

NTCF input file for first drift cell:

```
%DO NOT EDIT THE NEXT LINE ---- NUFT input deck file identifier
211

%number of layers
21 1

%%section-to-segment assignment
%1- segment index
%2- segment to layer assignment
%3- layer to segment assignment
%4- drift section length
1      2      3      4      5      6      7      8      9      10     11     12     13     14
15     16     17     18     19     20     21
1      1      1      1      1      1      1      1      1      1      1      1      1
1      1      1      1      1      1      1      1      1      1      1      1      1
1      1      1      1      1      1      1      1      1      1      1      1      1
1.8650      0.1000      2.6375      2.6375      0.1000      2.6525      2.6525      0.1000
1.8650      1.8650      0.1000      2.6525      2.6525      0.1000      2.6375      2.6375
0.1000      2.6525      2.6525      0.1000      2.7850
2      2      2      2      2      2      2      2      2      2      2      2      2
2      2      2      2      2      2      2      2

%NTCF constant optimizer search windows
%[temperature(lower upper increment) pressure(lower upper increment) heat optimization flag]
15 35 1 800 1200 20 0

%nuftfun1 perturbation flags
1 1

%amplitude of randomized correction of central values
%temperature      Pressure
0.02              0.1

%control flags for the negative corrections in NTCF matrices
0 0

%time divisions and number of NUFT internal time ticks
27 10

%time vector (size: 1 x timeDiv)
0 0.167 0.5 1 2 5 10 15 20 25 30 35 40 45 50 60 75 100 150 200 300 500 750 1000 1500 2000
3000 5000

%pbar vector (size: 1 x timeDiv)
8.872000e+04 8.872000e+04 8.872000e+04 8.872000e+04 8.872000e+04 8.872000e+04
8.872000e+04 8.872000e+04 8.872000e+04 8.872000e+04 8.872000e+04 8.872000e+04
8.872000e+04 8.872000e+04 8.872000e+04 8.872000e+04 8.872000e+04 8.872000e+04
8.872000e+04 8.872000e+04 8.872000e+04 8.872000e+04 8.872000e+04 88720 88720 88720 88720

%wall temperature distribution (size: timeDiv x layers)
4.339809e+001 4.339809e+001 4.339809e+001 4.339809e+001 4.339809e+001 4.339809e+001
4.339809e+001 4.339809e+001 4.339809e+001 4.339809e+001 4.339809e+001 4.339809e+001
4.339809e+001 4.339809e+001 4.339809e+001 4.339809e+001 4.339809e+001 4.339809e+001
4.339809e+001 4.339809e+001 4.339809e+001 4.339809e+001 4.339809e+001 4.339809e+001
4.777997e+001 4.777997e+001 4.777997e+001 4.777997e+001 4.777997e+001 4.777997e+001
4.777997e+001 4.777997e+001 4.777997e+001 4.777997e+001 4.777997e+001 4.777997e+001
4.777997e+001 4.777997e+001 4.777997e+001 4.777997e+001 4.777997e+001 4.777997e+001
4.777997e+001 4.777997e+001 4.777997e+001 4.777997e+001 4.777997e+001 4.777997e+001
4.941908e+001 4.941908e+001 4.941908e+001 4.941908e+001 4.941908e+001 4.941908e+001
4.941908e+001 4.941908e+001 4.941908e+001 4.941908e+001 4.941908e+001 4.941908e+001
4.941908e+001 4.941908e+001 4.941908e+001 4.941908e+001 4.941908e+001 4.941908e+001
4.941908e+001 4.941908e+001 4.941908e+001 4.941908e+001 4.941908e+001 4.941908e+001
5.011120e+001 5.011120e+001 5.011120e+001 5.011120e+001 5.011120e+001 5.011120e+001
5.011120e+001 5.011120e+001 5.011120e+001 5.011120e+001 5.011120e+001 5.011120e+001
5.011120e+001 5.011120e+001 5.011120e+001 5.011120e+001 5.011120e+001 5.011120e+001
5.011120e+001 5.011120e+001 5.011120e+001 5.011120e+001 5.011120e+001 5.011120e+001
5.001111e+001 5.001111e+001 5.001111e+001 5.001111e+001 5.001111e+001 5.001111e+001
5.001111e+001 5.001111e+001 5.001111e+001 5.001111e+001 5.001111e+001 5.001111e+001
5.001111e+001 5.001111e+001 5.001111e+001 5.001111e+001 5.001111e+001 5.001111e+001
5.001111e+001 5.001111e+001 5.001111e+001 5.001111e+001 5.001111e+001 5.001111e+001
```

[illegible]

December 2003
NWRPO-2003-05 Appendix K

```

9.697354e+002 9.697354e+002 9.697354e+002 9.697354e+002 9.697354e+002 9.697354e+002
9.697354e+002 9.697354e+002 9.697354e+002
9.674544e+002 9.674544e+002 9.674544e+002 9.674544e+002 9.674544e+002 9.674544e+002
9.674544e+002 9.674544e+002 9.674544e+002 9.674544e+002 9.674544e+002 9.674544e+002
9.674544e+002 9.674544e+002 9.674544e+002 9.674544e+002 9.674544e+002 9.674544e+002
9.674544e+002 9.674544e+002 9.674544e+002
9.644434e+002 9.644434e+002 9.644434e+002 9.644434e+002 9.644434e+002 9.644434e+002
9.644434e+002 9.644434e+002 9.644434e+002 9.644434e+002 9.644434e+002 9.644434e+002
9.644434e+002 9.644434e+002 9.644434e+002 9.644434e+002 9.644434e+002 9.644434e+002
9.644434e+002 9.644434e+002 9.644434e+002
9.614325e+002 9.614325e+002 9.614325e+002 9.614325e+002 9.614325e+002 9.614325e+002
9.614325e+002 9.614325e+002 9.614325e+002 9.614325e+002 9.614325e+002 9.614325e+002
9.614325e+002 9.614325e+002 9.614325e+002 9.614325e+002 9.614325e+002 9.614325e+002
9.614325e+002 9.614325e+002 9.614325e+002
9.593339e+002 9.593339e+002 9.593339e+002 9.593339e+002 9.593339e+002 9.593339e+002
9.593339e+002 9.593339e+002 9.593339e+002 9.593339e+002 9.593339e+002 9.593339e+002
9.593339e+002 9.593339e+002 9.593339e+002 9.593339e+002 9.593339e+002 9.593339e+002
9.593339e+002 9.593339e+002 9.593339e+002
9.582391e+002 9.582391e+002 9.582391e+002 9.582391e+002 9.582391e+002 9.582391e+002
9.582391e+002 9.582391e+002 9.582391e+002 9.582391e+002 9.582391e+002 9.582391e+002
9.582391e+002 9.582391e+002 9.582391e+002 9.582391e+002 9.582391e+002 9.582391e+002
9.582391e+002 9.582391e+002 9.582391e+002
9.603376e+002 9.603376e+002 9.603376e+002 9.603376e+002 9.603376e+002 9.603376e+002
9.603376e+002 9.603376e+002 9.603376e+002 9.603376e+002 9.603376e+002 9.603376e+002
9.603376e+002 9.603376e+002 9.603376e+002 9.603376e+002 9.603376e+002 9.603376e+002
9.603376e+002 9.603376e+002 9.603376e+002
9.651734e+002 9.651734e+002 9.651734e+002 9.651734e+002 9.651734e+002 9.651734e+002
9.651734e+002 9.651734e+002 9.651734e+002 9.651734e+002 9.651734e+002 9.651734e+002
9.651734e+002 9.651734e+002 9.651734e+002 9.651734e+002 9.651734e+002 9.651734e+002
9.651734e+002 9.651734e+002 9.651734e+002
9.697354e+002 9.697354e+002 9.697354e+002 9.697354e+002 9.697354e+002 9.697354e+002
9.697354e+002 9.697354e+002 9.697354e+002 9.697354e+002 9.697354e+002 9.697354e+002
9.697354e+002 9.697354e+002 9.697354e+002 9.697354e+002 9.697354e+002 9.697354e+002
9.697354e+002 9.697354e+002 9.697354e+002
9.784945e+002 9.784945e+002 9.784945e+002 9.784945e+002 9.784945e+002 9.784945e+002
9.784945e+002 9.784945e+002 9.784945e+002 9.784945e+002 9.784945e+002 9.784945e+002
9.784945e+002 9.784945e+002 9.784945e+002 9.784945e+002 9.784945e+002 9.784945e+002
9.784945e+002 9.784945e+002 9.784945e+002
9.970223e+002 9.970223e+002 9.970223e+002 9.970223e+002 9.970223e+002 9.970223e+002
9.970223e+002 9.970223e+002 9.970223e+002 9.970223e+002 9.970223e+002 9.970223e+002
9.970223e+002 9.970223e+002 9.970223e+002 9.970223e+002 9.970223e+002 9.970223e+002
9.970223e+002 9.970223e+002 9.970223e+002
1.016377e+003 1.016377e+003 1.016377e+003 1.016377e+003 1.016377e+003 1.016377e+003
1.016377e+003 1.016377e+003 1.016377e+003 1.016377e+003 1.016377e+003 1.016377e+003
1.016377e+003 1.016377e+003 1.016377e+003 1.016377e+003 1.016377e+003 1.016377e+003
1.016377e+003 1.016377e+003 1.016377e+003
1.041985e+003 1.041985e+003 1.041985e+003 1.041985e+003 1.041985e+003 1.041985e+003
1.041985e+003 1.041985e+003 1.041985e+003 1.041985e+003 1.041985e+003 1.041985e+003
1.041985e+003 1.041985e+003 1.041985e+003 1.041985e+003 1.041985e+003 1.041985e+003
1.041985e+003 1.041985e+003 1.041985e+003
1.070868e+003 1.070868e+003 1.070868e+003 1.070868e+003 1.070868e+003 1.070868e+003
1.070868e+003 1.070868e+003 1.070868e+003 1.070868e+003 1.070868e+003 1.070868e+003
1.070868e+003 1.070868e+003 1.070868e+003 1.070868e+003 1.070868e+003 1.070868e+003
1.070868e+003 1.070868e+003 1.070868e+003

