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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-7      5.0E-5      5.0E-5
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
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
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
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		

07	E5	E5A	E5B	E5C	E5D				
07	E6	E6A	E6B	E6C	E6D				
07	E7	E7A	E7B	E7C	E7D				
07	D3	D3A	D3B	D3C	D3D				
07	D4	D4A	D4B	D4C	D4D				
07	D6	D6A	D6B	D6C	D6D				
07	D7	D7A	D7B	D7C	D7D				
07	C3	C3A	C3B	C3C	C3D				
07	C4	C4A	C4B	C4C	C4D				
07	C5	C5A	C5B	C5C	C5D				
07	C6	C6A	C6B	C6C	C6D				
07	C7	C7A	C7B	C7C	C7D				
07	FUEL	E3A	E3B	E3C	E3D				
07	FUEL	E4A	E4B	E4C	E4D				
07	FUEL	E5A	E5B	E5C	E5D				
07	FUEL	E6A	E6B	E6C	E6D				
07	FUEL	E7A	E7B	E7C	E7D				
07	FUEL	D3A	D3B	D3C	D3D				
07	FUEL	D4A	D4B	D4C	D4D				
07	FUEL	D6A	D6B	D6C	D6D				
07	FUEL	D7A	D7B	D7C	D7D				
07	FUEL	C3A	C3B	C3C	C3D				
07	FUEL	C4A	C4B	C4C	C4D				
07	FUEL	C5A	C5B	C5C	C5D				
07	FUEL	C6A	C6B	C6C	C6D				
07	FUEL	C7A	C7B	C7C	C7D				
09		X	1	11.430000		1	13.970000	1	26.085000
09		X	1	26.352000		1	26.720000	1	26.773000
09		X	1	27.940000		1	34.545000	1	35.039000
09		X	1	41.823000		1	42.317000	1	43.263150
09		X	2	43.910850		1	44.857000	1	45.351000
09		X	1	45.701500		3	51.784500	1	52.135000
09		X	1	52.629000		1	53.123000	1	53.473500
09		X	1	53.816000		2	54.451000	1	54.686100
09		X	2	58.343900		1	58.579000	2	59.214000
09		X	1	59.556500		1	59.907000	1	60.401000
09		X	1	60.895000		1	61.245500	3	67.328500
09		X	1	67.679000		1	68.173000	1	69.119150
09		X	2	69.766850		1	70.713000	1	71.207000
09		X	1	77.991000		1	78.485000	1	85.090000
09		X	1	86.257000		1	86.310000	1	86.678000
09		X	1	86.945000		1	99.060000	1	101.600000
09		X	1	113.030000					
09		Y	1	26.987		1	29.527	3	49.847
09		Y	1	52.387		1	53.977	2	61.597
09		Y	1	63.187		1	63.822	1	64.457
09		Y	1	64.51		3	70.086	1	70.715
09		Y	1	72.282		1	73.46925	2	74.10425
09		Y	3	78.23175		2	78.86675		
09		Y	2	80.054		2	82.8145	1	85.0655
09		Y	2	87.826		2	90.5865	1	92.8375
09		Y	2	95.598		2	97.461	1	97.6551
09		Y	1	98.090		1	100.878	1	101.3130
09		Y	1	101.507					
09		Y	2	103.370		2	106.1305	1	108.3815
09		Y	2	111.142		2	113.9025	1	116.1535
09		Y	2	118.914					
09		Y	1	119.2697		3	126.33		

[illegible]

13	MTE6A	P2D5	0	3.36697E-07	FXEB	0	1.21467E-08	FI5B	0	2.10612E-08				
13	MTE6A	FPMB	0	2.84145E-08	FMSB	0	1.30876E-07	PPF1	0	1.55424E-04				
13	MTE6A	ODUM	0	7.35675E-06										
13	MTE6B	U5D5	0	1.50633E-03	U6D5	0	4.49026E-05	U8D5	0	7.01599E-03	\$	E6B	Doppler	T550
13	MTE6B	P9D5	0	9.15160E-07	P0D5	0	1.10688E-07	P1D5	0	8.13143E-06				
13	MTE6B	P2D5	0	1.31161E-06	FXEB	0	1.34791E-08	FI5B	0	3.03331E-08				
13	MTE6B	FPMB	0	4.10139E-08	FMSB	0	1.25821E-07	PPF1	0	2.25994E-04				
13	MTE6B	ODUM	0	1.04166E-05										
13	MTE6C	U5D5	0	1.50501E-03	U6D5	0	4.51328E-05	U8D5	0	7.01599E-03	\$	E6C	Doppler	T550
13	MTE6C	P9D5	0	9.18915E-07	P0D5	0	1.11725E-07	P1D5	0	8.17942E-06				
13	MTE6C	P2D5	0	1.32733E-06	FXEB	0	1.34910E-08	FI5B	0	3.04722E-08				
13	MTE6C	FPMB	0	4.12051E-08	FMSB	0	1.25730E-07	PPF1	0	2.27142E-04				
13	MTE6C	ODUM	0	1.04694E-05										
13	MTE6D	U5D5	0	1.58004E-03	U6D5	0	3.12914E-05	U8D5	0	7.02503E-03	\$	E6D	Doppler	T550
13	MTE6D	P9D5	0	6.43526E-07	P0D5	0	5.40688E-08	P1D5	0	5.26878E-06				
13	MTE6D	P2D5	0	5.65953E-07	FXEB	0	1.22281E-08	FI5B	0	2.14673E-08				
13	MTE6D	FPMB	0	2.89659E-08	FMSB	0	1.30730E-07	PPF1	0	1.58853E-04				
13	MTE6D	ODUM	0	7.49791E-06										
13	MTE7A	U5D5	0	1.66912E-03	U6D5	0	1.52684E-05	U8D5	0	7.03407E-03	\$	E7A	Doppler	T550
13	MTE7A	P9D5	0	3.15730E-07	P0D5	0	1.32135E-08	P1D5	0	2.65278E-06				
13	MTE7A	P2D5	0	1.33275E-07	FXEB	0	1.19624E-08	FI5B	0	1.91356E-08				
13	MTE7A	FPMB	0	2.57789E-08	FMSB	0	1.36419E-07	PPF1	0	7.80668E-05				
13	MTE7A	ODUM	0	3.32955E-06										
13	MTE7B	U5D5	0	1.62921E-03	U6D5	0	2.25800E-05	U8D5	0	7.02990E-03	\$	E7B	Doppler	T550
13	MTE7B	P9D5	0	4.74374E-07	P0D5	0	2.93275E-08	P1D5	0	4.41217E-06				
13	MTE7B	P2D5	0	3.34402E-07	FXEB	0	1.37281E-08	FI5B	0	2.79228E-08				
13	MTE7B	FPMB	0	3.76683E-08	FMSB	0	1.34471E-07	PPF1	0	1.14499E-04				
13	MTE7B	ODUM	0	4.50730E-06										
13	MTE7C	U5D5	0	1.62851E-03	U6D5	0	2.27024E-05	U8D5	0	7.02990E-03	\$	E7C	Doppler	T550
13	MTE7C	P9D5	0	4.76676E-07	P0D5	0	2.96314E-08	P1D5	0	4.44263E-06				
13	MTE7C	P2D5	0	3.38693E-07	FXEB	0	1.37490E-08	FI5B	0	2.80675E-08				
13	MTE7C	FPMB	0	3.78644E-08	FMSB	0	1.34423E-07	PPF1	0	1.15125E-04				
13	MTE7C	ODUM	0	4.52705E-06										
13	MTE7D	U5D5	0	1.66704E-03	U6D5	0	1.56495E-05	U8D5	0	7.03407E-03	\$	E7D	Doppler	T550
13	MTE7D	P9D5												

13	MTD6A	U5D5	0	1.42865E-03U6D5	0	5.88755E-05U8D5	0	7.00765E-03	\$	D6A	Doppler	T550
13	MTD6A	P9D5	0	1.12775E-06P0D5	0	1.79923E-07P1D5	0	8.76704E-06				
13	MTD6A	P2D5	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	U5D5	0	1.29228E-03U6D5	0	8.45271E-05U8D5	0	6.98957E-03	\$	D6B	Doppler	T550
13	MTD6B	P9D5	0	1.53046E-06P0D5	0	3.49917E-07P1D5	0	1.27058E-05				
13	MTD6B	P2D5	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	U5D5	0	1.29013E-03U6D5	0	8.49374E-05U8D5	0	6.98957E-03	\$	D6C	Doppler	T550
13	MTD6C	P9D5	0	1.53505E-06P0D5	0	3.52705E-07P1D5	0	1.27629E-05				
13	MTD6C	P2D5	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	U5D5	0	1.42211E-03U6D5	0	6.01043E-05U8D5	0	7.00765E-03	\$	D6D	Doppler	T550
13	MTD6D	P9D5	0	1.14604E-06P0D5	0	1.86474E-07P1D5	0	8.97288E-06				
13	MTD6D	P2D5	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	U5D5	0	1.59159E-03U6D5	0	2.93602E-05U8D5	0	7.02573E-03	\$	D7A	Doppler	T550
