

Appendix C

Input / Output of MATSTAB

C.1 Screen Output of MATSTAB

Command:

```
MATALAB>> matstab f2/f2_moc_14.dat
```

Output:

```
Plant: f2 File: /matlab/matstab/input/f2/f2_moc_14.dat
```

```
Ramona file: /matlab/matstab/input/f2/parameter.inp
```

Power-Void Iteration:

| It. nr | Rel. Err. neu | Rel. Err. th | Keff |
|--------|---------------|--------------|---------|
| 1 | -0.06152 | -0.99974 | 0.99875 |
| 2 | 0.04869 | -0.10821 | 0.99959 |
| 3 | -0.00960 | 0.01933 | 0.99954 |
| 4 | 0.00376 | -0.00392 | 0.99956 |

keff: 0.99956

Input preparation CPU-time: 134.09 s

Input preparation Real time: 145.2023 s

| It.# | dr | freq. | tol |
|------|--------|--------|-------------|
| | 0.5416 | 0.4319 | 2.29477e-10 |
| | 0.5314 | 0.4251 | 6.52154e-12 |
| | 0.5388 | 0.4249 | 3.72006e-12 |
| 1 | 0.5388 | 0.4249 | 3.72006e-12 |
| | 0.5405 | 0.4253 | 1.93813e-11 |
| 2 | 0.5405 | 0.4253 | 1.93813e-11 |

Eigenvalue calculation for Harmonics no. 1:

| It.# | dr | freq. | tol |
|------|--------|--------|-------------|
| | 0.4292 | 0.4009 | 1.06655e-09 |
| | 0.4352 | 0.3948 | 9.05887e-10 |
| | 0.4645 | 0.3952 | 8.22336e-10 |
| 1 | 0.4645 | 0.3952 | 8.22336e-10 |
| | 0.4798 | 0.3979 | 2.37738e-10 |
| | 0.4777 | 0.3996 | 1.01786e-10 |
| | 0.4728 | 0.4000 | 5.57586e-11 |
| 2 | 0.4728 | 0.4000 | 5.57586e-11 |

Total CPU-time: 656.98 s

DOWNCOMER2

| | | | | | |
|--------|---|------|-------|-------|------|
| 220000 | 6 | 0.72 | 4.384 | 0.128 | -0.0 |
|--------|---|------|-------|-------|------|

LOWER PLENUM 1

| | | | | | |
|--------|---|------|-----|-----|------|
| 230000 | 2 | 9.26 | 6.0 | 6.1 | -0.0 |
|--------|---|------|-----|-----|------|

LOWER PLENUM 2

| | | | | | |
|--------|---|-------|------|------|------|
| 240000 | 3 | 10.51 | 1.79 | 0.30 | -0.0 |
|--------|---|-------|------|------|------|

RISER

| | | | | | |
|--------|---|-----|-----|-------|------|
| 260000 | 5 | 7.4 | 3.4 | 0.154 | -7.0 |
|--------|---|-----|-----|-------|------|

STEAM DOME

| | | | | | |
|--------|--|-------|------|------|-------|
| | | A | H | DH | WLEV |
| 270000 | | 20.96 | 8.46 | 5.17 | 0.567 |

