ANNESSO TECNICO 6.

Elaborati di calcolo
Scenari incidentali ragionevolmente credibili

Ipotesi N. 27

TRR S.r.l.
Il Direttore Generale
Ing. Alfredo Romano

70977-Fase 1-Metanolo

Manichetta

Vessel/Pipe Source

Base Case

CASE Name: **Data**

Path: \70977-Fase 1-Metanolo\Manichetta\Vessel/Pipe Source

User-Defined Data

Material

Material Identifier	METHANOL	
Type of Vessel	Padded Liquid	
Pressure Specification	Pressure specified	
Storage Pressure - gauge	1	bar
Temperature	25	degC
Mass Inventory	20	kg

Scenario

Scenario Type	Catastrophic rupture	
Phase to be Released	Liquid	
Building Wake Effect	None	

Location

[Elevation	1	m]
Use ERPG averaging time	ERPG not selected	
Use IDLH averaging time	IDLH not selected	
Use STEL averaging time	STEL not selected	
Supply a user defined averaging time	Not supplied	

Bund

Status of Bund	No bund present	
[Type of Bund Surface	Concrete]	
[Bund Height	0	m]
[Bund Failure Modeling	Bund cannot fail]	

Indoor/Outdoor

Location of release	Open air release	

Flammable

Explosion Method	TNT	
Jet Fire Method	API Model	

Dispersion

Late Ignition Location	No ignition location	
Mass Inventory of material to Disperse	20	kg
Use Burst Pressure	No - Use release pressure for fireball	

Fireball Parameters

[Mass Modification Factor	3]	
[Calculation method for fireball	DNV Recommended]	
[TNO model flame temperature	1727	degC]

Toxic Parameters

[Indoor Calculations	Unselected]	
[Wind Dependent Exchange Rate	Case Specified]	
[Building Exchange Rate	4	/hr]
[Tail Time	1800	s]
[Set averaging time equal to exposure time	Use a fixed averaging time]	
[Cut-off fraction of toxic load for exposure time calculation	0.05	fraction]
[Cut-off concentration for exposure time calculations	0	fraction]

Geometry

Shape	Point	
Dimension	2D	
System	Absolute	
East(1)	0	m
North(1)	0	m

Path: \70977-Fase 1-Metanolo\Manichetta\Vessel/Pipe Source

Discharge Data

User-Defined Quantities

Material	METHANOL	
Temperature	25,00	degC
Pressure	2,01	bar
Inventory	20,00	kg
Scenario	Catastrophic rupture	
Fixed Duration	n/a	s

Calculated Quantities

Weather: Global Weathers\Category 2/F

Mass Flow of Air (Vent from Vapor Space Only)	n/a	
Average Values for Segment Number **1**		
Liquid Fraction	1,00	fraction
FinalTemperature	24,98	degC
Final Velocity	9,03	m/s
Droplet Diameter	477,64	um
Continuous Release Data:		
Mass Flowrate	n/a	kg/s
Release Duration	n/a	s
Orifice Velocity	n/a	m/s
Exit Pressure	n/a	bar
Exit Temperature	n/a	degC
Discharge Coefficient	n/a	
Expanded Radius	n/a	m

Weather: Global Weathers\Category 5/D

Mass Flow of Air (Vent from Vapor Space Only)	n/a	
Average Values for Segment Number **1**		
Liquid Fraction	1,00	fraction
FinalTemperature	24,98	degC

Final Velocity	9,03	m/s
Droplet Diameter	477,64	um
Continuous Release Data:		
Mass Flowrate	n/a	kg/s
Release Duration	n/a	s
Orifice Velocity	n/a	m/s
Exit Pressure	n/a	bar
Exit Temperature	n/a	degC
Discharge Coefficient	n/a	
Expanded Radius	n/a	m

Consequence Results

Weather Conditions

Path: \70977-Fase 1-Metanolo\Manichetta\Vessel/Pipe Source

		Category 2/F	Category 5/D
Wind Speed	m/s	2	5
Pasquill Stability		F	D
Surface Roughness Length	mm	1000	1000
Surface Roughness Parameter		0.173718	0.173718
Atmospheric Temperature	degC	25	25
Surface Temperature	degC	25	25
Relative Humidity	fraction	0.75	0.75

