

APPENDIX B: SAMPLES OF INPUT FILES REQUIRED TO RUN GENMESH, MATSET, AND POSTLHS IN PREPARATION TO EXERCISING CUTTINGS_S

This appendix includes brief command files that exercise GENMESH, MATSET, and POSTLHS, as well as the actual input control files necessary to exercise the specific runs required prior to exercising CUTTINGS_S (see Figure 1 in Section 6).

CUSP_GENMESH.COM

```
$! -----  
$! MODULE:  
$! PURPOSE:  
$! DATE:  
$! AUTHOR:  
$! -----  
$!  
$ SET NOON  
$ EXE_SRC ::= $WP$PRODR00T:[GM.EXE]GM_PA96.EXE  
$!  
$ DEFINE GM_UIF$INPUT GM_CUSP_CCA.INP  
$ DEFINE GM_CDB$OUTPUT GM_CUSP_CCA.CDB  
$ DEFINE GM_DBG$OUTPUT GM_CUSP_CCA.DBG  
$!  
$ EXE_SRC GM_UIF$INPUT GM_CDB$OUTPUT GM_DBG$OUTPUT  
$! -----  
$ EXIT
```

GM_CUSP_CCA.INP

```
!=====  
!  
! TITLE: CUSP Input GENMESH file  
! ANALYST: Robert A. Cole  
!  
!=====  
!  
*SETup_grid  
  DIMension= 3  
  ORigin= 0.0000E+00, 0.0000E+00, 0.0000E+00  
  IJKmax= 2, 2, 2  
!  
*GRID_spacing  
  DEL,COORD=X,DEL= 1.0000E+00,INRANGE= 1, 2  
  DEL,COORD=Y,DEL= 1.0000E+00,INRANGE= 1, 2  
  DEL,COORD=Z,DEL= 1.0000E+00,INRANGE= 1, 2  
!  
*REGION  
  REGION= 1,IRANGE= 1, 2, JRANGE= 1, 2, KRANGE=  
1, 2  
!  
*END
```

CUSP_MATSET.COM

```
#!/=====
$!
$ EXE_SRC  ::= $WP$PRODROOT:[MS.EXE]MATSET_PA96.EXE
$!
$ DEFINE MS_CDB$INPUT  GM_CUSP_CCA.CDB
$ DEFINE MS_UIF$INPUT  MS_CUSP_CCA.INP
$ DEFINE MS_SDB$INPUT  WIPP::WIPP_DB
$ DEFINE MS_SDB_CALC$INPUT CCA4
$ DEFINE MS_CDB$OUTPUT MS_CUSP_CCA.CDB
$ DEFINE MS_DBG$OUTPUT MS_CUSP_CCA.DBG
$!
$ EXE_SRC MS_CDB$INPUT MS_UIF$INPUT MS_SDB$INPUT MS_SDB_CALC$INPUT -
          MS_CDB$OUTPUT MS_DBG$OUTPUT
$!
$ EXIT
```

MS_CUSP_CCA.INP

```
!=====
!
! FILETYPE:
! ANALYSTS:
! DATE:
! PURPOSE:
!
!
!=====
!
!*PRINT_ASSIGNED_VALUES
!
!*HEADING
  TITLE, CUSP MATSET INPUT FILE
  SCALE, LOCAL
  SCENARIO, ALL
!
!*UNITS=SI
!
!*CREATE_blocks
  BLOCK_IDS=2,3,4
!
!*RETRIEVE
  COORD, DIM=3, NAMES=X,Y,Z
!
! ...Define region names
  MATERIAL, 1=BLOWOUT, 2=BOREHOLE, 3=DRILLMUD, 4=WAS_AREA
!
!1...Define BLOWOUT property names
  PROPERTY, MATERIAL=BLOWOUT, NAMES=PARTDIA
!
!2...Define BOREHOLE property names
  PROPERTY, MATERIAL=BOREHOLE, NAMES=DIAMMOD, DOMEGA, TAUFALL
!
```

```
!3...Define DRILLMUD property names
  PROPERTY, MATerial=DRILLMUD, NAMES=DNSFLUID, VISCO, YLDSTRSS
!
!
!4...Define WAS_AREA property names
  PROPERTY, MATerial=WAS_AREA, NAMES=ABSROUGH
!
!
!*SET_VALUES
!
!#### Assign values to material property names not   ####
!#### found in the Secondary Database (PROPERTY.SDB) ####
!
!=====
*END
```

The file that follows is an input control file to exercise POSTLHS in preparation to exercising CUTTINGS_S.

```
PLHS_CUSP_CCA.INP -----
!
!=====
!  TITLE:    1996 CCA Input File for Realization R1 for the PRELHS Code
!  ANALYST:  Lanny Smith, May 3, 1996
!=====
!
!  DESCRIPTION:
!
!  WIPP 1996 CCA, Realization R1 PRELHS Input File
!
!  This input file to PRELHS is used to generate, as an output file, an LHS
!  input file containing all distribution information and execution options
!  required to create a sample for Realization R1 for the WIPP 1996 CCA
!  analysis.
!
!===== No Comments Allowed between *ECHO and *ENDECHO =====
*ECHOLHS
TITLE 1996 CCA, Realization R1 Input File for the LHS Code
NOBS          100
RANDOM SEED    238766283
CORRELATION MATRIX
  3
  18  19 -0.99
  20  21 -0.99
  28  29 -0.75
OUTPUT CORR HIST DATA
*ENDECHO
!
!== PROPERTIES TO BE RETRIEVED FROM WIPP 1996 CCA DATABASE, 'CCA4' ==
!
!*RETRIEVE
!
!  MATERIALS,  STEEL
!  PROPERTIES, CORRMCO2
!
!  MATERIALS,  WAS_AREA
```

! PROPERTIES, PROBDEG
! MATERIALS, WAS_AREA
! PROPERTIES, GRATMICI
! MATERIALS, WAS_AREA
! PROPERTIES, GRATMICH
! MATERIALS, CELLULS
! PROPERTIES, FBETA
! MATERIALS, WAS_AREA
! PROPERTIES, SAT_RGAS
! MATERIALS, WAS_AREA
! PROPERTIES, SAT_RBRN
! MATERIALS, WAS_AREA
! PROPERTIES, SAT_WICK
! MATERIALS, CL_L_T1
! PROPERTIES, PRMX_LOG
! MATERIALS, CONC_T1
! PROPERTIES, PRMX_LOG
! MATERIALS, ASPHALT
! PROPERTIES, PRMX_LOG
! MATERIALS, SHFT_DRZ
! PROPERTIES, PRMX_LOG
! MATERIALS, SALT_T1
! PROPERTIES, CUMPROB
! MATERIALS, SALT_T1
! PROPERTIES, SAT_RGAS
! MATERIALS, SALT_T1
! PROPERTIES, SAT_RBRN
! MATERIALS, SALT_T1
! PROPERTIES, PORE_DIS
! MATERIALS, S_HALITE
! PROPERTIES, POROSITY
! MATERIALS, S_HALITE
! PROPERTIES, PRMX_LOG
! MATERIALS, S_HALITE
! PROPERTIES, COMP_RCK
! MATERIALS, S_MB139
! PROPERTIES, PRMX_LOG
! MATERIALS, S_MB139
! PROPERTIES, COMP_RCK
! MATERIALS, S_MB139


```
! PROPERTIES, PRMTZIDX
!
! MATERIALS, GLOBAL
! PROPERTIES, PRMTZIDX
!
! MATERIALS, GLOBAL
! PROPERTIES, PRMTZIDX
!
! MATERIALS, GLOBAL
! PROPERTIES, PRMTZIDX
!
! MATERIALS, GLOBAL
! PROPERTIES, PRMTZIDX
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! MATERIALS, GLOBAL
! PROPERTIES, PRMTZIDX
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! PROPERTIES, PRMTZIDX
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! MATERIALS, GLOBAL
! PROPERTIES, PRMTZIDX
!
! MATERIALS, GLOBAL
! PROPERTIES, PRMTZIDX
!
!
!=====
!
! *END
```

END OF APPENDIX B