FW AND PUMP LOCATION

| | | | | | |
|--------|--|------|------|-----|-----|
| | | NFW1 | NFW2 | NP1 | NP2 |
| 290000 | | 5 | 1 | 7 | 2 |

ASSEMBLY IDENTIFIER

| | | |
|--------|----|--------|
| 332000 | 1 | "A84" |
| 332000 | 2 | "B84" |
| 332000 | 3 | "B85" |
| 332000 | 4 | "C84" |
| 332000 | 5 | "C85" |
| 332000 | 6 | "D85" |
| 332000 | 7 | "E85" |
| 332000 | 8 | "E86" |
| 332000 | 9 | "F86" |
| 332000 | 10 | "G86" |
| 332000 | 11 | "H87" |
| 332000 | 12 | "I87" |
| 332000 | 13 | "J88" |
| 332000 | 14 | "J89" |
| 332000 | 15 | "K88" |
| 332000 | 16 | "K90" |
| 332000 | 17 | "L90" |
| 332000 | 18 | "M90" |
| 332000 | 19 | "N90" |
| 332000 | 20 | "N90R" |
| 332000 | 21 | "N90A" |
| 332000 | 22 | "L91" |
| 332000 | 23 | "M91" |
| 332000 | 24 | "O91" |
| 332000 | 25 | "O91R" |
| 332000 | 26 | "R91" |

```

332000  27 "092"
332000  28 "P92"
332000  29 "R92"
332000  30 "S92"
332000  31 "S92R"
332000  32 "S92A"
332000  33 "T92"
332000  34 "T92R"
332000  35 "T92A"
332000  36 "W92"
332000  37 "W92R"
332000  38 "P93"
332000  39 "S93"
332000  40 "T93"
332000  41 "T93R"
332000  42 "U93"
332000  43 "U93R"
332000  44 "X93"
332000  45 "X93R"
332000  46 "U94"
332000  47 "X94"
332000  48 "Y94"
332000  49 "Y94R"
332000  50 "Z94"
332000  51 "B95"
332000  52 "C95"
332000  53 "A95"
332000  54 "Y95"
332000  55 "D95"
332000  56 "B96"
332000  57 "D96"
332000  58 "E96"
332000  59 "F96"

```

```

*****
***** NUCLEAR DATA *****
*****

```

```

          CRITK  BG21  BG22  AB1   AB2   DREF
400000      1.0    0    0    0    0    1.6
          CREF   DAVER
401000     -0.0667  1.597
          -0.1132 -0.4704 24.57  25.04

```

(BL (I) , I=1, NBE)

```

420000  0.1408  0.0889  0.0830  0.0902  0.0938  0.1551  0.1452
420000  0.0704  0.0113  0.0098  0.0770  0.1635  0.1223  0.0137
420000 -0.0106  0.1310  0.1554  0.0668  0.0019  0.0151  0.0655
420000  0.1551  0.1287  0.0071  0.0068  0.1279  0.1325  0.0074
420000  0.0068  0.1325  0.1279  0.0068  0.0074  0.1287  0.1551
420000  0.0068  0.0071  0.1554  0.0655  0.0668  0.1310  0.0151
420000  0.0019  0.1223  0.1635 -0.0106  0.0137  0.1452  0.0770
420000  0.0704  0.1551  0.0098  0.0113  0.1408  0.0938  0.0889
420000  0.0902  0.0830

```

(BE(I), I=1, NBE)

```

430000  0.0306  0.0220  0.0247  0.0246  0.0214  0.0298  0.0269
430000  0.0291 -0.0130 -0.0319  0.0276  0.0283  0.0318  0.0155
430000  0.0814  0.0324  0.0273  0.0321 -0.0566  0.0134  0.0320
430000  0.0269  0.0306 -0.0412 -0.0369  0.0303  0.0300 -0.0252
430000 -0.0389  0.0300  0.0303 -0.0389 -0.0252  0.0360  0.0269
430000 -0.0369 -0.0412  0.0273  0.0320  0.0320  0.0324  0.0134
430000 -0.0566  0.0318  0.0283  0.0814  0.0155  0.0269  0.0276
430000  0.0291  0.0298 -0.0319 -0.0130  0.0306  0.0214  0.0220
430000  0.0246  0.0247

```

KINETIC PARAMETERS

```

      cycl 7           NG  VEL1      VEL2
490000           6  1.7457E+7  3.9401E+05

```

(B(I), I=1, NG)

```

491000  0.1555E-3  1.1825E-3  1.0573E-3
      2.1438E-3  0.7703E-3  0.2674E-3

```

(AL(I), I=1, NG)

```

492000  0.0124  0.0305  0.111  0.301  1.14  3.01

```

```

499000  2.835181e-03  -4.514440e-05  4.783549e-07
      5.814993e-05  -6.998074e-05

```

```

*****
***** THERMAL HYDRAULIC MODEL *****
*****

```

(CSS(I), I=1, 4)

```

500000  1.9  0.25  0.9  0.147

```

BOILING MODEL

(CPB(I), I=1,3) CRT(1)
(Martinelli-Nelson)
501000 5.0E+6 4.0E+7 0.0 2400

FUEL PIN MODEL

| | NRODS | RCA | DRCA |
|--------|-------|----------|--------|
| 520001 | 62 | 0.006135 | 8.1E-4 |
| 520002 | 62 | 0.006135 | 8.1E-4 |
| 520003 | 62 | 0.006135 | 8.1E-4 |
| 520004 | 62 | 0.006135 | 8.1E-4 |
| 520005 | 62 | 0.006135 | 8.1E-4 |
| 520006 | 62 | 0.006135 | 8.1E-4 |
| 520007 | 62 | 0.006135 | 8.1E-4 |
| 520008 | 62 | 0.006135 | 8.1E-4 |
| 520009 | 62 | 0.006135 | 8.1E-4 |
| 520010 | 62 | 0.006135 | 8.1E-4 |
| 520011 | 62 | 0.006135 | 8.1E-4 |
| 520012 | 72 | 0.006135 | 8.1E-4 |
| 520013 | 62 | 0.006135 | 8.1E-4 |
| 520014 | 62 | 0.006135 | 8.1E-4 |
| 520015 | 62 | 0.006135 | 8.1E-4 |
| 520016 | 62 | 0.006135 | 8.1E-4 |
| 520017 | 60 | 0.006135 | 8.1E-4 |
| 520018 | 60 | 0.006135 | 8.1E-4 |
| 520019 | 60 | 0.006135 | 8.1E-4 |
| 520020 | 60 | 0.006135 | 8.1E-4 |
| 520021 | 60 | 0.006135 | 8.1E-4 |
| 520022 | 60 | 0.006135 | 8.1E-4 |
| 520023 | 60 | 0.006135 | 8.1E-4 |
| 520024 | 96 | 0.004810 | 6.3E-4 |
| 520025 | 96 | 0.004810 | 6.3E-4 |
| 520026 | 96 | 0.004810 | 6.3E-4 |
| 520027 | 96 | 0.004810 | 6.3E-4 |
| 520028 | 96 | 0.004810 | 6.3E-4 |
| 520029 | 96 | 0.004810 | 6.3E-4 |
| 520030 | 96 | 0.004810 | 6.3E-4 |
| 520031 | 96 | 0.004810 | 6.3E-4 |
| 520032 | 96 | 0.004810 | 6.3E-4 |
| 520033 | 96 | 0.004810 | 6.3E-4 |
| 520034 | 96 | 0.004810 | 6.3E-4 |
| 520035 | 96 | 0.004810 | 6.3E-4 |
| 520036 | 96 | 0.004810 | 6.3E-4 |
| 520037 | 96 | 0.004810 | 6.3E-4 |
| 520038 | 96 | 0.004810 | 6.3E-4 |

| | | | |
|--------|----|----------|--------|
| 520039 | 96 | 0.004810 | 6.3E-4 |
| 520040 | 96 | 0.004810 | 6.3E-4 |
| 520041 | 96 | 0.004810 | 6.3E-4 |
| 520042 | 96 | 0.004810 | 6.3E-4 |
| 520043 | 96 | 0.004810 | 6.3E-4 |
| 520044 | 96 | 0.004810 | 6.3E-4 |
| 520045 | 96 | 0.004810 | 6.3E-4 |
| 520046 | 96 | 0.004810 | 6.3E-4 |
| 520047 | 96 | 0.004810 | 6.3E-4 |
| 520048 | 96 | 0.004810 | 6.3E-4 |
| 520049 | 96 | 0.004810 | 6.3E-4 |
| 520050 | 96 | 0.004810 | 6.3E-4 |
| 520051 | 96 | 0.004810 | 6.3E-4 |
| 520052 | 96 | 0.004810 | 6.3E-4 |
| 520053 | 96 | 0.004810 | 6.3E-4 |
| 520054 | 96 | 0.004810 | 6.3E-4 |
| 520055 | 96 | 0.004810 | 6.3E-4 |
| 520056 | 96 | 0.004810 | 6.3E-4 |
| 520057 | 96 | 0.004810 | 6.3E-4 |
| 520058 | 96 | 0.004810 | 6.3E-4 |
| 520059 | 96 | 0.004810 | 6.3E-4 |

Data from ABB Report NTD 94-350

| | E1 | E2 | RLCA | GCAMAX | GC40 | GC41 | GC42 |
|--------|---------|-----------|------|--------|-----------|---------|-----------|
| 521001 | 10.0507 | 2.1196E-3 | 16.0 | 21000 | 3.8489E+3 | -3.1009 | 5.7648E-3 |
| 521002 | 10.0507 | 2.1196E-3 | 16.0 | 21000 | 3.8489E+3 | -3.1009 | 5.7648E-3 |
| 521003 | 10.0507 | 2.1196E-3 | 16.0 | 21000 | 3.8489E+3 | -3.1009 | 5.7648E-3 |
| 521004 | 10.0507 | 2.1196E-3 | 16.0 | 21000 | 3.8489E+3 | -3.1009 | 5.7648E-3 |
| 521005 | 10.0507 | 2.1196E-3 | 16.0 | 21000 | 3.8489E+3 | -3.1009 | 5.7648E-3 |
| 521006 | 10.0507 | 2.1196E-3 | 16.0 | 21000 | 3.8489E+3 | -3.1009 | 5.7648E-3 |
| 521007 | 10.0507 | 2.1196E-3 | 16.0 | 21000 | 3.8489E+3 | -3.1009 | 5.7648E-3 |
| 521008 | 10.0507 | 2.1196E-3 | 16.0 | 21000 | 3.8489E+3 | -3.1009 | 5.7648E-3 |
| 521009 | 10.0507 | 2.1196E-3 | 16.0 | 21000 | 3.8489E+3 | -3.1009 | 5.7648E-3 |
| 521010 | 10.0507 | 2.1196E-3 | 16.0 | 21000 | 3.8489E+3 | -3.1009 | 5.7648E-3 |
| 521011 | 10.0507 | 2.1196E-3 | 16.0 | 21000 | 3.8489E+3 | -3.1009 | 5.7648E-3 |
| 521012 | 10.0507 | 2.1196E-3 | 16.0 | 21000 | 3.8489E+3 | -3.1009 | 5.7648E-3 |
| 521013 | 10.0507 | 2.1196E-3 | 16.0 | 21000 | 3.8489E+3 | -3.1009 | 5.7648E-3 |
| 521014 | 10.0507 | 2.1196E-3 | 16.0 | 21000 | 3.8489E+3 | -3.1009 | 5.7648E-3 |
| 521015 | 10.0507 | 2.1196E-3 | 16.0 | 21000 | 3.8489E+3 | -3.1009 | 5.7648E-3 |
| 521016 | 10.0507 | 2.1196E-3 | 16.0 | 21000 | 3.8489E+3 | -3.1009 | 5.7648E-3 |
| 521017 | 10.0507 | 2.1196E-3 | 16.0 | 21000 | 3.8489E+3 | -3.1009 | 5.7648E-3 |
| 521018 | 10.0507 | 2.1196E-3 | 16.0 | 21000 | 3.8489E+3 | -3.1009 | 5.7648E-3 |
| 521019 | 10.0507 | 2.1196E-3 | 16.0 | 21000 | 3.8489E+3 | -3.1009 | 5.7648E-3 |
| 521020 | 10.0507 | 2.1196E-3 | 16.0 | 21000 | 3.8489E+3 | -3.1009 | 5.7648E-3 |