DETAILED DISPERSION REPORT

Study Folder: **70977-Fase 1-Metanolo**

Unique Audit Number: **184.384**

Phast 6.6

70977-Fase 1-Metanolo

Manichetta

User Defined Source-F2/D5

Base Case

Data

Weather: **Global Weathers\Category 2/F**

Speed: **2,00 m/s** **Stability:** **F**

\70977-Fase 1-Metanolo\Manichetta\User Defined Source-F2/D5

Material: METHANOL

Note: C/Line Concentration is calculated at an averaging time of: 18,75 s

Plume Width and Height are calculated at an averaging time of: 600,00 s

and a Concentration of Interest of: 6.700,00 ppm

Concentration at Height calculated at a Height of : 0,00 m

For Instantaneous releases (and if present in this report) the Mass Flowrate is the Mass of Released Material in the cloud, and the C/Line Distance is the same as the Time.

Downwind Distance m	C/Line Height m	C/Line Conc ppm	Plume Half-width m	Plume Total Depth m	Vapor Temperature degC	Liquid Fraction fraction	Time s	Liquid Temperature degC	Centroid Velocity m/s	Cloud Density kg/m3
Segment Number:	**1**		**Start Time:**	**0,00 s**						
0,00	1,00	472.563,02	0,27	0,47	46,13	0,04	0,00	46,13	0,31	1,19
0,00	1,00	472.563,02	0,27	0,47	46,13	0,04	0,00	46,13	0,31	1,19
0,01	1,00	436.126,08	0,27	0,47	44,33	0,04	0,06	44,33	0,33	1,19
0,03	1,00	375.707,40	0,28	0,48	41,07	0,04	0,12	41,07	0,35	1,19
0,07	1,00	288.788,52	0,29	0,51	35,55	0,03	0,23	35,55	0,39	1,19
0,15	0,99	186.555,73	0,32	0,56	27,10	0,01	0,42	27,10	0,44	1,20
0,31	0,97	93.909,79	0,38	0,69	25,02	0,00	0,77		0,48	1,19
0,47	0,95	61.560,65	0,51	0,75	25,02	0,00	1,10		0,50	1,18
0,63	0,93	52.964,24	0,68	0,72	25,02	0,00	1,42		0,50	1,18
0,79	0,90	50.716,90	0,68	0,72	25,02	0,00	1,74		0,51	1,18

Downwind Distance m	C/Line Height m	C/Line Conc ppm	Plume Half-width m	Plume Total Depth m	Vapor Temperature degC	Liquid Fraction fraction	Time s	Liquid Temperature degC	Centroid Velocity m/s	Cloud Density kg/m3
1,10	0,82	46.656,94	0,68	0,73	25,02	0,00	2,36		0,52	1,18
1,71	0,63	39.951,78	0,67	0,73	25,01	0,00	3,58		0,53	1,18
2,30	0,39	34.699,93	0,67	0,77	25,01	0,00	4,77		0,55	1,18
2,42	0,34	33.809,17	0,67	0,77	25,01	0,00	5,00		0,55	1,18
2,54	0,29	32.982,16	0,66	0,74	25,01	0,00	5,23		0,56	1,18
2,78	0,21	31.517,97	0,66	0,71	25,01	0,00	5,69		0,56	1,18
3,03	0,15	30.250,21	0,66	0,71	25,00	0,00	6,15		0,56	1,18
3,53	0,07	28.078,47	0,66	0,72	25,00	0,00	7,06		0,56	1,18
4,55	0,00	24.569,56	0,64	0,72	25,00	0,00	8,93		0,54	1,18
5,58	0,00	21.678,21	0,62	0,70	25,00	0,00	10,84		0,53	1,18
7,62	0,00	17.221,80	0,51	0,60	25,00	0,00	14,74		0,52	1,18
11,72	0,00	11.635,57	0,00	0,00	25,00	0,00	22,60		0,52	1,18
15,82	0,00	8.402,85	0,00	0,00	25,00	0,00	30,49		0,52	1,17
24,01	0,00	4.988,87	0,00	0,00	25,00	0,00	46,25		0,52	1,17
40,39	0,00	2.355,83	0,00	0,00	25,00	0,00	77,66		0,52	1,17
56,78	0,00	1.303,00	0,00	0,00	25,00	0,00	105,68		0,65	1,17
89,54	0,00	560,60	0,00	0,00	25,00	0,00	154,69		0,69	1,17
97,74	0,00	465,76	0,00	0,00	25,00	0,00	165,19		0,87	1,17
99,78	0,00	447,02	0,00	0,00	25,00	0,00	167,62		0,81	1,17
101,83	0,00	431,54	0,00	0,00	25,00	0,00	170,07		0,86	1,17
103,88	0,00	417,14	0,00	0,00	25,00	0,00	172,48		0,84	1,17
107,98	0,00	390,31	0,00	0,00	25,00	0,00	177,30		0,86	1,17
116,17	0,00	344,15	0,00	0,00	25,00	0,00	186,80		0,87	1,17
132,55	0,00	273,65	0,00	0,00	25,00	0,00	205,44		0,89	1,17
165,32	0,00	185,63	0,00	0,00	25,00	0,00	241,23		0,94	1,17
230,86	0,00	102,23	0,00	0,00	25,00	0,00	308,16		1,02	1,17
330,86	0,00	52,97	0,00	0,00	25,00	0,00	399,95		1,16	1,17
430,86	0,00	32,42	0,00	0,00	25,00	0,00	480,99		1,31	1,17
530,86	0,00	21,98	0,00	0,00	25,00	0,00	554,39		1,42	1,17

DETAILED DISPERSION REPORT

Study Folder: 70977-Fase 1-Metanolo

Unique Audit Number: 184.384

Phast 6.6

Weather: Global Weathers\Category 5/D

Speed: 5,00 m/s **Stability:** D

\70977-Fase 1-Metanolo\Manichetta\User Defined Source-F2/D5

Material: METHANOL

Note: C/Line Concentration is calculated at an averaging time of: 18,75 s
Plume Width and Height are calculated at an averaging time of: 600,00 s
and a Concentration of Interest of: 6.700,00 ppm
Concentration at Height calculated at a Height of : 0,00 m

For Instantaneous releases (and if present in this report) the Mass Flowrate is the Mass of Released Material in the cloud, and the C/Line Distance is the same as the Time.

Downwind Distance m	C/Line Height m	C/Line Conc ppm	Plume Half-width m	Plume Total Depth m	Vapor Temperature degC	Liquid Fraction fraction	Time s	Liquid Temperature degC	Centroid Velocity m/s	Cloud Density kg/m3
Segment Number:	**1**		**Start Time:**	**0,00 s**						
0,00	1,00	472.566,86	0,13	0,26	46,13	0,04	0,00	46,13	1,34	1,19
0,00	1,00	472.566,86	0,13	0,26	46,13	0,04	0,00	46,13	1,34	1,19
0,01	1,00	428.709,92	0,13	0,26	43,95	0,04	0,01	43,95	1,45	1,19
0,03	1,00	361.225,43	0,13	0,26	40,22	0,04	0,03	40,22	1,62	1,19
0,07	1,00	272.050,38	0,13	0,27	34,35	0,03	0,05	34,35	1,85	1,19
0,15	1,00	174.916,56	0,15	0,29	25,93	0,00	0,09	25,93	2,11	1,20
0,31	1,00	90.678,62	0,17	0,35	24,99	0,00	0,16		2,33	1,19
0,63	1,00	44.156,29	0,31	0,34	24,99	0,00	0,30		2,46	1,18
0,95	0,99	30.677,02	0,29	0,36	24,99	0,00	0,42		2,50	1,18
1,59	0,99	17.470,95	0,20	0,29	24,99	0,00	0,68		2,53	1,18
2,87	0,98	7.970,13	0,00	0,00	24,99	0,00	1,18		2,56	1,17
4,15	0,98	4.572,42	0,00	0,00	24,99	0,00	1,68		2,57	1,17
6,71	0,97	2.108,38	0,00	0,00	24,99	0,00	2,68		2,58	1,17
9,27	0,96	1.228,54	0,00	0,00	24,99	0,00	3,66		2,64	1,17
11,83	0,96	809,13	0,00	0,00	24,99	0,00	4,61		2,76	1,17
16,95	0,96	433,45	0,00	0,00	24,99	0,00	6,43		2,87	1,17

DETAILED DISPERSION REPORT

Study Folder: **70977-Fase 1-Metanolo**

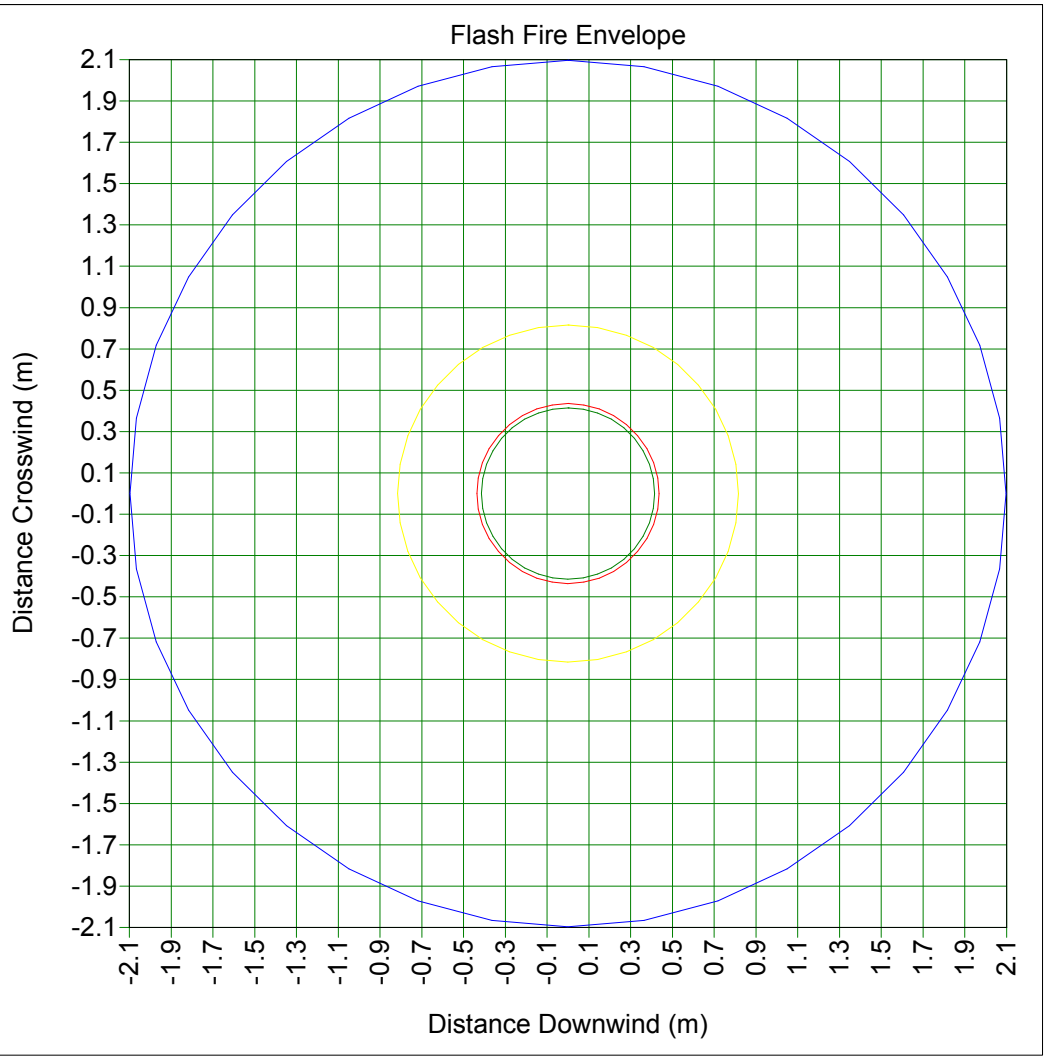
Unique Audit Number: **184.384**

Phast 6.6

Downwind Distance m	C/Line Height m	C/Line Conc ppm	Plume Half-width m	Plume Total Depth m	Vapor Temperature degC	Liquid Fraction fraction	Time s	Liquid Temperature degC	Centroid Velocity m/s	Cloud Density kg/m3
27,19	0,96	186,28	0,00	0,00	24,99	0,00	9,87		3,09	1,17
37,43	0,96	102,53	0,00	0,00	24,99	0,00	13,02		3,41	1,17
57,91	0,96	44,85	0,00	0,00	24,99	0,00	18,84		3,63	1,17
78,39	0,96	24,68	0,00	0,00	24,99	0,00	24,18		4,04	1,17
98,87	0,96	15,51	0,00	0,00	24,99	0,00	29,09		4,29	1,17
103,99	0,96	14,12	0,00	0,00	24,99	0,00	30,25		4,53	1,17
109,11	0,96	12,94	0,00	0,00	24,99	0,00	31,39		4,52	1,17
119,35	0,96	10,99	0,00	0,00	24,99	0,00	33,63		4,58	1,17
139,83	0,96	8,23	0,00	0,00	24,99	0,00	38,06		4,67	1,17
180,79	0,96	5,15	0,00	0,00	24,99	0,00	46,67		4,84	1,17
221,75	0,96	3,54	0,00	0,00	24,99	0,00	54,89		5,12	1,17
262,71	0,96	2,59	0,00	0,00	24,99	0,00	62,74		5,31	1,17
344,63	0,96	1,58	0,00	0,00	24,99	0,00	77,90		5,50	1,17
426,55	0,96	1,06	0,00	0,00	24,99	0,00	92,34		5,84	1,17
508,47	0,96	0,77	0,00	0,00	24,99	0,00	106,09		6,07	1,17

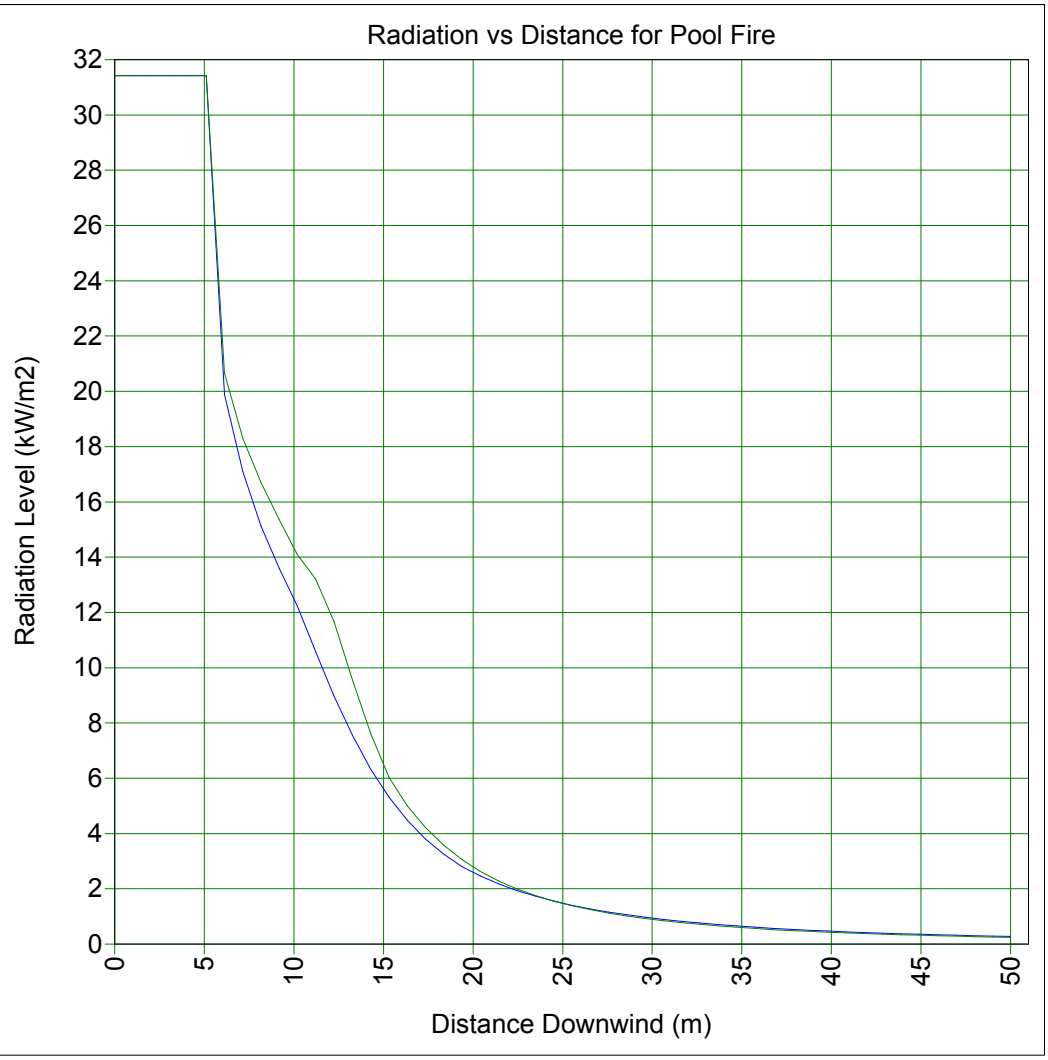
Study Folder: 70977-Fase 1-Metanolo
Audit No: 182297
Model: User Defined Source-F2/D5
Material: METHANOL
Weathers

- Category 2/F 3.65e+004
- Category 2/F 7.3e+004 p
- Category 5/D 3.65e+004
- Category 5/D 7.3e+004 p



Study Folder: 70977-Fase 1-Metanolo
Audit No: 182295
Model: Pool Fire
Material: METHANOL
Weathers

Category 2/F
Category 5/D



POOL VAPORIZATION REPORT

Unique Audit Number: 182.296

Study Folder: 70977-Fase 1-Metanolo

Phast 6.6

70977-Fase 1-Metanolo

Manichetta

Pool Vaporization

Base Case

Data

Weather: **Global Weathers\Category 2/F**

Speed: **2,00 m/s** **Stability:** **F**

\70977-Fase 1-Metanolo\Manichetta\Pool Vaporization

User-Defined Quantities

Material	METHANOL	
Type of Spill	Instantaneous	
Surface Type	Concrete	
Bund Diameter	11,00	m
Ambient Temperature	25,00	degC
Bund Surface Temperature	25,00	degC
Ambient Wind Speed	2,00	m/s
Solar Flux	1,20	kW/m2

Calculated Quantities

Status of Bund:	The Bund was not hit	
Maximum Pool Radius	1,27	m

Averages for Release Segment: 1

Number of Cloud Segments	1	
Rainout Fraction	1,00	fraction
Spill Rate	20.000,00	kg/s
Spill Duration	0,00	s
Spill Mass	20,00	kg
Spill Temperature	25,00	degC
Mass Remaining	17,27	kg

Cloud Segments for this Release Segment

Cloud Segment	Rate	Duration	Temperature	Total Mass	Radius	Mass Air Entrained
	kg/s	s	degC	kg	m	kg/s
1	0,01	300,00	19,55	2,73	1,21	0,06

POOL VAPORIZATION REPORT

Unique Audit Number: 182.296

Study Folder: 70977-Fase 1-Metanolo

Phast 6.6

Weather: Global Weathers\Category 5/D

Speed: 5,00 m/s **Stability:** D

\70977-Fase 1-Metanolo\Manichetta\Pool Vaporization

User-Defined Quantities

Material	METHANOL	
Type of Spill	Instantaneous	
Surface Type	Concrete	
Bund Diameter	11,00	m
Ambient Temperature	25,00	degC
Bund Surface Temperature	25,00	degC
Ambient Wind Speed	5,00	m/s
Solar Flux	1,20	kW/m2

Calculated Quantities

Status of Bund:	The Bund was not hit	
Maximum Pool Radius	1,27	m

Averages for Release Segment: 1

Number of Cloud Segments	1	
Rainout Fraction	1,00	fraction
Spill Rate	20.000,00	kg/s
Spill Duration	0,00	s
Spill Mass	20,00	kg
Spill Temperature	25,00	degC
Mass Remaining	16,77	kg

