

Appendix 2.

Log file of base case

Revised Air Quality study for Pointon & Sons

ADMS 3 (3.3)

Atmospheric Dispersion Modelling System

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This run was made at 19.54 hours on the 02/06/2007

```
*****
*                               ADMS 3                               *
*                               Version 3.3.1.0                       *
*                               Build number 10.78                    *
*                               October 2005                          *
*                               *                                      *
*                               Atmospheric Dispersion Modelling System *
*                               *                                      *
*                               *                                      *
*                               User Name:      Shyam Singh           *
*                               *                                      *
*                               Company Name:   Enstec Services       *
*                               *                                      *
*                               Licence Number: A01-0169-C-AD300-UK   *
*                               *                                      *
*****
```

Your annual licence expires on 24/02/2008

Full command line : C:\Program Files\CERC\ADMS3\ADMS3H.EXE /E1 /Flow
C:\Documents and Settings\Shyam
Singh\Clients_Projects\Pointons\adms_runs\New_run_4.APL

This is a complete record of C:\Documents and Settings\Shyam
Singh\Clients_Pro
jects\Pointons\adms_runs\New_run_4.APL

&ADMS_HEADER

Comment = 'This is an ADMS-3 parameter file
,

Model = 'ADMS'

Version = 3.3

FileVersion = 5

Complete = 1

/

&ADMS_PARAMETERS_SUP

SupSiteName = 'Eneregy Resource Centre stack - New Run
,

SupProjectName = 'Pointons
,

```

SupReleaseType      = 0
SupModelBuildings   = 1
SupModelHills       = 1
SupModelCoastline   = 0
SupOther            = 0
SupUseAdvancedMet    = 0
SupRoughness        = 3.000000000000000e-001
SupLatitude         = 5.200000000000000e+001
SupLongitude        = 0.000000000000000e+000
SupUseMinLmo        = 0
SupMinLmo           = 1.000000000000000e+000
SupPufType          = 0
SupCalcChm          = 0
SupCalcDryDep       = 0
SupCalcWetDep       = 0
SupCalcPlumeVisibility = 0
SupModelOdours      = 0
SupOdourUnits       = 'ou'
SupUseHourlyEmissionFactors = 0
SupManualHourlyEmissionFactors = 0
SupHourlyEmissionFactorsPath = 'c:\CERC\adms-3\data\timevary.var'
SupHourlyEmissionFactorWeek =
    1.000000e+000  1.000000e+000  1.000000e+000  1.000000e+000
    1.000000e+000  1.000000e+000  1.000000e+000  1.000000e+000
    1.000000e+000  1.000000e+000  1.000000e+000  1.000000e+000
    1.000000e+000  1.000000e+000  1.000000e+000  1.000000e+000
    1.000000e+000  1.000000e+000  1.000000e+000  1.000000e+000
    1.000000e+000  1.000000e+000  1.000000e+000  1.000000e+000
SupHourlyEmissionFactorSat =
    1.000000e+000  1.000000e+000  1.000000e+000  1.000000e+000
    1.000000e+000  1.000000e+000  1.000000e+000  1.000000e+000
    1.000000e+000  1.000000e+000  1.000000e+000  1.000000e+000
    1.000000e+000  1.000000e+000  1.000000e+000  1.000000e+000
    1.000000e+000  1.000000e+000  1.000000e+000  1.000000e+000
    1.000000e+000  1.000000e+000  1.000000e+000  1.000000e+000
SupHourlyEmissionFactorSun =
    1.000000e+000  1.000000e+000  1.000000e+000  1.000000e+000
    1.000000e+000  1.000000e+000  1.000000e+000  1.000000e+000
    1.000000e+000  1.000000e+000  1.000000e+000  1.000000e+000
    1.000000e+000  1.000000e+000  1.000000e+000  1.000000e+000
    1.000000e+000  1.000000e+000  1.000000e+000  1.000000e+000
    1.000000e+000  1.000000e+000  1.000000e+000  1.000000e+000
/
&ADMS_PARAMETERS_MET
MetDataSource      = 0
MetDataFileWellFormedPath = 'C:\Documents and Settings\Shyam
Singh\Clients_Pro
jects\Pointons\adms_runs\Ring02adms.met'
MetWindHeight      = 1.000000000000000e+001
MetWindSectorSize  = 0
MetWindInSectors   = 0
MetWindSectorSizeDegrees = 1.000000000000000e+001
MetLateralSpreadType = 0
MetLateralSpreadStdDev = 0.000000000000000e+000
MetDataIsSequential = 1
MetUseSurfaceAlbedo = 0
MetSurfaceAlbedo   = 2.300000000000000e-001
MetUsePriestlyTaylor = 0
MetPriestlyTaylor  = 1.000000000000000e+000
MetSiteIsRepr      = 1
MetUsePrecipFactor = 0

```

```

MetPrecipFactor      = 1.0000000000000000e+000
MetUseRoughChanges   = 0
MetSurfRough         = 1.0000000000000000e-001
MetHeatFluxType      = 0
MetInclBoundaryLyrHt = 1
MetInclSurfaceTemp   = 0
MetInclLateralSpread = 0
MetInclRelHumidity    = 0
MetHandNumEntries    = 0
/
&ADMS_PARAMETERS_BLD
BldNumBuildings = 6
BldName =
    'Enh_Main Cat 3 Bldg ' 'Mat Recp_Proc' 'ADEJF_comb
,
    'G_Cat1/2_meal'
    'BC' 'Odour_abat'
BldX =
    3.973138e+005 3.974014e+005 3.975510e+005 3.976330e+005
    3.976198e+005 3.973553e+005
BldY =
    3.505603e+005 3.504270e+005 3.504506e+005 3.505105e+005
    3.504051e+005 3.504324e+005
BldHeight =
    1.200000e+001 1.200000e+001 9.000000e+000 1.370000e+001
    1.175000e+001 8.600000e+000
BldLength =
    1.468100e+002 3.000000e+001 9.860000e+001 1.387000e+002
    9.070000e+001 3.840000e+001
BldWidth =
    3.690000e+001 7.870000e+001 7.640000e+001 2.835000e+001
    2.835000e+001 9.700000e+000
BldAngle =
    1.300000e+002 1.350000e+002 1.321000e+002 1.321000e+002
    4.210000e+001 1.475000e+002
/
&ADMS_PARAMETERS_HIL
HilGridSize = 1
HilRoughInput = 0
HilTerrainPath = 'C:\Documents and Settings\Shyam
Singh\Clients_Projects\Point
ons\adms_runs\point1.ter'
HilRoughPath = 'c:\CERC\adms-3\data\roughnes.ruf'
/
&ADMS_PARAMETERS_CST
CstPoint1X = 0.0000000000000000e+000
CstPoint1Y = 0.0000000000000000e+000
CstPoint2X = -1.0000000000000000e+003
CstPoint2Y = 1.0000000000000000e+003
CstLandPointX = 5.0000000000000000e+002
CstLandPointY = 5.0000000000000000e+002
/
&ADMS_PARAMETERS_FLC
FlcAvgTime = 9.0000000000000000e+002
FlcUnits = 'ug/m3'
FlcUnits_Subordinate = 'Bq/m3'
FlcCalcToxicResponse = 0
FlcToxicExp = 1.0000000000000000e+000
FlcCalcPercentiles = 0
FlcNumPercentiles = 0
FlcCalcPDF = 0

```

```

FlcPDFMode          = 0
FlcNumPDF           = 0
/
&ADMS_PARAMETERS_GRD
GrdType             = 0
GrdCoordSysType     = 0
GrdSpacingType      = 0
GrdRegularMin =
    3.965000e+005 3.495000e+005
    0.000000e+000 0.000000e+000
GrdRegularMax =
    3.985000e+005 3.515000e+005
    1.000000e+003 3.300000e+002
GrdRegularNumPoints =
    51 51
    100 12
GrdVarSpaceNumPointsX = 0
GrdVarSpaceNumPointsY = 0
GrdVarSpaceNumPointsR = 0
GrdVarSpaceNumPointsTh = 0
GrdGriddedZ         = 0.000000e+000
GrdPtsNumPoints      = 0 0
GrdPolarCentreX     = 3.972450e+005
GrdPolarCentreY     = 3.505930e+005
/
&ADMS_PARAMETERS_PUF
PufStart            = 1.0000000000000000e+002
PufStep             = 1.0000000000000000e+002
PufNumSteps         = 10
/
&ADMS_PARAMETERS_GAM
GamCalcDose         = 0
/
&ADMS_PARAMETERS_OPT
OptNumOutputs       = 10
OptPolName =
    'NO2'                'SO2'                'SO2'
,
    'SO2'                'CO'                 'PM'                'PM'
,
    'NOx'                'VOC'                'HCL'
OptInclude =
    1 1 1 1
    1 1 1 1
    1 1
OptShortOrLong =
    1 1 1 1
    1 1 1 1
    1 1
OptSamplingTime =
    3.600000e+003 9.000000e+002 3.600000e+003 8.640000e+004
    2.880000e+004 3.600000e+003 8.640000e+004 3.600000e+003
    3.600000e+003 3.600000e+003
OptUseRollingAvg =
    0 0 0 0
    1 0 0 0
    0 0
OptPercentiles =

```

[illegible]

[illegible]

[illegible]

```

/
&ADMS_PARAMETERS_ETC
SrcNumSources      = 14
PolModelIsotopesWithoutDecay = 0
PolNumPollutants  = 12
PolNumIsotopes    = 1
/

&ADMS_POLLUTANT_DETAILS
PolName              = 'NOx'
PolPollutantType     = 0
PolGasDepVelocityKnown = 1
PolGasDepositionVelocity = 0.0000000000000000e+000
PolGasType           = 0
PolParDepVelocityKnown = 1
PolParTermVelocityKnown = 1
PolParNumDepositionData = 1
PolParDepositionVelocity =
    0.000000e+000
PolParTerminalVelocity =
    0.000000e+000
PolParDiameter =
    1.000000e-006
PolParDensity =
    1.000000e+003
PolParMassFraction =
    1.000000e+000
PolWetWashoutKnown = 1
PolWetWashout      = 0.0000000000000000e+000
PolWetWashoutA      = 1.0000000000000000e-004
PolWetWashoutB      = 6.4000000000000000e-001
PolConvFactor       = 0.0000000000000000e+000
/

&ADMS_POLLUTANT_DETAILS
PolName              = 'NO2'
PolPollutantType     = 0
PolGasDepVelocityKnown = 1
PolGasDepositionVelocity = 0.0000000000000000e+000
PolGasType           = 0
PolParDepVelocityKnown = 1
PolParTermVelocityKnown = 1
PolParNumDepositionData = 1
PolParDepositionVelocity =
    0.000000e+000
PolParTerminalVelocity =
    0.000000e+000
PolParDiameter =
    1.000000e-006
PolParDensity =
    1.000000e+003
PolParMassFraction =
    1.000000e+000
PolWetWashoutKnown = 1
PolWetWashout      = 0.0000000000000000e+000
PolWetWashoutA      = 1.0000000000000000e-004
PolWetWashoutB      = 6.4000000000000000e-001
PolConvFactor       = 5.2000000000000000e-001
/

&ADMS_POLLUTANT_DETAILS

```

```

PolName = 'SO2'
PolPollutantType = 0
PolGasDepVelocityKnown = 1
PolGasDepositionVelocity = 0.000000000000000e+000
PolGasType = 0
PolParDepVelocityKnown = 1
PolParTermVelocityKnown = 1
PolParNumDepositionData = 1
PolParDepositionVelocity =
    0.000000e+000
PolParTerminalVelocity =
    0.000000e+000
PolParDiameter =
    1.000000e-006
PolParDensity =
    1.000000e+003
PolParMassFraction =
    1.000000e+000
PolWetWashoutKnown = 1
PolWetWashout = 0.000000000000000e+000
PolWetWashoutA = 1.000000000000000e-004
PolWetWashoutB = 6.400000000000000e-001
PolConvFactor = 3.700000000000000e-001
/

```

&ADMS_POLLUTANT_DETAILS

```

PolName = 'PM'
PolPollutantType = 1
PolGasDepVelocityKnown = 1
PolGasDepositionVelocity = 0.000000000000000e+000
PolGasType = 0
PolParDepVelocityKnown = 1
PolParTermVelocityKnown = 1
PolParNumDepositionData = 1
PolParDepositionVelocity =
    0.000000e+000
PolParTerminalVelocity =
    0.000000e+000
PolParDiameter =
    1.000000e-005
PolParDensity =
    1.000000e+003
PolParMassFraction =
    1.000000e+000
PolWetWashoutKnown = 1
PolWetWashout = 0.000000000000000e+000
PolWetWashoutA = 1.000000000000000e-004
PolWetWashoutB = 6.400000000000000e-001
PolConvFactor = 0.000000000000000e+000
/

```

&ADMS_POLLUTANT_DETAILS

```

PolName = 'VOC'
PolPollutantType = 0
PolGasDepVelocityKnown = 1
PolGasDepositionVelocity = 0.000000000000000e+000
PolGasType = 0
PolParDepVelocityKnown = 1
PolParTermVelocityKnown = 1
PolParNumDepositionData = 1
PolParDepositionVelocity =

```

```

0.000000e+000
PolParTerminalVelocity =
0.000000e+000
PolParDiameter =
1.000000e-006
PolParDensity =
1.000000e+003
PolParMassFraction =
1.000000e+000
PolWetWashoutKnown = 1
PolWetWashout = 0.0000000000000000e+000
PolWetWashoutA = 1.0000000000000000e-004
PolWetWashoutB = 6.4000000000000000e-001
PolConvFactor = 1.0000000000000000e+000
/

```

&ADMS_POLLUTANT_DETAILS

```

PolName = 'HCL'
PolPollutantType = 0
PolGasDepVelocityKnown = 1
PolGasDepositionVelocity = 0.0000000000000000e+000
PolGasType = 0
PolParDepVelocityKnown = 1
PolParTermVelocityKnown = 1
PolParNumDepositionData = 1
PolParDepositionVelocity =
0.000000e+000
PolParTerminalVelocity =
0.000000e+000
PolParDiameter =
1.000000e-006
PolParDensity =
1.000000e+003
PolParMassFraction =
1.000000e+000
PolWetWashoutKnown = 1
PolWetWashout = 0.0000000000000000e+000
PolWetWashoutA = 1.0000000000000000e-004
PolWetWashoutB = 6.4000000000000000e-001
PolConvFactor = 1.0000000000000000e+000
/

```

&ADMS_POLLUTANT_DETAILS

```

PolName = 'H2S'
PolPollutantType = 0
PolGasDepVelocityKnown = 1
PolGasDepositionVelocity = 0.0000000000000000e+000
PolGasType = 0
PolParDepVelocityKnown = 1
PolParTermVelocityKnown = 1
PolParNumDepositionData = 1
PolParDepositionVelocity =
0.000000e+000
PolParTerminalVelocity =
0.000000e+000
PolParDiameter =
1.000000e-006
PolParDensity =
1.000000e+003
PolParMassFraction =
1.000000e+000

```

```
PolWetWashoutKnown = 1
PolWetWashout       = 0.0000000000000000e+000
PolWetWashoutA      = 1.0000000000000000e-004
PolWetWashoutB      = 6.4000000000000000e-001
PolConvFactor       = 1.0000000000000000e+000
/
```

&ADMS_POLLUTANT_DETAILS

```
PolName              = 'Ammonia'
PolPollutantType     = 0
PolGasDepVelocityKnown = 1
PolGasDepositionVelocity = 0.0000000000000000e+000
PolGasType           = 0
PolParDepVelocityKnown = 1
PolParTermVelocityKnown = 1
PolParNumDepositionData = 1
PolParDepositionVelocity =
    0.000000e+000
PolParTerminalVelocity =
    0.000000e+000
PolParDiameter       =
    1.000000e-006
PolParDensity        =
    1.000000e+003
PolParMassFraction   =
    1.000000e+000
PolWetWashoutKnown = 1
PolWetWashout       = 0.0000000000000000e+000
PolWetWashoutA      = 1.0000000000000000e-004
PolWetWashoutB      = 6.4000000000000000e-001
PolConvFactor       = 1.0000000000000000e+000
/
```

&ADMS_POLLUTANT_DETAILS

```
PolName              = 'Dioxins'
PolPollutantType     = 0
PolGasDepVelocityKnown = 1
PolGasDepositionVelocity = 0.0000000000000000e+000
PolGasType           = 0
PolParDepVelocityKnown = 1
PolParTermVelocityKnown = 1
PolParNumDepositionData = 1
PolParDepositionVelocity =
    0.000000e+000
PolParTerminalVelocity =
    0.000000e+000
PolParDiameter       =
    1.000000e-006
PolParDensity        =
    1.000000e+003
PolParMassFraction   =
    1.000000e+000
PolWetWashoutKnown = 1
PolWetWashout       = 0.0000000000000000e+000
PolWetWashoutA      = 1.0000000000000000e-004
PolWetWashoutB      = 6.4000000000000000e-001
PolConvFactor       = 1.0000000000000000e+000
/
```

