *	1.3410	1.0994	1.2876	1.1340	1.5055	1.7785		
15 *	1.3036	1.5490	1.2794	1.6965				

TABLE A2 (cont.)

CORE OPERATING LIMITS REPORT

M-SUB-Q VALUES (F-SUB-Q OP MARGIN)

MQ (3-D) AT: 100% POWER 355 EFPD THIS IS THE 4-TH LEVEL OF 18

WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A

*								
8 *	1.3978	1.0642	1.4055	1.0807	1.3402	1.1953	1.2539	1.2218
*								
9 *	1.0663	1.3175	1.0677	1.3495	1.0219	1.1860	1.0271	1.4539
*								
10 *	1.3811	1.0669	1.3536	1.2299	1.2370	1.0222	1.2021	1.1997
*								
11 *	1.0815	1.3505	1.2303	1.3317	1.0407	1.1806	1.0565	1.5950
*								
12 *	1.3565	1.0224	1.2369	1.0408	1.3264	1.0577	1.4055	
*								
13 *	1.1959	1.1857	1.0220	1.1808	1.0575	1.3517	1.6672	
*								
14 *	1.2541	1.0272	1.2022	1.0566	1.4050	1.6666		
*								
15 *	1.2221	1.4545	1.1997	1.5950				

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MQ (3-D)  AT: 100% POWER      355 EFPD      THIS IS THE  3-TH LEVEL OF 18

                                     WHERE: LEVEL 18 =   TOP OF CORE
                                           LEVEL  1 = BOTTOM OF CORE

      H      G      F      E      D      C      B      A
*****
*
8 *  1.3335  1.0184  1.3414  1.0338  1.2718  1.1343  1.1977  1.1799
*
9 *  1.0204  1.2526  1.0212  1.2807  .9772  1.1275  .9875  1.3999
*
10 * 1.3181  1.0206  1.2850  1.1635  1.1737  .9800  1.1484  1.1608
*
11 * 1.0346  1.2818  1.1638  1.2616  .9938  1.1234  1.0139  1.5409
*
12 * 1.2873  .9777  1.1736  .9940  1.2548  1.0106  1.3452
*
13 * 1.1348  1.1272  .9799  1.1236  1.0104  1.2919  1.5988
*
14 * 1.1978  .9875  1.1485  1.0140  1.3447  1.5983
*
15 * 1.1801  1.4004  1.1609  1.5409

```

TABLE A2 (cont.)
CORE OPERATING LIMITS REPORT

M-SUB-Q VALUES (F-SUB-Q OF MARGIN)

MQ (3-D) AT: 100% POWER 355 EFPD THIS IS THE 2-TH LEVEL OF 18
WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A
8 *	1.3484	1.0502	1.3554	1.0637	1.2716	1.1411	1.2195	1.2404
9 *	1.0522	1.2595	1.0513	1.2828	1.0055	1.1375	1.0280	1.4508
10 *	1.3319	1.0506	1.2876	1.1645	1.1760	1.0148	1.1731	1.2265
11 *	1.0645	1.2838	1.1649	1.2613	1.0232	1.1403	1.0566	1.6093
12 *	1.2871	1.0060	1.1759	1.0233	1.2554	1.0467	1.3848	
13 *	1.1417	1.1371	1.0147	1.1405	1.0465	1.3262	1.6482	
14 *	1.2197	1.0281	1.1732	1.0567	1.3843	1.6476		
15 *	1.2407	1.4514	1.2266	1.6093				

MQ (3-D) AT: 100% POWER 355 EFPD THIS IS THE 1-TH LEVEL OF 18
WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A
8 *	1.7087	1.3383	1.7159	1.3499	1.5896	1.4596	1.5819	1.7296
9 *	1.3408	1.5917	1.3365	1.6133	1.2964	1.4489	1.3458	1.9470
10 *	1.6862	1.3356	1.6238	1.4791	1.4728	1.3060	1.5295	1.7289
11 *	1.3509	1.6146	1.4795	1.5808	1.3192	1.4691	1.4313	2.2034
12 *	1.6089	1.2970	1.4727	1.3194	1.5730	1.4073	1.8488	
13 *	1.4603	1.4485	1.3059	1.4693	1.4071	1.7547	2.2188	
14 *	1.5821	1.3459	1.5296	1.4314	1.8481	2.2181		
15 *	1.7299	1.9478	1.7290	2.2034				

TABLE A3
CORE OPERATING LIMITS REPORT

M-SUB-C VALUES (F-SUB-Q RPS MARGIN)

MC (3-D) AT: 118% POWER 355 EFPD THIS IS THE 18-TH LEVEL OF 18
WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A

8 *	2.4086	1.9095	2.3169	1.7651	2.0929	1.9316	2.1951	2.2036
9 *	1.9132	2.0484	1.7798	1.9153	1.7259	2.0115	1.8655	2.3301
10 *	2.2767	1.7786	2.1400	1.8482	1.8847	1.8590	2.1895	2.2309
11 *	1.7664	1.9169	1.8487	2.0513	1.8987	2.2462	2.0805	2.6273
12 *	2.1184	1.7268	1.8846	1.8990	2.2622	2.0651	2.6612	
13 *	1.9325	2.0109	1.8588	2.2466	2.0647	2.2999	2.7027	
14 *	2.1953	1.8656	2.1897	2.0807	2.6602	2.7018		
15 *	2.2041	2.3311	2.2311	2.6273				

MC (3-D) AT: 118% POWER 355 EFPD THIS IS THE 17-TH LEVEL OF 18
WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A

8 *	1.6504	1.3746	1.6043	1.2739	1.4294	1.3139	1.4268	1.4443
9 *	1.3772	1.5257	1.2871	1.4246	1.2180	1.3350	1.2604	1.6130
10 *	1.5765	1.2862	1.4758	1.3489	1.3959	1.2890	1.4182	1.4437
11 *	1.2749	1.4258	1.3493	1.5377	1.3368	1.4750	1.3596	1.7838
12 *	1.4468	1.2186	1.3959	1.3370	1.5177	1.3634	1.6903	
13 *	1.3146	1.3346	1.2889	1.4752	1.3631	1.6050	1.8421	
14 *	1.4270	1.2605	1.4183	1.3597	1.6897	1.8415		
15 *	1.4446	1.6137	1.4438	1.7838				

TABLE A3 (cont.)
CORE OPERATING LIMITS REPORT

M-SUB-C VALUES (F-SUB-Q RPS MARGIN)

MC (3-D) AT: 118% POWER 355 EFPD THIS IS THE 16-TH LEVEL OF 18
WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A
8 *	1.5255	1.2521	1.5193	1.1760	1.3483	1.2192	1.2974	1.2881
9 *	1.2545	1.4511	1.1903	1.3727	1.1153	1.2286	1.1218	1.4727
10 *	1.4929	1.1895	1.4042	1.2915	1.3291	1.1589	1.2818	1.2794
11 *	1.1769	1.3738	1.2919	1.4516	1.2160	1.3316	1.2088	1.6236
12 *	1.3647	1.1158	1.3291	1.2161	1.4099	1.2176	1.5242	
13 *	1.2198	1.2282	1.1588	1.3319	1.2174	1.4729	1.6996	
14 *	1.2975	1.1219	1.2819	1.2089	1.5236	1.6990		
15 *	1.2884	1.4733	1.2795	1.6236				

MC (3-D) AT: 118% POWER 355 EFPD THIS IS THE 15-TH LEVEL OF 18
WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A
8 *	1.5352	1.2299	1.5572	1.1926	1.3908	1.2423	1.3042	1.2758
9 *	1.2323	1.4505	1.2094	1.4279	1.1239	1.2463	1.1094	1.4771
10 *	1.5302	1.2086	1.4577	1.3402	1.3692	1.1540	1.2837	1.2632
11 *	1.1935	1.4290	1.3406	1.4593	1.1839	1.3067	1.1903	1.6312
12 *	1.4078	1.1245	1.3691	1.1841	1.4161	1.1844	1.4916	
13 *	1.2429	1.2459	1.1539	1.3070	1.1842	1.4537	1.6897	
14 *	1.3043	1.1095	1.2837	1.1905	1.4911	1.6891		
15 *	1.2761	1.4777	1.2633	1.6312				

TABLE A3 (cont.)

