

APPENDIX H: SAMPLE CHECK_OUT PROBLEMS

This file includes a command file that exercises CHECK_OUT and a sequence of actual input control files associated with selected applications of interest.

General Purpose ".COM" file to run CHECK_OUT modes

```
$!@CUSP_CHECK_OUT.COM "pl"
$!
$! 'pl' > Check_Out Type
$!
$! Where 'pl': CALIBRATE
$!             EXPERIMENT
$!             VALIDATE
$!
$!
$! ON control_y THEN goto TERMINATE
$! ON control_c THEN goto TERMINATE
$! ON error      THEN goto TERMINATE
$!
$!
$! LIBCUSP
$!
$! Clea up any preexisting logicals
$!
$! IF F$SEARCH("CUSP_DEASSIGN.COM") .eqs. "" -
$!     THEN CFE CUSP_DEASSIGN.COM ""
$!
$! @CUSP_DEASSIGN
$!
$! IF F$SEARCH("CUSP$EXE") .eqs. ""
$! THEN
$!
$!     IF F$SEARCH("CUSP_TEST_SETUP_CUSP.COM") .eqs. "" -
$!         THEN CFE CUSP_TEST_SETUP_CUSP.COM ""
$!
$! @CUSP_TEST_SETUP_CUSP
$!
$! ENDIF
$!
$! DEFINE CUSP$CHECK_OUT TRUE
$!
$! Input files required by CUSP$CHECK_OUT
$!
$! DEFINE/NOLOG CUSP_INP$TXT0 CUSP_CHECK_OUT.DAT
$! DEFINE/NOLOG CUSP_INP$TXT1 CUSP_'pl'.INP
$!
$! Output files required by CUSP$CHECK_OUT
$!
$! DEFINE/NOLOG CUSP_OUT$NVERIFY CUSP_'pl'.VER
$! DEFINE/NOLOG CUSP_OUT$PLT1 CUSP_'pl'.PLT
$!
$!
$! CUSP := $CUSP$EXE
$!
$! CUSP
$!
$! DEASSIGN CUSP$CHECK_OUT
$!
$! DEASSIGN CUSP_INP$TXT0
$! DEASSIGN CUSP_INP$TXT1
```

```
$ DEASSIGN CUSP_OUT$NVERIFY  
$ DEASSIGN CUSP_OUT$PLT1  
$!  
$!  
$TERMINATE:  
$!  
$ EXIT
```

Input file for: CALIBRATE

```
!  
! TEST_FUNCT  
!  
CALIBRATE  
  
FSEMIN          10.0  
DelfSE          5.0  
IFSE            3  
FGEMIN          10.0  
DelfGE          10.0  
JFGE            3  
FCEMIN          0.0  
DelfCE          0.0  
KFCE            0  
ITMAX           200  
DELERR          0.01  
POROST          0.40
```

```
START_SEARCH  
.000151 .01021 2.133 394379. .0007221 .261 295. 85151. #28  
.000151 .01021 2.133 290958. .0005760 .261 295. 85151. #28  
.000151 .01021 2.133 290958. .0005057 .262 295. 84805. #29  
.000151 .01021 2.133 290958. .0006104 .279 296. 84048. #30  
.000151 .01021 2.133 222010. .0004148 .262 295. 84805. #29  
.000151 .01021 2.133 222010. .0004817 .261 295. 85151. #28  
.000151 .01021 2.133 222010. .0004800 .279 296. 84048. #30  
.000151 .01021 2.133 153064. .0003005 .262 295. 84805. #29  
.000151 .01021 2.133 153064. .0003642 .261 295. 85151. #28  
.000151 .01021 2.133 153064. .0003444 .279 296. 84048. #30  
.000151 .01021 2.133 118590. .0001261 .262 295. 84805. #29  
.000151 .01021 2.133 118590. .0000663 .261 295. 85151. #28  
.000151 .01021 2.133 118590. .0001740 .279 296. 84048. #30
```

Input file for: EXPERIMENT

```
!  
! TEST_FUNCT  
!  
EXPERIMENT  
  
DIA 0.3110  
  
PARTMIN 0.0002 PARTMAX 0.2 PARTMUL 1.5  
  
SAT 0.3
```


