

INPUT DATA

Unique Audit Number:

157



Study Folder: TOP EVENT 10-14

PHAST v6.00



TOP EVENT 10-14



Methanol spill out

Disk rupture opening

Base Case

Data

TOP EVENT 10-14\Methanol spill out\Disk rupture opening

Material

Material Identifier	METHANOL
Type of Vessel	Pressurized Gas
Pressure Specification	Pressure specified
Discharge Pressure (gauge)	0.49 bar
Discharge Temperature	120 C
Inventory of material to discharge	8000 kg

Scenario

Type of Event	Disc rupture
Phase	Vapour
Pipe Diameter	75 mm
Number of Excess Flow Valves	0
Number of Non-Return Valves	0
Number of Shut-Off Valves	0

Location

Northern location of dispersion source	0 m
Eastern location of dispersion source	0 m
Dispersion Concentration of Interest	1 ppm
Averaging time associated with Concentration	Flammable
Status of Dike	No dike present
ERPG selection	ERPG is not set
IDLH selection	IDLH is not set
STEL selection	STEL is not set
User Defined Averaging	No user defined averaging time supplied

Indoor/Outdoor

Building Height	3 m
Building Length	9 m
Building Width	13.5 m
Type of Ventilation	Natural ventilation
Droplet state	No droplets trapped

Flammable

Method to use for explosions	TNT
Jet Fire Method	Shell

Discharge Parameters

Default volume changes	30 /day
Release height	2 m

Dispersion

Ignition Location	No ignition location
Inventory of material to Disperse	8000 kg

Bleve Parameters

BLEVE radiation level 1	3 kW/m2
BLEVE radiation level 2	5 kW/m2
BLEVE radiation level 3	7 kW/m2

INPUT DATA

Unique Audit Number:

157



Study Folder: TOP EVENT 10-14

PHAST v6.00

Jet Fire Parameters

Jet fire radiation level 1	3 kW/m2
Jet fire radiation level 2	5 kW/m2
Jet fire radiation level 3	7 kW/m2

Pool Fire Parameters

Pool fire radiation level 1	3 kW/m2
Pool fire radiation level 2	5 kW/m2
Pool fire radiation level 3	7 kW/m2

Multi Energy Explosion

Use Unconfined Volumes	No
Use Fractions	No
Use 1st Confined Source	No
Use 2nd Confined Source	No
Use 3rd Confined Source	No
Use 4th Confined Source	No
Use 5th Confined Source	No
Use 6th Confined Source	No
Use 7th Confined Source	No

TNT Explosion Parameters

Air or Ground burst	Ground burst
---------------------	--------------