CORE OPERATING LIMITS REPORT

M-SUB-C VALUES (F-SUB-Q RPS MARGIN)

MC (3-D) AT: 118% POWER 355 EFPD THIS IS THE 14-TH LEVEL OF 18

WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A
8 *	1.5810	1.2600	1.6237	1.2558	1.4741	1.3168	1.3682	1.3247
9 *	1.2624	1.5115	1.2713	1.5142	1.1834	1.3174	1.1517	1.5462
10 *	1.5956	1.2704	1.5431	1.4236	1.4255	1.2055	1.3439	1.3095
11 *	1.2567	1.5154	1.4240	1.5169	1.2179	1.3516	1.2214	1.7129
12 *	1.4920	1.1840	1.4254	1.2180	1.4624	1.2071	1.5428	
13 *	1.3175	1.3170	1.2053	1.3518	1.2068	1.4953	1.7597	
14 *	1.3684	1.1518	1.3440	1.2215	1.5422	1.7591		
15 *	1.3250	1.5468	1.3096	1.7129				

MC (3-D) AT: 118% POWER 355 EFPD THIS IS THE 13-TH LEVEL OF 18

WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A
8 *	1.7106	1.3409	1.7087	1.3194	1.5751	1.4100	1.4719	1.4149
9 *	1.3434	1.6133	1.3204	1.6057	1.2448	1.4058	1.2309	1.6618
10 *	1.6791	1.3195	1.5243	1.4903	1.5006	1.2585	1.4367	1.3969
11 *	1.3204	1.6070	1.4908	1.6216	1.2921	1.4426	1.2954	1.8391
12 *	1.5943	1.2455	1.5005	1.2923	1.5737	1.2840	1.6529	
13 *	1.4107	1.4054	1.2584	1.4429	1.2838	1.5986	1.8959	
14 *	1.4721	1.2310	1.4368	1.2956	1.6523	1.8953		
15 *	1.4153	1.6625	1.3970	1.8391				

TABLE A3 (cont.)

CORE OPERATING LIMITS REPORT

M-SUB-C VALUES (F-SUB-Q RPS MARGIN)

MC (3-D) AT: 118% POWER 355 EFPD THIS IS THE 12-TH LEVEL OF 18

WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A

*								
8 *	1.8614	1.4351	1.8278	1.4139	1.7075	1.5253	1.5901	1.5448
*								
9 *	1.4378	1.7257	1.4077	1.7367	1.3314	1.5119	1.3185	1.8095
*								
10 *	1.7961	1.4068	1.7527	1.6003	1.5980	1.3304	1.5286	1.5104
*								
11 *	1.4149	1.7381	1.6008	1.7382	1.3864	1.5358	1.3644	1.9607
*								
12 *	1.7282	1.3321	1.5979	1.3866	1.7152	1.3880	1.7870	
*								
13 *	1.5261	1.5114	1.3307	1.5361	1.3878	1.7327	2.0572	
*								
14 *	1.5903	1.3186	1.5287	1.3645	1.7863	2.0565		
*								
15 *	1.5452	1.8103	1.5105	1.9607				

MC (3-D) AT: 118% POWER 355 EFPD THIS IS THE 11-TH LEVEL OF 18

WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A

*								
8 *	2.0343	1.5559	2.0237	1.5602	1.9038	1.6946	1.7557	1.6953
*								
9 *	1.5589	1.9028	1.5490	1.9340	1.4663	1.6735	1.4431	1.9884
*								
10 *	1.9886	1.5479	1.9500	1.7741	1.7617	1.4513	1.6744	1.6441
*								
11 *	1.5614	1.9355	1.7746	1.9085	1.4944	1.6645	1.4736	2.1406
*								
12 *	1.9270	1.4670	1.7617	1.4947	1.8769	1.4989	1.9311	
*								
13 *	1.6954	1.6729	1.4511	1.6648	1.4986	1.8826	2.2421	
*								
14 *	1.7559	1.4432	1.6745	1.4738	1.9304	2.2413		
*								
15 *	1.6957	1.9892	1.6442	2.1407				

TABLE A3 (cont.)