&ADMS_POLLUTANT_DETAILS

```
PolName              = 'CO'
```

```

PolPollutantType      = 0
PolGasDepVelocityKnown = 1
PolGasDepositionVelocity = 0.0000000000000000e+000
PolGasType            = 0
PolParDepVelocityKnown = 1
PolParTermVelocityKnown = 1
PolParNumDepositionData = 1
PolParDepositionVelocity =
    0.000000e+000
PolParTerminalVelocity =
    0.000000e+000
PolParDiameter =
    1.000000e-006
PolParDensity =
    1.000000e+003
PolParMassFraction =
    1.000000e+000
PolWetWashoutKnown = 1
PolWetWashout      = 0.0000000000000000e+000
PolWetWashoutA      = 1.0000000000000000e-004
PolWetWashoutB      = 6.4000000000000000e-001
PolConvFactor       = 1.0000000000000000e+000
/

```

&ADMS_POLLUTANT_DETAILS

```

PolName              = 'NO'
PolPollutantType      = 0
PolGasDepVelocityKnown = 1
PolGasDepositionVelocity = 0.0000000000000000e+000
PolGasType            = 0
PolParDepVelocityKnown = 1
PolParTermVelocityKnown = 1
PolParNumDepositionData = 1
PolParDepositionVelocity =
    0.000000e+000
PolParTerminalVelocity =
    0.000000e+000
PolParDiameter =
    1.000000e-006
PolParDensity =
    1.000000e+003
PolParMassFraction =
    1.000000e+000
PolWetWashoutKnown = 1
PolWetWashout      = 0.0000000000000000e+000
PolWetWashoutA      = 1.0000000000000000e-004
PolWetWashoutB      = 6.4000000000000000e-001
PolConvFactor       = 8.0000000000000000e-001
/

```

&ADMS_POLLUTANT_DETAILS

```

PolName              = 'O3'
PolPollutantType      = 0
PolGasDepVelocityKnown = 1
PolGasDepositionVelocity = 0.0000000000000000e+000
PolGasType            = 0
PolParDepVelocityKnown = 1
PolParTermVelocityKnown = 1
PolParNumDepositionData = 1
PolParDepositionVelocity =
    0.000000e+000

```

```

PolParTerminalVelocity =
    0.000000e+000
PolParDiameter =
    1.000000e-006
PolParDensity =
    1.000000e+003
PolParMassFraction =
    1.000000e+000
PolWetWashoutKnown = 1
PolWetWashout      = 0.0000000000000000e+000
PolWetWashoutA     = 1.0000000000000000e-004
PolWetWashoutB     = 6.4000000000000000e-001
PolConvFactor      = 5.0000000000000000e-001
/

```

```

&ADMS_ISOTOPE_DETAILS
IsoName              = 'Sr-90'
IsoPollutantType     = 0
IsoGasDepVelocityKnown = 1
IsoGasDepositionVelocity = 0.0000000000000000e+000
IsoGasType           = 0
IsoParDepVelocityKnown = 1
IsoParTermVelocityKnown = 1
IsoParNumDepositionData = 1
IsoParDepositionVelocity =
    0.000000e+000
IsoParTerminalVelocity =
    0.000000e+000
IsoParDiameter =
    1.000000e-006
IsoParDensity =
    1.000000e+003
IsoParMassFraction =
    1.000000e+000
IsoWetWashoutKnown = 1
IsoWetWashout      = 0.0000000000000000e+000
IsoWetWashoutA     = 1.0000000000000000e-004
IsoWetWashoutB     = 6.4000000000000000e-001
IsoConvFactor      = 1.0000000000000000e+000
/

```

```

&ADMS_SOURCE_DETAILS
SrcName              = 'Boiler 2'
SrcMainBuilding      = '(Main)'
SrcHeight            = 2.7500000000000000e+001
SrcDiameter          = 7.7000000000000000e-001
SrcVolFlowRate       = 7.1990000000000000e+000
SrcVertVeloc         = 1.5460000000000000e+001
SrcTemperature       = 2.5000000000000000e+002
SrcMolWeight         = 2.8966000000000000e+001
SrcDensity           = 1.2250000000000000e+000
SrcSpecHeatCap       = 1.0120000000000000e+003
SrcSourceType        = 0
SrcReleaseAtNTP      = 0
SrcEffluxType        = 0
SrcDensityKnown      = 0
SrcPercentNOxAsNO2   = 1.0000000000000000e+001
SrcX1                = 3.9734980000000000e+005
SrcY1                = 3.5053560000000000e+005
SrcL1                = 1.0000000000000000e+000
SrcL2                = 1.0000000000000000e+000

```

```

SrcFm          = 0.0000000000000000e+000
SrcFb          = 0.0000000000000000e+000
SrcMassFlux    = 0.0000000000000000e+000
SrcAngle1      = 0.0000000000000000e+000
SrcAngle2      = 0.0000000000000000e+000
SrcMassH2O     = 0.0000000000000000e+000
SrcNumGroups   = 1
SrcGroup =
    'All sources'
SrcNumVertices = 0
SrcTraNumTrafficFlows = 0
SrcNumPollutants = 8
SrcPollutants =
    'PM'          'NO2'          'NOx'
'SO2'
    'VOC'          'HCL'          'CO'
'H2S'
SrcPolEmissionRate =
    3.860000e-001  1.158000e+000  1.158000e+000  4.375000e-001
    5.150000e-002  2.007000e-001  3.860000e-001  1.960000e-002
SrcPolTotalemission =
    1.000000e+000  1.000000e+000  1.000000e+000  1.000000e+000
    1.000000e+000  1.000000e+000  1.000000e+000  1.000000e+000
SrcPolStartTime =
    0.000000e+000  0.000000e+000  0.000000e+000  0.000000e+000
    0.000000e+000  0.000000e+000  0.000000e+000  0.000000e+000
SrcPolDuration =
    0.000000e+000  0.000000e+000  0.000000e+000  0.000000e+000
    0.000000e+000  0.000000e+000  0.000000e+000  0.000000e+000
SrcNumIsotopes = 0
/

```

&ADMS_SOURCE_DETAILS

```

SrcName          = 'Boiler 3'
SrcMainBuilding  = '(Main)'
SrcHeight        = 2.7500000000000000e+001
SrcDiameter      = 7.0000000000000000e-001
SrcVolFlowRate   = 5.9380000000000000e+000
SrcVertVeloc     = 1.5430000000000000e+001
SrcTemperature   = 2.5000000000000000e+002
SrcMolWeight     = 2.8966000000000000e+001
SrcDensity       = 1.2250000000000000e+000
SrcSpecHeatCap   = 1.0120000000000000e+003
SrcSourceType    = 0
SrcReleaseAtNTP  = 0
SrcEffluxType    = 0
SrcDensityKnown  = 0
SrcPercentNOxAsNO2 = 1.0000000000000000e+001
SrcX1            = 3.9734980000000000e+005
SrcY1            = 3.5053560000000000e+005
SrcL1           = 1.0000000000000000e+000
SrcL2           = 1.0000000000000000e+000
SrcFm           = 0.0000000000000000e+000
SrcFb           = 0.0000000000000000e+000
SrcMassFlux     = 0.0000000000000000e+000
SrcAngle1       = 0.0000000000000000e+000
SrcAngle2       = 0.0000000000000000e+000
SrcMassH2O      = 0.0000000000000000e+000
SrcNumGroups    = 1

```

```

SrcGroup =
    'All sources'
SrcNumVertices = 0
SrcTraNumTrafficFlows = 0
SrcNumPollutants = 8
SrcPollutants =
    'PM' 'NO2' 'NOx'
'SO2'
    'VOC' 'HCL' 'CO'
'H2S'
SrcPolEmissionRate =
    3.183000e-001 9.549000e-001 9.549000e-001 3.607000e-001
    4.240000e-002 1.655000e-001 3.183000e-001 1.610000e-002
SrcPolTotalemission =
    1.000000e+000 1.000000e+000 1.000000e+000 1.000000e+000
    1.000000e+000 1.000000e+000 1.000000e+000 1.000000e+000
SrcPolStartTime =
    0.000000e+000 0.000000e+000 0.000000e+000 0.000000e+000
    0.000000e+000 0.000000e+000 0.000000e+000 0.000000e+000
SrcPolDuration =
    0.000000e+000 0.000000e+000 0.000000e+000 0.000000e+000
    0.000000e+000 0.000000e+000 0.000000e+000 0.000000e+000
SrcNumIsotopes = 0
/

```

&ADMS_SOURCE_DETAILS

```

SrcName = 'Boiler 4'
SrcMainBuilding = '(Main)'
SrcHeight = 2.750000000000000e+001
SrcDiameter = 7.000000000000000e-001
SrcVolFlowRate = 5.938000000000000e+000
SrcVertVeloc = 1.543000000000000e+001
SrcTemperature = 2.500000000000000e+002
SrcMolWeight = 2.896600000000000e+001
SrcDensity = 1.225000000000000e+000
SrcSpecHeatCap = 1.012000000000000e+003
SrcSourceType = 0
SrcReleaseAtNTP = 0
SrcEffluxType = 0
SrcDensityKnown = 0
SrcPercentNOxAsNO2 = 1.000000000000000e+001
SrcX1 = 3.973498000000000e+005
SrcY1 = 3.505356000000000e+005
SrcL1 = 1.000000000000000e+000
SrcL2 = 1.000000000000000e+000
SrcFm = 0.000000000000000e+000
SrcFb = 0.000000000000000e+000
SrcMassFlux = 0.000000000000000e+000
SrcAngle1 = 0.000000000000000e+000
SrcAngle2 = 0.000000000000000e+000
SrcMassH2O = 0.000000000000000e+000
SrcNumGroups = 1
SrcGroup =
    'All sources'
SrcNumVertices = 0
SrcTraNumTrafficFlows = 0
SrcNumPollutants = 8
SrcPollutants =

```

```

      'PM              ' 'NO2              ' 'NOx
'SO2
      'VOC              ' 'HCL              ' 'CO
'H2S
  SrcPolEmissionRate =
    3.183000e-001  9.549000e-001  9.549000e-001  3.607000e-001
    4.240000e-002  1.655000e-001  3.183000e-001  1.610000e-002
  SrcPolTotalemission =
    1.000000e+000  1.000000e+000  1.000000e+000  1.000000e+000
    1.000000e+000  1.000000e+000  1.000000e+000  1.000000e+000
  SrcPolStartTime =
    0.000000e+000  0.000000e+000  0.000000e+000  0.000000e+000
    0.000000e+000  0.000000e+000  0.000000e+000  0.000000e+000
  SrcPolDuration =
    0.000000e+000  0.000000e+000  0.000000e+000  0.000000e+000
    0.000000e+000  0.000000e+000  0.000000e+000  0.000000e+000
  SrcNumIsotopes      = 0
/

&ADMS_SOURCE_DETAILS
SrcName      = 'Boiler 5              '
SrcMainBuilding = 'Mat Recp_Proc      '
SrcHeight    = 2.5000000000000000e+001
SrcDiameter  = 1.4000000000000000e+000
SrcVolFlowRate = 2.7663000000000000e+001
SrcVertVeloc = 1.7970000000000000e+001
SrcTemperature = 4.5000000000000000e+002
SrcMolWeight  = 2.8966000000000000e+001
SrcDensity    = 1.2250000000000000e+000
SrcSpecHeatCap = 1.0120000000000000e+003
SrcSourceType = 0
SrcReleaseAtNTP = 0
SrcEffluxType  = 0
SrcDensityKnown = 0
SrcPercentNOxAsNO2 = 1.0000000000000000e+001
SrcX1          = 3.9734280000000000e+005
SrcY1          = 3.5044870000000000e+005
SrcL1          = 1.0000000000000000e+000
SrcL2          = 1.0000000000000000e+000
SrcFm          = 0.0000000000000000e+000
SrcFb          = 0.0000000000000000e+000
SrcMassFlux    = 0.0000000000000000e+000
SrcAngle1      = 0.0000000000000000e+000
SrcAngle2      = 0.0000000000000000e+000
SrcMassH2O     = 0.0000000000000000e+000
SrcNumGroups   = 1
SrcGroup       =
  'All sources              '
SrcNumVertices = 0
SrcTraNumTrafficFlows = 0
SrcNumPollutants = 8
SrcPollutants =
  'NO2              ' 'NOx              ' 'SO2
'VOC
  'HCL              ' 'CO              ' 'PM
'H2S
  SrcPolEmissionRate =

```

2.738400e+000	2.738400e+000	1.034500e+000	1.217000e-001
4.747000e-001	9.128000e-001	9.128000e-001	4.620000e-002
SrcPolTotalemission =			
1.000000e+000	1.000000e+000	1.000000e+000	1.000000e+000
1.000000e+000	1.000000e+000	1.000000e+000	1.000000e+000
SrcPolStartTime =			
0.000000e+000	0.000000e+000	0.000000e+000	0.000000e+000
0.000000e+000	0.000000e+000	0.000000e+000	0.000000e+000
SrcPolDuration =			
0.000000e+000	0.000000e+000	0.000000e+000	0.000000e+000
0.000000e+000	0.000000e+000	0.000000e+000	0.000000e+000
SrcNumIsotopes	= 0		
/			

&ADMS_SOURCE_DETAILS

SrcName	= 'Boiler 6	'
SrcMainBuilding	= 'Mat Recp_Proc	'
SrcHeight	= 2.5000000000000000e+001	
SrcDiameter	= 1.4000000000000000e+000	
SrcVolFlowRate	= 2.7663000000000000e+001	
SrcVertVeloc	= 1.7970000000000000e+001	
SrcTemperature	= 4.5000000000000000e+002	
SrcMolWeight	= 2.8966000000000000e+001	
SrcDensity	= 1.2250000000000000e+000	
SrcSpecHeatCap	= 1.0120000000000000e+003	
SrcSourceType	= 0	
SrcReleaseAtNTP	= 0	
SrcEffluxType	= 0	
SrcDensityKnown	= 0	
SrcPercentNOxAsNO2	= 1.0000000000000000e+001	
SrcX1	= 3.9734280000000000e+005	
SrcY1	= 3.5044870000000000e+005	
SrcL1	= 1.0000000000000000e+000	
SrcL2	= 1.0000000000000000e+000	
SrcFm	= 0.0000000000000000e+000	
SrcFb	= 0.0000000000000000e+000	
SrcMassFlux	= 0.0000000000000000e+000	
SrcAngle1	= 0.0000000000000000e+000	
SrcAngle2	= 0.0000000000000000e+000	
SrcMassH2O	= 0.0000000000000000e+000	
SrcNumGroups	= 1	
SrcGroup	=	

'All sources	'		
SrcNumVertices	= 0		
SrcTraNumTrafficFlows	= 0		
SrcNumPollutants	= 8		
SrcPollutants =			
'NO2	'	'NOx	' 'SO2

'VOC	'		
'HCL	'	'CO	' 'PM

'H2S	'		
SrcPolEmissionRate =			
2.738400e+000	2.738400e+000	1.034500e+000	1.217000e-001
4.747000e-001	9.128000e-001	9.128000e-001	4.620000e-002
SrcPolTotalemission =			
1.000000e+000	1.000000e+000	1.000000e+000	1.000000e+000
1.000000e+000	1.000000e+000	1.000000e+000	1.000000e+000
SrcPolStartTime =			
0.000000e+000	0.000000e+000	0.000000e+000	0.000000e+000

```

0.000000e+000 0.000000e+000 0.000000e+000 0.000000e+000
SrcPolDuration =
0.000000e+000 0.000000e+000 0.000000e+000 0.000000e+000
0.000000e+000 0.000000e+000 0.000000e+000 0.000000e+000
SrcNumIsotopes = 0
/

```

&ADMS_SOURCE_DETAILS

```

SrcName = 'Eng1'
SrcMainBuilding = 'Mat Recp_Proc'
SrcHeight = 2.000000000000000e+001
SrcDiameter = 5.000000000000000e-001
SrcVolFlowRate = 2.880000000000000e+000
SrcVertVeloc = 1.466800000000000e+001
SrcTemperature = 4.250000000000000e+002
SrcMolWeight = 2.896600000000000e+001
SrcDensity = 1.225000000000000e+000
SrcSpecHeatCap = 1.012000000000000e+003
SrcSourceType = 0
SrcReleaseAtNTP = 0
SrcEffluxType = 1
SrcDensityKnown = 0
SrcPercentNOxAsNO2 = 1.000000000000000e+001
SrcX1 = 3.974149000000000e+005
SrcY1 = 3.504667000000000e+005
SrcL1 = 1.000000000000000e+000
SrcL2 = 1.000000000000000e+000
SrcFm = 0.000000000000000e+000
SrcFb = 0.000000000000000e+000
SrcMassFlux = 0.000000000000000e+000
SrcAngle1 = 0.000000000000000e+000
SrcAngle2 = 0.000000000000000e+000
SrcMassH2O = 0.000000000000000e+000
SrcNumGroups = 1
SrcGroup =
'All sources'
SrcNumVertices = 0
SrcTraNumTrafficFlows = 0
SrcNumPollutants = 8
SrcPollutants =
'NOx' 'NO2' 'SO2'

```

```

'PM'
'VOC' 'HCL' 'H2S'

```

```

'CO'
SrcPolEmissionRate =
3.471000e-001 3.471000e-001 1.170000e-001 3.860000e-002
1.540000e-002 6.020000e-002 5.900000e-003 1.157000e-001
SrcPolTotalemission =
1.000000e+000 1.000000e+000 1.000000e+000 1.000000e+000
1.000000e+000 1.000000e+000 1.000000e+000 1.000000e+000
SrcPolStartTime =
0.000000e+000 0.000000e+000 0.000000e+000 0.000000e+000
0.000000e+000 0.000000e+000 0.000000e+000 0.000000e+000
SrcPolDuration =
0.000000e+000 0.000000e+000 0.000000e+000 0.000000e+000
0.000000e+000 0.000000e+000 0.000000e+000 0.000000e+000
SrcNumIsotopes = 0
/

```

&ADMS_SOURCE_DETAILS

SrcName = 'Boiler 1'
SrcMainBuilding = '(Main)'
SrcHeight = 2.750000000000000e+001
SrcDiameter = 3.900000000000000e-001
SrcVolFlowRate = 1.800000000000000e+000
SrcVertVeloc = 1.507000000000000e+001
SrcTemperature = 2.500000000000000e+002
SrcMolWeight = 2.896600000000000e+001
SrcDensity = 1.225000000000000e+000
SrcSpecHeatCap = 1.012000000000000e+003
SrcSourceType = 0
SrcReleaseAtNTP = 0
SrcEffluxType = 0
SrcDensityKnown = 0
SrcPercentNOxAsNO2 = 1.000000000000000e+001
SrcX1 = 3.973498000000000e+005
SrcY1 = 3.505356000000000e+005
SrcL1 = 1.000000000000000e+000
SrcL2 = 1.000000000000000e+000
SrcFm = 0.000000000000000e+000
SrcFb = 0.000000000000000e+000
SrcMassFlux = 0.000000000000000e+000
SrcAngle1 = 0.000000000000000e+000
SrcAngle2 = 0.000000000000000e+000
SrcMassH2O = 0.000000000000000e+000
SrcNumGroups = 1
SrcGroup =
'All sources'
SrcNumVertices = 0
SrcTraNumTrafficFlows = 0
SrcNumPollutants = 8
SrcPollutants =
'NOx' 'NO2' 'SO2'

'PM'
'VOC' 'HCL' 'H2S'

'CO'
SrcPolEmissionRate =
2.895000e-001 2.895000e-001 1.094000e-001 9.650000e-002
1.290000e-002 5.020000e-002 4.900000e-003 9.650000e-002
SrcPolTotalEmission =
1.000000e+000 1.000000e+000 1.000000e+000 1.000000e+000
1.000000e+000 1.000000e+000 1.000000e+000 1.000000e+000
SrcPolStartTime =
0.000000e+000 0.000000e+000 0.000000e+000 0.000000e+000
0.000000e+000 0.000000e+000 0.000000e+000 0.000000e+000
SrcPolDuration =
0.000000e+000 0.000000e+000 0.000000e+000 0.000000e+000
0.000000e+000 0.000000e+000 0.000000e+000 0.000000e+000
SrcNumIsotopes = 0
/

&ADMS_SOURCE_DETAILS

SrcName = 'Eng7'
SrcMainBuilding = 'Mat Recp_Proc'
SrcHeight = 2.000000000000000e+001
SrcDiameter = 5.000000000000000e-001
SrcVolFlowRate = 2.880000000000000e+000
SrcVertVeloc = 1.466800000000000e+001

```

SrcTemperature      = 4.250000000000000e+002
SrcMolWeight        = 2.896600000000000e+001
SrcDensity          = 1.225000000000000e+000
SrcSpecHeatCap      = 1.012000000000000e+003
SrcSourceType       = 0
SrcReleaseAtNTP     = 0
SrcEffluxType       = 1
SrcDensityKnown     = 0
SrcPercentNOxAsNO2  = 1.000000000000000e+001
SrcX1               = 3.974149000000000e+005
SrcY1               = 3.504667000000000e+005
SrcL1               = 1.000000000000000e+000
SrcL2               = 1.000000000000000e+000
SrcFm               = 0.000000000000000e+000
SrcFb               = 0.000000000000000e+000
SrcMassFlux         = 0.000000000000000e+000
SrcAngle1           = 0.000000000000000e+000
SrcAngle2           = 0.000000000000000e+000
SrcMassH2O          = 0.000000000000000e+000
SrcNumGroups        = 1
SrcGroup            =
    'All sources          '
SrcNumVertices      = 0
SrcTraNumTrafficFlows = 0
SrcNumPollutants    = 8
SrcPollutants       =
    'NOx                  ' 'NO2                  ' 'SO2
,
'PM                  '
    'VOC                  ' 'HCL                  ' 'H2S
,
'CO                  '
    SrcPolEmissionRate =
        3.471000e-001 3.471000e-001 1.170000e-001 3.860000e-002
        1.540000e-002 6.020000e-002 5.900000e-003 1.157000e-001
    SrcPolTotalEmission =
        1.000000e+000 1.000000e+000 1.000000e+000 1.000000e+000
        1.000000e+000 1.000000e+000 1.000000e+000 1.000000e+000
    SrcPolStartTime =
        0.000000e+000 0.000000e+000 0.000000e+000 0.000000e+000
        0.000000e+000 0.000000e+000 0.000000e+000 0.000000e+000
    SrcPolDuration =
        0.000000e+000 0.000000e+000 0.000000e+000 0.000000e+000
        0.000000e+000 0.000000e+000 0.000000e+000 0.000000e+000
    SrcNumIsotopes      = 0
/

```

&ADMS_SOURCE_DETAILS

```

SrcName            = 'Eng6          '
SrcMainBuilding    = 'Mat Recp_Proc  '
SrcHeight          = 2.000000000000000e+001
SrcDiameter        = 5.000000000000000e-001
SrcVolFlowRate     = 2.880000000000000e+000
SrcVertVeloc       = 1.466800000000000e+001
SrcTemperature     = 4.250000000000000e+002
SrcMolWeight       = 2.896600000000000e+001
SrcDensity         = 1.225000000000000e+000
SrcSpecHeatCap     = 1.012000000000000e+003
SrcSourceType      = 0
SrcReleaseAtNTP    = 0
SrcEffluxType      = 1

```

```

SrcDensityKnown = 0
SrcPercentNOxAsNO2 = 1.000000000000000e+001
SrcX1 = 3.974149000000000e+005
SrcY1 = 3.504667000000000e+005
SrcL1 = 1.000000000000000e+000
SrcL2 = 1.000000000000000e+000
SrcFm = 0.000000000000000e+000
SrcFb = 0.000000000000000e+000
SrcMassFlux = 0.000000000000000e+000
SrcAngle1 = 0.000000000000000e+000
SrcAngle2 = 0.000000000000000e+000
SrcMassH2O = 0.000000000000000e+000
SrcNumGroups = 1
SrcGroup =
    'All sources'
SrcNumVertices = 0
SrcTraNumTrafficFlows = 0
SrcNumPollutants = 8
SrcPollutants =
    'NOx' 'NO2' 'SO2'
'PM
    'VOC' 'HCL' 'H2S'
'CO
    SrcPolEmissionRate =
        3.471000e-001 3.471000e-001 1.170000e-001 3.860000e-002
        1.540000e-002 6.020000e-002 5.900000e-003 1.157000e-001
    SrcPolTotalemission =
        1.000000e+000 1.000000e+000 1.000000e+000 1.000000e+000
        1.000000e+000 1.000000e+000 1.000000e+000 1.000000e+000
    SrcPolStartTime =
        0.000000e+000 0.000000e+000 0.000000e+000 0.000000e+000
        0.000000e+000 0.000000e+000 0.000000e+000 0.000000e+000
    SrcPolDuration =
        0.000000e+000 0.000000e+000 0.000000e+000 0.000000e+000
        0.000000e+000 0.000000e+000 0.000000e+000 0.000000e+000
    SrcNumIsotopes = 0
/