```

```
%wall partial vapor pressure perturbation vector (size: 1 x timeDiv)
```

```
99.9 100 99.9 100 99.9 100 99.9 100 99.9 100 99.9 100 99.9 100 99.9 100
```

```
99.9 100 99.9 100 99.9 100 99.9 100 99.9
```

NTCF input file for 17th drift cell:

```
%DO NOT EDIT THE NEXT LINE ---- NUFT input deck file identifier
```

```
211
```

```
%number of layers
```

```
21 1
```

```
%%section-to-segment assignment
```

```
%1- segment index
```

```
%2- segment to layer assignment
```

```
%3- layer to segment assignment
```

```
%4- drift section length
```

```

1      2      3      4      5      6      7      8      9      10     11     12     13     14
15     16     17     18     19     20     21

```

```

1      1      1      1      1      1      1      1      1      1      1      1      1
1      1      1      1      1      1      1      1      1      1      1      1      1
1      1      1      1      1      1      1      1      1      1      1      1      1
1      1      1      1      1      1      1      1      1      1      1      1      1
1.8650      0.1000      2.6375      2.6375      0.1000      2.6525      2.6525      0.1000
1.8650      1.8650      0.1000      2.6525      2.6525      0.1000      2.6375      2.6375
0.1000      2.6525      2.6525      0.1000      2.7850
2      2      2      2      2      2      2      2      2      2      2      2
2      2      2      2      2      2      2

%NTCF constant optimizer search windows
%[temperature(lower upper increment) pressure(lower upper increment) heat optimization flag]
15 35 1 800 1200 20 0

%nuftfun1 perturbation flags
1 1

%amplitude of randomized correction of central values
%temperature      Pressure
0.02              0.1

%control flags for the negative corrections in NTCF matrices
0 0

%time divisions and number of NUFT internal time ticks
27 10

%time vector (size: 1 x timeDiv)
0 0.167 0.5 1 2 5 10 15 20 25 30 35 40 45 50 60 75 100 150 200 300 500 750 1000 1500 2000
3000 5000

%pbar vector (size: 1 x timeDiv)
8.872000e+04 8.872000e+04 8.872000e+04 8.872000e+04 8.872000e+04 8.872000e+04
8.872000e+04 8.872000e+04 8.872000e+04 8.872000e+04 8.872000e+04 8.872000e+04
8.872000e+04 8.872000e+04 8.872000e+04 8.872000e+04 8.872000e+04 8.872000e+04
8.872000e+04 8.872000e+04 8.872000e+04 8.872000e+04 8.872000e+04 88720 88720 88720 88720

%wall temperature distribution (size: timeDiv x layers)
6.152372e+001 6.152372e+001 6.152372e+001 6.152372e+001 6.152372e+001 6.152372e+001
