

```

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
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           | 126.3303  | 1       | 126.686     |      |         |             |
| 09                   | Y    | 1    | 127.0417   | 1           | 128.253   |         |             |      |         |             |
| 09                   | Y    | 1    | 128.882    | 1           | 134.1023  |         |             |      |         |             |
| 09                   | Y    | 1    | 134.458    | 1           | 134.511   | 1       | 135.146     |      |         |             |
| 09                   | Y    | 4    | 160.0      |             |           |         |             |      |         |             |
| 09                   | Z    | 2    | 13.36      | 1           | 26.22     |         |             |      |         |             |
| 09                   | Z    | 1    | 28.45      | 1           | 29.72     |         |             |      |         |             |
| 09                   | Z    | 1    | 32.26      | 1           | 34.16     | 1       | 35.75       |      |         |             |
| 09                   | Z    | 1    | 37.0175    | 14          | 88.690625 | 2       | 95.44       |      |         |             |
| 09                   | Z    | 1    | 96.0725    |             |           |         |             |      |         |             |
| 09                   | Z    | 1    | 97.35      | 1           | 103.38    | 1       | 107.503     |      |         |             |
| 09                   | Z    | 1    | 110.510    | 1           | 116.08    | 1       | 117.35      |      |         |             |
| 09                   | Z    | 1    | 119.89     | 2           | 137.39    | 2       | 158.94      |      |         |             |
| 13                   | MEAT | U5F4 | 0          | 1.75523E-03 | U8F4      | 0       | 7.04193E-03 | ALF4 | 0       | 3.88984E-02 |
| 13                   | MEAT | SIF4 | 0          | 5.94365E-03 |           |         |             |      |         |             |
| 13                   | MEAT | FU6B | 0          | 1.00000E-10 | FP9B      | 0       | 1.00000E-10 | FP0B | 0       | 1.00000E-10 |
| 13                   | MEAT | FP1B | 0          | 1.00000E-10 | FP2B      | 0       | 1.00000E-10 | FXEB | 0       | 1.00000E-10 |
| 13                   | MEAT | FPMB | 0          | 1.00000E-10 | FSMB      | 0       | 1.00000E-10 | FI5B | 0       | 1.00000E-10 |
| 13                   | MEAT | PPF1 | 0          | 1.00000E-10 | ODUM      | 0       | 1.00000E-10 |      |         |             |
| 13                   | CLAD | ALF4 | 0          | 6.02669E-02 | B10F      | 0       | 2.98636E-07 | B11F | 0       | 1.21115E-06 |
| 5% void in moderator |      |      |            |             |           |         |             |      |         |             |
| 13                   | MOD  | HFV5 | 0          | 6.35180E-02 | OFV5      | 0       | 3.17590E-02 |      |         |             |
| 14                   | NEWF | MEAT | 0.14380    |             | CLAD      | 0.21570 |             | MOD  | 0.64050 |             |
| 14                   | MNEW | NEWF | 1.00000    |             |           |         |             |      |         |             |

[illegible]

|    |       |      |   |             |      |   |             |      |   |             |    |     |                 |
|----|-------|------|---|-------------|------|---|-------------|------|---|-------------|----|-----|-----------------|
| 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-18 | FI5B | 0 | 2.10612E-18 |    |     |                 |
| 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-18 | FI5B | 0 | 3.03331E-18 |    |     |                 |
| 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-18 | FI5B | 0 | 3.04722E-18 |    |     |                 |
| 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-18 | FI5B | 0 | 2.14673E-18 |    |     |                 |
| 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-18 | FI5B | 0 | 1.91356E-18 |    |     |                 |
| 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-18 | FI5B | 0 | 2.79228E-18 |    |     |                 |
| 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-18 | FI5B | 0 | 2.80675E-18 |    |     |                 |
| 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-18 | FI5B | 0 | 1.95911E-18 |    |     |                 |
| 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-18 | FI5B | 0 | 1.80946E-18 |    |     |                 |
| 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-18 | FI5B | 0 | 2.60994E-18 |    |     |                 |
| 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-18 | FI5B | 0 | 2.62225E-18 |    |     |                 |
| 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-18 | FI5B | 0 | 1.84611E-18 |    |     |                 |
| 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-18 | FI5B | 0 | 2.08519E-18 |    |     |                 |
| 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-18 | FI5B | 0 | 2.87775E-18 |    |     |                 |
| 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-18 | FI5B | 0 | 2.88915E-18 |    |     |                 |
| 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-18 | FI5B | 0 | 2.11565E-18 |    |     |                 |
| 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-18FI5B | 0 | 2.16843E-18 |
| 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-18FI5B | 0 | 2.98248E-18 |
| 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-18FI5B | 0 | 2.99451E-18 |
| 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-18FI5B | 0 | 2.20195E-18 |
| 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-18FI5B | 0 | 1.95612E-18 |
| 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-18FI5B | 0 | 2.79694E-18 |
| 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-18FI5B | 0 | 2.81092E-18 |
| 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-18FI5B | 0 | 2.00014E-18 |
| 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-18FI5B | 0 | 1.75772E-18 |
| 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-18FI5B | 0 | 2.57121E-18 |
| 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-18FI5B | 0 | 2.58387E-18 |
| 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-18FI5B | 0 | 1.79534E-18 |
| 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-18FI5B | 0 | 2.02267E-18 |
| 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-18FI5B | 0 | 2.91732E-18 |
| 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-18FI5B | 0 | 2.93039E-18 |
| 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-18 | FI5B | 0 | 2.06001E-18 |    |                     |
| 13 | MTC4D                                                               | FPMB | 0    | 2.77879E-08 | FSMB        | 0 | 1.31474E-07 | PFP1 | 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-18 | FI5B | 0 | 2.20716E-18 |    |                     |
| 13 | MTC5A                                                               | FPMB | 0    | 2.98088E-08 | FSMB        | 0 | 1.24875E-07 | PFP1 | 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-18 | FI5B | 0 | 3.09193E-18 |    |                     |
| 13 | MTC5B                                                               | FPMB | 0    | 4.18776E-08 | FSMB        | 0 | 1.17497E-07 | PFP1 | 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-18 | FI5B | 0 | 3.10473E-18 |    |                     |
| 13 | MTC5C                                                               | FPMB | 0    | 4.20535E-08 | FSMB        | 0 | 1.17371E-07 | PFP1 | 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-18 | FI5B | 0 | 2.24277E-18 |    |                     |
| 13 | MTC5D                                                               | FPMB | 0    | 3.02935E-08 | FSMB        | 0 | 1.24652E-07 | PFP1 | 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-18 | FI5B | 0 | 2.04645E-18 |    |                     |
| 13 | MTC6A                                                               | FPMB | 0    | 2.76363E-08 | FSMB        | 0 | 1.25348E-07 | PFP1 | 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-18 | FI5B | 0 | 2.90716E-18 |    |                     |
| 13 | MTC6B                                                               | FPMB | 0    | 3.93700E-08 | FSMB        | 0 | 1.17969E-07 | PFP1 | 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-18 | FI5B | 0 | 2.91975E-18 |    |                     |
| 13 | MTC6C                                                               | FPMB | 0    | 3.95431E-08 | FSMB        | 0 | 1.17844E-07 | PFP1 | 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-18 | FI5B | 0 | 2.08414E-18 |    |                     |
| 13 | MTC6D                                                               | FPMB | 0    | 2.81502E-08 | FSMB        | 0 | 1.25070E-07 | PFP1 | 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-18 | FI5B | 0 | 1.89089E-18 |    |                     |
| 13 | MTC7A                                                               | FPMB | 0    | 2.54729E-08 | FSMB        | 0 | 1.36460E-07 | PFP1 | 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-18 | FI5B | 0 | 2.76092E-18 |    |                     |