| | | | | | | | |
|--------|------------|-------------|-------------|-------|-----------|---------|-----------|
| 521021 | 10.0507 | 2.1196E-3 | 16.0 | 21000 | 3.8489E+3 | -3.1009 | 5.7648E-3 |
| 521022 | 10.0507 | 2.1196E-3 | 16.0 | 21000 | 3.8489E+3 | -3.1009 | 5.7648E-3 |
| 521023 | 10.0507 | 2.1196E-3 | 16.0 | 21000 | 3.8489E+3 | -3.1009 | 5.7648E-3 |
| 521024 | 9.9802 | 2.1292E-3 | 16.0 | 20000 | 4.9439E+3 | -2.0730 | 6.2922E-3 |
| 521025 | 9.9802 | 2.1292E-3 | 16.0 | 20000 | 4.9439E+3 | -2.0730 | 6.2922E-3 |
| 521026 | 9.9802 | 2.1292E-3 | 16.0 | 20000 | 4.9439E+3 | -2.0730 | 6.2922E-3 |
| 521027 | 9.9802 | 2.1292E-3 | 16.0 | 20000 | 4.9439E+3 | -2.0730 | 6.2922E-3 |
| 521028 | 9.9802 | 2.1292E-3 | 16.0 | 20000 | 4.9439E+3 | -2.0730 | 6.2922E-3 |
| 521029 | 9.9802 | 2.1292E-3 | 16.0 | 20000 | 4.9439E+3 | -2.0730 | 6.2922E-3 |
| 521030 | 9.9802 | 2.1292E-3 | 16.0 | 20000 | 4.9439E+3 | -2.0730 | 6.2922E-3 |
| 521031 | 9.9802 | 2.1292E-3 | 16.0 | 20000 | 4.9439E+3 | -2.0730 | 6.2922E-3 |
| 521032 | 9.9802 | 2.1292E-3 | 16.0 | 20000 | 4.9439E+3 | -2.0730 | 6.2922E-3 |
| 521033 | 9.9802 | 2.1292E-3 | 16.0 | 20000 | 4.9439E+3 | -2.0730 | 6.2922E-3 |
| 521034 | 9.9802 | 2.1292E-3 | 16.0 | 20000 | 4.9439E+3 | -2.0730 | 6.2922E-3 |
| 521035 | 9.9802 | 2.1292E-3 | 16.0 | 20000 | 4.9439E+3 | -2.0730 | 6.2922E-3 |
| 521036 | 9.9802 | 2.1292E-3 | 16.0 | 20000 | 4.9439E+3 | -2.0730 | 6.2922E-3 |
| 521037 | 9.9802 | 2.1292E-3 | 16.0 | 20000 | 4.9439E+3 | -2.0730 | 6.2922E-3 |
| 521038 | 9.9802 | 2.1292E-3 | 16.0 | 20000 | 4.9439E+3 | -2.0730 | 6.2922E-3 |
| 521039 | 9.9802 | 2.1292E-3 | 16.0 | 20000 | 4.9439E+3 | -2.0730 | 6.2922E-3 |
| 521040 | 9.9802 | 2.1292E-3 | 16.0 | 20000 | 4.9439E+3 | -2.0730 | 6.2922E-3 |
| 521041 | 9.9802 | 2.1292E-3 | 16.0 | 20000 | 4.9439E+3 | -2.0730 | 6.2922E-3 |
| 521042 | 9.9802 | 2.1292E-3 | 16.0 | 20000 | 4.9439E+3 | -2.0730 | 6.2922E-3 |
| 521043 | 9.9802 | 2.1292E-3 | 16.0 | 20000 | 4.9439E+3 | -2.0730 | 6.2922E-3 |
| 521044 | 9.9802 | 2.1292E-3 | 16.0 | 20000 | 4.9439E+3 | -2.0730 | 6.2922E-3 |
| 521045 | 9.9802 | 2.1292E-3 | 16.0 | 20000 | 4.9439E+3 | -2.0730 | 6.2922E-3 |
| 521046 | 9.9802 | 2.1292E-3 | 16.0 | 20000 | 4.9439E+3 | -2.0730 | 6.2922E-3 |
| 521047 | 9.9802 | 2.1292E-3 | 16.0 | 20000 | 4.9439E+3 | -2.0730 | 6.2922E-3 |
| 521048 | 9.9802 | 2.1292E-3 | 16.0 | 20000 | 4.9439E+3 | -2.0730 | 6.2922E-3 |
| 521049 | 9.9802 | 2.1292E-3 | 16.0 | 20000 | 4.9439E+3 | -2.0730 | 6.2922E-3 |
| 521050 | 9.9802 | 2.1292E-3 | 16.0 | 20000 | 4.9439E+3 | -2.0730 | 6.2922E-3 |
| 521051 | 9.9802 | 2.1292E-3 | 16.0 | 20000 | 4.9439E+3 | -2.0730 | 6.2922E-3 |
| 521052 | 9.9802 | 2.1292E-3 | 16.0 | 20000 | 4.9439E+3 | -2.0730 | 6.2922E-3 |
| 521053 | 9.9802 | 2.1292E-3 | 16.0 | 20000 | 4.9439E+3 | -2.0730 | 6.2922E-3 |
| 521054 | 9.9802 | 2.1292E-3 | 16.0 | 20000 | 4.9439E+3 | -2.0730 | 6.2922E-3 |
| 521055 | 9.9802 | 2.1292E-3 | 16.0 | 20000 | 4.9439E+3 | -2.0730 | 6.2922E-3 |
| 521056 | 9.9802 | 2.1292E-3 | 16.0 | 20000 | 4.9439E+3 | -2.0730 | 6.2922E-3 |
| 521057 | 9.9802 | 2.1292E-3 | 16.0 | 20000 | 4.9439E+3 | -2.0730 | 6.2922E-3 |
| 521058 | 9.9802 | 2.1292E-3 | 16.0 | 20000 | 4.9439E+3 | -2.0730 | 6.2922E-3 |
| 521059 | 9.9802 | 2.1292E-3 | 16.0 | 20000 | 4.9439E+3 | -2.0730 | 6.2922E-3 |
| 522000 | 0.23709E+7 | 0.26470E+4 | -0.28373E+1 | | | | |
| | 0.12498E-2 | -0.12066E-6 | 0.20301E+7 | | | | |
| | MM | MMC | | | | | |
| 523000 | 4 | 2 | | | | | |

PUMP MODEL

| | IPUMP | IJPUMP |
|--------|-------|--------|
| 540000 | 3 | 20 |

JET PUMP PARAMETERS

| | IDRL | ANOZ | ASCT | ATHR | RKDR | RKSCT | RJJP |
|--------|------|---------|---------|---------|--------|-----------|------|
| 542000 | 2 | 0.00323 | 0.01764 | 0.02087 | 0.0845 | 0.0006689 | 639. |

| | IFLOWP | IDISTP |
|--------|--------|--------|
| 547000 | 0 | 1 |

| | PUMPNR | PINERT | FLOWR | HEADR | DENSR | TORQHR | PDIFFL |
|--------|--------|--------|-------|-------|-------|--------|--------|
| 547100 | 155.5 | 808.6 | 2.37 | 192 | 755 | 25127 | -2.605 |

HOMOLOGOUS PUMP CURVES (from TRAC input)

KHS1... XHS1(1,6)...q/w

| | | | | | | | | | | | |
|--------|----|--------|-------|-------|-------|-----|-----|-----|-----|-----|-----|
| 547211 | 10 | -0.480 | -0.40 | -0.30 | -0.20 | 0.0 | 0.2 | 0.4 | 0.6 | 0.8 | 1.0 |
|--------|----|--------|-------|-------|-------|-----|-----|-----|-----|-----|-----|

