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----- START OF SESSION 1(mYBNewTurbulentFreejet) -----
INPUT
Model..... : Turbulent free jet (141)
Version..... : 5.08
Reference..... : Yellow Book (CPR-14E), 3rd edition
                1997, Chapter 4 and Critical
                Turbulent Buoyant Jets, Chen & Rodi
Case description..... : 70942-Sc21-Release
Chemical name..... : Methane
Type of release..... : Release from vessel through (a hole
                    in) pipe
Pipeline length..... : 1 m
Pipeline diameter..... : 152.4 mm
Pipeline roughness..... : 0.045 mm
Hole diameter..... : 30 mm
Hole rounding..... : Rounded edges
Discharge coefficient..... : 1 -
Initial temperature in vessel..... : 25 °C
Initial (absolute) pressure in vessel..... : 151 Bar
Ambient temperature..... : 25 °C
Axial distance from release (Sd)..... : 25 m
Radial distance (Yd)..... : 0 m
Predefined concentration..... : LEL (Lower Explosion Limit)
Threshold concentration..... : 33353 mg/m3
Contour plot accuracy..... : 1 %
X-coordinate of release..... : 0 m
Y-coordinate of release..... : 0 m
Predefined wind direction..... : User defined
Wind comes from (West = 180 degrees)..... : 180 deg

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RESULTS

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Initial source strength..... : 18.15 kg/s
Initial density of the gas..... : 97.723 kg/m3
Concentration at (Sd,Yd)..... : 2.3543E06 mg/m3
Jet velocity at (Sd,Yd)..... : 14.063 m/s
Temperature at (Sd)..... : 25 °C
Limit of momentum region..... : 29.32 m
Froude number..... : 98818

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

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Administrative & version data:

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Main program (production date) : Effects (15 Jan 2008 10:23:00)
Run mode (complexity level) : Expert
Model name : Turbulent free jet (141)
Date of this calculation : 24 May 2013 13:05:09
License owner : Marco
Calculation performed by : Marco
Software library version : 7.5.2.0836
Model driver version(s) : 5.08
Model driver last modification : 29 Nov 2007
Model executable version(s) : N/A
Session nr. : 1
References : Yellow Book (CPR-14E), 3rd edition 1997, Chapter 4 and Critical
            Turbulent Buoyant Jets, Chen & Rodi
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"
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End of administrative & version data:
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