

```

BLOCK=OLD
DATASET=ISOTXS
BLOCK=STP027,3
DATASET=A.STP027
01      0      0      0      1      0      0      0      0      0      0      1
02      0      1      0      2      0      0      0      0      0      0      0
03      1      0      1      0      0      1      0      0      0      0      0
DATASET=A.DIF3D
01      RINSC LEU 9/30/98
02      20000900000 0
03      0      0      0      0      150      0      0      8      0      0      50
04      0      0      0      01      000      10      000      0      0      0000      0
05      1.0E-6      5.0E-4      5.0E-4
06      1.00000E-0      0.001      0.004      2.000-6      1.0000
DATASET=A.HMG4C
01      RINSC LEU Eq. Core at step 9c, rearrange 4 innermost FAs ALL RODS 100% OUT 2-2010
02      500000 1 0 0 0 0 0 0 0
DATASET=A.NIP3
01      RINSC LEU STARTUP CORE
01      ALL CONTROL BLADES FULL OUT
01      REG ROD FULL OUT
02      1 25000 1
03      44
04      2 2 2 2 2 2
06      H2ORFO 0.0 113.03 0 37 0.0 160.0
06      TCB1 0.0 113.03 0 37 0.0 29.527
06      TCB2 11.43 101.60 5 33 0.0 52.387
06      TC1 0.0 113.03 0 37 0.0 26.987
06      TC2 13.97 99.06 6 32 26.987 49.847
06      GSBOX 26.352 86.678 5 28 52.387 63.187
06      SHIELD 27.940 85.090 8 27 53.977 61.597
06      GRID 26.085 86.945 2 4 63.822 135.146
06      GBOX 26.085 86.945 4 31 63.822 135.146
06      H2ORFI 26.720 86.310 4 31 64.457 134.511
06      AXREFT 26.773 86.257 26 31 64.51 134.458
06      AXREFB 26.773 86.257 4 9 64.51 134.458
06      POST1 26.085 34.545 4 31 63.822 72.282
06      POST2 26.085 34.545 4 31 126.686 135.146
06      POST3 78.485 86.945 4 31 63.822 72.282
06      POST4 78.485 86.945 4 31 126.686 135.146
06      GRAF1 44.857 68.173 7 29 64.51 72.282
01 moved 5 Be to core boundary E8 D8 C8 E2 C2 11/98
06      BEEC8 44.857 68.173 7 29 118.914 126.686
06      BE-E2 44.857 52.629 7 29 72.282 80.054
06      BE-C2 60.401 68.173 7 29 72.282 80.054
06      GRAF5 34.545 42.317 7 29 64.51 126.686
06      BEF5A 34.545 42.317 9 26 80.054 118.914 Be
06      GRAF6 70.713 78.485 7 29 64.51 126.686
06      BEF6A 70.713 78.485 9 26 80.054 118.914 Be
01 move 2 BE away BE1 26.773 34.545 9 26 72.282 126.686
06      GRAG1 26.773 34.545 9 26 72.282 126.686 G
01 move 2 Be away BE2 78.485 86.257 9 26 72.282 126.686
06      GRAG2 78.485 86.257 9 26 72.282 126.686 G
06      FC 78.485 86.257 35 37 126.686 134.458
06      CIC 26.773 34.545 35 37 126.686 134.458
01 RBBL1S to BE-F9 11/98
06      BE-F9 34.545 42.317 9 26 126.686 134.458
01 RBBL2S to BE-E9 updated from rinsc info 8/98
01 removed RB box 11/98 06 RBBL2E 45.351 52.135 9 26 126.686 134.458
01 removed 06 RB2 45.351 52.135 9 26 127.0417 134.1023
06      G-E9 44.857 52.629 9 26 126.686 134.458
06      RBBL3S 52.629 60.401 9 26 126.686 134.458
06      RBBL3E 53.123 59.907 9 26 126.686 134.458
06      RB3 53.123 59.907 9 26 127.0417 134.1023
06      RBBL4S 60.401 68.173 9 26 126.686 134.458
06      RBBL4E 60.895 67.679 9 26 126.686 134.458
06      RB4 60.895 67.679 9 26 127.0417 134.1023
06      RBBL5S 70.713 78.485 9 26 126.686 134.458
06      RBBL5E 71.207 77.991 9 26 126.686 134.458
06      RB5 71.207 77.991 9 26 127.0417 134.1023
06      E3A 44.857 52.629 9 13 80.054 87.826
06      E4A 44.857 52.629 9 13 87.826 95.598
06      E5A 44.857 52.629 9 13 95.598 103.370
06      E6A 44.857 52.629 9 13 103.370 111.142
06      E7A 44.857 52.629 9 13 111.142 118.914
06      D3A 52.629 60.401 9 13 80.054 87.826
06      D4A 52.629 60.401 9 13 87.826 95.598
06      D6A 52.629 60.401 9 13 103.370 111.142
06      D7A 52.629 60.401 9 13 111.142 118.914
06      C3A 60.401 68.173 9 13 80.054 87.826
06      C4A 60.401 68.173 9 13 87.826 95.598

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06	C5A	60.401	68.173	9	13	95.598	103.370	
06	C6A	60.401	68.173	9	13	103.370	111.142	
06	C7A	60.401	68.173	9	13	111.142	118.914	
06	E3B	44.857	52.629	13	17	80.054	87.826	
06	E4B	44.857	52.629	13	17	87.826	95.598	
06	E5B	44.857	52.629	13	17	95.598	103.370	
06	E6B	44.857	52.629	13	17	103.370	111.142	
06	E7B	44.857	52.629	13	17	111.142	118.914	
06	D3B	52.629	60.401	13	17	80.054	87.826	
06	D4B	52.629	60.401	13	17	87.826	95.598	
06	D6B	52.629	60.401	13	17	103.370	111.142	
06	D7B	52.629	60.401	13	17	111.142	118.914	
06	C3B	60.401	68.173	13	17	80.054	87.826	
06	C4B	60.401	68.173	13	17	87.826	95.598	
06	C5B	60.401	68.173	13	17	95.598	103.370	
06	C6B	60.401	68.173	13	17	103.370	111.142	
06	C7B	60.401	68.173	13	17	111.142	118.914	
06	E3C	44.857	52.629	17	21	80.054	87.826	
06	E4C	44.857	52.629	17	21	87.826	95.598	
06	E5C	44.857	52.629	17	21	95.598	103.370	
06	E6C	44.857	52.629	17	21	103.370	111.142	
06	E7C	44.857	52.629	17	21	111.142	118.914	
06	D3C	52.629	60.401	17	21	80.054	87.826	
06	D4C	52.629	60.401	17	21	87.826	95.598	
06	D6C	52.629	60.401	17	21	103.370	111.142	
06	D7C	52.629	60.401	17	21	111.142	118.914	
06	C3C	60.401	68.173	17	21	80.054	87.826	
06	C4C	60.401	68.173	17	21	87.826	95.598	
06	C5C	60.401	68.173	17	21	95.598	103.370	
06	C6C	60.401	68.173	17	21	103.370	111.142	
06	C7C	60.401	68.173	17	21	111.142	118.914	
06	E3D	44.857	52.629	21	26	80.054	87.826	
06	E4D	44.857	52.629	21	26	87.826	95.598	
06	E5D	44.857	52.629	21	26	95.598	103.370	
06	E6D	44.857	52.629	21	26	103.370	111.142	
06	E7D	44.857	52.629	21	26	111.142	118.914	
06	D3D	52.629	60.401	21	26	80.054	87.826	
06	D4D	52.629	60.401	21	26	87.826	95.598	
06	D6D	52.629	60.401	21	26	103.370	111.142	
06	D7D	52.629	60.401	21	26	111.142	118.914	
06	C3D	60.401	68.173	21	26	80.054	87.826	
06	C4D	60.401	68.173	21	26	87.826	95.598	
06	C5D	60.401	68.173	21	26	95.598	103.370	
06	C6D	60.401	68.173	21	26	103.370	111.142	
06	C7D	60.401	68.173	21	26	111.142	118.914	
06	S1	44.857	45.7015	9	26	80.054	118.914	
06	S2	51.7845	52.629	9	26	80.054	118.914	
06	S3	52.629	53.4735	9	26	80.054	118.914	
06	S4	59.5565	60.401	9	26	80.054	118.914	
06	S5	60.401	61.2455	9	26	80.054	118.914	
06	S6	67.3285	68.173	9	26	80.054	118.914	
06	G1	42.317	44.857	9	26	64.51	70.086	
06	G2	42.317	44.857	9	26	98.090	100.878	
06	G3	42.317	44.857	9	26	128.882	134.458	
06	G4	68.173	70.713	9	26	64.51	70.086	
06	G5	68.173	70.713	9	26	98.090	100.878	
06	G6	68.173	70.713	9	26	128.882	134.458	
06	TRAP	52.629	60.401	9	26	95.598	103.370	
01	flux trap size different 9/98 **							
01	06	HOLE	54.8265	58.2035	9	26	97.7955	101.1725
01	06	HOLE	54.6861	58.3439	9	26	97.6551	101.3130
01	G1 to G6 CR guide tubes							
06	CNTL10	68.173	70.713	7	30	100.878	128.882	
06	CNTL20	68.173	70.713	7	30	70.086	98.090	
06	CNTL30	42.317	44.857	7	30	70.086	98.090	
06	CNTL40	42.317	44.857	7	30	100.878	128.882	
06	CNTL1I	68.173	70.713	30	37	100.878	128.882	
06	CNTL2I	68.173	70.713	30	37	70.086	98.090	
06	CNTL3I	42.317	44.857	30	37	70.086	98.090	
06	CNTL4I	42.317	44.857	30	37	100.878	128.882	
06	BLADE1	69.11915	69.76685	30	37	101.507	128.253	
06	BLADE2	69.11915	69.76685	30	37	70.715	97.461	
06	BLADE3	43.26315	43.91085	30	37	70.715	97.461	
06	BLADE4	43.26315	43.91085	30	37	101.507	128.253	
06	REGOUT	52.629	60.401	7	37	72.282	80.054	
01	make the reg rod fully out 9/98 **							
06	REGIN1	52.629	60.401	30	37	72.282	80.054	
06	ROD1	53.816	59.214	30	37	73.46925	78.86675	
06	REGIN2	54.451	58.579	30	37	74.10425	78.23175	
07	E3	E3A	E3B	E3C	E3D			
07	E4	E4A	E4B	E4C	E4D			



15 MNEW E3A  
 15 MNEW E3B  
 15 MNEW E3C  
 15 MNEW E3D  
 15 MNEW E7A  
 15 MNEW E7B  
 15 MNEW E7C  
 15 MNEW E7D  
 15 MNEW C3A  
 15 MNEW C3B  
 15 MNEW C3C  
 15 MNEW C3D  
 15 MNEW C7A  
 15 MNEW C7B  
 15 MNEW C7C  
 15 MNEW C7D

Material composition from EOC at 105 days of rbsc3-step9a run 5-2010

13	MTE3A	U5F4	0	1.67636E-03FU6B	0	1.39298E-05U8F4	0	7.03477E-03	\$	E3A	step9a 105 days
13	MTE3A	FP9B	0	2.89854E-07FP0B	0	1.10772E-08FP1B	0	2.34409E-06			
13	MTE3A	FP2B	0	1.07177E-07FXEB	0	1.15167E-08FI5B	0	1.75473E-08			
13	MTE3A	FPMB	0	2.36321E-08FSMB	0	1.36502E-07PPF1	0	7.14534E-05			
13	MTE3A	ODUM	0	3.10848E-06							
13	MTE3B	U5F4	0	1.63950E-03FU6B	0	2.06349E-05U8F4	0	7.03060E-03	\$	E3B	step9a 105 days
13	MTE3B	FP9B	0	4.36836E-07FP0B	0	2.46912E-08FP1B	0	3.95250E-06			
13	MTE3B	FP2B	0	2.72615E-07FXEB	0	1.33512E-08FI5B	0	2.56648E-08			
13	MTE3B	FPMB	0	3.46085E-08FSMB	0	1.34972E-07PPF1	0	1.05028E-04			
13	MTE3B	ODUM	0	4.19805E-06							
13	MTE3C	U5F4	0	1.63887E-03FU6B	0	2.07413E-05U8F4	0	7.03060E-03	\$	E3C	step9a 105 days
13	MTE3C	FP9B	0	4.38860E-07FP0B	0	2.49346E-08FP1B	0	3.97900E-06			
13	MTE3C	FP2B	0	2.75967E-07FXEB	0	1.33720E-08FI5B	0	2.57907E-08			
13	MTE3C	FPMB	0	3.47796E-08FSMB	0	1.34937E-07PPF1	0	1.05570E-04			
13	MTE3C	ODUM	0	4.21509E-06							
13	MTE3D	U5F4	0	1.67462E-03FU6B	0	1.42434E-05U8F4	0	7.03477E-03	\$	E3D	step9a 105 days
13	MTE3D	FP9B	0	2.95848E-07FP0B	0	1.15563E-08FP1B	0	2.41739E-06			
13	MTE3D	FP2B	0	1.13088E-07FXEB	0	1.16259E-08FI5B	0	1.79221E-08			
13	MTE3D	FPMB	0	2.41391E-08FSMB	0	1.36565E-07PPF1	0	7.30320E-05			
13	MTE3D	ODUM	0	3.16120E-06							
13	MTE4A	U5F4	0	1.52406E-03FU6B	0	4.12524E-05U8F4	0	7.01947E-03	\$	E4A	step9a 105 days
13	MTE4A	FP9B	0	8.27190E-07FP0B	0	9.25661E-08FP1B	0	6.38866E-06			
13	MTE4A	FP2B	0	9.33380E-07FXEB	0	1.15786E-08FI5B	0	1.97754E-08			
13	MTE4A	FPMB	0	2.66961E-08FSMB	0	1.26363E-07PPF1	0	2.09277E-04			
13	MTE4A	ODUM	0	1.09068E-05							
13	MTE4B	U5F4	0	1.42170E-03FU6B	0	6.01453E-05U8F4	0	7.00695E-03	\$	E4B	step9a 105 days
13	MTE4B	FP9B	0	1.16954E-06FP0B	0	1.91683E-07FP1B	0	9.91168E-06			
13	MTE4B	FP2B	0	2.25967E-06FXEB	0	1.26718E-08FI5B	0	2.81599E-08			
13	MTE4B	FPMB	0	3.81168E-08FSMB	0	1.19367E-07PPF1	0	3.02065E-04			
13	MTE4B	ODUM	0	1.59478E-05							
13	MTE4C	U5F4	0	1.42010E-03FU6B	0	6.04367E-05U8F4	0	7.00695E-03	\$	E4C	step9a 105 days
13	MTE4C	FP9B	0	1.17371E-06FP0B	0	1.93338E-07FP1B	0	9.96384E-06			
13	MTE4C	FP2B	0	2.28547E-06FXEB	0	1.26794E-08FI5B	0	2.82802E-08			
13	MTE4C	FPMB	0	3.82816E-08FSMB	0	1.19249E-07PPF1	0	3.03526E-04			
13	MTE4C	ODUM	0	1.60341E-05							
13	MTE4D	U5F4	0	1.51940E-03FU6B	0	4.21099E-05U8F4	0	7.01878E-03	\$	E4D	step9a 105 days
13	MTE4D	FP9B	0	8.41446E-07FP0B	0	9.60918E-08FP1B	0	6.55424E-06			
13	MTE4D	FP2B	0	9.80459E-07FXEB	0	1.16460E-08FI5B	0	2.01273E-08			
13	MTE4D	FPMB	0	2.71752E-08FSMB	0	1.26134E-07PPF1	0	2.13512E-04			
