

----- START OF SESSION 1(mYBNewNeutralGasDispersionExplosive) -----

INPUT

Model..... : Neutral gas release; explosive mass (197)
 Version..... : 5.13
 Reference..... : Yellow Book (CPR-14E), 3rd edition 1997, Chapter 4
 Case description..... : 70942-Sc21-ExpMass-F2
 Chemical name..... : Methane
 Type of release..... : Continuous
 Mass flow rate of the source..... : 0.54 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..... : 0.03 m
 Length of source in crosswind (y) direction..... : 0.03 m
 Length source in vertical (z) direction..... : 0.03 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
 Integration tolerance..... : 0.1 %
 Perform explosive mass vs. time graphs..... : Yes
 Resolution of the time consuming graphs..... : Low

RESULTS

Total explosive mass..... : 4.1083 kg
 Height to LEL..... : 1.86 m
 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 area of explosive cloud..... : 34.37 m2
 Length of cloud (between LEL)..... : 26.32 m
 Width of cloud (between LEL)..... : 1.7212 m
 Offset between release location and LEL..... : 0.025 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; explosive mass (197)
 Date of this calculation : 24 May 2013 13:10:50
 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 21.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 21.gbf" (01 gen 0 00:00:00)
 Project file directory : "Z:\Documenti\70000\70942 PROGER Fiume Treste NOF PmagPi\Elaborati\21"
 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\21"

End of administrative & version data:

Session 2

----- START OF SESSION 2(mYBNewNeutralGasDispersionExplosive) -----

INPUT

Model..... : Neutral gas release; explosive mass (197)
 Version..... : 5.13
 Reference..... : Yellow Book (CPR-14E), 3rd edition 1997, Chapter 4
 Case description..... : 70942-Sc21-ExpMassData-D5
 Chemical name..... : Methane
 Type of release..... : Continuous
 Mass flow rate of the source..... : 0.54 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..... : 0.03 m
Length of source in crosswind (y) direction..... : 0.03 m
Length source in vertical (z) direction..... : 0.03 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
Integration tolerance..... : 0.1 %
Perform explosive mass vs. time graphs..... : Yes
Resolution of the time consuming graphs..... : Low

RESULTS

Total explosive mass..... : 0.30497 kg
Height to LEL..... : 1.38 m
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 area of explosive cloud..... : 3.3025 m2
Length of cloud (between LEL)..... : 5.19 m
Width of cloud (between LEL)..... : 0.84217 m
Offset between release location and LEL..... : 0.025 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; explosive mass (197)
Date of this calculation : 24 May 2013 13:11:06
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 21.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 21.gbf" (01 gen 0 00:00:00)
Project file directory : "Z:\Documenti\70000\70942 PROGER Fiume Treste NOF PmagPi\Elaborati\21"
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\21"

End of administrative & version data: