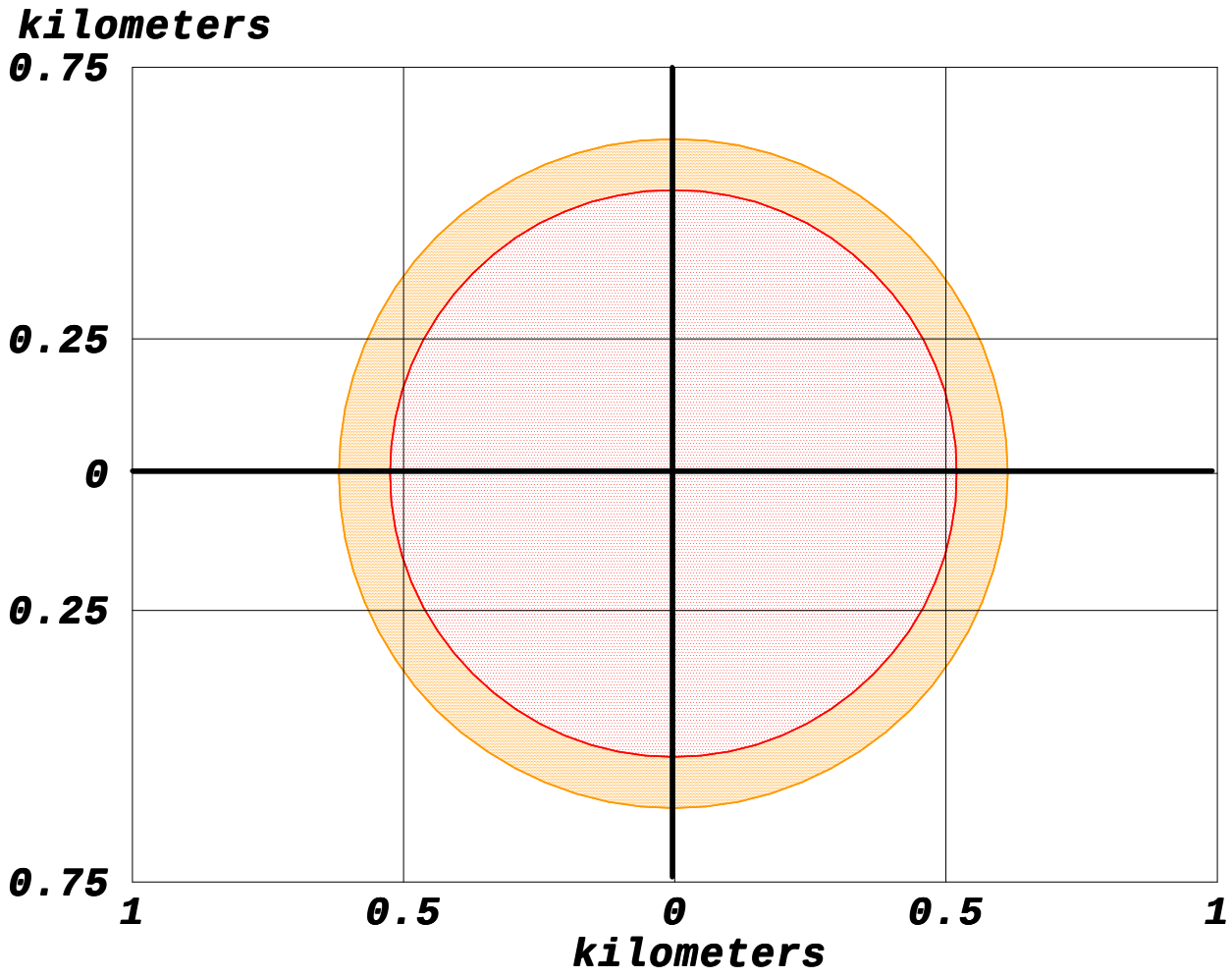
Time: April 3, 2012 1058 hours ST (user specified)

Chemical Name: METHANE

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

THREAT ZONE:
Threat Modeled: Thermal radiation from fireball
Red : 523 meters --- (7 kW/(sq m))
Orange: 617 meters --- (5.0 kW/(sq m) = 2nd degree burns within 60 sec)



greater than 7 kW/(sq m)
greater than 5.0 kW/(sq m) (2nd degree burns within 60 se

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:
BLEVE of flammable liquid in horizontal cylindrical tank
Tank Diameter: 3.1 meters Tank Length: 15.9 meters
Tank Volume: 120 cubic meters
Tank contains liquid
Internal Storage Temperature: -160° C
Chemical Mass in Tank: 50,435 kilograms
Tank is 100% full
Internal Pressure at Failure: 5 atmospheres
Percentage of Tank Mass in Fireball: 59.3%
Fireball Diameter: 180 meters Burn Duration: 12 seconds
Pool Fire Diameter: 111 meters Burn Duration: 22 seconds
Flame Length: 111 meters

THREAT ZONE:
Threat Modeled: Thermal radiation from fireball
Red : 523 meters --- (7 kW/(sq m))
Orange: 617 meters --- (5.0 kW/(sq m) = 2nd degree burns within 60 sec)