13	MTE4D	ODUM	0	1.11175E-05							
13	MTE5A	U5F4	0	1.49534E-03FU6B	0	4.64159E-05U8F4	0	7.01669E-03	\$	E5A	step9a 105 days
13	MTE5A	FP9B	0	8.92768E-07FP0B	0	1.14478E-07FP1B	0	7.40960E-06			
13	MTE5A	FP2B	0	1.23950E-06FXEB	0	1.19388E-08FI5B	0	2.20369E-08			
13	MTE5A	FPMB	0	2.97663E-08FSMB	0	1.24179E-07PPF1	0	2.35174E-04			
13	MTE5A	ODUM	0	1.21780E-05							
13	MTE5B	U5F4	0	1.38324E-03FU6B	0	6.71975E-05U8F4	0	7.00209E-03	\$	E5B	step9a 105 days
13	MTE5B	FP9B	0	1.24458E-06FP0B	0	2.31690E-07FP1B	0	1.11307E-05			
13	MTE5B	FP2B	0	2.91245E-06FXEB	0	1.27809E-08FI5B	0	3.08081E-08			
13	MTE5B	FPMB	0	4.17371E-08FSMB	0	1.16502E-07PPF1	0	3.36592E-04			
13	MTE5B	ODUM	0	1.81224E-05							
13	MTE5C	U5F4	0	1.38150E-03FU6B	0	6.75250E-05U8F4	0	7.00209E-03	\$	E5C	step9a 105 days
13	MTE5C	FP9B	0	1.24882E-06FP0B	0	2.33644E-07FP1B	0	1.11864E-05			
13	MTE5C	FP2B	0	2.94513E-06FXEB	0	1.27858E-08FI5B	0	3.09346E-08			
13	MTE5C	FPMB	0	4.19117E-08FSMB	0	1.16384E-07PPF1	0	3.38213E-04			
13	MTE5C	ODUM	0	1.82295E-05							
13	MTE5D	U5F4	0	1.49013E-03FU6B	0	4.73693E-05U8F4	0	7.01530E-03	\$	E5D	step9a 105 days
13	MTE5D	FP9B	0	9.07789E-07FP0B	0	1.18727E-07FP1B	0	7.58901E-06			
13	MTE5D	FP2B	0	1.30056E-06FXEB	0	1.19910E-08FI5B	0	2.23880E-08			
13	MTE5D	FPMB	0	3.02462E-08FSMB	0	1.23915E-07PPF1	0	2.39875E-04			
13	MTE5D	ODUM	0	1.24228E-05							
13	MTE6A	U5F4	0	1.58373E-03FU6B	0	3.06029E-05U8F4	0	7.02503E-03	\$	E6A	step9a 105 days

13	MTE6A	FP9B	0	6.31377E-07	FP0B	0	5.19054E-08	FP1B	0	5.12163E-06			
13	MTE6A	FP2B	0	5.36697E-07	FXEB	0	1.21467E-08	FI5B	0	2.10612E-08			
13	MTE6A	FPMB	0	2.84145E-08	FSMB	0	1.30876E-07	PPF1	0	1.55424E-04			
13	MTE6A	ODUM	0	7.35675E-06									
13	MTE6B	U5F4	0	1.50633E-03	FU6B	0	4.49026E-05	U8F4	0	7.01599E-03	\$	E6B	step9a 105 days
13	MTE6B	FP9B	0	9.15160E-07	FP0B	0	1.10688E-07	FP1B	0	8.13143E-06			
13	MTE6B	FP2B	0	1.31161E-06	FXEB	0	1.34791E-08	FI5B	0	3.03331E-08			
13	MTE6B	FPMB	0	4.10139E-08	FSMB	0	1.25821E-07	PPF1	0	2.25994E-04			
13	MTE6B	ODUM	0	1.04166E-05									
13	MTE6C	U5F4	0	1.50501E-03	FU6B	0	4.51328E-05	U8F4	0	7.01599E-03	\$	E6C	step9a 105 days
13	MTE6C	FP9B	0	9.18915E-07	FP0B	0	1.11725E-07	FP1B	0	8.17942E-06			
13	MTE6C	FP2B	0	1.32733E-06	FXEB	0	1.34910E-08	FI5B	0	3.04722E-08			
13	MTE6C	FPMB	0	4.12051E-08	FSMB	0	1.25730E-07	PPF1	0	2.27142E-04			
13	MTE6C	ODUM	0	1.04694E-05									
13	MTE6D	U5F4	0	1.58004E-03	FU6B	0	3.12914E-05	U8F4	0	7.02503E-03	\$	E6D	step9a 105 days
13	MTE6D	FP9B	0	6.43526E-07	FP0B	0	5.40688E-08	FP1B	0	5.26878E-06			
13	MTE6D	FP2B	0	5.65953E-07	FXEB	0	1.22281E-08	FI5B	0	2.14673E-08			
13	MTE6D	FPMB	0	2.89659E-08	FSMB	0	1.30730E-07	PPF1	0	1.58853E-04			
13	MTE6D	ODUM	0	7.49791E-06									
13	MTE7A	U5F4	0	1.66912E-03	FU6B	0	1.52684E-05	U8F4	0	7.03407E-03	\$	E7A	step9a 105 days
13	MTE7A	FP9B	0	3.15730E-07	FP0B	0	1.32135E-08	FP1B	0	2.65278E-06			
13	MTE7A	FP2B	0	1.33275E-07	FXEB	0	1.19624E-08	FI5B	0	1.91356E-08			
13	MTE7A	FPMB	0	2.57789E-08	FSMB	0	1.36419E-07	PPF1	0	7.80668E-05			
13	MTE7A	ODUM	0	3.32955E-06									
13	MTE7B	U5F4	0	1.62921E-03	FU6B	0	2.25800E-05	U8F4	0	7.02990E-03	\$	E7B	step9a 105 days
13	MTE7B	FP9B	0	4.74374E-07	FP0B	0	2.93275E-08	FP1B	0	4.41217E-06			
13	MTE7B	FP2B	0	3.34402E-07	FXEB	0	1.37281E-08	FI5B	0	2.79228E-08			
13	MTE7B	FPMB	0	3.76683E-08	FSMB	0	1.34471E-07	PPF1	0	1.14499E-04			
13	MTE7B	ODUM	0	4.50730E-06									
13	MTE7C	U5F4	0	1.62851E-03	FU6B	0	2.27024E-05	U8F4	0	7.02990E-03	\$	E7C	step9a 105 days
13	MTE7C	FP9B	0	4.76676E-07	FP0B	0	2.96314E-08	FP1B	0	4.44263E-06			
13	MTE7C	FP2B	0	3.38693E-07	FXEB	0	1.37490E-08	FI5B	0	2.80675E-08			
13	MTE7C	FPMB	0	3.78644E-08	FSMB	0	1.34423E-07	PPF1	0	1.15125E-04			
13	MTE7C	ODUM	0	4.52705E-06									
13	MTE7D	U5F4	0	1.66704E-03	FU6B	0	1.56495E-05	U8F4	0	7.03407E-03	\$	E7D	step9a 105 days
13	MTE7D	FP9B	0	3.22747E-07	FP0B	0	1.38394E-08	FP1B	0	2.74332E-06			
13	MTE7D	FP2B	0	1.41391E-07	FXEB	0	1.20807E-08	FI5B	0	1.95911E-08			
13	MTE7D	FPMB	0	2.63950E-08	FSMB	0	1.36439E-07	PPF1	0	7.99861E-05			
13	MTE7D	ODUM	0	3.39242E-06									
13	MTD3A	U5F4	0	1.60362E-03	FU6B	0	2.69743E-05	U8F4	0	7.02782E-03	\$	D3A	step9a 105 days
13	MTD3A	FP9B	0	5.61885E-07	FP0B	0	4.06898E-08	FP1B	0	4.33630E-06			
13	MTD3A	FP2B	0	3.98873E-07	FXEB	0	1.14645E-08	FI5B	0	1.80946E-08			
13	MTD3A	FPMB	0	2.43971E-08	FSMB	0	1.32656E-07	PPF1	0	1.37378E-04			
13	MTD3A	ODUM	0	6.62399E-06									
13	MTD3B	U5F4	0	1.53470E-03	FU6B	0	3.96405E-05	U8F4	0	7.01947E-03	\$	D3B	step9a 105 days
13	MTD3B	FP9B	0	8.22879E-07	FP0B	0	8.76634E-08	FP1B	0	7.03547E-06			
13	MTD3B	FP2B	0	9.90542E-07	FXEB	0	1.29771E-08	FI5B	0	2.60994E-08			
13	MTD3B	FPMB	0	3.52587E-08	FSMB	0	1.28199E-07	PPF1	0	2.00146E-04			
13	MTD3B	ODUM	0	9.25800E-06									
13	MTD3C	U5F4	0	1.53352E-03	FU6B	0	3.98401E-05	U8F4	0	7.01947E-03	\$	D3C	step9a 105 days
13	MTD3C	FP9B	0	8.26286E-07	FP0B	0	8.84771E-08	FP1B	0	7.07858E-06			
13	MTD3C	FP2B	0	1.00236E-06	FXEB	0	1.29923E-08	FI5B	0	2.62225E-08			
13	MTD3C	FPMB	0	3.54263E-08	FSMB	0	1.28122E-07	PPF1	0	2.01154E-04			
13	MTD3C	ODUM	0	9.30181E-06									
13	MTD3D	U5F4	0	1.60042E-03	FU6B	0	2.75654E-05	U8F4	0	7.02712E-03	\$	D3D	step9a 105 days
13	MTD3D	FP9B	0	5.72684E-07	FP0B	0	4.23700E-08	FP1B	0	4.46252E-06			
13	MTD3D	FP2B	0	4.20188E-07	FXEB	0	1.15577E-08	FI5B	0	1.84611E-08			
13	MTD3D	FPMB	0	2.48936E-08	FSMB	0	1.32538E-07	PPF1	0	1.40327E-04			
13	MTD3D	ODUM	0	6.74444E-06									
13	MTD4A	U5F4	0	1.44611E-03	FU6B	0	5.55014E-05	U8F4	0	7.01043E-03	\$	D4A	step9a 105 days
13	MTD4A	FP9B	0	1.07462E-06	FP0B	0	1.61433E-07	FP1B	0	8.21905E-06			
13	MTD4A	FP2B	0	1.68505E-06	FXEB	0	1.15348E-08	FI5B	0	2.08519E-08			
13	MTD4A	FPMB	0	2.81857E-08	FSMB	0	1.21495E-07	PPF1	0	2.79715E-04			
13	MTD4A	ODUM	0	1.57942E-05									
13	MTD4B	U5F4	0	1.31530E-03	FU6B	0	7.99235E-05	U8F4	0	6.99305E-03	\$	D4B	step9a 105 days
13	MTD4B	FP9B	0	1.47086E-06	FP0B	0	3.17643E-07	FP1B	0	1.21085E-05			
13	MTD4B	FP2B	0	3.93060E-06	FXEB	0	1.22031E-08	FI5B	0	2.87775E-08			
13	MTD4B	FPMB	0	3.90264E-08	FSMB	0	1.12232E-07	PPF1	0	3.97552E-04			
13	MTD4B	ODUM	0	2.42872E-05									
13	MTD4C	U5F4	0	1.31321E-03	FU6B	0	8.02990E-05	U8F4	0	6.99305E-03	\$	D4C	step9a 105 days
13	MTD4C	FP9B	0	1.47538E-06	FP0B	0	3.20146E-07	FP1B	0	1.21634E-05			
13	MTD4C	FP2B	0	3.97337E-06	FXEB	0	1.22045E-08	FI5B	0	2.88915E-08			
13	MTD4C	FPMB	0	3.91836E-08	FSMB	0	1.12079E-07	PPF1	0	3.99367E-04			
13	MTD4C	ODUM	0	2.44409E-05									
13	MTD4D	U5F4	0	1.44033E-03	FU6B	0	5.65737E-05	U8F4	0	7.00974E-03	\$	D4D	step9a 105 days
13	MTD4D	FP9B	0	1.09138E-06	FP0B	0	1.66975E-07	FP1B	0	8.40195E-06			
13	MTD4D	FP2B	0	1.76335E-06	FXEB	0	1.15779E-08	FI5B	0	2.11565E-08			
13	MTD4D	FPMB	0	2.86022E-08	FSMB	0	1.21182E-07	PPF1	0	2.84937E-04			

13	MTD4D	ODUM	0	1.61161E-05				
13	MTD6A	U5F4	0	1.42865E-03FU6B	0	5.88755E-05U8F4	0	7.00765E-03
13	MTD6A	FP9B	0	1.12775E-06FP0B	0	1.79923E-07FP1B	0	8.76704E-06
13	MTD6A	FP2B	0	1.93338E-06FXEB	0	1.16280E-08FI5B	0	2.16843E-08
13	MTD6A	FPMB	0	2.93227E-08FSMB	0	1.20223E-07PPF1	0	2.95675E-04
13	MTD6A	ODUM	0	1.67983E-05				
13	MTD6B	U5F4	0	1.29228E-03FU6B	0	8.45271E-05U8F4	0	6.98957E-03
13	MTD6B	FP9B	0	1.53046E-06FP0B	0	3.49917E-07FP1B	0	1.27058E-05
13	MTD6B	FP2B	0	4.44033E-06FXEB	0	1.21885E-08FI5B	0	2.98248E-08
13	MTD6B	FPMB	0	4.04701E-08FSMB	0	1.10501E-07PPF1	0	4.18498E-04
13	MTD6B	ODUM	0	2.61836E-05				
13	MTD6C	U5F4	0	1.29013E-03FU6B	0	8.49374E-05U8F4	0	6.98957E-03
13	MTD6C	FP9B	0	1.53505E-06FP0B	0	3.52705E-07FP1B	0	1.27629E-05
13	MTD6C	FP2B	0	4.48978E-06FXEB	0	1.21892E-08FI5B	0	2.99451E-08
13	MTD6C	FPMB	0	4.06363E-08FSMB	0	1.10341E-07PPF1	0	4.20487E-04
13	MTD6C	ODUM	0	2.63623E-05				
13	MTD6D	U5F4	0	1.42211E-03FU6B	0	6.01043E-05U8F4	0	7.00765E-03
13	MTD6D	FP9B	0	1.14604E-06FP0B	0	1.86474E-07FP1B	0	8.97288E-06
13	MTD6D	FP2B	0	2.03004E-06FXEB	0	1.16690E-08FI5B	0	2.20195E-08
13	MTD6D	FPMB	0	2.97809E-08FSMB	0	1.19854E-07PPF1	0	3.01634E-04
13	MTD6D	ODUM	0	1.71801E-05				
13	MTD7A	U5F4	0	1.59159E-03FU6B	0	2.93602E-05U8F4	0	7.02573E-03
13	MTD7A	FP9B	0	6.10960E-07FP0B	0	4.78303E-08FP1B	0	4.80911E-06
13	MTD7A	FP2B	0	4.83150E-07FXEB	0	1.18581E-08FI5B	0	1.95612E-08
13	MTD7A	FPMB	0	2.63860E-08FSMB	0	1.32357E-07PPF1	0	1.48547E-04
13	MTD7A	ODUM	0	7.10570E-06				
13	MTD7B	U5F4	0	1.51857E-03FU6B	0	4.29541E-05U8F4	0	7.01739E-03
13	MTD7B	FP9B	0	8.89152E-07FP0B	0	1.01627E-07FP1B	0	7.65925E-06
13	MTD7B	FP2B	0	1.17615E-06FXEB	0	1.32691E-08FI5B	0	2.79694E-08
13	MTD7B	FPMB	0	3.78067E-08FSMB	0	1.27643E-07PPF1	0	2.15243E-04
13	MTD7B	ODUM	0	9.98957E-06				
13	MTD7C	U5F4	0	1.51739E-03FU6B	0	4.31822E-05U8F4	0	7.01669E-03
13	MTD7C	FP9B	0	8.92907E-07FP0B	0	1.02608E-07FP1B	0	7.70723E-06
13	MTD7C	FP2B	0	1.19082E-06FXEB	0	1.32844E-08FI5B	0	2.81092E-08
13	MTD7C	FPMB	0	3.79972E-08FSMB	0	1.27559E-07PPF1	0	2.16377E-04
13	MTD7C	ODUM	0	1.00410E-05				
13	MTD7D	U5F4	0	1.58776E-03FU6B	0	3.00730E-05U8F4	0	7.02503E-03
13	MTD7D	FP9B	0	6.23519E-07FP0B	0	4.99826E-08FP1B	0	4.96106E-06
13	MTD7D	FP2B	0	5.11627E-07FXEB	0	1.19583E-08FI5B	0	2.00014E-08
13	MTD7D	FPMB	0	2.69833E-08FSMB	0	1.32197E-07PPF1	0	1.52079E-04
13	MTD7D	ODUM	0	7.25174E-06				
13	MTC3A	U5F4	0	1.67622E-03FU6B	0	1.39548E-05U8F4	0	7.03477E-03
13	MTC3A	FP9B	0	2.91113E-07FP0B	0	1.11439E-08FP1B	0	2.34882E-06
13	MTC3A	FP2B	0	1.07566E-07FXEB	0	1.15271E-08FI5B	0	1.75772E-08
13	MTC3A	FPMB	0	2.36725E-08FSMB	0	1.36523E-07PPF1	0	7.15577E-05
13	MTC3A	ODUM	0	3.11252E-06				
13	MTC3B	U5F4	0	1.63936E-03FU6B	0	2.06752E-05U8F4	0	7.03060E-03
13	MTC3B	FP9B	0	4.39235E-07FP0B	0	2.48693E-08FP1B	0	3.95960E-06
13	MTC3B	FP2B	0	2.73560E-07FXEB	0	1.33630E-08FI5B	0	2.57121E-08
13	MTC3B	FPMB	0	3.46725E-08FSMB	0	1.34993E-07PPF1	0	1.05181E-04
13	MTC3B	ODUM	0	4.20417E-06				
13	MTC3C	U5F4	0	1.63873E-03FU6B	0	2.07816E-05U8F4	0	7.03060E-03
13	MTC3C	FP9B	0	4.41280E-07FP0B	0	2.51154E-08FP1B	0	3.98616E-06
13	MTC3C	FP2B	0	2.76926E-07FXEB	0	1.33839E-08FI5B	0	2.58387E-08
13	MTC3C	FPMB	0	3.48442E-08FSMB	0	1.34958E-07PPF1	0	1.05723E-04
13	MTC3C	ODUM	0	4.22135E-06				
13	MTC3D	U5F4	0	1.67448E-03FU6B	0	1.42691E-05U8F4	0	7.03477E-03
13	MTC3D	FP9B	0	2.97156E-07FP0B	0	1.16273E-08FP1B	0	2.42225E-06
13	MTC3D	FP2B	0	1.13498E-07FXEB	0	1.16363E-08FI5B	0	1.79534E-08
13	MTC3D	FPMB	0	2.41808E-08FSMB	0	1.36586E-07PPF1	0	7.31363E-05