13	MTD7A	P9D5	0	6.10960E-07P0D5	0	4.78303E-08P1D5	0	4.80911E-06				
13	MTD7A	P2D5	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	U5D5	0	1.51857E-03U6D5	0	4.29541E-05U8D5	0	7.01739E-03	\$	D7B	Doppler	T550
13	MTD7B	P9D5	0	8.89152E-07P0D5	0	1.01627E-07P1D5	0	7.65925E-06				
13	MTD7B	P2D5	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	U5D5	0	1.51739E-03U6D5	0	4.31822E-05U8D5	0	7.01669E-03	\$	D7C	Doppler	T550
13	MTD7C	P9D5	0	8.92907E-07P0D5	0	1.02608E-07P1D5	0	7.70723E-06				
13	MTD7C	P2D5	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	U5D5	0	1.58776E-03U6D5	0	3.00730E-05U8D5	0	7.02503E-03	\$	D7D	Doppler	T550
13	MTD7D	P9D5	0	6.23519E-07P0D5	0	4.99826E-08P1D5	0	4.96106E-06				
13	MTD7D	P2D5	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	U5D5	0	1.67622E-03U6D5	0	1.39548E-05U8D5	0	7.03477E-03	\$	C3A	Doppler	T550
13	MTC3A	P9D5	0	2.91113E-07P0D5	0	1.11439E-08P1D5	0	2.34882E-06				
13	MTC3A	P2D5	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	U5D5	0	1.63936E-03U6D5	0	2.06752E-05U8D5	0	7.03060E-03	\$	C3B	Doppler	T550
13	MTC3B	P9D5	0	4.39235E-07P0D5	0	2.48693E-08P1D5	0	3.95960E-06				
13	MTC3B	P2D5	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	U5D5	0	1.63873E-03U6D5	0	2.07816E-05U8D5	0	7.03060E-03	\$	C3C	Doppler	T550
13	MTC3C	P9D5	0	4.41280E-07P0D5	0	2.51154E-08P1D5	0	3.98616E-06				
13	MTC3C	P2D5	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	U5D5	0	1.67448E-03U6D5	0	1.42691E-05U8D5	0	7.03477E-03	\$	C3D	Doppler	T550
13	MTC3D	P9D5	0	2.97156E-07P0D5	0	1.16273E-08P1D5	0	2.42225E-06				
13	MTC3D	P2D5	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	U5D5	0	1.59402E-03U6D5	0	2.87337E-05U8D5	0	7.02643E-03	\$	C4A	Doppler	T550
13	MTC4A	P9D5	0	5.98846E-07P0D5	0	4.62357E-08P1D5	0	4.72510E-06				
13	MTC4A	P2D5	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	U5D5	0	1.52072E-03U6D5	0	4.22163E-05U8D5	0	7.01808E-03	\$	C4B	Doppler	T550
13	MTC4B	P9D5	0	8.72323E-07P0D5	0	9.91933E-08P1D5	0	7.58762E-06				
13	MTC4B	P2D5	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	U5D5	0	1.51961E-03U6D5	0	4.24249E-05U8D5	0	7.01808E-03	\$	C4C	Doppler	T550
13	MTC4C	P9D5	0	8.75869E-07P0D5	0	1.00090E-07P1D5	0	7.63213E-06				
13	MTC4C	P2D5	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	U5D5	0	1.59068E-03U6D5	0	2.93338E-05U8D5	0	7.02643E-03	\$	C4D	Doppler	T550
13	MTC4D	P9D5	0	6.09854E-07P0D5	0	4.80542E-08P1D5	0	4.85334E-06				

13	MTC4D	P2D5	0	4.83220E-07	FXEB	0	1.20695E-08	FI5B	0	2.06001E-08			
13	MTC4D	FPMB	0	2.77879E-08	FSMB	0	1.31474E-07	PPF1	0	1.49117E-04			
13	MTC4D	ODUM	0	7.09666E-06									
13	MTC5A	U5D5	0	1.50494E-03	U6D5	0	4.46530E-05	U8D5	0	7.01739E-03	\$	C5A	Doppler T550
13	MTC5A	P9D5	0	8.66203E-07	P0D5	0	1.06919E-07	P1D5	0	7.08762E-06			
13	MTC5A	P2D5	0	1.12385E-06	FXEB	0	1.19910E-08	FI5B	0	2.20716E-08			
13	MTC5A	FPMB	0	2.98088E-08	FSMB	0	1.24875E-07	PPF1	0	2.26453E-04			
13	MTC5A	ODUM	0	1.17288E-05									
13	MTC5B	U5D5	0	1.39659E-03	U6D5	0	6.47191E-05	U8D5	0	7.00417E-03	\$	C5B	Doppler T550
13	MTC5B	P9D5	0	1.21293E-06	P0D5	0	2.17559E-07	P1D5	0	1.07385E-05			
13	MTC5B	P2D5	0	2.66266E-06	FXEB	0	1.28776E-08	FI5B	0	3.09193E-08			
13	MTC5B	FPMB	0	4.18776E-08	FSMB	0	1.17497E-07	PPF1	0	3.24576E-04			
13	MTC5B	ODUM	0	1.73296E-05									
13	MTC5C	U5D5	0	1.39492E-03	U6D5	0	6.50243E-05	U8D5	0	7.00417E-03	\$	C5C	Doppler T550
13	MTC5C	P9D5	0	1.21704E-06	P0D5	0	2.19367E-07	P1D5	0	1.07914E-05			
13	MTC5C	P2D5	0	2.69207E-06	FXEB	0	1.28825E-08	FI5B	0	3.10473E-08			
13	MTC5C	FPMB	0	4.20535E-08	FSMB	0	1.17371E-07	PPF1	0	3.26106E-04			
13	MTC5C	ODUM	0	1.74270E-05									
13	MTC5D	U5D5	0	1.50021E-03	U6D5	0	4.55271E-05	U8D5	0	7.01669E-03	\$	C5D	Doppler T550
13	MTC5D	P9D5	0	8.80389E-07	P0D5	0	1.10744E-07	P1D5	0	7.25382E-06			
13	MTC5D	P2D5	0	1.17656E-06	FXEB	0	1.20466E-08	FI5B	0	2.24277E-08			
13	MTC5D	FPMB	0	3.02935E-08	FSMB	0	1.24652E-07	PPF1	0	2.30751E-04			
13	MTC5D	ODUM	0	1.19492E-05									
13	MTC6A	U5D5	0	1.50967E-03	U6D5	0	4.40675E-05	U8D5	0	7.01739E-03	\$	C6A	Doppler T550
13	MTC6A	P9D5	0	8.77469E-07	P0D5	0	1.04889E-07	P1D5	0	6.89736E-06			
13	MTC6A	P2D5	0	1.08853E-06	FXEB	0	1.16801E-08	FI5B	0	2.04645E-08			
13	MTC6A	FPMB	0	2.76363E-08	FSMB	0	1.25348E-07	PPF1	0	2.22594E-04			
13	MTC6A	ODUM	0	1.15932E-05									
13	MTC6B	U5D5	0	1.40229E-03	U6D5	0	6.40362E-05	U8D5	0	7.00417E-03	\$	C6B	Doppler T550
13	MTC6B	P9D5	0	1.23171E-06	P0D5	0	2.14847E-07	P1D5	0	1.05299E-05			
13	MTC6B	P2D5	0	2.59152E-06	FXEB	0	1.26871E-08	FI5B	0	2.90716E-08			
13	MTC6B	FPMB	0	3.93700E-08	FSMB	0	1.17969E-07	PPF1	0	3.19944E-04			
13	MTC6B	ODUM	0	1.71120E-05									
13	MTC6C	U5D5	0	1.40056E-03	U6D5	0	6.43588E-05	U8D5	0	7.00417E-03	\$	C6C	Doppler T550
13	MTC6C	P9D5	0	1.23616E-06	P0D5	0	2.16739E-07	P1D5	0	1.05862E-05			
13	MTC6C	P2D5	0	2.62197E-06	FXEB	0	1.26933E-08	FI5B	0	2.91975E-08			
13	MTC6C	FPMB	0	3.95431E-08	FSMB	0	1.17844E-07	PPF1	0	3.21544E-04			
13	MTC6C	ODUM	0	1.72135E-05									
13	MTC6D	U5D5	0	1.50424E-03	U6D5	0	4.50605E-05	U8D5	0	7.01669E-03	\$	C6D	Doppler T550
13	MTC6D	P9D5	0	8.93324E-07	P0D5	0	1.09152E-07	P1D5	0	7.08693E-06			
13	MTC6D	P2D5	0	1.14791E-06	FXEB	0	1.17455E-08	FI5B	0	2.08414E-08			
13	MTC6D	FPMB	0	2.81502E-08	FSMB	0	1.25070E-07	PPF1	0	2.27483E-04			
13	MTC6D	ODUM	0	1.18421E-05									
13	MTC7A	U5D5	0	1.67017E-03	U6D5	0	1.50869E-05	U8D5	0	7.03407E-03	\$	C7A	Doppler T550
13	MTC7A	P9D5	0	3.12399E-07	P0D5	0	1.29200E-08	P1D5	0	2.60925E-06			
