Project : 70942-Scenario 1
Session 1
---------- 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-Sc1-Release
Chemical name............................................. : Methane
Type of release........................................... : Release through hole in vessel
Hole diameter............................................. : 10 mm
Hole rounding............................................. : Rounded edges
Discharge coefficient..................................... : 1 -
Initial temperature in vessel............................. : 30 °C
Initial (absolute) pressure in vessel..................... : 86 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
```

RESULTS

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Initial source strength................................... : 1.1381 kg/s
Initial density of the gas................................ : 54.739 kg/m3
Limit of momentum region.................................. : 16.646 m
Froude number............................................. : 4.7333E05
```

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

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       : 29 May 2013  09:09:47
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 1.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 1.gbf" (01 gen    0  00:00:00)
Project file directory         : "Z:\Documenti\70000\70942 PROGER Fiume Treste NOF PmagPi\Elaborati\1"
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\1"
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End of administrative & version data: