

```

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      0000000010000
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      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      126.686
06      GRAG2 78.485      86.257      9      26 72.282      126.686      G
06      FC 78.485      86.257      35      37 126.686      134.458
06      CIC 26.773      34.545      35      37 126.686      134.458
01 RBBL1S to BE-F9 11/98
06      BE-F9 34.545      42.317      9      26 126.686      134.458
01 RBBL2S to BE-E9 updated from rinsc info 8/98
01 removed RB box 11/98 06 RBBL2E 45.351      52.135      9      26 126.686      134.458
01 removed 06 RB2 45.351      52.135      9      26 127.0417      134.1023
06      G-E9 44.857      52.629      9      26 126.686      134.458
06      RBBL3S 52.629      60.401      9      26 126.686      134.458
06      RBBL3E 53.123      59.907      9      26 126.686      134.458
06      RB3 53.123      59.907      9      26 127.0417      134.1023
06      RBBL4S 60.401      68.173      9      26 126.686      134.458
06      RBBL4E 60.895      67.679      9      26 126.686      134.458
06      RB4 60.895      67.679      9      26 127.0417      134.1023
06      RBBL5S 70.713      78.485      9      26 126.686      134.458
06      RBBL5E 71.207      77.991      9      26 126.686      134.458
06      RB5 71.207      77.991      9      26 127.0417      134.1023
06      E3A 44.857      52.629      9      13 80.054      87.826
06      E4A 44.857      52.629      9      13 87.826      95.598
06      E5A 44.857      52.629      9      13 95.598      103.370
06      E6A 44.857      52.629      9      13 103.370      111.142
06      E7A 44.857      52.629      9      13 111.142      118.914
06      D3A 52.629      60.401      9      13 80.054      87.826
06      D4A 52.629      60.401      9      13 87.826      95.598
06      D6A 52.629      60.401      9      13 103.370      111.142
06      D7A 52.629      60.401      9      13 111.142      118.914
06      C3A 60.401      68.173      9      13 80.054      87.826
06      C4A 60.401      68.173      9      13 87.826      95.598

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|    |                                    |          |          |         |     |          |          |          |
|----|------------------------------------|----------|----------|---------|-----|----------|----------|----------|
| 06 | C5A                                | 60.401   | 68.173   | 9       | 13  | 95.598   | 103.370  |          |
| 06 | C6A                                | 60.401   | 68.173   | 9       | 13  | 103.370  | 111.142  |          |
| 06 | C7A                                | 60.401   | 68.173   | 9       | 13  | 111.142  | 118.914  |          |
| 06 | E3B                                | 44.857   | 52.629   | 13      | 17  | 80.054   | 87.826   |          |
| 06 | E4B                                | 44.857   | 52.629   | 13      | 17  | 87.826   | 95.598   |          |
| 06 | E5B                                | 44.857   | 52.629   | 13      | 17  | 95.598   | 103.370  |          |
| 06 | E6B                                | 44.857   | 52.629   | 13      | 17  | 103.370  | 111.142  |          |
| 06 | E7B                                | 44.857   | 52.629   | 13      | 17  | 111.142  | 118.914  |          |
| 06 | D3B                                | 52.629   | 60.401   | 13      | 17  | 80.054   | 87.826   |          |
| 06 | D4B                                | 52.629   | 60.401   | 13      | 17  | 87.826   | 95.598   |          |
| 06 | D6B                                | 52.629   | 60.401   | 13      | 17  | 103.370  | 111.142  |          |
| 06 | D7B                                | 52.629   | 60.401   | 13      | 17  | 111.142  | 118.914  |          |
| 06 | C3B                                | 60.401   | 68.173   | 13      | 17  | 80.054   | 87.826   |          |
| 06 | C4B                                | 60.401   | 68.173   | 13      | 17  | 87.826   | 95.598   |          |
| 06 | C5B                                | 60.401   | 68.173   | 13      | 17  | 95.598   | 103.370  |          |
| 06 | C6B                                | 60.401   | 68.173   | 13      | 17  | 103.370  | 111.142  |          |
| 06 | C7B                                | 60.401   | 68.173   | 13      | 17  | 111.142  | 118.914  |          |
| 06 | E3C                                | 44.857   | 52.629   | 17      | 21  | 80.054   | 87.826   |          |
| 06 | E4C                                | 44.857   | 52.629   | 17      | 21  | 87.826   | 95.598   |          |
| 06 | E5C                                | 44.857   | 52.629   | 17      | 21  | 95.598   | 103.370  |          |
| 06 | E6C                                | 44.857   | 52.629   | 17      | 21  | 103.370  | 111.142  |          |
| 06 | E7C                                | 44.857   | 52.629   | 17      | 21  | 111.142  | 118.914  |          |
| 06 | D3C                                | 52.629   | 60.401   | 17      | 21  | 80.054   | 87.826   |          |
| 06 | D4C                                | 52.629   | 60.401   | 17      | 21  | 87.826   | 95.598   |          |
| 06 | D6C                                | 52.629   | 60.401   | 17      | 21  | 103.370  | 111.142  |          |
| 06 | D7C                                | 52.629   | 60.401   | 17      | 21  | 111.142  | 118.914  |          |
| 06 | C3C                                | 60.401   | 68.173   | 17      | 21  | 80.054   | 87.826   |          |
| 06 | C4C                                | 60.401   | 68.173   | 17      | 21  | 87.826   | 95.598   |          |
| 06 | C5C                                | 60.401   | 68.173   | 17      | 21  | 95.598   | 103.370  |          |
| 06 | C6C                                | 60.401   | 68.173   | 17      | 21  | 103.370  | 111.142  |          |
| 06 | C7C                                | 60.401   | 68.173   | 17      | 21  | 111.142  | 118.914  |          |
| 06 | E3D                                | 44.857   | 52.629   | 21      | 26  | 80.054   | 87.826   |          |
| 06 | E4D                                | 44.857   | 52.629   | 21      | 26  | 87.826   | 95.598   |          |
| 06 | E5D                                | 44.857   | 52.629   | 21      | 26  | 95.598   | 103.370  |          |
| 06 | E6D                                | 44.857   | 52.629   | 21      | 26  | 103.370  | 111.142  |          |
| 06 | E7D                                | 44.857   | 52.629   | 21      | 26  | 111.142  | 118.914  |          |
| 06 | D3D                                | 52.629   | 60.401   | 21      | 26  | 80.054   | 87.826   |          |
| 06 | D4D                                | 52.629   | 60.401   | 21      | 26  | 87.826   | 95.598   |          |
| 06 | D6D                                | 52.629   | 60.401   | 21      | 26  | 103.370  | 111.142  |          |
| 06 | D7D                                | 52.629   | 60.401   | 21      | 26  | 111.142  | 118.914  |          |
| 06 | C3D                                | 60.401   | 68.173   | 21      | 26  | 80.054   | 87.826   |          |
| 06 | C4D                                | 60.401   | 68.173   | 21      | 26  | 87.826   | 95.598   |          |
| 06 | C5D                                | 60.401   | 68.173   | 21      | 26  | 95.598   | 103.370  |          |
| 06 | C6D                                | 60.401   | 68.173   | 21      | 26  | 103.370  | 111.142  |          |
| 06 | C7D                                | 60.401   | 68.173   | 21      | 26  | 111.142  | 118.914  |          |
| 06 | S1                                 | 44.857   | 45.7015  | 9       | 26  | 80.054   | 118.914  |          |
| 06 | S2                                 | 51.7845  | 52.629   | 9       | 26  | 80.054   | 118.914  |          |
| 06 | S3                                 | 52.629   | 53.4735  | 9       | 26  | 80.054   | 118.914  |          |
| 06 | S4                                 | 59.5565  | 60.401   | 9       | 26  | 80.054   | 118.914  |          |
| 06 | S5                                 | 60.401   | 61.2455  | 9       | 26  | 80.054   | 118.914  |          |
| 06 | S6                                 | 67.3285  | 68.173   | 9       | 26  | 80.054   | 118.914  |          |
| 06 | G1                                 | 42.317   | 44.857   | 9       | 26  | 64.51    | 70.086   |          |
| 06 | G2                                 | 42.317   | 44.857   | 9       | 26  | 98.090   | 100.878  |          |
| 06 | G3                                 | 42.317   | 44.857   | 9       | 26  | 128.882  | 134.458  |          |
| 06 | G4                                 | 68.173   | 70.713   | 9       | 26  | 64.51    | 70.086   |          |
| 06 | G5                                 | 68.173   | 70.713   | 9       | 26  | 98.090   | 100.878  |          |
| 06 | G6                                 | 68.173   | 70.713   | 9       | 26  | 128.882  | 134.458  |          |
| 06 | TRAP                               | 52.629   | 60.401   | 9       | 26  | 95.598   | 103.370  |          |
| 01 | flux trap size different 9/98 **   |          |          |         |     |          |          |          |
| 01 | 06                                 | HOLE     | 54.8265  | 58.2035 | 9   | 26       | 97.7955  | 101.1725 |
| 06 | HOLE                               | 54.6861  | 58.3439  | 9       | 26  | 97.6551  | 101.3130 |          |
| 01 | G1 to G6 CR guide tubes            |          |          |         |     |          |          |          |
| 06 | CNTL1O                             | 68.173   | 70.713   | 7       | 30  | 100.878  | 128.882  |          |
| 06 | CNTL2O                             | 68.173   | 70.713   | 7       | 30  | 70.086   | 98.090   |          |
| 06 | CNTL3O                             | 42.317   | 44.857   | 7       | 30  | 70.086   | 98.090   |          |
| 06 | CNTL4O                             | 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 | U5D2 | 0          | 1.75523E-03U8D2 | 0    | 7.04193E-03ALF4 | 0   | 3.88984E-02 |
| 13 |      | MEAT | SIF4 | 0          | 5.94365E-03     |      |                 |     |             |
| 13 |      | MEAT | U6D2 | 0          | 1.00000E-10P9D2 | 0    | 1.00000E-10P0D2 | 0   | 1.00000E-10 |
| 13 |      | MEAT | P1D2 | 0          | 1.00000E-10P2D2 | 0    | 1.00000E-10FXEB | 0   | 1.00000E-10 |
| 13 |      | MEAT | FPMB | 0          | 1.00000E-10FSMB | 0    | 1.00000E-10FI5B | 0   | 1.00000E-10 |
| 13 |      | MEAT | FFP1 | 0          | 1.00000E-10ODUM | 0    | 1.00000E-10     |     |             |
| 13 |      | CLAD | ALF4 | 0          | 6.02669E-02B10F | 0    | 2.98636E-07B11F | 0   | 1.21115E-06 |
| 13 |      | MOD  | HF4  | 0          | 6.68610E-02OF4  | 0    | 3.34305E-02     |     |             |
| 14 |      | NEWF | MEAT | 0.14380    |                 | CLAD | 0.21570         | MOD | 0.64050     |
| 14 |      | MNEW | NEWF | 1.00000    |                 |      |                 |     |             |
| 15 |      | MNEW | E3A  |            |                 |      |                 |     |             |

[illegible]

|    |       |      |   |                 |   |                 |   |             |    |     |              |
|----|-------|------|---|-----------------|---|-----------------|---|-------------|----|-----|--------------|
| 13 | MTE6A | P2D2 | 0 | 5.36697E-07FXEB | 0 | 1.21467E-08FI5B | 0 | 2.10612E-08 |    |     |              |
| 13 | MTE6A | FPMB | 0 | 2.84145E-08FSMB | 0 | 1.30876E-07PFP1 | 0 | 1.55424E-04 |    |     |              |
| 13 | MTE6A | ODUM | 0 | 7.35675E-06     |   |                 |   |             |    |     |              |
| 13 | MTE6B | U5D2 | 0 | 1.50633E-03U6D2 | 0 | 4.49026E-05U8D2 | 0 | 7.01599E-03 | \$ | E6B | Doppler T400 |
| 13 | MTE6B | P9D2 | 0 | 9.15160E-07P0D2 | 0 | 1.10688E-07P1D2 | 0 | 8.13143E-06 |    |     |              |
| 13 | MTE6B | P2D2 | 0 | 1.31161E-06FXEB | 0 | 1.34791E-08FI5B | 0 | 3.03331E-08 |    |     |              |
| 13 | MTE6B | FPMB | 0 | 4.10139E-08FSMB | 0 | 1.25821E-07PFP1 | 0 | 2.25994E-04 |    |     |              |
| 13 | MTE6B | ODUM | 0 | 1.04166E-05     |   |                 |   |             |    |     |              |
| 13 | MTE6C | U5D2 | 0 | 1.50501E-03U6D2 | 0 | 4.51328E-05U8D2 | 0 | 7.01599E-03 | \$ | E6C | Doppler T400 |
| 13 | MTE6C | P9D2 | 0 | 9.18915E-07P0D2 | 0 | 1.11725E-07P1D2 | 0 | 8.17942E-06 |    |     |              |
| 13 | MTE6C | P2D2 | 0 | 1.32733E-06FXEB | 0 | 1.34910E-08FI5B | 0 | 3.04722E-08 |    |     |              |
| 13 | MTE6C | FPMB | 0 | 4.12051E-08FSMB | 0 | 1.25730E-07PFP1 | 0 | 2.27142E-04 |    |     |              |
| 13 | MTE6C | ODUM | 0 | 1.04694E-05     |   |                 |   |             |    |     |              |
| 13 | MTE6D | U5D2 | 0 | 1.58004E-03U6D2 | 0 | 3.12914E-05U8D2 | 0 | 7.02503E-03 | \$ | E6D | Doppler T400 |
| 13 | MTE6D | P9D2 | 0 | 6.43526E-07P0D2 | 0 | 5.40688E-08P1D2 | 0 | 5.26878E-06 |    |     |              |
| 13 | MTE6D | P2D2 | 0 | 5.65953E-07FXEB | 0 | 1.22281E-08FI5B | 0 | 2.14673E-08 |    |     |              |
| 13 | MTE6D | FPMB | 0 | 2.89659E-08FSMB | 0 | 1.30730E-07PFP1 | 0 | 1.58853E-04 |    |     |              |
| 13 | MTE6D | ODUM | 0 | 7.49791E-06     |   |                 |   |             |    |     |              |
|    |       |      |   |                 |   |                 |   |             |    |     |              |
| 13 | MTE7A | U5D2 | 0 | 1.66912E-03U6D2 | 0 | 1.52684E-05U8D2 | 0 | 7.03407E-03 | \$ | E7A | Doppler T400 |
| 13 | MTE7A | P9D2 | 0 | 3.15730E-07P0D2 | 0 | 1.32135E-08P1D2 | 0 | 2.65278E-06 |    |     |              |
| 13 | MTE7A | P2D2 | 0 | 1.33275E-07FXEB | 0 | 1.19624E-08FI5B | 0 | 1.91356E-08 |    |     |              |
| 13 | MTE7A | FPMB | 0 | 2.57789E-08FSMB | 0 | 1.36419E-07PFP1 | 0 | 7.80668E-05 |    |     |              |
| 13 | MTE7A | ODUM | 0 | 3.32955E-06     |   |                 |   |             |    |     |              |
| 13 | MTE7B | U5D2 | 0 | 1.62921E-03U6D2 | 0 | 2.25800E-05U8D2 | 0 | 7.02990E-03 | \$ | E7B | Doppler T400 |
| 13 | MTE7B | P9D2 | 0 | 4.74374E-07P0D2 | 0 | 2.93275E-08P1D2 | 0 | 4.41217E-06 |    |     |              |
| 13 | MTE7B | P2D2 | 0 | 3.34402E-07FXEB | 0 | 1.37281E-08FI5B | 0 | 2.79228E-08 |    |     |              |
| 13 | MTE7B | FPMB | 0 | 3.76683E-08FSMB | 0 | 1.34471E-07PFP1 | 0 | 1.14499E-04 |    |     |              |
| 13 | MTE7B | ODUM | 0 | 4.50730E-06     |   |                 |   |             |    |     |              |
| 13 | MTE7C | U5D2 | 0 | 1.62851E-03U6D2 | 0 | 2.27024E-05U8D2 | 0 | 7.02990E-03 | \$ | E7C | Doppler T400 |
| 13 | MTE7C | P9D2 | 0 | 4.76676E-07P0D2 | 0 | 2.96314E-08P1D2 | 0 | 4.44263E-06 |    |     |              |
| 13 | MTE7C | P2D2 | 0 | 3.38693E-07FXEB | 0 | 1.37490E-08FI5B | 0 | 2.80675E-08 |    |     |              |
| 13 | MTE7C | FPMB | 0 | 3.78644E-08FSMB | 0 | 1.34423E-07PFP1 | 0 | 1.15125E-04 |    |     |              |
| 13 | MTE7C | ODUM | 0 | 4.52705E-06     |   |                 |   |             |    |     |              |
| 13 | MTE7D | U5D2 | 0 | 1.66704E-03U6D2 | 0 | 1.56495E-05U8D2 | 0 | 7.03407E-03 | \$ | E7D | Doppler T400 |
| 13 | MTE7D | P9D2 | 0 | 3.22747E-07P0D2 | 0 | 1.38394E-08P1D2 | 0 | 2.74332E-06 |    |     |              |
| 13 | MTE7D | P2D2 | 0 | 1.41391E-07FXEB | 0 | 1.20807E-08FI5B | 0 | 1.95911E-08 |    |     |              |
| 13 | MTE7D | FPMB | 0 | 2.63950E-08FSMB | 0 | 1.36439E-07PFP1 | 0 | 7.99861E-05 |    |     |              |
| 13 | MTE7D | ODUM | 0 | 3.39242E-06     |   |                 |   |             |    |     |              |
|    |       |      |   |                 |   |                 |   |             |    |     |              |
| 13 | MTD3A | U5D2 | 0 | 1.60362E-03U6D2 | 0 | 2.69743E-05U8D2 | 0 | 7.02782E-03 | \$ | D3A | Doppler T400 |
| 13 | MTD3A | P9D2 | 0 | 5.61885E-07P0D2 | 0 | 4.06898E-08P1D2 | 0 | 4.33630E-06 |    |     |              |
| 13 | MTD3A | P2D2 | 0 | 3.98873E-07FXEB | 0 | 1.14645E-08FI5B | 0 | 1.80946E-08 |    |     |              |
| 13 | MTD3A | FPMB | 0 | 2.43971E-08FSMB | 0 | 1.32656E-07PFP1 | 0 | 1.37378E-04 |    |     |              |
| 13 | MTD3A | ODUM | 0 | 6.62399E-06     |   |                 |   |             |    |     |              |
| 13 | MTD3B | U5D2 | 0 | 1.53470E-03U6D2 | 0 | 3.96405E-05U8D2 | 0 | 7.01947E-03 | \$ | D3B | Doppler T400 |
| 13 | MTD3B | P9D2 | 0 | 8.22879E-07P0D2 | 0 | 8.76634E-08P1D2 | 0 | 7.03547E-06 |    |     |              |
| 13 | MTD3B | P2D2 | 0 | 9.90542E-07FXEB | 0 | 1.29771E-08FI5B | 0 | 2.60994E-08 |    |     |              |
| 13 | MTD3B | FPMB | 0 | 3.52587E-08FSMB | 0 | 1.28199E-07PFP1 | 0 | 2.00146E-04 |    |     |              |
| 13 | MTD3B | ODUM | 0 | 9.25800E-06     |   |                 |   |             |    |     |              |
| 13 | MTD3C | U5D2 | 0 | 1.53352E-03U6D2 | 0 | 3.98401E-05U8D2 | 0 | 7.01947E-03 | \$ | D3C | Doppler T400 |
| 13 | MTD3C | P9D2 | 0 | 8.26286E-07P0D2 | 0 | 8.84771E-08P1D2 | 0 | 7.07858E-06 |    |     |              |
| 13 | MTD3C | P2D2 | 0 | 1.00236E-06FXEB | 0 | 1.29923E-08FI5B | 0 | 2.62225E-08 |    |     |              |
| 13 | MTD3C | FPMB | 0 | 3.54263E-08FSMB | 0 | 1.28122E-07PFP1 | 0 | 2.01154E-04 |    |     |              |
| 13 | MTD3C | ODUM | 0 | 9.30181E-06     |   |                 |   |             |    |     |              |
| 13 | MTD3D | U5D2 | 0 | 1.60042E-03U6D2 | 0 | 2.75654E-05U8D2 | 0 | 7.02712E-03 | \$ | D3D | Doppler T400 |
| 13 | MTD3D | P9D2 | 0 | 5.72684E-07P0D2 | 0 | 4.23700E-08P1D2 | 0 | 4.46252E-06 |    |     |              |
| 13 | MTD3D | P2D2 | 0 | 4.20188E-07FXEB | 0 | 1.15577E-08FI5B | 0 | 1.84611E-08 |    |     |              |
| 13 | MTD3D | FPMB | 0 | 2.48936E-08FSMB | 0 | 1.32538E-07PFP1 | 0 | 1.40327E-04 |    |     |              |
| 13 | MTD3D | ODUM | 0 | 6.74444E-06     |   |                 |   |             |    |     |              |
|    |       |      |   |                 |   |                 |   |             |    |     |              |
| 13 | MTD4A | U5D2 | 0 | 1.44611E-03U6D2 | 0 | 5.55014E-05U8D2 | 0 | 7.01043E-03 | \$ | D4A | Doppler T400 |
| 13 | MTD4A | P9D2 | 0 | 1.07462E-06P0D2 | 0 | 1.61433E-07P1D2 | 0 | 8.21905E-06 |    |     |              |
| 13 | MTD4A | P2D2 | 0 | 1.68505E-06FXEB | 0 | 1.15348E-08FI5B | 0 | 2.08519E-08 |    |     |              |
| 13 | MTD4A | FPMB | 0 | 2.81857E-08FSMB | 0 | 1.21495E-07PFP1 | 0 | 2.79715E-04 |    |     |              |
| 13 | MTD4A | ODUM | 0 | 1.57942E-05     |   |                 |   |             |    |     |              |
| 13 | MTD4B | U5D2 | 0 | 1.31530E-03U6D2 | 0 | 7.99235E-05U8D2 | 0 | 6.99305E-03 | \$ | D4B | Doppler T400 |
| 13 | MTD4B | P9D2 | 0 | 1.47086E-06P0D2 | 0 | 3.17643E-07P1D2 | 0 | 1.21085E-05 |    |     |              |
| 13 | MTD4B | P2D2 | 0 | 3.93060E-06FXEB | 0 | 1.22031E-08FI5B | 0 | 2.87775E-08 |    |     |              |
| 13 | MTD4B | FPMB | 0 | 3.90264E-08FSMB | 0 | 1.12232E-07PFP1 | 0 | 3.97552E-04 |    |     |              |
| 13 | MTD4B | ODUM | 0 | 2.42872E-05     |   |                 |   |             |    |     |              |
| 13 | MTD4C | U5D2 | 0 | 1.31321E-03U6D2 | 0 | 8.02990E-05U8D2 | 0 | 6.99305E-03 | \$ | D4C | Doppler T400 |
| 13 | MTD4C | P9D2 | 0 | 1.47538E-06P0D2 | 0 | 3.20146E-07P1D2 | 0 | 1.21634E-05 |    |     |              |
| 13 | MTD4C | P2D2 | 0 | 3.97337E-06FXEB | 0 | 1.22045E-08FI5B | 0 | 2.88915E-08 |    |     |              |
| 13 | MTD4C | FPMB | 0 | 3.91836E-08FSMB | 0 | 1.12079E-07PFP1 | 0 | 3.99367E-04 |    |     |              |
| 13 | MTD4C | ODUM | 0 | 2.44409E-05     |   |                 |   |             |    |     |              |
| 13 | MTD4D | U5D2 | 0 | 1.44033E-03U6D2 | 0 | 5.65737E-05U8D2 | 0 | 7.00974E-03 | \$ | D4D | Doppler T400 |
| 13 | MTD4D | P9D2 | 0 | 1.09138E-06P0D2 | 0 | 1.66975E-07P1D2 | 0 | 8.40195E-06 |    |     |              |
| 13 | MTD4D | P2D2 | 0 | 1.76335E-06FXEB | 0 | 1.15779E-08FI5B | 0 | 2.11565E-08 |    |     |              |
| 13 | MTD4D | FPMB | 0 | 2.86022E-08FSMB | 0 | 1.21182E-07PFP1 | 0 | 2.84937E-04 |    |     |              |
| 13 | MTD4D | ODUM | 0 | 1.61161E-05     |   |                 |   |             |    |     |              |

|    |       |      |   |             |      |   |             |      |   |             |    |     |         |      |
|----|-------|------|---|-------------|------|---|-------------|------|---|-------------|----|-----|---------|------|
| 13 | MTD6A | U5D2 | 0 | 1.42865E-03 | U6D2 | 0 | 5.88755E-05 | U8D2 | 0 | 7.00765E-03 | \$ | D6A | Doppler | T400 |
| 13 | MTD6A | P9D2 | 0 | 1.12775E-06 | P0D2 | 0 | 1.79923E-07 | P1D2 | 0 | 8.76704E-06 |    |     |         |      |
| 13 | MTD6A | P2D2 | 0 | 1.93338E-06 | FXEB | 0 | 1.16280E-08 | FI5B | 0 | 2.16843E-08 |    |     |         |      |
| 13 | MTD6A | FPMB | 0 | 2.93227E-08 | FSMB | 0 | 1.20223E-07 | PFP1 | 0 | 2.95675E-04 |    |     |         |      |
| 13 | MTD6A | ODUM | 0 | 1.67983E-05 |      |   |             |      |   |             |    |     |         |      |
| 13 | MTD6B | U5D2 | 0 | 1.29228E-03 | U6D2 | 0 | 8.45271E-05 | U8D2 | 0 | 6.98957E-03 | \$ | D6B | Doppler | T400 |
| 13 | MTD6B | P9D2 | 0 | 1.53046E-06 | P0D2 | 0 | 3.49917E-07 | P1D2 | 0 | 1.27058E-05 |    |     |         |      |
| 13 | MTD6B | P2D2 | 0 | 4.44033E-06 | FXEB | 0 | 1.21885E-08 | FI5B | 0 | 2.98248E-08 |    |     |         |      |
| 13 | MTD6B | FPMB | 0 | 4.04701E-08 | FSMB | 0 | 1.10501E-07 | PFP1 | 0 | 4.18498E-04 |    |     |         |      |
| 13 | MTD6B | ODUM | 0 | 2.61836E-05 |      |   |             |      |   |             |    |     |         |      |
| 13 | MTD6C | U5D2 | 0 | 1.29013E-03 | U6D2 | 0 | 8.49374E-05 | U8D2 | 0 | 6.98957E-03 | \$ | D6C | Doppler | T400 |
| 13 | MTD6C | P9D2 | 0 | 1.53505E-06 | P0D2 | 0 | 3.52705E-07 | P1D2 | 0 | 1.27629E-05 |    |     |         |      |
| 13 | MTD6C | P2D2 | 0 | 4.48978E-06 | FXEB | 0 | 1.21892E-08 | FI5B | 0 | 2.99451E-08 |    |     |         |      |
| 13 | MTD6C | FPMB | 0 | 4.06363E-08 | FSMB | 0 | 1.10341E-07 | PFP1 | 0 | 4.20487E-04 |    |     |         |      |
| 13 | MTD6C | ODUM | 0 | 2.63623E-05 |      |   |             |      |   |             |    |     |         |      |
| 13 | MTD6D | U5D2 | 0 | 1.42211E-03 | U6D2 | 0 | 6.01043E-05 | U8D2 | 0 | 7.00765E-03 | \$ | D6D | Doppler | T400 |
| 13 | MTD6D | P9D2 | 0 | 1.14604E-06 | P0D2 | 0 | 1.86474E-07 | P1D2 | 0 | 8.97288E-06 |    |     |         |      |
| 13 | MTD6D | P2D2 | 0 | 2.03004E-06 | FXEB | 0 | 1.16690E-08 | FI5B | 0 | 2.20195E-08 |    |     |         |      |
| 13 | MTD6D | FPMB | 0 | 2.97809E-08 | FSMB | 0 | 1.19854E-07 | PFP1 | 0 | 3.01634E-04 |    |     |         |      |
| 13 | MTD6D | ODUM | 0 | 1.71801E-05 |      |   |             |      |   |             |    |     |         |      |
| 13 | MTD7A | U5D2 | 0 | 1.59159E-03 | U6D2 | 0 | 2.93602E-05 | U8D2 | 0 | 7.02573E-03 | \$ | D7A | Doppler | T400 |
| 13 | MTD7A | P9D2 | 0 | 6.10960E-07 | P0D2 | 0 | 4.78303E-08 | P1D2 | 0 | 4.80911E-06 |    |     |         |      |
| 13 | MTD7A | P2D2 | 0 | 4.83150E-07 | FXEB | 0 | 1.18581E-08 | FI5B | 0 | 1.95612E-08 |    |     |         |      |
| 13 | MTD7A | FPMB | 0 | 2.63860E-08 | FSMB | 0 | 1.32357E-07 | PFP1 | 0 | 1.48547E-04 |    |     |         |      |
| 13 | MTD7A | ODUM | 0 | 7.10570E-06 |      |   |             |      |   |             |    |     |         |      |
| 13 | MTD7B | U5D2 | 0 | 1.51857E-03 | U6D2 | 0 | 4.29541E-05 | U8D2 | 0 | 7.01739E-03 | \$ | D7B | Doppler | T400 |
| 13 | MTD7B | P9D2 | 0 | 8.89152E-07 | P0D2 | 0 | 1.01627E-07 | P1D2 | 0 | 7.65925E-06 |    |     |         |      |
| 13 | MTD7B | P2D2 | 0 | 1.17615E-06 | FXEB | 0 | 1.32691E-08 | FI5B | 0 | 2.79694E-08 |    |     |         |      |
| 13 | MTD7B | FPMB | 0 | 3.78067E-08 | FSMB | 0 | 1.27643E-07 | PFP1 | 0 | 2.15243E-04 |    |     |         |      |
| 13 | MTD7B | ODUM | 0 | 9.98957E-06 |      |   |             |      |   |             |    |     |         |      |
| 13 | MTD7C | U5D2 | 0 | 1.51739E-03 | U6D2 | 0 | 4.31822E-05 | U8D2 | 0 | 7.01669E-03 | \$ | D7C | Doppler | T400 |
| 13 | MTD7C | P9D2 | 0 | 8.92907E-07 | P0D2 | 0 | 1.02608E-07 | P1D2 | 0 | 7.70723E-06 |    |     |         |      |
| 13 | MTD7C | P2D2 | 0 | 1.19082E-06 | FXEB | 0 | 1.32844E-08 | FI5B | 0 | 2.81092E-08 |    |     |         |      |
| 13 | MTD7C | FPMB | 0 | 3.79972E-08 | FSMB | 0 | 1.27559E-07 | PFP1 | 0 | 2.16377E-04 |    |     |         |      |
| 13 | MTD7C | ODUM | 0 | 1.00410E-05 |      |   |             |      |   |             |    |     |         |      |
| 13 | MTD7D | U5D2 | 0 | 1.58776E-03 | U6D2 | 0 | 3.00730E-05 | U8D2 | 0 | 7.02503E-03 | \$ | D7D | Doppler | T400 |
| 13 | MTD7D | P9D2 | 0 | 6.23519E-07 | P0D2 | 0 | 4.99826E-08 | P1D2 | 0 | 4.96106E-06 |    |     |         |      |
| 13 | MTD7D | P2D2 | 0 | 5.11627E-07 | FXEB | 0 | 1.19583E-08 | FI5B | 0 | 2.00014E-08 |    |     |         |      |
| 13 | MTD7D | FPMB | 0 | 2.69833E-08 | FSMB | 0 | 1.32197E-07 | PFP1 | 0 | 1.52079E-04 |    |     |         |      |
| 13 | MTD7D | ODUM | 0 | 7.25174E-06 |      |   |             |      |   |             |    |     |         |      |
| 13 | MTC3A | U5D2 | 0 | 1.67622E-03 | U6D2 | 0 | 1.39548E-05 | U8D2 | 0 | 7.03477E-03 | \$ | C3A | Doppler | T400 |
| 13 | MTC3A | P9D2 | 0 | 2.91113E-07 | P0D2 | 0 | 1.11439E-08 | P1D2 | 0 | 2.34882E-06 |    |     |         |      |
| 13 | MTC3A | P2D2 | 0 | 1.07566E-07 | FXEB | 0 | 1.15271E-08 | FI5B | 0 | 1.75772E-08 |    |     |         |      |
| 13 | MTC3A | FPMB | 0 | 2.36725E-08 | FSMB | 0 | 1.36523E-07 | PFP1 | 0 | 7.15577E-05 |    |     |         |      |
| 13 | MTC3A | ODUM | 0 | 3.11252E-06 |      |   |             |      |   |             |    |     |         |      |
| 13 | MTC3B | U5D2 | 0 | 1.63936E-03 | U6D2 | 0 | 2.06752E-05 | U8D2 | 0 | 7.03060E-03 | \$ | C3B | Doppler | T400 |
| 13 | MTC3B | P9D2 | 0 | 4.39235E-07 | P0D2 | 0 | 2.48693E-08 | P1D2 | 0 | 3.95960E-06 |    |     |         |      |
| 13 | MTC3B | P2D2 | 0 | 2.73560E-07 | FXEB | 0 | 1.33630E-08 | FI5B | 0 | 2.57121E-08 |    |     |         |      |
| 13 | MTC3B | FPMB | 0 | 3.46725E-08 | FSMB | 0 | 1.34993E-07 | PFP1 | 0 | 1.05181E-04 |    |     |         |      |
| 13 | MTC3B | ODUM | 0 | 4.20417E-06 |      |   |             |      |   |             |    |     |         |      |
| 13 | MTC3C | U5D2 | 0 | 1.63873E-03 | U6D2 | 0 | 2.07816E-05 | U8D2 | 0 | 7.03060E-03 | \$ | C3C | Doppler | T400 |
| 13 | MTC3C | P9D2 | 0 | 4.41280E-07 | P0D2 | 0 | 2.51154E-08 | P1D2 | 0 | 3.98616E-06 |    |     |         |      |
| 13 | MTC3C | P2D2 | 0 | 2.76926E-07 | FXEB | 0 | 1.33839E-08 | FI5B | 0 | 2.58387E-08 |    |     |         |      |
| 13 | MTC3C | FPMB | 0 | 3.48442E-08 | FSMB | 0 | 1.34958E-07 | PFP1 | 0 | 1.05723E-04 |    |     |         |      |
| 13 | MTC3C | ODUM | 0 | 4.22135E-06 |      |   |             |      |   |             |    |     |         |      |
| 13 | MTC3D | U5D2 | 0 | 1.67448E-03 | U6D2 | 0 | 1.42691E-05 | U8D2 | 0 | 7.03477E-03 | \$ | C3D | Doppler | T400 |
| 13 | MTC3D | P9D2 | 0 | 2.97156E-07 | P0D2 | 0 | 1.16273E-08 | P1D2 | 0 | 2.42225E-06 |    |     |         |      |
| 13 | MTC3D | P2D2 | 0 | 1.13498E-07 | FXEB | 0 | 1.16363E-08 | FI5B | 0 | 1.79534E-08 |    |     |         |      |
| 13 | MTC3D | FPMB | 0 | 2.41808E-08 | FSMB | 0 | 1.36586E-07 | PFP1 | 0 | 7.31363E-05 |    |     |         |      |
| 13 | MTC3D | ODUM | 0 | 3.16530E-06 |      |   |             |      |   |             |    |     |         |      |
| 13 | MTC4A | U5D2 | 0 | 1.59402E-03 | U6D2 | 0 | 2.87337E-05 | U8D2 | 0 | 7.02643E-03 | \$ | C4A | Doppler | T400 |
| 13 | MTC4A | P9D2 | 0 | 5.98846E-07 | P0D2 | 0 | 4.62357E-08 | P1D2 | 0 | 4.72510E-06 |    |     |         |      |
| 13 | MTC4A | P2D2 | 0 | 4.59861E-07 | FXEB | 0 | 1.19889E-08 | FI5B | 0 | 2.02267E-08 |    |     |         |      |
| 13 | MTC4A | FPMB | 0 | 2.72809E-08 | FSMB | 0 | 1.31592E-07 | PFP1 | 0 | 1.46134E-04 |    |     |         |      |
| 13 | MTC4A | ODUM | 0 | 6.97427E-06 |      |   |             |      |   |             |    |     |         |      |
| 13 | MTC4B | U5D2 | 0 | 1.52072E-03 | U6D2 | 0 | 4.22163E-05 | U8D2 | 0 | 7.01808E-03 | \$ | C4B | Doppler | T400 |
| 13 | MTC4B | P9D2 | 0 | 8.72323E-07 | P0D2 | 0 | 9.91933E-08 | P1D2 | 0 | 7.58762E-06 |    |     |         |      |
| 13 | MTC4B | P2D2 | 0 | 1.13609E-06 | FXEB | 0 | 1.33943E-08 | FI5B | 0 | 2.91732E-08 |    |     |         |      |
| 13 | MTC4B | FPMB | 0 | 3.94305E-08 | FSMB | 0 | 1.26843E-07 | PFP1 | 0 | 2.12816E-04 |    |     |         |      |
| 13 | MTC4B | ODUM | 0 | 9.81572E-06 |      |   |             |      |   |             |    |     |         |      |
| 13 | MTC4C | U5D2 | 0 | 1.51961E-03 | U6D2 | 0 | 4.24249E-05 | U8D2 | 0 | 7.01808E-03 | \$ | C4C | Doppler | T400 |
| 13 | MTC4C | P9D2 | 0 | 8.75869E-07 | P0D2 | 0 | 1.00090E-07 | P1D2 | 0 | 7.63213E-06 |    |     |         |      |
| 13 | MTC4C | P2D2 | 0 | 1.14937E-06 | FXEB | 0 | 1.34068E-08 | FI5B | 0 | 2.93039E-08 |    |     |         |      |
| 13 | MTC4C | FPMB | 0 | 3.96092E-08 | FSMB | 0 | 1.26759E-07 | PFP1 | 0 | 2.13860E-04 |    |     |         |      |
| 13 | MTC4C | ODUM | 0 | 9.86161E-06 |      |   |             |      |   |             |    |     |         |      |
| 13 | MTC4D | U5D2 | 0 | 1.59068E-03 | U6D2 | 0 | 2.93338E-05 | U8D2 | 0 | 7.02643E-03 | \$ | C4D | Doppler | T400 |
| 13 | MTC4D | P9D2 | 0 | 6.09854E-07 | P0D2 | 0 | 4.80542E-08 | P1D2 | 0 | 4.85334E-06 |    |     |         |      |

|    |                                                                     |                                 |      |                 |             |                 |   |             |                     |
|----|---------------------------------------------------------------------|---------------------------------|------|-----------------|-------------|-----------------|---|-------------|---------------------|
| 13 | MTC4D                                                               | P2D2                            | 0    | 4.83220E-07FXEB | 0           | 1.20695E-08FI5B | 0 | 2.06001E-08 |                     |
| 13 | MTC4D                                                               | FPMB                            | 0    | 2.77879E-08FSMB | 0           | 1.31474E-07PFP1 | 0 | 1.49117E-04 |                     |
| 13 | MTC4D                                                               | ODUM                            | 0    | 7.09666E-06     |             |                 |   |             |                     |
| 13 | MTC5A                                                               | U5D2                            | 0    | 1.50494E-03U6D2 | 0           | 4.46530E-05U8D2 | 0 | 7.01739E-03 | \$ C5A Doppler T400 |
| 13 | MTC5A                                                               | P9D2                            | 0    | 8.66203E-07P0D2 | 0           | 1.06919E-07P1D2 | 0 | 7.08762E-06 |                     |
| 13 | MTC5A                                                               | P2D2                            | 0    | 1.12385E-06FXEB | 0           | 1.19910E-08FI5B | 0 | 2.20716E-08 |                     |
| 13 | MTC5A                                                               | FPMB                            | 0    | 2.98088E-08FSMB | 0           | 1.24875E-07PFP1 | 0 | 2.26453E-04 |                     |
| 13 | MTC5A                                                               | ODUM                            | 0    | 1.17288E-05     |             |                 |   |             |                     |
| 13 | MTC5B                                                               | U5D2                            | 0    | 1.39659E-03U6D2 | 0           | 6.47191E-05U8D2 | 0 | 7.00417E-03 | \$ C5B Doppler T400 |
| 13 | MTC5B                                                               | P9D2                            | 0    | 1.21293E-06P0D2 | 0           | 2.17559E-07P1D2 | 0 | 1.07385E-05 |                     |
| 13 | MTC5B                                                               | P2D2                            | 0    | 2.66266E-06FXEB | 0           | 1.28776E-08FI5B | 0 | 3.09193E-08 |                     |
| 13 | MTC5B                                                               | FPMB                            | 0    | 4.18776E-08FSMB | 0           | 1.17497E-07PFP1 | 0 | 3.24576E-04 |                     |
| 13 | MTC5B                                                               | ODUM                            | 0    | 1.73296E-05     |             |                 |   |             |                     |
| 13 | MTC5C                                                               | U5D2                            | 0    | 1.39492E-03U6D2 | 0           | 6.50243E-05U8D2 | 0 | 7.00417E-03 | \$ C5C Doppler T400 |
| 13 | MTC5C                                                               | P9D2                            | 0    | 1.21704E-06P0D2 | 0           | 2.19367E-07P1D2 | 0 | 1.07914E-05 |                     |
| 13 | MTC5C                                                               | P2D2                            | 0    | 2.69207E-06FXEB | 0           | 1.28825E-08FI5B | 0 | 3.10473E-08 |                     |
| 13 | MTC5C                                                               | FPMB                            | 0    | 4.20535E-08FSMB | 0           | 1.17371E-07PFP1 | 0 | 3.26106E-04 |                     |
| 13 | MTC5C                                                               | ODUM                            | 0    | 1.74270E-05     |             |                 |   |             |                     |
| 13 | MTC5D                                                               | U5D2                            | 0    | 1.50021E-03U6D2 | 0           | 4.55271E-05U8D2 | 0 | 7.01669E-03 | \$ C5D Doppler T400 |
| 13 | MTC5D                                                               | P9D2                            | 0    | 8.80389E-07P0D2 | 0           | 1.10744E-07P1D2 | 0 | 7.25382E-06 |                     |
| 13 | MTC5D                                                               | P2D2                            | 0    | 1.17656E-06FXEB | 0           | 1.20466E-08FI5B | 0 | 2.24277E-08 |                     |
| 13 | MTC5D                                                               | FPMB                            | 0    | 3.02935E-08FSMB | 0           | 1.24652E-07PFP1 | 0 | 2.30751E-04 |                     |
| 13 | MTC5D                                                               | ODUM                            | 0    | 1.19492E-05     |             |                 |   |             |                     |
| 13 | MTC6A                                                               | U5D2                            | 0    | 1.50967E-03U6D2 | 0           | 4.40675E-05U8D2 | 0 | 7.01739E-03 | \$ C6A Doppler T400 |
| 13 | MTC6A                                                               | P9D2                            | 0    | 8.77469E-07P0D2 | 0           | 1.04889E-07P1D2 | 0 | 6.89736E-06 |                     |
| 13 | MTC6A                                                               | P2D2                            | 0    | 1.08853E-06FXEB | 0           | 1.16801E-08FI5B | 0 | 2.04645E-08 |                     |
| 13 | MTC6A                                                               | FPMB                            | 0    | 2.76363E-08FSMB | 0           | 1.25348E-07PFP1 | 0 | 2.22594E-04 |                     |