CORE OPERATING LIMITS REPORT

M-SUB-C VALUES (F-SUB-Q RPS MARGIN)

MC (3-D) AT: 118% POWER 355 EFPD THIS IS THE 10-TH LEVEL OF 18
WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A
8 *	2.3049	1.7538	2.3114	1.7711	2.1806	1.9310	1.9843	1.8980
9 *	1.7572	2.1704	1.7564	2.2155	1.6611	1.9044	1.6196	2.2332
10 *	2.2713	1.7552	2.2341	2.0273	2.0046	1.6312	1.8866	1.8362
11 *	1.7725	2.2172	2.0279	2.1696	1.6720	1.8690	1.6411	2.4003
12 *	2.2072	1.6620	2.0045	1.6723	2.1019	1.6578	2.1530	
13 *	1.9320	1.9038	1.6310	1.8693	1.6575	2.0890	2.4993	
14 *	1.9845	1.6197	1.8867	1.6413	2.1522	2.4984		
15 *	1.8984	2.2341	1.8364	2.4003				

MC (3-D) AT: 118% POWER 355 EFPD THIS IS THE 9-TH LEVEL OF 18
WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A
8 *	2.4455	1.9103	2.4652	1.9442	2.3697	2.1386	2.2260	2.1320
9 *	1.9139	2.3150	1.9181	2.3814	1.8451	2.1216	1.8318	2.5161
10 *	2.4225	1.9168	2.3805	2.1916	2.1986	1.8367	2.1259	2.0650
11 *	1.9456	2.3833	2.1922	2.3585	1.8685	2.1013	1.8558	2.7087
12 *	2.3986	1.8461	2.1985	1.8688	2.3425	1.8727	2.4287	
13 *	2.1396	2.1209	1.8365	2.1017	1.8724	2.3521	2.8138	
14 *	2.2263	1.8319	2.1260	1.8560	2.4278	2.8129		
15 *	2.1325	2.5172	2.0652	2.7087				

TABLE A3 (cont.)

CORE OPERATING LIMITS REPORT

M-SUB-C VALUES (F-SUB-Q RPS MARGIN)

MC (3-D) AT: 118% POWER 355 EFPD THIS IS THE 8-TH LEVEL OF 18

WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A
8 *	2.2969	1.7945	2.3157	1.8295	2.2258	2.0185	2.1157	2.0292
9 *	1.7979	2.1751	1.8022	2.2379	1.7425	2.0074	1.7515	2.3895
10 *	2.2755	1.8010	2.2369	2.0572	2.0713	1.7535	2.0420	1.9894
11 *	1.8309	2.2397	2.0578	2.2170	1.7761	2.0080	1.7968	2.6062
12 *	2.2529	1.7434	2.0712	1.7764	2.2246	1.8064	2.3447	
13 *	2.0195	2.0068	1.7533	2.0083	1.8061	2.2664	2.7276	
14 *	2.1159	1.7517	2.0421	1.7970	2.3438	2.7267		
15 *	2.0297	2.3905	1.9896	2.6062				

MC (3-D) AT: 118% POWER 355 EFPD THIS IS THE 7-TH LEVEL OF 18

WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A
8 *	2.1430	1.6654	2.1459	1.6804	2.0475	1.8497	1.9218	1.8406
9 *	1.6685	2.0264	1.6639	2.0650	1.5960	1.8398	1.5874	2.1717
10 *	2.1087	1.6627	2.0723	1.9064	1.9155	1.6065	1.8545	1.8007
11 *	1.6817	2.0667	1.9069	2.0652	1.6479	1.8626	1.6427	2.3634
12 *	2.0724	1.5968	1.9154	1.6481	2.0760	1.6854	2.1587	
13 *	1.8506	1.8392	1.6063	1.8629	1.6851	2.1049	2.5049	
14 *	1.9220	1.5876	1.8546	1.5429	2.1579	2.5041		
15 *	1.8410	2.1726	1.8009	2.3634				

TABLE A3 (cont.)

