

----- START OF SESSION 1(mYBNewNeutralGasDispersionConcentration) -----
INPUT
Model..... : Neutral gas release; concentration (196)
Version..... : 5.13
Reference..... : Yellow Book (CPR-14E), 3rd edition 1997, Chapter 4
Case description..... : 70942-Sc4-DispData-0,5LFL-F2
Chemical name..... : Methane
Type of release..... : Continuous
Mass flow rate of the source..... : 1.3 kg/s
X-coordinate of release..... : 0 m
Y-coordinate of release..... : 0 m
Z-coordinate (height) of release..... : 1 m
Length source in wind (x) direction..... : 0.061 m
Length source in crosswind (y) direction..... : 0.061 m
Length source in vertical (z) direction..... : 0.061 m
Ambient temperature..... : 25 °C
Meteorological data..... : Pasquill
Pasquill stability class..... : F (Very Stable)
Latitude of the location..... : 51 deg
Wind speed at 10 m height..... : 2 m/s
Roughness length description..... : Cultivated land
Concentration averaging time..... : 600 s
Distance from release (Xd)..... : 450 m
Distance perpendicular to wind direction (Yd)..... : 0 m
Height (Zd)..... : 1.7 m
Predefined concentration..... : User defined
Threshold concentration..... : 16677 mg/m3
Contour plot accuracy..... : 1 %
Integration tolerance..... : 0.1 %
Predefined wind direction..... : User defined
Wind comes from (West = 180 degrees)..... : 180 deg

RESULTS
Concentration at (X,Y,Z)..... : 1496.6 mg/m3
Inverse Monin-Obukhov length (1/L) used..... : 0.057774 1/m
Mixing height used..... : 56.441 m
Stand. dev. of turbulent velocity in vert. direction used... : 0.16747 m/s
Stand. dev. of turbulent velocity in horiz. direction used.. : 0.24477 m/s
Maximum distance to threshold concentration..... : 82.3 m

----- END OF SESSION 1 -----

Administrative & version data:

Main program (production date) : Effects (15 Jan 2008 10:23:00)
Run mode (complexity level) : Expert
Model name : Neutral gas release; concentration (196)
Date of this calculation : 24 May 2013 12:14:08
License owner : Marco
Calculation performed by : Marco
Software library version : 7.5.2.0836
Model driver version(s) : 5.13
Model driver last modification : 28 Mar 2007
Model executable version(s) : N/A
Session nr. : 1
References : Yellow Book (CPR-14E), 3rd edition 1997, Chapter 4
Project file name : "70942-Scenario 4.alf"
Chemical database used : "Purple Book (1999).rdb" (04 dic 2007 15:00:44)
Environment database used : "Purple Book (1999).Env" (20 set 2012 15:14:08)
System database used : "Purple Book (1999).SPF" (20 set 2012 15:12:42)
Dispersion database used : "Purple Book (1999).dpf" (30 lug 2007 12:00:00)
Map background file used : "70942-Scenario 4.gbf" (01 gen 0 00:00:00)
Project file directory : "Z:\Documenti\70000\70942 PROGER Fiume Treste NOF PmagPi\Elaborati\4"
Chemical database directory : "C:\Program Files\TNO\Effects 75\Shared data\Databases"
Environment database directory : "C:\Program Files\TNO\Effects 75\Shared data\Databases"
System database directory : "C:\Program Files\TNO\Effects 75\Shared data\Databases"
Dispersion database directory : "C:\Program Files\TNO\Effects 75\Shared data\Databases"
Map background directory : "Z:\Documenti\70000\70942 PROGER Fiume Treste NOF PmagPi\Elaborati\4"

End of administrative & version data:

----- START OF SESSION 2(mYBNewNeutralGasDispersionConcentration) -----
INPUT

Model..... : Neutral gas release; concentration (196)
Version..... : 5.13
Reference..... : Yellow Book (CPR-14E), 3rd edition 1997, Chapter 4
Case description..... : 70942-Sc4-DispData-LFL-F2
Chemical name..... : Methane
Type of release..... : Continuous
Mass flow rate of the source..... : 1.3 kg/s
X-coordinate of release..... : 0 m

Y-coordinate of release..... : 0 m
Z-coordinate (height) of release..... : 1 m
Length source in wind (x) direction..... : 0.061 m
Length source in crosswind (y) direction..... : 0.061 m
Length source in vertical (z) direction..... : 0.061 m
Ambient temperature..... : 25 °C
Meteorological data..... : Pasquill
Pasquill stability class..... : F (Very Stable)
Latitude of the location..... : 51 deg
Wind speed at 10 m height..... : 2 m/s
Roughness length description..... : Cultivated land
Concentration averaging time..... : 600 s
 Distance from release (Xd)..... : 450 m
 Distance perpendicular to wind direction (Yd)..... : 0 m
 Height (Zd)..... : 1.7 m
Predefined concentration..... : LEL (Lower Explosion Limit)
Threshold concentration..... : 33353 mg/m3
Contour plot accuracy..... : 1 %
Integration tolerance..... : 0.1 %
Predefined wind direction..... : User defined
Wind comes from (West = 180 degrees)..... : 180 deg

RESULTS

Concentration at (X,Y,Z)..... : 1496.6 mg/m3
Inverse Monin-Obukhov length (1/L) used..... : 0.057774 1/m
Mixing height used..... : 56.441 m
Stand. dev. of turbulent velocity in vert. direction used... : 0.16747 m/s
Stand. dev. of turbulent velocity in horiz. direction used.. : 0.24477 m/s
Maximum distance to threshold concentration..... : 46.531 m

----- END OF SESSION 2 -----

Administrative & version data:

Main program (production date) : Effects (15 Jan 2008 10:23:00)
Run mode (complexity level) : Expert
Model name : Neutral gas release; concentration (196)
Date of this calculation : 24 May 2013 12:14:08
License owner : Marco
Calculation performed by : Marco
Software library version : 7.5.2.0836
Model driver version(s) : 5.13
Model driver last modification : 28 Mar 2007
Model executable version(s) : N/A
Session nr. : 2
References : Yellow Book (CPR-14E), 3rd edition 1997, Chapter 4
Project file name : "70942-Scenario 4.alf"
Chemical database used : "Purple Book (1999).rdb" (04 dic 2007 15:00:44)
Environment database used : "Purple Book (1999).Env" (20 set 2012 15:14:08)
System database used : "Purple Book (1999).SPF" (20 set 2012 15:12:42)
Dispersion database used : "Purple Book (1999).dpf" (30 lug 2007 12:00:00)
Map background file used : "70942-Scenario 4.gbf" (01 gen 0 00:00:00)
Project file directory : "Z:\Documenti\70000\70942 PROGER Fiume Treste NOF PmagPi\Elaborati\4"
Chemical database directory : "C:\Program Files\TNO\Effects 75\Shared data\Databases"
Environment database directory : "C:\Program Files\TNO\Effects 75\Shared data\Databases"
System database directory : "C:\Program Files\TNO\Effects 75\Shared data\Databases"
Dispersion database directory : "C:\Program Files\TNO\Effects 75\Shared data\Databases"
Map background directory : "Z:\Documenti\70000\70942 PROGER Fiume Treste NOF PmagPi\Elaborati\4"

End of administrative & version data:

Session 3

----- START OF SESSION 3(mYBNewNeutralGasDispersionConcentration) -----

INPUT

Model..... : Neutral gas release; concentration (196)
Version..... : 5.13
Reference..... : Yellow Book (CPR-14E), 3rd edition 1997, Chapter 4
Case description..... : 70942-Sc4-DispData-0,5LFL-D5
Chemical name..... : Methane
Type of release..... : Continuous
Mass flow rate of the source..... : 1.3 kg/s
 X-coordinate of release..... : 0 m
 Y-coordinate of release..... : 0 m
 Z-coordinate (height) of release..... : 1 m
Length source in wind (x) direction..... : 0.061 m
Length source in crosswind (y) direction..... : 0.061 m
Length source in vertical (z) direction..... : 0.061 m
Ambient temperature..... : 25 °C
Meteorological data..... : Pasquill
Pasquill stability class..... : D (Neutral)
Latitude of the location..... : 51 deg
Wind speed at 10 m height..... : 5 m/s
Roughness length description..... : Cultivated land
Concentration averaging time..... : 600 s
 Distance from release (Xd)..... : 450 m
 Distance perpendicular to wind direction (Yd)..... : 0 m
 Height (Zd)..... : 1.7 m

Redefined concentration..... : User defined
Threshold concentration..... : 16677 mg/m3
Contour plot accuracy..... : 1 %
Integration tolerance..... : 0.1 %
Predefined wind direction..... : User defined
Wind comes from (West = 180 degrees)..... : 180 deg

RESULTS

Concentration at (X,Y,Z)..... : 105.84 mg/m3
Inverse Monin-Obukhov length (1/L) used..... : 0 1/m
Mixing height used..... : 500 m
Stand. dev. of turbulent velocity in vert. direction used... : 0.7618 m/s
Stand. dev. of turbulent velocity in horiz. direction used.. : 1.1089 m/s
Maximum distance to threshold concentration..... : 16.132 m

----- END OF SESSION 3 -----

Administrative & version data:

Main program (production date) : Effects (15 Jan 2008 10:23:00)
Run mode (complexity level) : Expert
Model name : Neutral gas release; concentration (196)
Date of this calculation : 24 May 2013 12:14:09
License owner : Marco
Calculation performed by : Marco
Software library version : 7.5.2.0836
Model driver version(s) : 5.13
Model driver last modification : 28 Mar 2007
Model executable version(s) : N/A
Session nr. : 3
References : Yellow Book (CPR-14E), 3rd edition 1997, Chapter 4
Project file name : "70942-Scenario 4.alf"
Chemical database used : "Purple Book (1999).rdb" (04 dic 2007 15:00:44)
Environment database used : "Purple Book (1999).Env" (20 set 2012 15:14:08)
System database used : "Purple Book (1999).SPF" (20 set 2012 15:12:42)
Dispersion database used : "Purple Book (1999).dpf" (30 lug 2007 12:00:00)
Map background file used : "70942-Scenario 4.gbf" (01 gen 0 00:00:00)
Project file directory : "Z:\Documenti\70000\70942 PROGER Fiume Treste NOF PmagPi\Elaborati\4"
Chemical database directory : "C:\Program Files\TNO\Effects 75\Shared data\Databases"
Environment database directory : "C:\Program Files\TNO\Effects 75\Shared data\Databases"
System database directory : "C:\Program Files\TNO\Effects 75\Shared data\Databases"
Dispersion database directory : "C:\Program Files\TNO\Effects 75\Shared data\Databases"
Map background directory : "Z:\Documenti\70000\70942 PROGER Fiume Treste NOF PmagPi\Elaborati\4"

End of administrative & version data:

Session 4

----- START OF SESSION 4(mYBNewNeutralGasDispersionConcentration) -----

INPUT

Model..... : Neutral gas release; concentration (196)
Version..... : 5.13
Reference..... : Yellow Book (CPR-14E), 3rd edition 1997, Chapter 4
Case description..... : 70942-Sc4-DispData-0,5LFL-D5
Chemical name..... : Methane
Type of release..... : Continuous
Mass flow rate of the source..... : 1.3 kg/s
X-coordinate of release..... : 0 m
Y-coordinate of release..... : 0 m
Z-coordinate (height) of release..... : 1 m
Length source in wind (x) direction..... : 0.061 m
Length source in crosswind (y) direction..... : 0.061 m
Length source in vertical (z) direction..... : 0.061 m
Ambient temperature..... : 25 °C
Meteorological data..... : Pasquill
Pasquill stability class..... : D (Neutral)
Latitude of the location..... : 51 deg
Wind speed at 10 m height..... : 5 m/s
Roughness length description..... : Cultivated land
Concentration averaging time..... : 600 s
Distance from release (Xd)..... : 450 m
Distance perpendicular to wind direction (Yd)..... : 0 m
Height (Zd)..... : 1.7 m
Predefined concentration..... : LEL (Lower Explosion Limit)
Threshold concentration..... : 33353 mg/m3
Contour plot accuracy..... : 1 %
Integration tolerance..... : 0.1 %
Predefined wind direction..... : User defined
Wind comes from (West = 180 degrees)..... : 180 deg

RESULTS

Concentration at (X,Y,Z)..... : 105.84 mg/m3
Inverse Monin-Obukhov length (1/L) used..... : 0 1/m
Mixing height used..... : 500 m

Stand. dev. of turbulent velocity in vert. direction used... : 0.7618 m/s
Stand. dev. of turbulent velocity in horiz. direction used.. : 1.1089 m/s
Maximum distance to threshold concentration..... : 8.7799 m

----- END OF SESSION 4 -----

Administrative & version data:

Main program (production date) : Effects (15 Jan 2008 10:23:00)
Run mode (complexity level) : Expert
Model name : Neutral gas release; concentration (196)
Date of this calculation : 24 May 2013 12:14:10
License owner : Marco
Calculation performed by : Marco
Software library version : 7.5.2.0836
Model driver version(s) : 5.13
Model driver last modification : 28 Mar 2007
Model executable version(s) : N/A
Session nr. : 4
References : Yellow Book (CPR-14E), 3rd edition 1997, Chapter 4
Project file name : "70942-Scenario 4.alf"
Chemical database used : "Purple Book (1999).rdb" (04 dic 2007 15:00:44)
Environment database used : "Purple Book (1999).Env" (20 set 2012 15:14:08)
System database used : "Purple Book (1999).SPF" (20 set 2012 15:12:42)
Dispersion database used : "Purple Book (1999).dpf" (30 lug 2007 12:00:00)
Map background file used : "70942-Scenario 4.gbf" (01 gen 0 00:00:00)
Project file directory : "Z:\Documenti\70000\70942 PROGER Fiume Treste NOF PmagPi\Elaborati\4"
Chemical database directory : "C:\Program Files\TNO\Effects 75\Shared data\Databases"
Environment database directory : "C:\Program Files\TNO\Effects 75\Shared data\Databases"
System database directory : "C:\Program Files\TNO\Effects 75\Shared data\Databases"
Dispersion database directory : "C:\Program Files\TNO\Effects 75\Shared data\Databases"
Map background directory : "Z:\Documenti\70000\70942 PROGER Fiume Treste NOF PmagPi\Elaborati\4"

End of administrative & version data: