

Flammable Threat Zone

ALOHA® 5.4.3



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

Chemical Name: METHANE

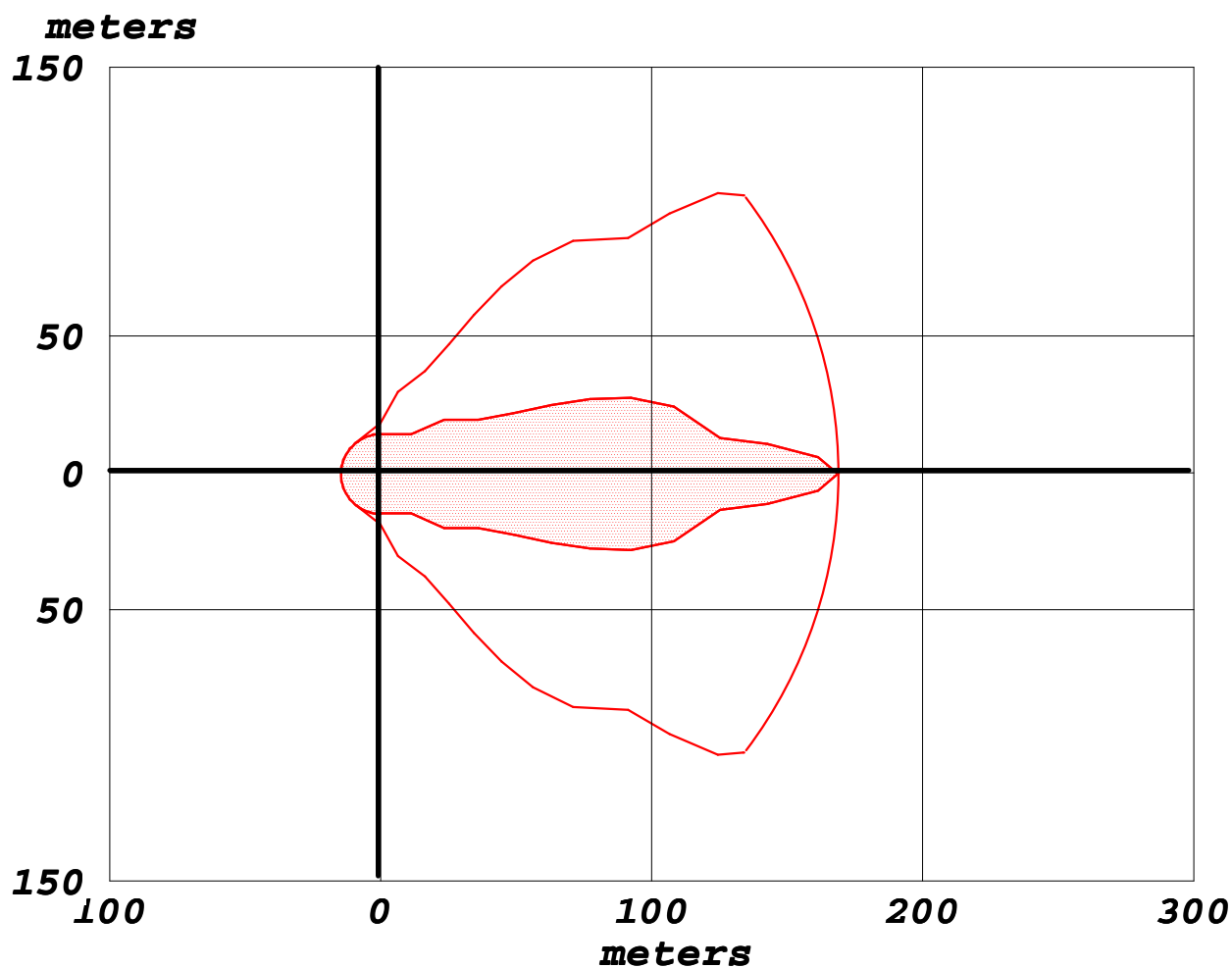
Wind: 2.8 meters/second from 315° true at 10 meters


THREAT ZONE:


Threat Modeled: Flammable Area of Vapor Cloud

Model Run: Heavy Gas

Red : 169 meters --- (25000 ppm)



 **greater than 25000 ppm**

 **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 Volume: 340 cubic meters

Ground Type: Concrete

Ground Temperature: 22° C

Initial Puddle Temperature: -161.6° C

Release Duration: ALOHA limited the duration to 1 hour

Max Average Sustained Release Rate: 5,080 kilograms/min

(averaged over a minute or more)

Total Amount Released: 53,695 kilograms

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