RDSPoggiofiorito

Study

4" D10

Base Case

Data

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Material

Material Identifier	METHANE	
Type of Vessel	Pressurized Gas	
Pressure Specification	Pressure specified	
Discharge Pressure (gauge)	90	bar
Discharge Temperature	25	degC
Mass Inventory of material to discharge	2000	kg

Scenario

Type of Event	Leak	
Phase	Vapor	
HoleDiameter	10	mm
Building Wake Option	None	

Location

[Elevation	1	m]
Dispersion Concentration of Interest	1E4	ppm
Averaging time associated with Concentration	Flammable	
Distances of Interest(1)	1	m
Distances of Interest(2)	5	m
Distances of Interest(3)	10	m
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	

Bund

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

Indoor/Outdoor

Outdoor Release Direction	Horizontal	

Flammable

Method to use for explosions	TNT	
Jet Fire Method	Shell	

Dispersion

Ignition Location	No ignition location	
Mass Inventory of material to Disperse	2000	kg

Fireball Parameters

[Mass Modification Factor	3]	
[Calculation method for fireball	DNV Recommended]	
[Temperature of fireball	1727	degC]

Jet Fire Parameters

Jet fire radiation intensity level 1	3	kW/m2

Jet Fire Parameters

Jet fire radiation intensity level 2	5	kW/m2
Jet fire radiation intensity level 3	12,5	kW/m2

[Note: Data in square brackets are defaulted values]