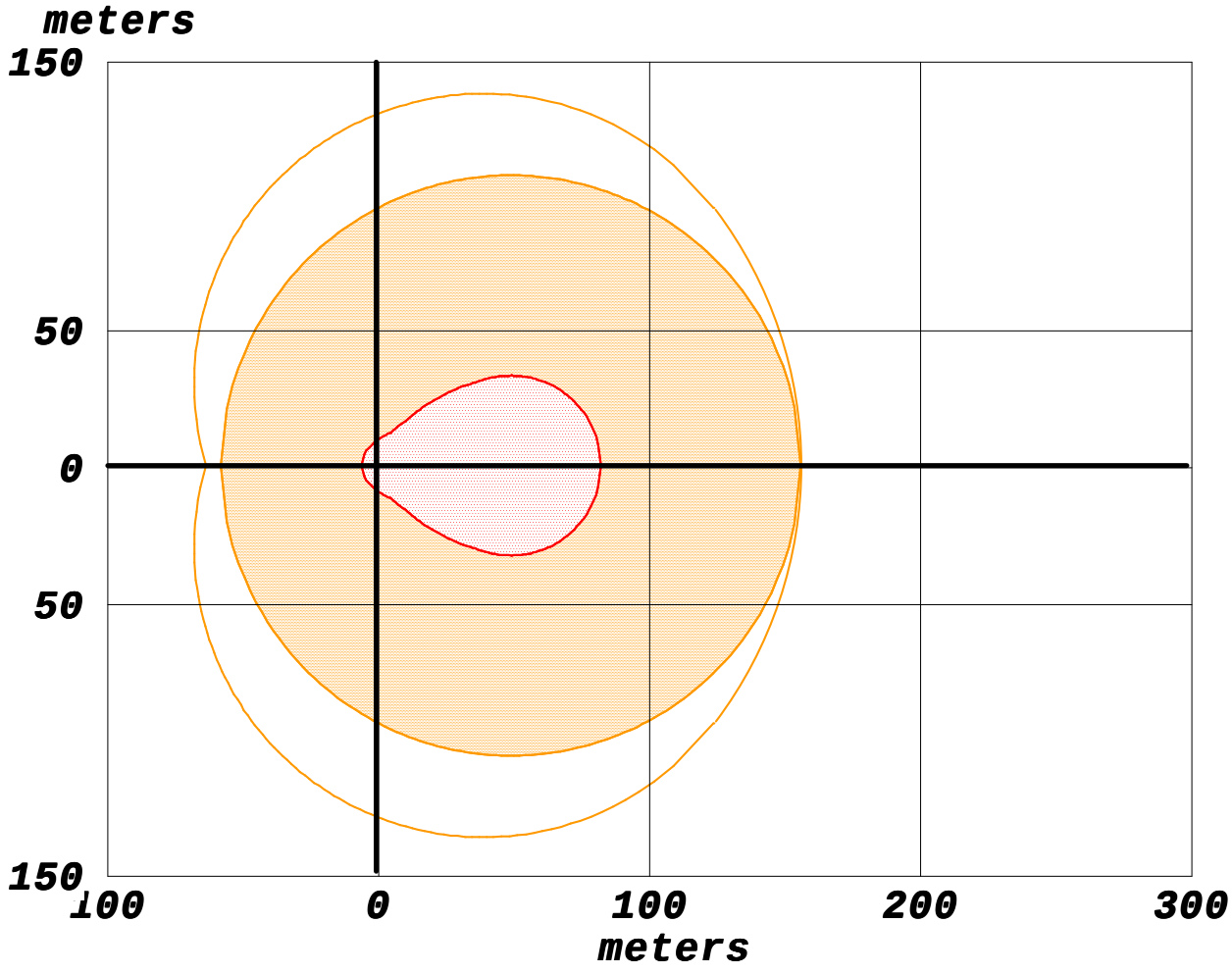
Time: April 3, 2012 1058 hours ST (user specified)

Chemical Name: METHANE

Wind: 2.8 meters/second from 315° true at 10 meters

THREAT ZONE:
Threat Modeled: Overpressure (blast force) from vapor cloud explosion
Type of Ignition: ignited by spark or flame
Level of Congestion: congested
Model Run: Heavy Gas
Red : 83 meters --- (2.03 psi)
Orange: 156 meters --- (0.7 psi)



greater than 2.03 psi
greater than 0.7 psi
Confidence Lines

SITE DATA:
Location: MORA, PORTUGAL
Building Air Exchanges Per Hour: 0.30 (unsheltered double storied)
Time: April 3, 2012 1058 hours ST (user specified)

CHEMICAL DATA:
Chemical Name: METHANE Molecular Weight: 16.04 g/mol
PAC-1: 2900 ppm PAC-2: 2900 ppm PAC-3: 17000 ppm
LEL: 50000 ppm UEL: 150000 ppm
Ambient Boiling Point: -161.6° C
Vapor Pressure at Ambient Temperature: greater than 1 atm
Ambient Saturation Concentration: 1,000,000 ppm or 100.0%

ATMOSPHERIC DATA: (MANUAL INPUT OF DATA)
Wind: 2.8 meters/second from 315° true at 10 meters
Ground Roughness: open country Cloud Cover: 5 tenths
Air Temperature: 22° C Stability Class: B
No Inversion Height Relative Humidity: 25%

SOURCE STRENGTH:
Evaporating Puddle (Note: chemical is flammable)
Puddle Area: 428 square meters Puddle Mass: 50.4 tons
Ground Type: Concrete Ground Temperature: 22° C
Initial Puddle Temperature: -161.6° C
Release Duration: 48 minutes
Max Average Sustained Release Rate: 5,100 kilograms/min
(averaged over a minute or more)
Total Amount Released: 45,722 kilograms

THREAT ZONE:
Threat Modeled: Overpressure (blast force) from vapor cloud explosion
Type of Ignition: ignited by spark or flame
Level of Congestion: congested
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