| 13 | MTC6A                                                               | ODUM                            | 0    | 1.15932E-05     |             |                 |   |             |                     |
| 13 | MTC6B                                                               | U5D2                            | 0    | 1.40229E-03U6D2 | 0           | 6.40362E-05U8D2 | 0 | 7.00417E-03 | \$ C6B Doppler T400 |
| 13 | MTC6B                                                               | P9D2                            | 0    | 1.23171E-06P0D2 | 0           | 2.14847E-07P1D2 | 0 | 1.05299E-05 |                     |
| 13 | MTC6B                                                               | P2D2                            | 0    | 2.59152E-06FXEB | 0           | 1.26871E-08FI5B | 0 | 2.90716E-08 |                     |
| 13 | MTC6B                                                               | FPMB                            | 0    | 3.93700E-08FSMB | 0           | 1.17969E-07PFP1 | 0 | 3.19944E-04 |                     |
| 13 | MTC6B                                                               | ODUM                            | 0    | 1.71120E-05     |             |                 |   |             |                     |
| 13 | MTC6C                                                               | U5D2                            | 0    | 1.40056E-03U6D2 | 0           | 6.43588E-05U8D2 | 0 | 7.00417E-03 | \$ C6C Doppler T400 |
| 13 | MTC6C                                                               | P9D2                            | 0    | 1.23616E-06P0D2 | 0           | 2.16739E-07P1D2 | 0 | 1.05862E-05 |                     |
| 13 | MTC6C                                                               | P2D2                            | 0    | 2.62197E-06FXEB | 0           | 1.26933E-08FI5B | 0 | 2.91975E-08 |                     |
| 13 | MTC6C                                                               | FPMB                            | 0    | 3.95431E-08FSMB | 0           | 1.17844E-07PFP1 | 0 | 3.21544E-04 |                     |
| 13 | MTC6C                                                               | ODUM                            | 0    | 1.72135E-05     |             |                 |   |             |                     |
| 13 | MTC6D                                                               | U5D2                            | 0    | 1.50424E-03U6D2 | 0           | 4.50605E-05U8D2 | 0 | 7.01669E-03 | \$ C6D Doppler T400 |
| 13 | MTC6D                                                               | P9D2                            | 0    | 8.93324E-07P0D2 | 0           | 1.09152E-07P1D2 | 0 | 7.08693E-06 |                     |
| 13 | MTC6D                                                               | P2D2                            | 0    | 1.14791E-06FXEB | 0           | 1.17455E-08FI5B | 0 | 2.08414E-08 |                     |
| 13 | MTC6D                                                               | FPMB                            | 0    | 2.81502E-08FSMB | 0           | 1.25070E-07PFP1 | 0 | 2.27483E-04 |                     |
| 13 | MTC6D                                                               | ODUM                            | 0    | 1.18421E-05     |             |                 |   |             |                     |
| 13 | MTC7A                                                               | U5D2                            | 0    | 1.67017E-03U6D2 | 0           | 1.50869E-05U8D2 | 0 | 7.03407E-03 | \$ C7A Doppler T400 |
| 13 | MTC7A                                                               | P9D2                            | 0    | 3.12399E-07P0D2 | 0           | 1.29200E-08P1D2 | 0 | 2.60925E-06 |                     |
| 13 | MTC7A                                                               | P2D2                            | 0    | 1.29458E-07FXEB | 0           | 1.19033E-08FI5B | 0 | 1.89089E-08 |                     |
| 13 | MTC7A                                                               | FPMB                            | 0    | 2.54729E-08FSMB | 0           | 1.36460E-07PFP1 | 0 | 7.71488E-05 |                     |
| 13 | MTC7A                                                               | ODUM                            | 0    | 3.29951E-06     |             |                 |   |             |                     |
| 13 | MTC7B                                                               | U5D2                            | 0    | 1.63060E-03U6D2 | 0           | 2.23248E-05U8D2 | 0 | 7.02990E-03 | \$ C7B Doppler T400 |
| 13 | MTC7B                                                               | P9D2                            | 0    | 4.69103E-07P0D2 | 0           | 2.86752E-08P1D2 | 0 | 4.35070E-06 |                     |
| 13 | MTC7B                                                               | P2D2                            | 0    | 3.25800E-07FXEB | 0           | 1.36794E-08FI5B | 0 | 2.76092E-08 |                     |
| 13 | MTC7B                                                               | FPMB                            | 0    | 3.72441E-08FSMB | 0           | 1.34548E-07PFP1 | 0 | 1.13241E-04 |                     |
| 13 | MTC7B                                                               | ODUM                            | 0    | 4.46648E-06     |             |                 |   |             |                     |
| 13 | MTC7C                                                               | U5D2                            | 0    | 1.62990E-03U6D2 | 0           | 2.24451E-05U8D2 | 0 | 7.02990E-03 | \$ C7C Doppler T400 |
| 13 | MTC7C                                                               | P9D2                            | 0    | 4.71370E-07P0D2 | 0           | 2.89708E-08P1D2 | 0 | 4.38074E-06 |                     |
| 13 | MTC7C                                                               | P2D2                            | 0    | 3.29972E-07FXEB | 0           | 1.37003E-08FI5B | 0 | 2.77517E-08 |                     |
| 13 | MTC7C                                                               | FPMB                            | 0    | 3.74374E-08FSMB | 0           | 1.34506E-07PFP1 | 0 | 1.13853E-04 |                     |
| 13 | MTC7C                                                               | ODUM                            | 0    | 4.48588E-06     |             |                 |   |             |                     |
| 13 | MTC7D                                                               | U5D2                            | 0    | 1.66808E-03U6D2 | 0           | 1.54631E-05U8D2 | 0 | 7.03407E-03 | \$ C7D Doppler T400 |
| 13 | MTC7D                                                               | P9D2                            | 0    | 3.19318E-07P0D2 | 0           | 1.35306E-08P1D2 | 0 | 2.69847E-06 |                     |
| 13 | MTC7D                                                               | P2D2                            | 0    | 1.37344E-07FXEB | 0           | 1.20216E-08FI5B | 0 | 1.93588E-08 |                     |
| 13 | MTC7D                                                               | FPMB                            | 0    | 2.60807E-08FSMB | 0           | 1.36481E-07PFP1 | 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-02SIF4 | 0           | 5.94365E-03     |   |             |                     |
| 13 | H2OBE                                                               | BE-H                            | 0    | 6.68610E-02BE-O | 0           | 3.34305E-02     |   |             |                     |
| 13 | H2OG                                                                | G-H                             | 0    | 6.68610E-02G-O  | 0           | 3.34305E-02     |   |             |                     |
| 13 | H2ORB                                                               | RB-H                            | 0    | 6.68610E-02RB-O | 0           | 3.34305E-02     |   |             |                     |
| 13 | H2OR                                                                | HH2O                            | 0    | 6.68610E-02OH2O | 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-02OS4  | 0           | 3.34305E-02     |   |             |                     |
| 13 | H2OCR                                                               | CRH                             | 0    | 6.68610E-02CRO  | 0           | 3.34305E-02     |   |             |                     |
| 13 | ALS                                                                 | ALS4                            | 0    | 6.02669E-02B10S | 0           | 2.98636E-07B11S | 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 CNTL10CNTL20CNTL30CNTL40
15      CNTLI CNTL11CNTL21CNTL31CNTL41
15      BLADE BLADE1BLADE2BLADE3BLADE4
15      REFGR GRAF1 GRAF5 GRAF6 GRAG1 GRAG2
15      REFGR G-E9
15      GBOX GSBOX
15      SHIELDSHIELD
15      THERM TC1 TC2
15      POSTS POST3 POST4 POST1 POST2

```

```
15      BOX      GBOX  TCB1  TCB2
1  move E4 to D4, E5
15      ME4A     E5A
15      ME4B     E5B
15      ME4C     E5C
15      ME4D     E5D
```

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

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

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

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

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

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

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

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

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

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

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

```
9 MOVE C7 TO D7
15      MC7A     D7A
15      MC7B     D7B
15      MC7C     D7C
```

```

15      MC7D  D7D

10 MOVE E3 TO D3
15      ME3A  D3A
15      ME3B  D3B
15      ME3C  D3C
15      ME3D  D3D

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

DATASET=A.BURN
01      RINSC  LEU
      core3+4 new fuel, 2MW 100 days rundown
02      0280000      0      0.001      1.000      1.0000      1      1
03      0      0.0      0.0      7.00      -1.000      7      0
09      U235      1U236
09      U235      2XE135      2.4200-03 PM149      1.0666-02
09      U235      2I135      6.2966-02 ETFP      1.000
09      U235      5U234
09      U236      1DUMP
09      U236      2XE135      1.5847-03 PM149      1.3691-02
09      U236      2I135      5.6307-02 ETFP      1.000
09      U236      5U235
09      U238      1PU239
09      U238      2XE135      2.8000-04 PM149      1.6100-02
09      U238      2I135      6.8349-02 ETFP      1.000
09      U238      5DUMP
09      PU239      1PU240
09      PU239      2XE135      1.1524-02 PM149      1.2390-02
09      PU239      2I135      6.4494-02 ETFP      1.000
09      PU239      5DUMP
09      PU239      8U235
09      PU240      1PU241
09      PU240      2XE135      6.9843-03 PM149      1.3690-02
09      PU240      2I135      6.7476-02 ETFP      1.000
09      PU240      8U236
09      PU241      1PU242
09      PU241      2XE135      2.3140-03 PM149      1.5240-02
09      PU241      2I135      7.0698-02 ETFP      1.000
09      PU241      8DUMP
09      PU242      1DUMP
09      PU242      2XE135      2.6448-03 PM149      1.6152-02
09      PU242      2I135      6.9001-02 ETFP      1.000
09      PU242      5PU241
09      PU242      8U238
09      XE135      6DUMP
09      XE135      1DUMP
09      I135      1DUMP
09      I135      6XE135
09      PM149      6SM149
09      SM149      1DUMP
09      ETFP      1DUMP
09      DUMP      0
10      U235      U5D2 0
10      U236      U6D2 0
10      U238      U8D2 0
10      PU239      P9D2 0
10      PU240      P0D2 0
10      PU241      P1D2 0
10      PU242      P2D2 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 |
| 45 | FMD3D | D3D |

[illegible]