6.152372e+001 6.152372e+001 6.152372e+001 6.152372e+001 6.152372e+001 6.152372e+001
6.152372e+001 6.152372e+001 6.152372e+001 6.152372e+001 6.152372e+001 6.152372e+001
6.152372e+001 6.152372e+001 6.152372e+001
7.416971e+001 7.416971e+001 7.416971e+001 7.416971e+001 7.416971e+001 7.416971e+001
7.416971e+001 7.416971e+001 7.416971e+001 7.416971e+001 7.416971e+001 7.416971e+001
7.416971e+001 7.416971e+001 7.416971e+001 7.416971e+001 7.416971e+001 7.416971e+001
7.416971e+001 7.416971e+001 7.416971e+001
8.030109e+001 8.030109e+001 8.030109e+001 8.030109e+001 8.030109e+001 8.030109e+001
8.030109e+001 8.030109e+001 8.030109e+001 8.030109e+001 8.030109e+001 8.030109e+001
8.030109e+001 8.030109e+001 8.030109e+001 8.030109e+001 8.030109e+001 8.030109e+001
8.030109e+001 8.030109e+001 8.030109e+001
8.400547e+001 8.400547e+001 8.400547e+001 8.400547e+001 8.400547e+001 8.400547e+001
8.400547e+001 8.400547e+001 8.400547e+001 8.400547e+001 8.400547e+001 8.400547e+001
8.400547e+001 8.400547e+001 8.400547e+001 8.400547e+001 8.400547e+001 8.400547e+001
8.400547e+001 8.400547e+001 8.400547e+001
8.617701e+001 8.617701e+001 8.617701e+001 8.617701e+001 8.617701e+001 8.617701e+001
8.617701e+001 8.617701e+001 8.617701e+001 8.617701e+001 8.617701e+001 8.617701e+001
8.617701e+001 8.617701e+001 8.617701e+001
8.426095e+001 8.426095e+001 8.426095e+001 8.426095e+001 8.426095e+001 8.426095e+001
8.426095e+001 8.426095e+001 8.426095e+001 8.426095e+001 8.426095e+001 8.426095e+001
8.426095e+001 8.426095e+001 8.426095e+001 8.426095e+001 8.426095e+001 8.426095e+001
8.030109e+001 8.030109e+001 8.030109e+001 8.030109e+001 8.030109e+001 8.030109e+001
8.030109e+001 8.030109e+001 8.030109e+001 8.030109e+001 8.030109e+001 8.030109e+001
8.030109e+001 8.030109e+001 8.030109e+001 8.030109e+001 8.030109e+001 8.030109e+001
8.030109e+001 8.030109e+001 8.030109e+001
7.659672e+001 7.659672e+001 7.659672e+001 7.659672e+001 7.659672e+001 7.659672e+001
7.659672e+001 7.659672e+001 7.659672e+001 7.659672e+001 7.659672e+001 7.659672e+001
7.659672e+001 7.659672e+001 7.659672e+001 7.659672e+001 7.659672e+001 7.659672e+001
7.659672e+001 7.659672e+001 7.659672e+001
7.404197e+001 7.404197e+001 7.404197e+001 7.404197e+001 7.404197e+001 7.404197e+001
7.404197e+001 7.404197e+001 7.404197e+001 7.404197e+001 7.404197e+001 7.404197e+001
7.404197e+001 7.404197e+001 7.404197e+001 7.404197e+001 7.404197e+001 7.404197e+001
7.404197e+001 7.404197e+001 7.404197e+001