13	MTC3D	ODUM	0	3.16530E-06				
13	MTC4A	U5F4	0	1.59402E-03FU6B	0	2.87337E-05U8F4	0	7.02643E-03
13	MTC4A	FP9B	0	5.98846E-07FP0B	0	4.62357E-08FP1B	0	4.72510E-06
13	MTC4A	FP2B	0	4.59861E-07FXEB	0	1.19889E-08FI5B	0	2.02267E-08
13	MTC4A	FPMB	0	2.72809E-08FSMB	0	1.31592E-07PPF1	0	1.46134E-04
13	MTC4A	ODUM	0	6.97427E-06				
13	MTC4B	U5F4	0	1.52072E-03FU6B	0	4.22163E-05U8F4	0	7.01808E-03
13	MTC4B	FP9B	0	8.72323E-07FP0B	0	9.91933E-08FP1B	0	7.58762E-06
13	MTC4B	FP2B	0	1.13609E-06FXEB	0	1.33943E-08FI5B	0	2.91732E-08
13	MTC4B	FPMB	0	3.94305E-08FSMB	0	1.26843E-07PPF1	0	2.12816E-04
13	MTC4B	ODUM	0	9.81572E-06				
13	MTC4C	U5F4	0	1.51961E-03FU6B	0	4.24249E-05U8F4	0	7.01808E-03
13	MTC4C	FP9B	0	8.75869E-07FP0B	0	1.00090E-07FP1B	0	7.63213E-06
13	MTC4C	FP2B	0	1.14937E-06FXEB	0	1.34068E-08FI5B	0	2.93039E-08
13	MTC4C	FPMB	0	3.96092E-08FSMB	0	1.26759E-07PPF1	0	2.13860E-04
13	MTC4C	ODUM	0	9.86161E-06				
13	MTC4D	U5F4	0	1.59068E-03FU6B	0	2.93338E-05U8F4	0	7.02643E-03

13	MTC4D	FP9B	0	6.09854E-07	FP0B	0	4.80542E-08	FP1B	0	4.85334E-06		
13	MTC4D	FP2B	0	4.83220E-07	FXEB	0	1.20695E-08	FI5B	0	2.06001E-08		
13	MTC4D	FPMB	0	2.77879E-08	FMSB	0	1.31474E-07	PPF1	0	1.49117E-04		
13	MTC4D	ODUM	0	7.09666E-06								
13	MTC5A	U5F4	0	1.50494E-03	FU6B	0	4.46530E-05	U8F4	0	7.01739E-03	\$	C5A step9a 105 days
13	MTC5A	FP9B	0	8.66203E-07	FP0B	0	1.06919E-07	FP1B	0	7.08762E-06		
13	MTC5A	FP2B	0	1.12385E-06	FXEB	0	1.19910E-08	FI5B	0	2.20716E-08		
13	MTC5A	FPMB	0	2.98088E-08	FMSB	0	1.24875E-07	PPF1	0	2.26453E-04		
13	MTC5A	ODUM	0	1.17288E-05								
13	MTC5B	U5F4	0	1.39659E-03	FU6B	0	6.47191E-05	U8F4	0	7.00417E-03	\$	C5B step9a 105 days
13	MTC5B	FP9B	0	1.21293E-06	FP0B	0	2.17559E-07	FP1B	0	1.07385E-05		
13	MTC5B	FP2B	0	2.66266E-06	FXEB	0	1.28776E-08	FI5B	0	3.09193E-08		
13	MTC5B	FPMB	0	4.18776E-08	FMSB	0	1.17497E-07	PPF1	0	3.24576E-04		
13	MTC5B	ODUM	0	1.73296E-05								
13	MTC5C	U5F4	0	1.39492E-03	FU6B	0	6.50243E-05	U8F4	0	7.00417E-03	\$	C5C step9a 105 days
13	MTC5C	FP9B	0	1.21704E-06	FP0B	0	2.19367E-07	FP1B	0	1.07914E-05		
13	MTC5C	FP2B	0	2.69207E-06	FXEB	0	1.28825E-08	FI5B	0	3.10473E-08		
13	MTC5C	FPMB	0	4.20535E-08	FMSB	0	1.17371E-07	PPF1	0	3.26106E-04		
13	MTC5C	ODUM	0	1.74270E-05								
13	MTC5D	U5F4	0	1.50021E-03	FU6B	0	4.55271E-05	U8F4	0	7.01669E-03	\$	C5D step9a 105 days
13	MTC5D	FP9B	0	8.80389E-07	FP0B	0	1.10744E-07	FP1B	0	7.25382E-06		
13	MTC5D	FP2B	0	1.17656E-06	FXEB	0	1.20466E-08	FI5B	0	2.24277E-08		
13	MTC5D	FPMB	0	3.02935E-08	FMSB	0	1.24652E-07	PPF1	0	2.30751E-04		
13	MTC5D	ODUM	0	1.19492E-05								
13	MTC6A	U5F4	0	1.50967E-03	FU6B	0	4.40675E-05	U8F4	0	7.01739E-03	\$	C6A step9a 105 days
13	MTC6A	FP9B	0	8.77469E-07	FP0B	0	1.04889E-07	FP1B	0	6.89736E-06		
13	MTC6A	FP2B	0	1.08853E-06	FXEB	0	1.16801E-08	FI5B	0	2.04645E-08		
13	MTC6A	FPMB	0	2.76363E-08	FMSB	0	1.25348E-07	PPF1	0	2.22594E-04		
13	MTC6A	ODUM	0	1.15932E-05								
13	MTC6B	U5F4	0	1.40229E-03	FU6B	0	6.40362E-05	U8F4	0	7.00417E-03	\$	C6B step9a 105 days
13	MTC6B	FP9B	0	1.23171E-06	FP0B	0	2.14847E-07	FP1B	0	1.05299E-05		
13	MTC6B	FP2B	0	2.59152E-06	FXEB	0	1.26871E-08	FI5B	0	2.90716E-08		
13	MTC6B	FPMB	0	3.93700E-08	FMSB	0	1.17969E-07	PPF1	0	3.19944E-04		
13	MTC6B	ODUM	0	1.71120E-05								
13	MTC6C	U5F4	0	1.40056E-03	FU6B	0	6.43588E-05	U8F4	0	7.00417E-03	\$	C6C step9a 105 days
13	MTC6C	FP9B	0	1.23616E-06	FP0B	0	2.16739E-07	FP1B	0	1.05862E-05		
13	MTC6C	FP2B	0	2.62197E-06	FXEB	0	1.26933E-08	FI5B	0	2.91975E-08		
13	MTC6C	FPMB	0	3.95431E-08	FMSB	0	1.17844E-07	PPF1	0	3.21544E-04		
13	MTC6C	ODUM	0	1.72135E-05								
13	MTC6D	U5F4	0	1.50424E-03	FU6B	0	4.50605E-05	U8F4	0	7.01669E-03	\$	C6D step9a 105 days
13	MTC6D	FP9B	0	8.93324E-07	FP0B	0	1.09152E-07	FP1B	0	7.08693E-06		
13	MTC6D	FP2B	0	1.14791E-06	FXEB	0	1.17455E-08	FI5B	0	2.08414E-08		
13	MTC6D	FPMB	0	2.81502E-08	FMSB	0	1.25070E-07	PPF1	0	2.27483E-04		
13	MTC6D	ODUM	0	1.18421E-05								
13	MTC7A	U5F4	0	1.67017E-03	FU6B	0	1.50869E-05	U8F4	0	7.03407E-03	\$	C7A step9a 105 days
13	MTC7A	FP9B	0	3.12399E-07	FP0B	0	1.29200E-08	FP1B	0	2.60925E-06		
13	MTC7A	FP2B	0	1.29458E-07	FXEB	0	1.19033E-08	FI5B	0	1.89089E-08		
13	MTC7A	FPMB	0	2.54729E-08	FMSB	0	1.36460E-07	PPF1	0	7.71488E-05		
13	MTC7A	ODUM	0	3.29951E-06								
13	MTC7B	U5F4	0	1.63060E-03	FU6B	0	2.23248E-05	U8F4	0	7.02990E-03	\$	C7B step9a 105 days
13	MTC7B	FP9B	0	4.69103E-07	FP0B	0	2.86752E-08	FP1B	0	4.35070E-06		
13	MTC7B	FP2B	0	3.25800E-07	FXEB	0	1.36794E-08	FI5B	0	2.76092E-08		
13	MTC7B	FPMB	0	3.72441E-08	FMSB	0	1.34548E-07	PPF1	0	1.13241E-04		
13	MTC7B	ODUM	0	4.46648E-06								
13	MTC7C	U5F4	0	1.62990E-03	FU6B	0	2.24451E-05	U8F4	0	7.02990E-03	\$	C7C step9a 105 days
13	MTC7C	FP9B	0	4.71370E-07	FP0B	0	2.89708E-08	FP1B	0	4.38074E-06		
13	MTC7C	FP2B	0	3.29972E-07	FXEB	0	1.37003E-08	FI5B	0	2.77517E-08		
13	MTC7C	FPMB	0	3.74374E-08	FMSB	0	1.34506E-07	PPF1	0	1.13853E-04		
13	MTC7C	ODUM	0	4.48588E-06								
13	MTC7D	U5F4	0	1.66808E-03	FU6B	0	1.54631E-05	U8F4	0	7.03407E-03	\$	C7D step9a 105 days
13	MTC7D	FP9B	0	3.19318E-07	FP0B	0	1.35306E-08	FP1B	0	2.69847E-06		
13	MTC7D	FP2B	0	1.37344E-07	FXEB	0	1.20216E-08	FI5B	0	1.93588E-08		
13	MTC7D	FPMB	0	2.60807E-08	FMSB	0	1.36481E-07	PPF1	0	7.90403E-05		
13	MTC7D	ODUM	0	3.36175E-06								
01	water in Be, G and Radiation Basket different from Ken's setup 9/98											
13	FALSI	ALF4	0	3.88984E-02	SIF4	0	5.94365E-03					
13	H2OBE	BE-H	0	6.68610E-02	BE-O	0	3.34305E-02					
13	H2OG	G-H	0	6.68610E-02	G-O	0	3.34305E-02					
13	H2ORB	RB-H	0	6.68610E-02	RB-O	0	3.34305E-02					
13	H2OR	HH2O	0	6.68610E-02	OH2O	0	3.34305E-02					
01	different Graphite density 9/98											
01	13	GRAF	GRAF	0	8.52340E-02							
13	GRAF	GRAF	0	8.02300E-02								
13	H2OS	HS4	0	6.68610E-02	OS4	0	3.34305E-02					
13	H2OCR	CRH	0	6.68610E-02	CRO	0	3.34305E-02					
13	ALS	ALS4	0	6.02669E-02	B10S	0	2.98636E-07	B11S	0	1.21115E-06		

13	ALCR	CRAL	0	6.02669E-02B10S	0	2.98636E-07B11S	0	1.21115E-06
13	ALB	ALB	0	6.02669E-02B10B	0	2.98636E-07B11B	0	1.21115E-06
13	ALBX	ALB	0	5.60774E-02SIB	0	4.06809E-03MGB	0	2.01411E-04
13	LEAD	PBS	0	3.29620E-02				
13	BE	BET	0	1.23640E-01				
13	ALP	ALT	0	6.02669E-02				
14	FE3A	MTE3A	0.14380		CLAD	0.21570	MOD	0.64050
14	FE3A	FALSI	0.14380					
14	FE3B	MTE3B	0.14380		CLAD	0.21570	MOD	0.64050
14	FE3B	FALSI	0.14380					
14	FE3C	MTE3C	0.14380		CLAD	0.21570	MOD	0.64050
14	FE3C	FALSI	0.14380					
14	FE3D	MTE3D	0.14380		CLAD	0.21570	MOD	0.64050
14	FE3D	FALSI	0.14380					
14	FE7A	MTE7A	0.14380		CLAD	0.21570	MOD	0.64050
14	FE7A	FALSI	0.14380					
14	FE7B	MTE7B	0.14380		CLAD	0.21570	MOD	0.64050
14	FE7B	FALSI	0.14380					
14	FE7C	MTE7C	0.14380		CLAD	0.21570	MOD	0.64050
14	FE7C	FALSI	0.14380					
14	FE7D	MTE7D	0.14380		CLAD	0.21570	MOD	0.64050
14	FE7D	FALSI	0.14380					
14	FC3A	MTC3A	0.14380		CLAD	0.21570	MOD	0.64050
14	FC3A	FALSI	0.14380					
14	FC3B	MTC3B	0.14380		CLAD	0.21570	MOD	0.64050
14	FC3B	FALSI	0.14380					
14	FC3C	MTC3C	0.14380		CLAD	0.21570	MOD	0.64050
14	FC3C	FALSI	0.14380					
14	FC3D	MTC3D	0.14380		CLAD	0.21570	MOD	0.64050
14	FC3D	FALSI	0.14380					
14	FC7A	MTC7A	0.14380		CLAD	0.21570	MOD	0.64050
14	FC7A	FALSI	0.14380					
14	FC7B	MTC7B	0.14380		CLAD	0.21570	MOD	0.64050
14	FC7B	FALSI	0.14380					
14	FC7C	MTC7C	0.14380		CLAD	0.21570	MOD	0.64050
14	FC7C	FALSI	0.14380					
14	FC7D	MTC7D	0.14380		CLAD	0.21570	MOD	0.64050
14	FC7D	FALSI	0.14380					
14	FE4A	MTE4A	0.14380		CLAD	0.21570	MOD	0.64050
14	FE4A	FALSI	0.14380					
14	FE4B	MTE4B	0.14380		CLAD	0.21570	MOD	0.64050
14	FE4B	FALSI	0.14380					
14	FE4C	MTE4C	0.14380		CLAD	0.21570	MOD	0.64050
14	FE4C	FALSI	0.14380					
14	FE4D	MTE4D	0.14380		CLAD	0.21570	MOD	0.64050
14	FE4D	FALSI	0.14380					
14	FE5A	MTE5A	0.14380		CLAD	0.21570	MOD	0.64050
14	FE5A	FALSI	0.14380					
14	FE5B	MTE5B	0.14380		CLAD	0.21570	MOD	0.64050
14	FE5B	FALSI	0.14380					
14	FE5C	MTE5C	0.14380		CLAD	0.21570	MOD	0.64050
14	FE5C	FALSI	0.14380					
14	FE5D	MTE5D	0.14380		CLAD	0.21570	MOD	0.64050
14	FE5D	FALSI	0.14380					
14	FE6A	MTE6A	0.14380		CLAD	0.21570	MOD	0.64050
14	FE6A	FALSI	0.14380					
14	FE6B	MTE6B	0.14380		CLAD	0.21570	MOD	0.64050
14	FE6B	FALSI	0.14380					
14	FE6C	MTE6C	0.14380		CLAD	0.21570	MOD	0.64050
14	FE6C	FALSI	0.14380					
14	FE6D	MTE6D	0.14380		CLAD	0.21570	MOD	0.64050
14	FE6D	FALSI	0.14380					
14	FD3A	MTD3A	0.14380		CLAD	0.21570	MOD	0.64050
14	FD3A	FALSI	0.14380					
14	FD3B	MTD3B	0.14380		CLAD	0.21570	MOD	0.64050
14	FD3B	FALSI	0.14380					
14	FD3C	MTD3C	0.14380		CLAD	0.21570	MOD	0.64050
14	FD3C	FALSI	0.14380					
14	FD3D	MTD3D	0.14380		CLAD	0.21570	MOD	0.64050
14	FD3D	FALSI	0.14380					
14	FD4A	MTD4A	0.14380		CLAD	0.21570	MOD	0.64050
14	FD4A	FALSI	0.14380					
14	FD4B	MTD4B	0.14380		CLAD	0.21570	MOD	0.64050
14	FD4B	FALSI	0.14380					
14	FD4C	MTD4C	0.14380		CLAD	0.21570	MOD	0.64050

14	FD4C	FALSI	0.14380				
14	FD4D	MTD4D	0.14380	CLAD	0.21570	MOD	0.64050
14	FD4D	FALSI	0.14380				
14	FD6A	MTD6A	0.14380	CLAD	0.21570	MOD	0.64050
14	FD6A	FALSI	0.14380				
14	FD6B	MTD6B	0.14380	CLAD	0.21570	MOD	0.64050
14	FD6B	FALSI	0.14380				
14	FD6C	MTD6C	0.14380	CLAD	0.21570	MOD	0.64050
14	FD6C	FALSI	0.14380				
14	FD6D	MTD6D	0.14380	CLAD	0.21570	MOD	0.64050
14	FD6D	FALSI	0.14380				
14	FD7A	MTD7A	0.14380	CLAD	0.21570	MOD	0.64050
14	FD7A	FALSI	0.14380				
14	FD7B	MTD7B	0.14380	CLAD	0.21570	MOD	0.64050
14	FD7B	FALSI	0.14380				
14	FD7C	MTD7C	0.14380	CLAD	0.21570	MOD	0.64050
14	FD7C	FALSI	0.14380				
14	FD7D	MTD7D	0.14380	CLAD	0.21570	MOD	0.64050
14	FD7D	FALSI	0.14380				
14	FC4A	MTC4A	0.14380	CLAD	0.21570	MOD	0.64050
14	FC4A	FALSI	0.14380				
14	FC4B	MTC4B	0.14380	CLAD	0.21570	MOD	0.64050
14	FC4B	FALSI	0.14380				
14	FC4C	MTC4C	0.14380	CLAD	0.21570	MOD	0.64050
14	FC4C	FALSI	0.14380				
14	FC4D	MTC4D	0.14380	CLAD	0.21570	MOD	0.64050
14	FC4D	FALSI	0.14380				
14	FC5A	MTC5A	0.14380	CLAD	0.21570	MOD	0.64050
14	FC5A	FALSI	0.14380				
14	FC5B	MTC5B	0.14380	CLAD	0.21570	MOD	0.64050
14	FC5B	FALSI	0.14380				
14	FC5C	MTC5C	0.14380	CLAD	0.21570	MOD	0.64050
14	FC5C	FALSI	0.14380				
14	FC5D	MTC5D	0.14380	CLAD	0.21570	MOD	0.64050
14	FC5D	FALSI	0.14380				
14	FC6A	MTC6A	0.14380	CLAD	0.21570	MOD	0.64050
14	FC6A	FALSI	0.14380				
14	FC6B	MTC6B	0.14380	CLAD	0.21570	MOD	0.64050
14	FC6B	FALSI	0.14380				
14	FC6C	MTC6C	0.14380	CLAD	0.21570	MOD	0.64050
14	FC6C	FALSI	0.14380				
14	FC6D	MTC6D	0.14380	CLAD	0.21570	MOD	0.64050
14	FC6D	FALSI	0.14380				
14	ME3A	FE3A	1.00000				
14	ME3B	FE3B	1.00000				
14	ME3C	FE3C	1.00000				
14	ME3D	FE3D	1.00000				
14	ME7A	FE7A	1.00000				
14	ME7B	FE7B	1.00000				
14	ME7C	FE7C	1.00000				
14	ME7D	FE7D	1.00000				
14	MC3A	FC3A	1.00000				
14	MC3B	FC3B	1.00000				
14	MC3C	FC3C	1.00000				
14	MC3D	FC3D	1.00000				
14	MC7A	FC7A	1.00000				
14	MC7B	FC7B	1.00000				
14	MC7C	FC7C	1.00000				
14	MC7D	FC7D	1.00000				
14	ME4A	FE4A	1.00000				
14	ME4B	FE4B	1.00000				
14	ME4C	FE4C	1.00000				
14	ME4D	FE4D	1.00000				
14	ME5A	FE5A	1.00000				
14	ME5B	FE5B	1.00000				
14	ME5C	FE5C	1.00000				
14	ME5D	FE5D	1.00000				
14	ME6A	FE6A	1.00000				
14	ME6B	FE6B	1.00000				
14	ME6C	FE6C	1.00000				
14	ME6D	FE6D	1.00000				
14	MD3A	FD3A	1.00000				
14	MD3B	FD3B	1.00000				
14	MD3C	FD3C	1.00000				
14	MD3D	FD3D	1.00000				
14	MD4A	FD4A	1.00000				
14	MD4B	FD4B	1.00000				
14	MD4C	FD4C	1.00000				
14	MD4D	FD4D	1.00000				

14	MD6A	FD6A	1.00000						
14	MD6B	FD6B	1.00000						
14	MD6C	FD6C	1.00000						
14	MD6D	FD6D	1.00000						
14	MD7A	FD7A	1.00000						
14	MD7B	FD7B	1.00000						
14	MD7C	FD7C	1.00000						
14	MD7D	FD7D	1.00000						
14	MC4A	FC4A	1.00000						
14	MC4B	FC4B	1.00000						
14	MC4C	FC4C	1.00000						
14	MC4D	FC4D	1.00000						
14	MC5A	FC5A	1.00000						
14	MC5B	FC5B	1.00000						
14	MC5C	FC5C	1.00000						
14	MC5D	FC5D	1.00000						
14	MC6A	FC6A	1.00000						
14	MC6B	FC6B	1.00000						
14	MC6C	FC6C	1.00000						
14	MC6D	FC6D	1.00000						
01	Be block, Graphite block, and Be plug composition are different 9/18								
01	14	BEBLK	H2OBE	0.04178	BE	0.95822			
01	14	BETRP	H2OBE	0.03873	BE	0.96127			
01	14	REFGR	H2OG	0.14165	ALB	0.07113	GRAF	0.78722	
14		BEBLK	H2OBE	0.04620	BE	0.95380			
14		BETPI	H2OBE	0.08942	BE	0.91058			
14		BETPO	H2OBE	0.02478	BE	0.97522			
14		REFGR	H2OG	0.07348	ALB	0.03922	GRAF	0.88730	
01	sideplate composition is different 9/98								
01	14	SIDES	H2OS	0.32360	ALS	0.67640			
14		SIDES	H2OS	0.29235	ALS	0.70765			
14		AXH2O	H2ORB	0.77100	ALB	0.05315	ALBX	0.17585	
14		CNTL	H2OS	0.76496	ALS	0.23504			
01	Reg rod out composition is different 9/98								
01	14	REGO	H2OS	0.68347	ALS	0.31653			
14		REGO	H2OCR	0.84580	ALCR	0.15420			
14		REGI1	H2OCR	0.16000	ALCR	0.84000			
14		REGI2	H2OCR	0.91000	ALCR	0.09000			
14		ROD	CRSS	0 1.81655E-02	MNSS	0 1.44994E-03	FESS	0 5.75879E-02	
14		ROD	NISS	0 7.81564E-03					
01	CNTL0 use detail CR xs for water, composition same 9/98								
14		CNTLO	H2OCR	0.76496	ALCR	0.23504			
14		CNTLI	H2OS	0.53238	ALS	0.46762			
14		BLADE	BL0C	0 7.92800E-03	B11C	0 3.21530E-02	C12C	0 1.00200E-02	
14		BLADE	ALC	0 3.81090E-02					
14		POSTS	H2ORB	0.50	ALB	0.50			
14		BLOK1	H2ORB	0.04316	ALS	0.95684			
14		BLOK2	H2ORB	0.57127	ALS	0.42873			
14		BLOK3	H2ORB	0.01065	BE	0.98935			
01	plug not used 14 PLUG ALP 1.0								
14		GBOX	H2ORB	0.37264	ALB	0.62726			
14		GRID	H2ORB	0.60	ALB	0.40			
14		REFH2OH2OR		1.0					
14		GUIDE	ALCR	1.0					
14		BOX	ALB	1.0					
14		SHIELDLEAD		1.0					
14		THERM	GRAF	1.0					
15		SIDES	S1	S2	S3	S4	S5	S6	
15		REFH2OH2ORFOH2ORFIFC			RB3	RB4	RB5	CIC	
15		BETPO	TRAP						
15		BETPI	HOLE						
15		REGO	REGOUT						
15		REGI1	REGIN1						
15		REGI2	REGIN2						
15		ROD	ROD1						
01	removed RBBL2S & RBBL2E, replace with G-E9								
15		BLOK1	RBBL3SRBBL4SRBBL5S						
15		BLOK2	RBBL3ERBBL4ERBBL5E						
15		BEBLK	BEF5A	BEF6A	BEEC8	BE-E2			
15		BEBLK	BE-C2	BE-F9					
15		GRID	GRID						
15		AXH2O	AXREFTAXREFB						
15		GUIDE	G1	G2	G3	G4	G5	G6	
15		CNTLO	CNTLI0CNTL20CNTL30CNTL40						
15		CNTLI	CNTLI1CNTL21CNTL31CNTL41						
15		BLADE	BLADE1BLADE2BLADE3BLADE4						
15		REFGR	GRAF1	GRAF5	GRAF6	GRAG1	GRAG2		
15		REFGR	G-E9						
15		GBOX	GSBOX						
15		SHIELDSHIELD							
15		THERM	TC1	TC2					

15 POSTS POST3 POST4 POST1 POST2  
15 BOX GBOX TCB1 TCB2  
1 move E4 to D4, E5  
15 ME4A E5A  
15 ME4B E5B  
15 ME4C E5C  
15 ME4D E5D

Take E5 out  
15 ME5A D4A  
15 ME5B D4B  
15 ME5C D4C  
15 ME5D D4D

2 MOVE E6 TO E5, D6  
15 ME6A D6A  
15 ME6B D6B  
15 ME6C D6C  
15 ME6D D6D

3 MOVE D3 TO E4  
15 MD3A E4A  
15 MD3B E4B  
15 MD3C E4C  
15 MD3D E4D

TAKE D4 OUT  
15 MD4A D4A  
15 MD4B D4B  
15 MD4C D4C  
15 MD4D D4D

TAKE D6 OUT  
15 MD6A D6A  
15 MD6B D6B  
15 MD6C D6C  
15 MD6D D6D

4 MOVE D7 TO C6  
15 MD7A D7A  
15 MD7B D7B  
15 MD7C D7C  
15 MD7D D7D  
15 MD7A C6A  
15 MD7B C6B  
15 MD7C C6C  
15 MD7D C6D

5 Move C4 to D4  
15 MC4A D4A  
15 MC4B D4B  
15 MC4C D4C  
15 MC4D D4D

TAKE C5 OUT  
15 MC5A C5A  
15 MC5B C5B  
15 MC5C C5C  
15 MC5D C5D

6 MOVE C6 TO D6, C5  
15 MC6A C5A  
15 MC6B C5B  
15 MC6C C5C  
15 MC6D C5D

7 MOVE E7 TO E6  
15 ME7A E6A  
15 ME7B E6B  
15 ME7C E6C  
15 ME7D E6D

8 MOVE C3 TO C4  
15 MC3A C4A  
15 MC3B C4B  
15 MC3C C4C  
15 MC3D C4D

9 MOVE C7 TO D7  
15 MC7A D7A  
15 MC7B D7B

15 MC7C D7C  
15 MC7D D7D

10 MOVE E3 TO D3

15 ME3A D3A  
15 ME3B D3B  
15 ME3C D3C  
15 ME3D D3D

34	BLADE	-4.11428E-01	3	2.57877E+00	4
34	BLADE	9.15215E+01	5	2.02441E+03	6