```

&ADMS_SOURCE_DETAILS

```

SrcName = 'Eng8'
SrcMainBuilding = 'Mat Recp_Proc'
SrcHeight = 2.000000000000000e+001
SrcDiameter = 5.000000000000000e-001
SrcVolFlowRate = 2.880000000000000e+000
SrcVertVeloc = 1.466800000000000e+001
SrcTemperature = 4.250000000000000e+002
SrcMolWeight = 2.896600000000000e+001
SrcDensity = 1.225000000000000e+000
SrcSpecHeatCap = 1.012000000000000e+003
SrcSourceType = 0
SrcReleaseAtNTP = 0
SrcEffluxType = 1
SrcDensityKnown = 0
SrcPercentNOxAsNO2 = 1.000000000000000e+001
SrcX1 = 3.974149000000000e+005
SrcY1 = 3.504667000000000e+005
SrcL1 = 1.000000000000000e+000
SrcL2 = 1.000000000000000e+000
SrcFm = 0.000000000000000e+000

```

```

SrcFb          = 0.0000000000000000e+000
SrcMassFlux    = 0.0000000000000000e+000
SrcAngle1      = 0.0000000000000000e+000
SrcAngle2      = 0.0000000000000000e+000
SrcMassH2O     = 0.0000000000000000e+000
SrcNumGroups   = 1
SrcGroup =
    'All sources'
SrcNumVertices = 0
SrcTraNumTrafficFlows = 0
SrcNumPollutants = 8
SrcPollutants =
    'NOx'          'NO2'          'SO2'
,
'PM'
    'VOC'          'HCL'          'H2S'
,
'CO'
    SrcPolEmissionRate =
        3.471000e-001  3.471000e-001  1.170000e-001  3.860000e-002
        1.540000e-002  6.020000e-002  5.900000e-003  1.157000e-001
    SrcPolTotalemission =
        1.000000e+000  1.000000e+000  1.000000e+000  1.000000e+000
        1.000000e+000  1.000000e+000  1.000000e+000  1.000000e+000
    SrcPolStartTime =
        0.000000e+000  0.000000e+000  0.000000e+000  0.000000e+000
        0.000000e+000  0.000000e+000  0.000000e+000  0.000000e+000
    SrcPolDuration =
        0.000000e+000  0.000000e+000  0.000000e+000  0.000000e+000
        0.000000e+000  0.000000e+000  0.000000e+000  0.000000e+000
    SrcNumIsotopes = 0
/

```

&ADMS_SOURCE_DETAILS

```

SrcName        = 'ENRC_1'
SrcMainBuilding = 'ADEJF_comb'
SrcHeight       = 3.0000000000000000e+001
SrcDiameter     = 9.0000000000000000e-001
SrcVolFlowRate  = 1.4400000000000000e+001
SrcVertVeloc    = 2.2635000000000000e+001
SrcTemperature  = 4.2500000000000000e+002
SrcMolWeight    = 2.8966000000000000e+001
SrcDensity      = 1.2250000000000000e+000
SrcSpecHeatCap  = 1.0120000000000000e+003
SrcSourceType   = 0
SrcReleaseAtNTP = 0
SrcEffluxType   = 1
SrcDensityKnown = 0
SrcPercentNOxAsNO2 = 1.0000000000000000e+001
SrcX1           = 3.9750180000000000e+005
SrcY1           = 3.5045720000000000e+005
SrcL1           = 1.0000000000000000e+000
SrcL2           = 1.0000000000000000e+000
SrcFm           = 0.0000000000000000e+000
SrcFb           = 0.0000000000000000e+000
SrcMassFlux     = 0.0000000000000000e+000
SrcAngle1       = 0.0000000000000000e+000
SrcAngle2       = 0.0000000000000000e+000
SrcMassH2O      = 0.0000000000000000e+000
SrcNumGroups    = 1
SrcGroup =

```

```

        'All sources
SrcNumVertices = 0
SrcTraNumTrafficFlows = 0
SrcNumPollutants = 8
SrcPollutants =
        'PM
        'NO2
        'NOx
'SO2
        'CO
        'VOC
        'HCL
'H2S
SrcPolEmissionRate =
        1.928000e-001  1.735600e+000  1.735600e+000  5.850000e-001
        5.785000e-001  7.710000e-002  3.008000e-001  2.930000e-002
SrcPolTotalemission =
        1.000000e+000  1.000000e+000  1.000000e+000  1.000000e+000
        1.000000e+000  1.000000e+000  1.000000e+000  1.000000e+000
SrcPolStartTime =
        0.000000e+000  0.000000e+000  0.000000e+000  0.000000e+000
        0.000000e+000  0.000000e+000  0.000000e+000  0.000000e+000
SrcPolDuration =
        0.000000e+000  0.000000e+000  0.000000e+000  0.000000e+000
        0.000000e+000  0.000000e+000  0.000000e+000  0.000000e+000
SrcNumIsotopes = 0
/

&ADMS_SOURCE_DETAILS
SrcName = 'ENRC_2
SrcMainBuilding = 'ADEJF_comb
SrcHeight = 3.000000000000000e+001
SrcDiameter = 9.000000000000000e-001
SrcVolFlowRate = 1.440000000000000e+001
SrcVertVeloc = 2.263500000000000e+001
SrcTemperature = 4.250000000000000e+002
SrcMolWeight = 2.896600000000000e+001
SrcDensity = 1.225000000000000e+000
SrcSpecHeatCap = 1.012000000000000e+003
SrcSourceType = 0
SrcReleaseAtNTP = 0
SrcEffluxType = 1
SrcDensityKnown = 0
SrcPercentNOxAsNO2 = 1.000000000000000e+001
SrcX1 = 3.975018000000000e+005
SrcY1 = 3.504572000000000e+005
SrcL1 = 1.000000000000000e+000
SrcL2 = 1.000000000000000e+000
SrcFm = 0.000000000000000e+000
SrcFb = 0.000000000000000e+000
SrcMassFlux = 0.000000000000000e+000
SrcAngle1 = 0.000000000000000e+000
SrcAngle2 = 0.000000000000000e+000
SrcMassH2O = 0.000000000000000e+000
SrcNumGroups = 1
SrcGroup =
        'All sources
SrcNumVertices = 0
SrcTraNumTrafficFlows = 0
SrcNumPollutants = 8
SrcPollutants =
        'PM
        'NOx
        'NO2

```

```

'SO2          '
      'CO          '      'VOC          '      'HCL
,
'H2S          '
  SrcPolEmissionRate =
    1.928000e-001  1.735600e+000  1.735600e+000  5.850000e-001
    5.785000e-001  7.710000e-002  3.008000e-001  2.930000e-002
  SrcPolTotalemission =
    1.000000e+000  1.000000e+000  1.000000e+000  1.000000e+000
    1.000000e+000  1.000000e+000  1.000000e+000  1.000000e+000
  SrcPolStartTime =
    0.000000e+000  0.000000e+000  0.000000e+000  0.000000e+000
    0.000000e+000  0.000000e+000  0.000000e+000  0.000000e+000
  SrcPolDuration =
    0.000000e+000  0.000000e+000  0.000000e+000  0.000000e+000
    0.000000e+000  0.000000e+000  0.000000e+000  0.000000e+000
  SrcNumIsotopes      = 0
/

&ADMS_SOURCE_DETAILS
SrcName      = 'ENRC_3          '
SrcMainBuilding = 'ADEJF_comb      '
SrcHeight    = 3.000000000000000e+001
SrcDiameter  = 9.000000000000000e-001
SrcVolFlowRate = 1.440000000000000e+001
SrcVertVeloc  = 2.263500000000000e+001
SrcTemperature = 4.250000000000000e+002
SrcMolWeight  = 2.896600000000000e+001
SrcDensity    = 1.225000000000000e+000
SrcSpecHeatCap = 1.012000000000000e+003
SrcSourceType = 0
SrcReleaseAtNTP = 0
SrcEffluxType  = 1
SrcDensityKnown = 0
SrcPercentNOxAsNO2 = 1.000000000000000e+001
SrcX1          = 3.975018000000000e+005
SrcY1          = 3.504572000000000e+005
SrcL1          = 1.000000000000000e+000
SrcL2          = 1.000000000000000e+000
SrcFm          = 0.000000000000000e+000
SrcFb          = 0.000000000000000e+000
SrcMassFlux    = 0.000000000000000e+000
SrcAngle1      = 0.000000000000000e+000
SrcAngle2      = 0.000000000000000e+000
SrcMassH2O     = 0.000000000000000e+000
SrcNumGroups   = 1
SrcGroup       =
  'All sources          '
SrcNumVertices = 0
SrcTraNumTrafficFlows = 0
SrcNumPollutants = 8
SrcPollutants =
  'PM          '      'NOx          '      'NO2
,
'SO2          '
      'CO          '      'VOC          '      'HCL
,
'H2S          '
  SrcPolEmissionRate =
    1.928000e-001  1.735600e+000  1.735600e+000  5.850000e-001
    5.785000e-001  7.710000e-002  3.008000e-001  2.930000e-002

```

```

SrcPolTotalemission =
    1.000000e+000  1.000000e+000  1.000000e+000  1.000000e+000
    1.000000e+000  1.000000e+000  1.000000e+000  1.000000e+000
SrcPolStartTime =
    0.000000e+000  0.000000e+000  0.000000e+000  0.000000e+000
    0.000000e+000  0.000000e+000  0.000000e+000  0.000000e+000
SrcPolDuration =
    0.000000e+000  0.000000e+000  0.000000e+000  0.000000e+000
    0.000000e+000  0.000000e+000  0.000000e+000  0.000000e+000
SrcNumIsotopes      = 0
/

```

&ADMS_SOURCE_DETAILS

```

SrcName              = 'ENRC_4'
SrcMainBuilding      = 'ADEJF_comb'
SrcHeight            = 3.000000000000000e+001
SrcDiameter          = 9.000000000000000e-001
SrcVolFlowRate       = 1.440000000000000e+001
SrcVertVeloc         = 2.263500000000000e+001
SrcTemperature       = 4.250000000000000e+002
SrcMolWeight         = 2.896600000000000e+001
SrcDensity           = 1.225000000000000e+000
SrcSpecHeatCap       = 1.012000000000000e+003
SrcSourceType        = 0
SrcReleaseAtNTP      = 0
SrcEffluxType        = 1
SrcDensityKnown      = 0
SrcPercentNOxAsNO2   = 1.000000000000000e+001
SrcX1                = 3.975018000000000e+005
SrcY1                = 3.504572000000000e+005
SrcL1                = 1.000000000000000e+000
SrcL2                = 1.000000000000000e+000
SrcFm                = 0.000000000000000e+000
SrcFb                = 0.000000000000000e+000
SrcMassFlux          = 0.000000000000000e+000
SrcAngle1            = 0.000000000000000e+000
SrcAngle2            = 0.000000000000000e+000
SrcMassH2O           = 0.000000000000000e+000
SrcNumGroups         = 1

```

```

SrcGroup =
    'All sources'
SrcNumVertices = 0
SrcTraNumTrafficFlows = 0
SrcNumPollutants = 8
SrcPollutants =
    'PM'          'NOx'          'NO2'
    'SO2'
    'CO'          'VOC'          'HCL'
    'H2S'

```

```

SrcPolEmissionRate =
    1.928000e-001  1.735600e+000  1.735600e+000  5.850000e-001
    5.785000e-001  7.710000e-002  3.008000e-001  2.930000e-002
SrcPolTotalemission =
    1.000000e+000  1.000000e+000  1.000000e+000  1.000000e+000
    1.000000e+000  1.000000e+000  1.000000e+000  1.000000e+000
SrcPolStartTime =
    0.000000e+000  0.000000e+000  0.000000e+000  0.000000e+000
    0.000000e+000  0.000000e+000  0.000000e+000  0.000000e+000
SrcPolDuration =

```

```
0.000000e+000 0.000000e+000 0.000000e+000 0.000000e+000
0.000000e+000 0.000000e+000 0.000000e+000 0.000000e+000
SrcNumIsotopes      = 0
/
```

END OF C:\Documents and Settings\Shyam
Singh\Clients_Projects\Pointons\adms_ru
ns\New_run_4.APL

ABOUT THE RUN

Site name : Eneregy Resource Centre stack - New Run
Summary of run for project : Pointons

Continuous release (plume)
Sequential met. data
Height of recorded wind (m) = 10.
Group output
Gridded output
Cartesian co-ordinate system
Regular spacing
Surface roughness at source (m) = 0.30
Latitude of source (degrees) = 52.

MODELLING OPTIONS:

Complex terrain
Buildings

MET PROCESSOR MESSAGES:

Warning: The met file contains an unrecognised
variable name: STATION DCNN
The values given for this variable will be
ignored
Error: Hour number 5842. The value of PRECIP
obtained from the met file is inappropriate:
PRECIP = 0.1068E+03 - It is impossible to continue
the calculation for this hour
Warning: Hour number 5861. The value of U obtained
from the met file is 0.0 indicating calm
conditions. It is impossible to continue
the calculation for this hour
Warning: Hour number 6291. The value of U obtained
from the met file is 0.0 indicating calm
conditions. It is impossible to continue
the calculation for this hour
Error: Hour number 8658. There is insufficient
information to estimate the heat flux - It is
impossible to continue the calculation for this
hour

Message: Number of hours/lines of met data: 8760

SUMMARY OF OUTPUT GROUP CONTENTS:

Group name,	Source name,
All sources,	Boiler 2,
,	Boiler 3,
,	Boiler 4,
,	Boiler 5,
,	Boiler 6,
,	Eng1,
,	Boiler 1,
,	Eng7,
,	Eng6,
,	Eng8,
,	ENRC_1,
,	ENRC_2,
,	ENRC_3,
,	ENRC_4,

SUMMARY OF EMISSION DATA FOR OUTPUT SOURCES:

SO2,	Source name,	PM,	NOx,	VOC,	NO2,	HCL,
H2S,		CO,				
	Boiler 2,		0.1158E+01,		0.1158E+01,	
0.4375E+00,		0.3860E+00,		0.5150E-01,		0.2007E+00,
0.1960E-01,		0.3860E+00,				
	Boiler 3,		0.9549E+00,		0.9549E+00,	
0.3607E+00,		0.3183E+00,		0.4240E-01,		0.1655E+00,
0.1610E-01,		0.3183E+00,				
	Boiler 4,		0.9549E+00,		0.9549E+00,	
0.3607E+00,		0.3183E+00,		0.4240E-01,		0.1655E+00,
0.1610E-01,		0.3183E+00,				
	Boiler 5,		0.2738E+01,		0.2738E+01,	
0.1035E+01,		0.9128E+00,		0.1217E+00,		0.4747E+00,
0.4620E-01,		0.9128E+00,				
	Boiler 6,		0.2738E+01,		0.2738E+01,	
0.1035E+01,		0.9128E+00,		0.1217E+00,		0.4747E+00,
0.4620E-01,		0.9128E+00,				
	Eng1,		0.3471E+00,		0.3471E+00,	
0.1170E+00,		0.3860E-01,		0.1540E-01,		0.6020E-01,
0.5900E-02,		0.1157E+00,				
	Boiler 1,		0.2895E+00,		0.2895E+00,	
0.1094E+00,		0.9650E-01,		0.1290E-01,		0.5020E-01,
0.4900E-02,		0.9650E-01,				
	Eng7,		0.3471E+00,		0.3471E+00,	
0.1170E+00,		0.3860E-01,		0.1540E-01,		0.6020E-01,
0.5900E-02,		0.1157E+00,				
	Eng6,		0.3471E+00,		0.3471E+00,	
0.1170E+00,		0.3860E-01,		0.1540E-01,		0.6020E-01,
0.5900E-02,		0.1157E+00,				
	Eng8,		0.3471E+00,		0.3471E+00,	
0.1170E+00,		0.3860E-01,		0.1540E-01,		0.6020E-01,
0.5900E-02,		0.1157E+00,				
	ENRC_1,		0.1736E+01,		0.1736E+01,	
0.5850E+00,		0.1928E+00,		0.7710E-01,		0.3008E+00,
0.2930E-01,		0.5785E+00,				

	ENRC_2,	0.1736E+01,	0.1736E+01,
0.5850E+00,	0.1928E+00,	0.7710E-01,	0.3008E+00,
0.2930E-01,	0.5785E+00,		
	ENRC_3,	0.1736E+01,	0.1736E+01,
0.5850E+00,	0.1928E+00,	0.7710E-01,	0.3008E+00,
0.2930E-01,	0.5785E+00,		
	ENRC_4,	0.1736E+01,	0.1736E+01,
0.5850E+00,	0.1928E+00,	0.7710E-01,	0.3008E+00,
0.2930E-01,	0.5785E+00,		

SUMMARY OF SOURCE GEOMETRY FOR OUTPUT SOURCES:

Source name,	Source type,	Location Xp(m),
Location Yp(m),	Length L1(m),	Height L1(m),
Vertex1-Y1(m),	Vertex2-X2(m),	Vertex2-Y2(m),
Vertex3-X3(m),	Vertex3-Y3(m),	Vertex4-X4(m),
Vertex4-Y4(m),	Angle1(deg.),	Angle2(deg.),
Diameter(m),		Height(m),
Boiler 2,	Point,	397349.81,
350535.59,	-----,	-----,
-----,	-----,	-----,
-----,	-----,	-----,
-----,	27.50,	0.77,
Boiler 3,	Point,	397349.81,
350535.59,	-----,	-----,
-----,	-----,	-----,
-----,	-----,	-----,
-----,	27.50,	0.70,
Boiler 4,	Point,	397349.81,
350535.59,	-----,	-----,
-----,	-----,	-----,
-----,	-----,	-----,
-----,	27.50,	0.70,
Boiler 5,	Point,	397342.81,
350448.69,	-----,	-----,
-----,	-----,	-----,
-----,	-----,	-----,
-----,	25.00,	1.40,
Boiler 6,	Point,	397342.81,
350448.69,	-----,	-----,
-----,	-----,	-----,
-----,	-----,	-----,
-----,	25.00,	1.40,
Eng1,	Point,	397414.91,
350466.69,	-----,	-----,
-----,	-----,	-----,
-----,	-----,	-----,
-----,	20.00,	0.50,
Boiler 1,	Point,	397349.81,
350535.59,	-----,	-----,
-----,	-----,	-----,
-----,	-----,	-----,
-----,	27.50,	0.39,
Eng7,	Point,	397414.91,
350466.69,	-----,	-----,
-----,	-----,	-----,
-----,	-----,	-----,
-----,	20.00,	0.50,
Eng6,	Point,	397414.91,
350466.69,	-----,	-----,

-----,	-----,	-----,	-----,
-----,	-----,	-----,	-----,
-----,	20.00,	0.50,	-----,
350466.69,	Eng8,	Point,	397414.91,
-----,	-----,	-----,	-----,
-----,	-----,	-----,	-----,
-----,	20.00,	0.50,	-----,
350457.19,	ENRC_1,	Point,	397501.81,
-----,	-----,	-----,	-----,
-----,	-----,	-----,	-----,
-----,	30.00,	0.90,	-----,
350457.19,	ENRC_2,	Point,	397501.81,
-----,	-----,	-----,	-----,
-----,	-----,	-----,	-----,
-----,	30.00,	0.90,	-----,
350457.19,	ENRC_3,	Point,	397501.81,
-----,	-----,	-----,	-----,
-----,	-----,	-----,	-----,
-----,	30.00,	0.90,	-----,
350457.19,	ENRC_4,	Point,	397501.81,
-----,	-----,	-----,	-----,
-----,	-----,	-----,	-----,
-----,	30.00,	0.90,	-----,

SUMMARY OF SOURCE DATA FOR OUTPUT SOURCES:

Source name, or NTP, Efflux, Heat release(MW),	Source name, T, RHO or Ambient, Velocity(m/s), Mass flux(kg/s),	Cp(J/C/kg), Density(kg/m3), Volume flux(m3/s), Mass H2O(kg/kg),	Mol. mass(g), Temperature(deg.C), Momentum flux(m4s2),	Actual
Boiler 2,		1012.00,	28.97,	
Actual,	T,	-----,	-----,	250.00,
Exit V,	15.46,	-----,	-----,	-----,
-----,	-----,	0.00,	-----,	-----,
Boiler 3,		1012.00,	28.97,	
Actual,	T,	-----,	-----,	250.00,
Exit V,	15.43,	-----,	-----,	-----,
-----,	-----,	0.00,	-----,	-----,
Boiler 4,		1012.00,	28.97,	
Actual,	T,	-----,	-----,	250.00,
Exit V,	15.43,	-----,	-----,	-----,
-----,	-----,	0.00,	-----,	-----,
Boiler 5,		1012.00,	28.97,	
Actual,	T,	-----,	-----,	450.00,
Exit V,	17.97,	-----,	-----,	-----,
-----,	-----,	0.00,	-----,	-----,
Boiler 6,		1012.00,	28.97,	
Actual,	T,	-----,	-----,	450.00,
Exit V,	17.97,	-----,	-----,	-----,
-----,	-----,	0.00,	-----,	-----,
Eng1,		1012.00,	28.97,	
Actual,	T,	-----,	-----,	425.00,
Vol,	-----,	2.88,	-----,	-----,
-----,	-----,	0.00,	-----,	-----,

Actual,	Boiler 1,	1012.00,	28.97,
Exit V,	T,	-----,	250.00,
-----,	15.07,	-----,	-----,
	-----,	0.00,	
	Eng7,	1012.00,	28.97,
Actual,	T,	-----,	425.00,
Vol,	-----,	2.88,	-----,
-----,	-----,	0.00,	
	Eng6,	1012.00,	28.97,
Actual,	T,	-----,	425.00,
Vol,	-----,	2.88,	-----,
-----,	-----,	0.00,	
	Eng8,	1012.00,	28.97,
Actual,	T,	-----,	425.00,
Vol,	-----,	2.88,	-----,
-----,	-----,	0.00,	
	ENRC_1,	1012.00,	28.97,
Actual,	T,	-----,	425.00,
Vol,	-----,	14.40,	-----,
-----,	-----,	0.00,	
	ENRC_2,	1012.00,	28.97,
Actual,	T,	-----,	425.00,
Vol,	-----,	14.40,	-----,
-----,	-----,	0.00,	
	ENRC_3,	1012.00,	28.97,
Actual,	T,	-----,	425.00,
Vol,	-----,	14.40,	-----,
-----,	-----,	0.00,	
	ENRC_4,	1012.00,	28.97,
Actual,	T,	-----,	425.00,
Vol,	-----,	14.40,	-----,
-----,	-----,	0.00,	

SUMMARY OF POLLUTANT OUTPUT DATA:

Pollutant name,	Long-/Short-term,	Ave.time - hrs,
- mins,	- secs,	Roll/Non-roll,
Output Units,		Percentiles,
NO2,	Long-term,	1,
0,	Non-rolling,	99.79,
µg/m³,		
SO2,	Long-term,	-----
15,	Non-rolling,	99.90,
µg/m³,		
SO2,	Long-term,	1,
0,	Non-rolling,	99.73,
µg/m³,		
SO2,	Long-term,	24,
0,	Non-rolling,	99.18,
µg/m³,		
CO,	Long-term,	8,
0,	Rolling,	100.00,
mg/m³,		
PM,	Long-term,	1,
0,	Non-rolling,	,
µg/m³,		
PM,	Long-term,	24,
0,	Non-rolling,	98.08 90.41,
µg/m³,		

0,	NOx,	Long-term,	1,
µg/m ³ ,	0,	Non-rolling,	,
0,	VOC,	Long-term,	1,
µg/m ³ ,	0,	Non-rolling,	,
0,	HCL,	Long-term,	1,
µg/m ³ ,	0,	Non-rolling,	,

PROGRAM MESSAGES:

```
(Long Term Calculations)
702.91 MB RAM available for percentiles calculations
911.39 MB memory required to use method 1 (temporary file)
16.23 MB memory required to use method 2 (linked list)
PERCENTILES: Attempting method 2 (linked list)
PERCENTILES: Allocated a 16.23 MB buffer
WARNING: An attempt was made to access data outside the FLOWSTAR grid, met
lin
e number 477
WARNING: An attempt was made to access data outside the FLOWSTAR grid, met
lin
e number 477
WARNING: An attempt was made to access data outside the FLOWSTAR grid, met
lin
e number 477
WARNING: An attempt was made to access data outside the FLOWSTAR grid, met
lin
e number 477
WARNING: An attempt was made to access data outside the FLOWSTAR grid, met
lin
e number 477
WARNING: An attempt was made to access data outside the FLOWSTAR grid, met
lin
e number 477
Percentiles calculation compensation - some met lines unused: 8760 -> 8633
Time spent calculating percentiles was 42.86 seconds
```

SUMMARY OF MET DATA:

```
Number of met lines used = 8633
Number of met lines with calm conditions = 2
Number of met lines with inadequate data = 2
Number of non-calm met lines with wind speed less than the
minimum value of 0.75m/s at 10m = 123
```

```
This log file is closing on 03/06/2007
Time: 9:41:59
***RUN SUCCESSFULLY COMPLETED***
Run duration: 13 hours, 47 minutes and 43.61 seconds
Closing the Logfile
```