```

[illegible]

```
%wall temperature perturbation vector (size: 1 x timeDiv)
```

December 2003
NWRPO-2003-05 Appendix K

```

9.710766e+002 9.710766e+002 9.710766e+002 9.710766e+002 9.710766e+002 9.710766e+002
9.710766e+002 9.710766e+002 9.710766e+002
9.688869e+002 9.688869e+002 9.688869e+002 9.688869e+002 9.688869e+002 9.688869e+002
9.688869e+002 9.688869e+002 9.688869e+002 9.688869e+002 9.688869e+002 9.688869e+002
9.688869e+002 9.688869e+002 9.688869e+002 9.688869e+002 9.688869e+002 9.688869e+002
9.688869e+002 9.688869e+002 9.688869e+002
9.710766e+002 9.710766e+002 9.710766e+002 9.710766e+002 9.710766e+002 9.710766e+002
9.710766e+002 9.710766e+002 9.710766e+002 9.710766e+002 9.710766e+002 9.710766e+002
9.710766e+002 9.710766e+002 9.710766e+002 9.710766e+002 9.710766e+002 9.710766e+002
9.710766e+002 9.710766e+002 9.710766e+002
9.935219e+002 9.935219e+002 9.935219e+002 9.935219e+002 9.935219e+002 9.935219e+002
9.935219e+002 9.935219e+002 9.935219e+002 9.935219e+002 9.935219e+002 9.935219e+002
9.935219e+002 9.935219e+002 9.935219e+002 9.935219e+002 9.935219e+002 9.935219e+002
9.935219e+002 9.935219e+002 9.935219e+002
1.045161e+003 1.045161e+003 1.045161e+003 1.045161e+003 1.045161e+003 1.045161e+003
1.045161e+003 1.045161e+003 1.045161e+003 1.045161e+003 1.045161e+003 1.045161e+003
1.045161e+003 1.045161e+003 1.045161e+003 1.045161e+003 1.045161e+003 1.045161e+003
1.045161e+003 1.045161e+003 1.045161e+003
1.181638e+003 1.181638e+003 1.181638e+003 1.181638e+003 1.181638e+003 1.181638e+003
1.181638e+003 1.181638e+003 1.181638e+003 1.181638e+003 1.181638e+003 1.181638e+003
1.181638e+003 1.181638e+003 1.181638e+003 1.181638e+003 1.181638e+003 1.181638e+003
1.181638e+003 1.181638e+003 1.181638e+003
1.419851e+003 1.419851e+003 1.419851e+003 1.419851e+003 1.419851e+003 1.419851e+003
1.419851e+003 1.419851e+003 1.419851e+003 1.419851e+003 1.419851e+003 1.419851e+003
1.419851e+003 1.419851e+003 1.419851e+003 1.419851e+003 1.419851e+003 1.419851e+003
1.419851e+003 1.419851e+003 1.419851e+003
1.608437e+003 1.608437e+003 1.608437e+003 1.608437e+003 1.608437e+003 1.608437e+003
1.608437e+003 1.608437e+003 1.608437e+003 1.608437e+003 1.608437e+003 1.608437e+003
1.608437e+003 1.608437e+003 1.608437e+003 1.608437e+003 1.608437e+003 1.608437e+003
1.608437e+003 1.608437e+003 1.608437e+003
1.811911e+003 1.811911e+003 1.811911e+003 1.811911e+003 1.811911e+003 1.811911e+003
1.811911e+003 1.811911e+003 1.811911e+003 1.811911e+003 1.811911e+003 1.811911e+003
1.811911e+003 1.811911e+003 1.811911e+003 1.811911e+003 1.811911e+003 1.811911e+003
1.811911e+003 1.811911e+003 1.811911e+003
1.973201e+003 1.973201e+003 1.973201e+003 1.973201e+003 1.973201e+003 1.973201e+003
1.973201e+003 1.973201e+003 1.973201e+003 1.973201e+003 1.973201e+003 1.973201e+003
1.973201e+003 1.973201e+003 1.973201e+003 1.973201e+003 1.973201e+003 1.973201e+003
1.973201e+003 1.973201e+003 1.973201e+003

```

%wall partial vapor pressure perturbation vector (size: 1 x timeDiv)

```

99.9 100 99.9 100 99.9 100 99.9 100 99.9 100 99.9 100 99.9 100 99.9 100 99.9 100
99.9 100 99.9 100 99.9 100 99.9 100 99.9

```