CORE OPERATING LIMITS REPORT

M-SUB-C VALUES (F-SUB-Q RPS MARGIN)

MC (3-D) AT: 118% POWER 355 EFPD THIS IS THE 6-TH LEVEL OF 18

WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A
8 *	1.9582	1.5078	1.9544	1.5238	1.8704	1.6861	1.7469	1.6701
9 *	1.5107	1.8422	1.5066	1.8835	1.4466	1.6749	1.4357	1.9780
10 *	1.9206	1.5055	1.8885	1.7330	1.7408	1.4485	1.6789	1.6306
11 *	1.5249	1.8850	1.7335	1.8737	1.4853	1.6755	1.4768	2.1496
12 *	1.8932	1.4473	1.7407	1.4856	1.8881	1.5038	1.9459	
13 *	1.6870	1.6744	1.4483	1.6758	1.5035	1.8900	2.2684	
14 *	1.7471	1.4359	1.6790	1.4769	1.9452	2.2676		
15 *	1.6705	1.9788	1.6307	2.1497				

MC (3-D) AT: 118% POWER 355 EFPD THIS IS THE 5-TH LEVEL OF 18

WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A
8 *	1.7626	1.3556	1.7699	1.3762	1.6979	1.5289	1.5969	1.5247
9 *	1.3582	1.6642	1.3584	1.7061	1.3068	1.5184	1.3065	1.8126
10 *	1.7392	1.3575	1.7083	1.5637	1.5740	1.3120	1.5295	1.4868
11 *	1.3772	1.7074	1.5642	1.6904	1.3350	1.5168	1.3373	1.9693
12 *	1.7186	1.3074	1.5739	1.3352	1.6962	1.3526	1.7683	
13 *	1.5297	1.5179	1.3118	1.5171	1.3524	1.7108	2.0700	
14 *	1.5970	1.3067	1.5296	1.3375	1.7677	2.0693		
15 *	1.5251	1.8133	1.4868	1.9693				

TABLE A3 (cont.)

CORE OPERATING LIMITS REPORT

M-SUB-C VALUES (F-SUB-Q RPS MARGIN)

MC (3-D) AT: 118% POWER 355 EFPD THIS IS THE 4-TH LEVEL OF 18

WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A
8 *	1.6043	1.2283	1.6141	1.2488	1.5454	1.3876	1.4592	1.4086
9 *	1.2307	1.5139	1.2322	1.5522	1.1847	1.3783	1.1972	1.6786
10 *	1.5862	1.2314	1.5545	1.4176	1.4291	1.1890	1.4001	1.3739
11 *	1.2497	1.5534	1.4180	1.5338	1.2066	1.3730	1.2260	1.8264
12 *	1.5642	1.1853	1.4291	1.2068	1.5332	1.2298	1.6242	
13 *	1.3883	1.3779	1.1889	1.3732	1.2295	1.5625	1.9087	
14 *	1.4593	1.1973	1.4002	1.2261	1.6236	1.9081		
15 *	1.4090	1.6793	1.3740	1.8264				

MC (3-D) AT: 118% POWER 355 EFPD THIS IS THE 3-TH LEVEL OF 18

WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A
8 *	1.4995	1.1489	1.5090	1.1675	1.4359	1.2874	1.3619	1.3397
9 *	1.1511	1.4097	1.1521	1.4428	1.1066	1.2809	1.1233	1.5869
10 *	1.4828	1.1513	1.4456	1.3128	1.3272	1.1132	1.3068	1.3095
11 *	1.1683	1.4439	1.3132	1.4231	1.1259	1.2770	1.1523	1.7398
12 *	1.4533	1.1072	1.3271	1.1261	1.4198	1.1472	1.5212	
13 *	1.2880	1.2805	1.1131	1.2772	1.1470	1.4612	1.7951	
14 *	1.3620	1.1234	1.3069	1.1524	1.5207	1.7945		
15 *	1.3400	1.5876	1.3096	1.7399				

TABLE A3 (cont.)
CORE OPERATING LIMITS REPORT

M-SUB-C VALUES (F-SUB-Q RPS MARGIN)

MC (3-D) AT: 118% POWER 355 EFPD THIS IS THE 2-TH LEVEL OF 18
WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A
8 *	1.4922	1.1632	1.5006	1.1795	1.4123	1.2725	1.3619	1.3849
9 *	1.1654	1.3948	1.1646	1.4221	1.1177	1.2694	1.1470	1.6169
10 *	1.4745	1.1638	1.4258	1.2923	1.3077	1.1310	1.3108	1.3643
11 *	1.1804	1.4233	1.2927	1.4000	1.1378	1.2730	1.1779	1.7895
12 *	1.4295	1.1183	1.3077	1.1380	1.3968	1.1656	1.5402	
13 *	1.2731	1.2690	1.1309	1.2732	1.1654	1.4748	1.8237	
14 *	1.3621	1.1471	1.3108	1.1780	1.5397	1.8231		
15 *	1.3852	1.6175	1.3644	1.7895				

MC (3-D) AT: 118% POWER 355 EFPD THIS IS THE 1-TH LEVEL OF 18
WHERE: LEVEL 18 = TOP OF CORE
LEVEL 1 = BOTTOM OF CORE

	H	G	F	E	D	C	B	A
8 *	1.8706	1.4135	1.8793	1.4781	1.7459	1.6072	1.7443	1.9069
9 *	1.4663	1.7433	1.4621	1.5690	1.4225	1.5965	1.4816	2.1448
10 *	1.8468	1.4611	1.7786	1.6221	1.6188	1.4365	1.6871	1.8994
11 *	1.4792	1.7704	1.6225	1.7350	1.4483	1.6190	1.5743	2.4226
12 *	1.7672	1.4232	1.6188	1.4485	1.7302	1.5463	2.0330	
13 *	1.6080	1.5960	1.4364	1.6193	1.5461	1.9287	2.4316	
14 *	1.7445	1.4817	1.6872	1.5745	2.0323	2.4308		
15 *	1.9073	2.1457	1.8995	2.4227				

TABLE A5

CORE OPERATING LIMITS REPORT

F-DELTA-H DESIGN

FDHD (2-D) AT: 100% POWER 355 EFPD

	H	G	F	E	D	C	B	A
8 *	1.0318	1.3230	1.0239	1.3012	1.0761	1.1915	1.1210	1.1259
9 *	1.3205	1.1002	1.3187	1.0752	1.3699	1.1990	1.3445	.9669
10 *	1.0419	1.3196	1.0668	1.1727	1.1664	1.3622	1.1695	1.1476
11 *	1.3002	1.0743	1.1724	1.0892	1.3496	1.2014	1.3119	.8884
12 *	1.0631	1.3692	1.1664	1.3494	1.0900	1.3183	1.0111	
13 *	1.1909	1.1994	1.3624	1.2012	1.3186	1.0528	.8665	
14 *	1.1209	1.3444	1.1694	1.3118	1.0115	.8668		
15 *	1.1256	.9665	1.1475	.8884				

FDHD (2-D) AT: 100% POWER 400 EFPD

	H	G	F	E	D	C	B	A
8 *	1.0300	1.3157	1.0227	1.2960	1.0788	1.1948	1.1258	1.1242
9 *	1.3133	1.0937	1.3120	1.0701	1.3667	1.2039	1.3460	.9660
10 *	1.0408	1.3129	1.0651	1.1673	1.1630	1.3623	1.1741	1.1459
11 *	1.2949	1.0692	1.1670	1.0843	1.3467	1.2054	1.3131	.8875
12 *	1.0661	1.3660	1.1631	1.3465	1.0942	1.3187	1.0151	
13 *	1.1942	1.2043	1.3624	1.2052	1.3189	1.0516	.8670	
14 *	1.1256	1.3459	1.1741	1.3129	1.0155	.8673		
15 *	1.1240	.9657	1.1458	.8875				

TABLE A6

CORE OPERATING LIMITS REPORT

M-DELTA-H VALUES (F-DELTA-H MARGIN)

MH (2-D) AT: 100% POWER 355 EFPD

	H	G	F	E	D	C	B	A
8 *	1.4180	1.1416	1.4366	1.1241	1.3004	1.1678	1.2521	1.2299
9 *	1.1438	1.3373	1.1318	1.3203	1.0607	1.1924	1.0530	1.4286
10 *	1.4117	1.1311	1.3494	1.2348	1.2540	1.0803	1.2244	1.2185
11 *	1.1249	1.3213	1.2352	1.3411	1.1063	1.2333	1.1229	1.5829
12 *	1.3162	1.0612	1.2540	1.1065	1.3149	1.1181	1.4402	
13 *	1.1684	1.1920	1.0802	1.2335	1.1179	1.3870	1.6278	
14 *	1.2523	1.0531	1.2244	1.1230	1.4397	1.6273		
15 *	1.2302	1.4292	1.2186	1.5830				