34	BLADE	4.19631E+05	7		
35	ADJB	0.0 .44189	0.0 .44189	0.0 .44189	3
35	ADJB	0.0 .10218	0.0 .10218	0.0 .10218	4
35	ADJB	0.0 .08354	0.0 .08354	0.0 .08354	5
35	ADJB	0.0 .07663	0.0 .07663	0.0 .07663	6
35	ADJB	0.0 .07598	0.0 .07598	0.0 .07598	7
36	ADJB	BLADE			

DATASET=A.BURN

01	RINSC	LEU					
	core3+4	new fuel, 2MW	100 days	rundown			
02	0280000	0	0.001	1.000	1.0000	1	1
03	0	0.0	0.0	7.00	-1.000	7	0
09	U235	1U236					
09	U235	2XE135	2.4200-03	PM149	1.0666-02		
09	U235	2I135	6.2966-02	ETFP	1.000		
09	U235	5U234					
09	U236	1DUMP					
09	U236	2XE135	1.5847-03	PM149	1.3691-02		
09	U236	2I135	5.6307-02	ETFP	1.000		
09	U236	5U235					
09	U238	1PU239					
09	U238	2XE135	2.8000-04	PM149	1.6100-02		
09	U238	2I135	6.8349-02	ETFP	1.000		
09	U238	5DUMP					
09	PU239	1PU240					
09	PU239	2XE135	1.1524-02	PM149	1.2390-02		
09	PU239	2I135	6.4494-02	ETFP	1.000		
09	PU239	5DUMP					
09	PU239	8U235					
09	PU240	1PU241					
09	PU240	2XE135	6.9843-03	PM149	1.3690-02		
09	PU240	2I135	6.7476-02	ETFP	1.000		
09	PU240	8U236					
09	PU241	1PU242					
09	PU241	2XE135	2.3140-03	PM149	1.5240-02		
09	PU241	2I135	7.0698-02	ETFP	1.000		
09	PU241	8DUMP					
09	PU242	1DUMP					
09	PU242	2XE135	2.6448-03	PM149	1.6152-02		
09	PU242	2I135	6.9001-02	ETFP	1.000		
09	PU242	5PU241					
09	PU242	8U238					
09	XE135	6DUMP					
09	XE135	1DUMP					
09	I135	1DUMP					
09	I135	6XE135					
09	PM149	6SM149					
09	SM149	1DUMP					
09	ETFP	1DUMP					
09	DUMP	0					
10	U235	U5F4	0				
10	U236	FU6B	0				
10	U238	U8F4	0				
10	PU239	FP9B	0				
10	PU240	FP0B	0				
10	PU241	FP1B	0				
10	PU242	FP2B	0				
10	XE135	FXEB	0				
10	PM149	FPMB	0				
10	I135	FI5B	0				
10	SM149	FSMB	0				
10	ETFP	PFP1	0				
10	DUMP	ODUM	0				
24	U235	1	235.04				
24	U236	0	236.04				
24	U238	0	238.05				
24	PU239	1	239.05				
24	PU240	0	240.05				
24	PU241	1	241.06				
24	PU242	0	242.06				

24	XE135	0	134.90
24	I135	0	134.90
24	PM149	0	148.92
24	SM149	0	148.92
24	ETFP	0	100.00
24	DUMP	0	100.00
25	PU239	8U235	9.110-13
25	PU240	8U236	3.348-12
25	PU241	6DUMP	1.6633-9
25	PU241	8DUMP	1.665-12
25	PU242	8U238	5.842-14
25	XE135	6DUMP	2.0930-5
25	PM149	6SM149	3.6260-6
25	I135	6XE135	2.8740-5

35	NFC3A	MNEW	FMC3A	1	1
35	NFC3B	MNEW	FMC3B	1	1
35	NFC3C	MNEW	FMC3C	1	1
35	NFC3D	MNEW	FMC3D	1	1
35	NFC7A	MNEW	FMC7A	1	1
35	NFC7B	MNEW	FMC7B	1	1
35	NFC7C	MNEW	FMC7C	1	1
35	NFC7D	MNEW	FMC7D	1	1
35	NFE3A	MNEW	FME3A	1	1
35	NFE3B	MNEW	FME3B	1	1
35	NFE3C	MNEW	FME3C	1	1
35	NFE3D	MNEW	FME3D	1	1
35	NFE7A	MNEW	FME7A	1	1
35	NFE7B	MNEW	FME7B	1	1
35	NFE7C	MNEW	FME7C	1	1
35	NFE7D	MNEW	FME7D	1	1

8 MOVE C3 TO C4

35	PAC3A	MC3A	FMC3A	1	1
35	PAC3B	MC3B	FMC3B	1	1
35	PAC3C	MC3C	FMC3C	1	1
35	PAC3D	MC3D	FMC3D	1	1
35	PAC3A	MC3A	FMC4A	1	1
35	PAC3B	MC3B	FMC4B	1	1
35	PAC3C	MC3C	FMC4C	1	1
35	PAC3D	MC3D	FMC4D	1	1

10 E3 TO D3

35	PAE3A	ME3A	FME3A	1	1
35	PAE3B	ME3B	FME3B	1	1
35	PAE3C	ME3C	FME3C	1	1
35	PAE3D	ME3D	FME3D	1	1
35	PAE3A	ME3A	FMD3A	1	1
35	PAE3B	ME3B	FMD3B	1	1
35	PAE3C	ME3C	FMD3C	1	1
35	PAE3D	ME3D	FMD3D	1	1

7 E7 TO E6

35	PAE7A	ME7A	FME7A	1	1
35	PAE7B	ME7B	FME7B	1	1
35	PAE7C	ME7C	FME7C	1	1
35	PAE7D	ME7D	FME7D	1	1
35	PAE7A	ME7A	FME6A	1	1
35	PAE7B	ME7B	FME6B	1	1
35	PAE7C	ME7C	FME6C	1	1
35	PAE7D	ME7D	FME6D	1	1

1 E4 moved to D4, E5

35	PAE4A	ME4A	FME5A	1	1
35	PAE4B	ME4B	FME5B	1	1
35	PAE4C	ME4C	FME5C	1	1
35	PAE4D	ME4D	FME5D	1	1

Remove E5

35	PAE5A	ME5A	FMD4A	1	1
35	PAE5B	ME5B	FMD4B	1	1
35	PAE5C	ME5C	FMD4C	1	1
35	PAE5D	ME5D	FMD4D	1	1

2 E6 to E5, D6

35	PAE6A	ME6A	FMD6A	1	1
35	PAE6B	ME6B	FMD6B	1	1
35	PAE6C	ME6C	FMD6C	1	1
35	PAE6D	ME6D	FMD6D	1	1

3 D3 to E4

35	PAD3A	MD3A	FMD3A	1	1
35	PAD3B	MD3B	FMD3B	1	1
35	PAD3C	MD3C	FMD3C	1	1
35	PAD3D	MD3D	FMD3D	1	1
35	PAD3A	MD3A	FME4A	1	1
35	PAD3B	MD3B	FME4B	1	1
35	PAD3C	MD3C	FME4C	1	1
35	PAD3D	MD3D	FME4D	1	1

REMOVE D4

35	PAD4A	MD4A	FMD4A	1	1
35	PAD4B	MD4B	FMD4B	1	1
35	PAD4C	MD4C	FMD4C	1	1
35	PAD4D	MD4D	FMD4D	1	1

REMOVE D6

35	PAD6A	MD6A	FMD6A	1	1
35	PAD6B	MD6B	FMD6B	1	1
35	PAD6C	MD6C	FMD6C	1	1
35	PAD6D	MD6D	FMD6D	1	1

4 D7 to C6

35	PAD7A	MD7A	FMD7A	1	1
35	PAD7B	MD7B	FMD7B	1	1
35	PAD7C	MD7C	FMD7C	1	1
35	PAD7D	MD7D	FMD7D	1	1
35	PAD7A	MD7A	FMC6A	1	1
35	PAD7B	MD7B	FMC6B	1	1
35	PAD7C	MD7C	FMC6C	1	1
35	PAD7D	MD7D	FMC6D	1	1

5 C4 to D4

35	PAC4A	MC4A	FMD4A	1	1
35	PAC4B	MC4B	FMD4B	1	1
35	PAC4C	MC4C	FMD4C	1	1
35	PAC4D	MC4D	FMD4D	1	1

REMOVE C5

35	PAC5A	MC5A	FMC5A	1	1
35	PAC5B	MC5B	FMC5B	1	1
35	PAC5C	MC5C	FMC5C	1	1
35	PAC5D	MC5D	FMC5D	1	1

6 C6 TO D6, C5

35	PAC6A	MC6A	FMC5A	1	1
35	PAC6B	MC6B	FMC5B	1	1
35	PAC6C	MC6C	FMC5C	1	1
35	PAC6D	MC6D	FMC5D	1	1

9 C7 TO D7

35	PAC7A	MC7A	FMC7A	1	1
35	PAC7B	MC7B	FMC7B	1	1
35	PAC7C	MC7C	FMC7C	1	1
35	PAC7D	MC7D	FMC7D	1	1
35	PAC7A	MC7A	FMD7A	1	1
35	PAC7B	MC7B	FMD7B	1	1
35	PAC7C	MC7C	FMD7C	1	1
35	PAC7D	MC7D	FMD7D	1	1

45	FME3A	E3A			
45	FME3B	E3B			
45	FME3C	E3C			
45	FME3D	E3D			
45	FME4A	E4A			
45	FME4B	E4B			
45	FME4C	E4C			
45	FME4D	E4D			
45	FME5A	E5A			
45	FME5B	E5B			
45	FME5C	E5C			
45	FME5D	E5D			
45	FME6A	E6A			
45	FME6B	E6B			
45	FME6C	E6C			
45	FME6D	E6D			
45	FME7A	E7A			
45	FME7B	E7B			
45	FME7C	E7C			
45	FME7D	E7D			
45	FMD3A	D3A			
45	FMD3B	D3B			
45	FMD3C	D3C			