Cloud Segments for this Release Segment

Cloud Segment	Rate	Duration	Temperature	Total Mass	Radius	Mass Air Entrained
	kg/s	s	degC	kg	m	kg/s
1	0,01	300,00	15,94	3,23	1,20	0,09

70977-Fase 1-Metanolo

Manichetta

User Defined Source-F2/D5

Base Case

CASE Name: Data

Path: \70977-Fase 1-Metanolo\Manichetta\User Defined Source-F2/D5

User-Defined Data

Material			
	Material Identifier	METHANOL	
Scenario			
	Building Wake Effect	None	
Vessel/Tank			
	Release Type	Pool Source (Radius given)	
Location			
	[Elevation	1	m]
	Concentration of Interest	6700	ppm
	Averaging time associated with Concentration	Toxic	
	Distances for Radiation Modeling and Dispersion Scope(1)	50	m
	Distances for Radiation Modeling and Dispersion Scope(2)	250	m
	Distances for Radiation Modeling and Dispersion Scope(3)	500	m
	Use ERPG averaging time	ERPG not selected	
	Use IDLH averaging time	IDLH not selected	
	Use STEL averaging time	STEL not selected	
	Supply a user defined averaging time	Not supplied	
Bund			
	Status of Bund	No bund present	
	[Type of Bund Surface	Concrete]	
	[Bund Height	0	m]
	[Bund Failure Modeling	Bund cannot fail]	
Indoor/Outdoor			
	Location of release	Open air release	
	Outdoor Release Direction	Horizontal	
Flammable			
	Explosion Method	TNT	
	Jet Fire Method	API Model	
Dispersion			
	Number of Release Segments	1	
	Fluid Phase(1)	Vapor	
	Duration of Discharge(1)	2000	s
	Final Temperature(1)	25	degC
	Release Rate(1)	0.01	kg/s
	Pool Radii(1)	11	m
	Pre-Dilution Air Rates(1)	0.01	kg/s

Late Ignition Location	No ignition location	
Mass Inventory of material to Disperse	20	kg

Fireball Parameters

[Mass Modification Factor	3]	
[Calculation method for fireball	DNV Recommended]	
[TNO model flame temperature	1727	degC]

Toxic Parameters

[Indoor Calculations	Unselected]	
[Wind Dependent Exchange Rate	Case Specified]	
[Building Exchange Rate	4	/hr]
[Tail Time	1800	s]
[Set averaging time equal to exposure time	Use a fixed averaging time]	
[Cut-off fraction of toxic load for exposure time calculation	0.05	fraction]
[Cut-off concentration for exposure time calculations	0	fraction]

Geometry

Shape	Point	
Dimension	2D	
System	Absolute	
East(1)	0	m
North(1)	0	m

Consequence Results

Distance to Concentration Results

Path: \70977-Fase 1-Metanolo\Manichetta\User Defined Source-F2/D5

The height for user defined concentrations is the user defined height 0 m
All toxic results are reported at the toxic effect height 0 m
All flammable results are reported at the cloud centreline height

Concentration(ppm)	Averaging Time		Distance (m)	
			Category 2/F	Category 5/D
User Conc (6700)	600	s	10.427	No Hazard
UFL (360000)	18.75	s	0.0413158	0.0346489
LFL (73000)	18.75	s	0.415173	0.435695
LFL Frac (36500)	18.75	s	2.09739	0.815849

Concentration(ppm)	Averaging Time		Heights (m) for above distances	
			Category 2/F	Category 5/D
User Conc (6700)	600	s	0	0
UFL (360000)	18.75	s	0.999188	0.999974
LFL (73000)	18.75	s	0.95913	0.99811
LFL Frac (36500)	18.75	s	0.471141	0.995842

Concentration At Distance Results

Path: \70977-Fase 1-Metanolo\Manichetta\User Defined Source-F2/D5

The height for user defined concentrations is the user defined height 0 m
All toxic results are reported at the toxic effect height 0 m
All flammable results are reported at the cloud centreline height

Distance		Conc.(ppm) at Flammable Avg.Time of 18.75 s	
		Category 2/F	Category 5/D
50	m	1738.48	67.1371
250	m	92.8034	2.8871
500	m	25.2025	0.801076

Distance		Heights (m) for above concentrations	
		Category 2/F	Category 5/D
50	m	0	0.958595
250	m	0	0.956879
500	m	0	0.956517

Distance		Conc.(ppm) at Toxic Avg.Time of 600 s	
		Category 2/F	Category 5/D
50	m	869.239	32.8976
250	m	46.4017	1.44109
500	m	12.6012	0.400288

Distance		Heights (m) for above concentrations	
		Category 2/F	Category 5/D
50	m	0	0
250	m	0	0
500	m	0	0

Distance		Conc.(ppm) at Core Avg.Time of 18.75 s	
		Category 2/F	Category 5/D
50	m	1738.48	65.7952
250	m	92.8034	2.88217
500	m	25.2025	0.800575

Distance		Heights (m) for above concentrations	
		Category 2/F	Category 5/D
50	m	0	0
250	m	0	0
500	m	0	0

Distance to Equivalent Toxic Dose

Path: \70977-Fase 1-Metanolo\Manichetta\User Defined Source-F2/D5

Toxic Calculation Method = Mixture Probit

Concentration(ppm)	Reference Time		Distance (m)	
			Category 2/F	Category 5/D
User Conc (6700)	600	s	30.0375	No Hazard

Time to Equivalent Toxic Dose

Path: \70977-Fase 1-Metanolo\Manichetta\User Defined Source-F2/D5

Toxic Calculation Method = Mixture Probit

At 50 m

Concentration(ppm)	Reference Time		Time (s)	
			Category 2/F	Category 5/D
User Conc (6700)	600	s	No Hazard	No Hazard

At 250 m

Concentration(ppm)	Reference Time		Time (s)	
			Category 2/F	Category 5/D
User Conc (6700)	600	s	No Hazard	No Hazard

At 500 m

Concentration(ppm)	Reference Time		Time (s)	
			Category 2/F	Category 5/D
User Conc (6700)	600	s	No Hazard	No Hazard

Late Pool Fire Hazard

Path: \70977-Fase 1-Metanolo\Manichetta\User Defined Source-F2/D5

	Category 2/F	Category 5/D
Late Pool Fire Status	Hazard	Hazard

Radiation Effects: Late Pool Fire Ellipse

Path: \70977-Fase 1-Metanolo\Manichetta\User Defined Source-F2/D5

			Distance (m)	
			Category 2/F	Category 5/D
Radiation Level	4	kW/m2	31.9226	32.8968
Radiation Level	12.5	kW/m2	19.8206	22.512
Radiation Level	37.5	kW/m2	Not Reached	Not Reached

Radiation Effects: Late Pool Fire Distance

Path: \70977-Fase 1-Metanolo\Manichetta\User Defined Source-F2/D5

		Radiation Level (kW/m2)	
		Category 2/F	Category 5/D
Distance Of Interest 50	m	1.25595	1.22453
Distance Of Interest 250	m	0.0297453	0.0259814
Distance Of Interest 500	m	0.00635365	0.00550813

Flash Fire Envelope

Path: \70977-Fase 1-Metanolo\Manichetta\User Defined Source-F2/D5

All flammable results are reported at the cloud centreline height

				Distance (m)
			Category 2/F	Category 5/D
Furthest Extent	36500	ppm	2.09739	0.815849
Furthest Extent	73000	ppm	0.415173	0.435695

				Heights (m) for above distances
			Category 2/F	Category 5/D
Furthest Extent	36500	ppm	0.471141	0.995842
Furthest Extent	73000	ppm	0.95913	0.99811

Weather Conditions

Path: \70977-Fase 1-Metanolo\Manichetta\User Defined Source-F2/D5

		Category 2/F	Category 5/D
Wind Speed	m/s	2	5
Pasquill Stability		F	D
Surface Roughness Length	mm	1000	1000
Surface Roughness Parameter		0.173718	0.173718
Atmospheric Temperature	degC	25	25
Surface Temperature	degC	25	25
Relative Humidity	fraction	0.75	0.75