KHS1....HEADS1 h/w**2

| | | | | | | | | | | | |
|--------|----|------|------|------|------|------|------|------|------|------|-----|
| 547212 | 10 | 1.37 | 1.33 | 1.27 | 1.24 | 1.22 | 1.20 | 1.17 | 1.14 | 1.08 | 1.0 |
|--------|----|------|------|------|------|------|------|------|------|------|-----|

KHS2....XHS2(k)...w/q

| | | | | | | | | | | | |
|--------|----|-------|--------|-------|-----|-----|-----|-----|-----|-----|-----|
| 547213 | 10 | -0.40 | -0.275 | -0.10 | 0.0 | 0.1 | 0.3 | 0.4 | 0.5 | 0.8 | 1.0 |
|--------|----|-------|--------|-------|-----|-----|-----|-----|-----|-----|-----|

KHS2....HEADS2...h/q**2

| | | | | | | | | | | | |
|--------|----|-------|-------|-------|-------|-------|-------|-------|---|-------|-----|
| 547214 | 10 | -0.38 | -0.40 | -0.38 | -0.35 | -0.32 | -0.20 | -0.14 | 0 | 0.545 | 1.0 |
|--------|----|-------|-------|-------|-------|-------|-------|-------|---|-------|-----|

KTS1 XTS1(K), K=1, KTS1...q/w

| | | | | | | | | | | |
|--------|---|------|-----|-----|-----|-----|-----|-----|------|-----|
| 547231 | 9 | -0.2 | 0.0 | 0.2 | 0.4 | 0.6 | 0.8 | 0.9 | 0.95 | 1.0 |
|--------|---|------|-----|-----|-----|-----|-----|-----|------|-----|

KTS1 TORQS1(K), K=1, KTS1...beta/w**2

| | | | | | | | | | | |
|--------|---|------|------|------|------|------|------|------|------|------|
| 547232 | 9 | 0.49 | 0.54 | 0.59 | 0.65 | 0.77 | 0.95 | 0.98 | 0.96 | 0.87 |
|--------|---|------|------|------|------|------|------|------|------|------|

KTS2 XTS2(K), K=1, KTS2....w/q

| | | | | | | | | | | |
|--------|---|------|-----|-----|-----|-----|-----|-----|------|-----|
| 547233 | 9 | -0.2 | 0.0 | 0.2 | 0.4 | 0.6 | 0.8 | 0.9 | 0.95 | 1.0 |
|--------|---|------|-----|-----|-----|-----|-----|-----|------|-----|

KTS2 TORQS2(K), K=1, KTS2....beta/q**2

| | | | | | | | | | | |
|--------|---|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| 547234 | 9 | -0.31 | -0.15 | -0.02 | -0.220 | 0.460 | 0.710 | 0.810 | 0.850 | 0.870 |
|--------|---|-------|-------|-------|--------|-------|-------|-------|-------|-------|

| | B1PUMP | B2PUMP | B3PUMP | OMEG1P | OMEG2P |
|--------|--------|--------|--------|--------|--------|
| 547300 | 0.486 | 8.05 | 25.6 | 1.6E-4 | 4.7 |

| | PSLIPM | PTORQM |
|--------|--------|--------|
| 547400 | 0.07 | 10000 |

| | RLAD | WDR |
|--------|------|------|
| 548100 | 57.4 | 3654 |

STEAM SEPARATOR

| | NSEP | ASEP | HSEP | RLEFF0 |
|--------|------|-------|------|--------|
| 550000 | 261 | 12.81 | 2.29 | 120. |

POWER GENERATION +++ modified from 3.7% to 2%

| | | | | | | |
|--------|------|------|-----------|-----|----|-----|
| 580000 | 0.02 | 0.01 | 200.27375 | | | |
| 581000 | 0.02 | 0.02 | 1.E+11 | 1.0 | 0. | 0.0 |