13	MTC7A	P2D5	0	1.29458E-07	FXEB	0	1.19033E-08	FI5B	0	1.89089E-08			
13	MTC7A	FPMB	0	2.54729E-08	FSMB	0	1.36460E-07	PPF1	0	7.71488E-05			
13	MTC7A	ODUM	0	3.29951E-06									
13	MTC7B	U5D5	0	1.63060E-03	U6D5	0	2.23248E-05	U8D5	0	7.02990E-03	\$	C7B	Doppler T550
13	MTC7B	P9D5	0	4.69103E-07	P0D5	0	2.86752E-08	P1D5	0	4.35070E-06			
13	MTC7B	P2D5	0	3.25800E-07	FXEB	0	1.36794E-08	FI5B	0	2.76092E-08			
13	MTC7B	FPMB	0	3.72441E-08	FSMB	0	1.34548E-07	PPF1	0	1.13241E-04			
13	MTC7B	ODUM	0	4.46648E-06									
13	MTC7C	U5D5	0	1.62990E-03	U6D5	0	2.24451E-05	U8D5	0	7.02990E-03	\$	C7C	Doppler T550
13	MTC7C	P9D5	0	4.71370E-07	P0D5	0	2.89708E-08	P1D5	0	4.38074E-06			
13	MTC7C	P2D5	0	3.29972E-07	FXEB	0	1.37003E-08	FI5B	0	2.77517E-08			
13	MTC7C	FPMB	0	3.74374E-08	FSMB	0	1.34506E-07	PPF1	0	1.13853E-04			
13	MTC7C	ODUM	0	4.48588E-06									
13	MTC7D	U5D5	0	1.66808E-03	U6D5	0	1.54631E-05	U8D5	0	7.03407E-03	\$	C7D	Doppler T550
13	MTC7D	P9D5	0	3.19318E-07	P0D5	0	1.35306E-08	P1D5	0	2.69847E-06			
13	MTC7D	P2D5	0	1.37344E-07	FXEB	0	1.20216E-08	FI5B	0	1.93588E-08			
13	MTC7D	FPMB	0	2.60807E-08	FSMB	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	13	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-02	B10S	0	2.98636E-07	B11S	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-02MNSS 0 1.44994E-03FESS 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 B10C 0 7.92800E-03B11C 0 3.21530E-02C12C 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 CNTL1OCNTL2OCNTL3OCNTL4O  
15 CNTLI CNTL1ICNTL2ICNTL3ICNTL4I  
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 ETFF      1.000
09      U235      5U234
09      U236      1DUMP
09      U236      2XE135      1.5847-03 PM149      1.3691-02
09      U236      2I135      5.6307-02 ETFF      1.000
09      U236      5U235
09      U238      1PU239
09      U238      2XE135      2.8000-04 PM149      1.6100-02
09      U238      2I135      6.8349-02 ETFF      1.000
09      U238      5DUMP
09      PU239      1PU240
09      PU239      2XE135      1.1524-02 PM149      1.2390-02
09      PU239      2I135      6.4494-02 ETFF      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 ETFF      1.000
09      PU240      8U236
09      PU241      1PU242
09      PU241      2XE135      2.3140-03 PM149      1.5240-02
09      PU241      2I135      7.0698-02 ETFF      1.000
09      PU241      8DUMP
09      PU242      1DUMP
09      PU242      2XE135      2.6448-03 PM149      1.6152-02
09      PU242      2I135      6.9001-02 ETFF      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      ETFF      1DUMP
09      DUMP      0
10      U235      U5D5 0
10      U236      U6D5 0
10      U238      U8D5 0
10      PU239      P9D5 0
10      PU240      P0D5 0
10      PU241      P1D5 0