| 13 | MTC7B                                                               | FPMB | 0    | 3.72441E-08 | FSMB        | 0 | 1.34548E-07 | PFP1 | 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-18 | FI5B | 0 | 2.77517E-18 |    |                     |
| 13 | MTC7C                                                               | FPMB | 0    | 3.74374E-08 | FSMB        | 0 | 1.34506E-07 | PFP1 | 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-18 | FI5B | 0 | 1.93588E-18 |    |                     |
| 13 | MTC7D                                                               | FPMB | 0    | 2.60807E-08 | FSMB        | 0 | 1.36481E-07 | PFP1 | 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-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 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
15     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 1.00 -1.000 1 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 |

|    |       |       |             |        |        |             |        |       |       |       |       |
|----|-------|-------|-------------|--------|--------|-------------|--------|-------|-------|-------|-------|
| 43 | 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 | U5F40 | U5F40 | FU6B0       | U8F40  | FP9B0  | FP0B0       | FP1B0  | FP2B0 | FXEB0 | FPMB0 | FSMB0 |
| 26 | U5F40 | FI5B0 | PFF10       |        |        |             |        |       |       |       |       |
| 39 | U5F40 | 5     | 7FU6B0      | 5      | 7U8F40 | 5           | 7      |       |       |       |       |
| 39 | FP9B0 | 5     | 7FP0B0      | 5      | 7FP1B0 | 5           | 7      |       |       |       |       |
| 39 | FP2B0 | 5     | 7FXEB0      | 5      | 7FPMB0 | 5           | 7      |       |       |       |       |
| 39 | FSMB0 | 5     | 7FI5B0      | 5      | 7PFP10 | 1           | 7      |       |       |       |       |
| 40 | U5F40 | 2     | 1.00000E-03 | 3FU6B0 | 2      | 1.00000E-03 | 3      |       |       |       |       |
| 40 | U8F40 | 2     | 1.00000E-03 | 3FP9B0 | 2      | 1.00000E-03 | 3      |       |       |       |       |
| 40 | FP0B0 | 2     | 1.00000E-03 | 3FP1B0 | 2      | 1.00000E-03 | 3      |       |       |       |       |
| 40 | FP2B0 | 2     | 1.00000E-03 | 3FXEB0 | 0      | 1.00000E-03 | 3      |       |       |       |       |
| 40 | FPMB0 | 0     | 1.00000E-03 | 3FSMB0 | 0      | 1.00000E-03 | 3      |       |       |       |       |
| 40 | FI5B0 | 0     | 1.00000E-03 | 3PFP10 | 0      | 1.00000E-03 | 3      |       |       |       |       |
| 41 | U5F40 | U5F40 | 2.52427E-04 | 1.0000 | U5F41  | 2.52090E-04 | 1.0000 |       |       |       |       |
| 41 | U5F40 | U5F42 | 2.48755E-04 | 1.0000 | U5F43  | 2.35673E-04 | 1.0000 |       |       |       |       |
| 41 | U5F40 | U5F44 | 2.10551E-04 | 1.0000 | U5F45  | 9.30573E-05 | 1.0000 |       |       |       |       |
| 41 | FU6B0 | FU6B0 | 2.52427E-04 | 1.0000 | FU6B1  | 2.52090E-04 | 1.0000 |       |       |       |       |
| 41 | FU6B0 | FU6B2 | 2.48755E-04 | 1.0000 | FU6B3  | 2.35673E-04 | 1.0000 |       |       |       |       |
| 41 | FU6B0 | FU6B4 | 2.10551E-04 | 1.0000 | FU6B5  | 9.30573E-05 | 1.0000 |       |       |       |       |
| 41 | U8F40 | U8F40 | 2.52427E-04 | 1.0000 | U8F41  | 2.52090E-04 | 1.0000 |       |       |       |       |
| 41 | U8F40 | U8F42 | 2.48755E-04 | 1.0000 | U8F43  | 2.35673E-04 | 1.0000 |       |       |       |       |
| 41 | U8F40 | U8F44 | 2.10551E-04 | 1.0000 | U8F45  | 9.30573E-05 | 1.0000 |       |       |       |       |
| 41 | FP9B0 | FP9B0 | 2.52427E-04 | 1.0000 | FP9B1  | 2.52090E-04 | 1.0000 |       |       |       |       |
| 41 | FP9B0 | FP9B2 | 2.48755E-04 | 1.0000 | FP9B3  | 2.35673E-04 | 1.0000 |       |       |       |       |
| 41 | FP9B0 | FP9B4 | 2.10551E-04 | 1.0000 | FP9B5  | 9.30573E-05 | 1.0000 |       |       |       |       |
| 41 | FP0B0 | FP0B0 | 2.52427E-04 | 1.0000 | FP0B1  | 2.52090E-04 | 1.0000 |       |       |       |       |
| 41 | FP0B0 | FP0B2 | 2.48755E-04 | 1.0000 | FP0B3  | 2.35673E-04 | 1.0000 |       |       |       |       |
| 41 | FP0B0 | FP0B4 | 2.10551E-04 | 1.0000 | FP0B5  | 9.30573E-05 | 1.0000 |       |       |       |       |
| 41 | FP1B0 | FP1B0 | 2.52427E-04 | 1.0000 | FP1B1  | 2.52090E-04 | 1.0000 |       |       |       |       |
| 41 | FP1B0 | FP1B2 | 2.48755E-04 | 1.0000 | FP1B3  | 2.35673E-04 | 1.0000 |       |       |       |       |
| 41 | FP1B0 | FP1B4 | 2.10551E-04 | 1.0000 | FP1B5  | 9.30573E-05 | 1.0000 |       |       |       |       |
| 41 | FP2B0 | FP2B0 | 2.52427E-04 | 1.0000 | FP2B1  | 2.52090E-04 | 1.0000 |       |       |       |       |
| 41 | FP2B0 | FP2B2 | 2.48755E-04 | 1.0000 | FP2B3  | 2.35673E-04 | 1.0000 | </    |       |       |       |