10      PU242      P2D5 0
10      XE135      FXEB 0
10      PM149      FPMB 0
10      I135      FI5B 0
10      SM149      FSMB 0
10      ETFF      PFF1 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
45	FMD3D	D3D

45	FMD4A	D4A									
45	FMD4B	D4B									
45	FMD4C	D4C									
45	FMD4D	D4D									
45	FMD6A	D6A									
45	FMD6B	D6B									
45	FMD6C	D6C									
45	FMD6D	D6D									
45	FMD7A	D7A									
45	FMD7B	D7B									
45	FMD7C	D7C									
45	FMD7D	D7D									
45	FMC3A	C3A									
45	FMC3B	C3B									
45	FMC3C	C3C									
45	FMC3D	C3D									
45	FMC4A	C4A									
45	FMC4B	C4B									
45	FMC4C	C4C									
45	FMC4D	C4D									
45	FMC5A	C5A									
45	FMC5B	C5B									
45	FMC5C	C5C									
45	FMC5D	C5D									
45	FMC6A	C6A									
45	FMC6B	C6B									
45	FMC6C	C6C									
45	FMC6D	C6D									
45	FMC7A	C7A									
45	FMC7B	C7B									
45	FMC7C	C7C									
45	FMC7D	C7D									
26	U5D50	U5D50	U6D50	U8D50	P9D50	POD50	PlD50	P2D50	FXEB0	FPMB0	FSMB0
26	U5D50	FI5B0	PPF10								
39	U5D50	5	7U6D50		5	7U8D50		5	7		
39	P9D50	5	7P0D50		5	7P1D50		5	7		
39	P2D50	5	7FXEB0		5	7FPMB0		5	7		
39	FSMB0	5	7FI5B0		5	7PPF10		1	7		
40	U5D50	2	1.000000E-03		3U6D50		2	1.000000E-03		3	
40	U8D50	2	1.000000E-03		3P9D50		2	1.000000E-03		3	
40	POD50	2	1.000000E-03		3P1D50		2	1.000000E-03		3	
40	P2D50	2	1.000000E-03		3FXEB0		0	1.000000E-03		3	
40	FPMB0	0	1.000000E-03		3FSMB0		0	1.000000E-03		3	
40	FI5B0	0	1.000000E-03		3PPF10		0	1.000000E-03		3	
41	U5D50	U5D50	2.52427E-04	1.0000		U5D51	2.52090E-04	1.0000			
41	U5D50	U5D52	2.48755E-04	1.0000		U5D53	2.35673E-04	1.0000			
41	U5D50	U5D54	2.10551E-04	1.0000		U5D55	9.30573E-05	1.0000			
41	U6D50	U6D50	2.52427E-04	1.0000		U6D51	2.52090E-04	1.0000			
41	U6D50	U6D52	2.48755E-04	1.0000		U6D53	2.35673E-04	1.0000			
41	U6D50	U6D54	2.10551E-04	1.0000		U6D55	9.30573E-05	1.0000			
41	U8D50	U8D50	2.52427E-04	1.0000		U8D51	2.52090E-04	1.0000			
41	U8D50	U8D52	2.48755E-04	1.0000		U8D53	2.35673E-04	1.0000			
41	U8D50	U8D54	2.10551E-04	1.0000		U8D55	9.30573E-05	1.0000			
41	P9D50	P9D50	2.52427E-04	1.0000		P9D51	2.52090E-04	1.0000			
41	P9D50	P9D52	2.48755E-04	1.0000		P9D53	2.35673E-04	1.0000			
41	P9D50	P9D54	2.10551E-04	1.0000		P9D55	9.30573E-05	1.0000			
41	POD50	POD50	2.52427E-04	1.0000		POD51	2.52090E-04	1.0000			
41	POD50	POD52	2.48755E-04	1.0000		POD53	2.35673E-04	1.0000			
41	POD50	POD54	2.10551E-04	1.0000		POD55	9.30573E-05	1.0000			
41	PlD50	PlD50	2.52427E-04	1.0000		PlD51	2.52090E-04	1.0000			
41	PlD50	PlD52	2.48755E-04	1.0000		PlD53	2.35673E-04	1.0000			
41	PlD50	PlD54	2.10551E-04	1.0000		PlD55	9.30573E-05	1.0000			
41	P2D50	P2D50	2.52427E-04	1.0000		P2D51	2.52090E-04	1.0000			
41	P2D50	P2D52	2.48755E-04	1.0000		P2D53	2.35673E-04	1.00			