Scenariul 6. Avarierea unei conducte de metanol care alimenteaza instalatia de fabricare formaldehida de 60.000 to/an.

a. Conditii de raspandire defavorabile

Simulare ALOHA

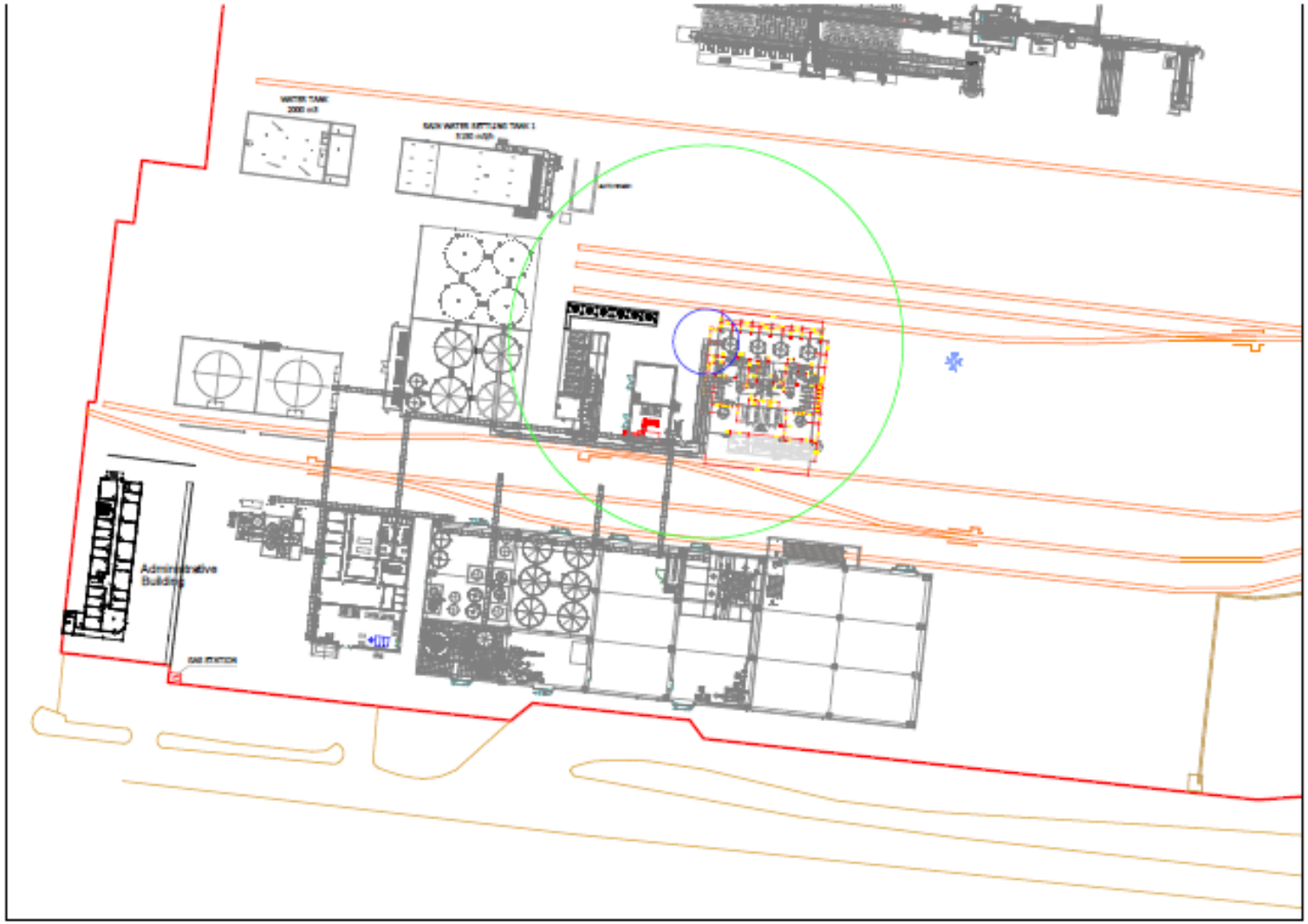
CHEMICAL DATA:
Chemical Name: METHANOL
CAS Number: 67-56-1 Molecular Weight: 32.04 g/mol
AEGL-1 (60 min): 530 ppm AEGL-2 (60 min): 2100 ppm AEGL-3 (60 min): 7200 ppm
IDLH: 6000 ppm LEL: 71800 ppm UEL: 365000 ppm
Ambient Boiling Point: 63.7° C
Vapor Pressure at Ambient Temperature: 0.13 atm
Ambient Saturation Concentration: 130,928 ppm or 13.1%

ATMOSPHERIC DATA: (MANUAL INPUT OF DATA)
Wind: 1 meters/second from N at 3 meters
Ground Roughness: urban or forest Cloud Cover: 10 tenths
Air Temperature: 20° C Stability Class: D (user override)
No Inversion Height Relative Humidity: 80%

SOURCE STRENGTH:
Evaporating Puddle (Note: chemical is flammable)
Puddle Area: 61 square meters Puddle Mass: 243 kilograms
Ground Type: Concrete Ground Temperature: 20° C
Initial Puddle Temperature: Ground temperature
Release Duration: ALOHA limited the duration to 1 hour
Max Average Sustained Release Rate: 1.49 kilograms/min (averaged over a minute or more)
Total Amount Released: 77.1 kilograms

THREAT ZONE: (GAUSSIAN SELECTED)[1)]
Model Run: Gaussian[1)]
Red : less than 10 meters(10.9 yards) --- (128000 ppm)
Note: Threat zone was not drawn because effects of near-field patchiness make dispersion predictions less reliable for short distances.
Orange: less than 10 meters(10.9 yards) --- (6000 ppm = IDLH)

Note: Threat zone was not drawn because effects of near-field patchiness make dispersion predictions less reliable for short distances.
Yellow: 60 meters --- (200 ppm = ERPG-1)



Zona cu leziuni ireversebile

Zona cu leziuni reversibile(zona de atentie)

b. Conditii de raspandire medii

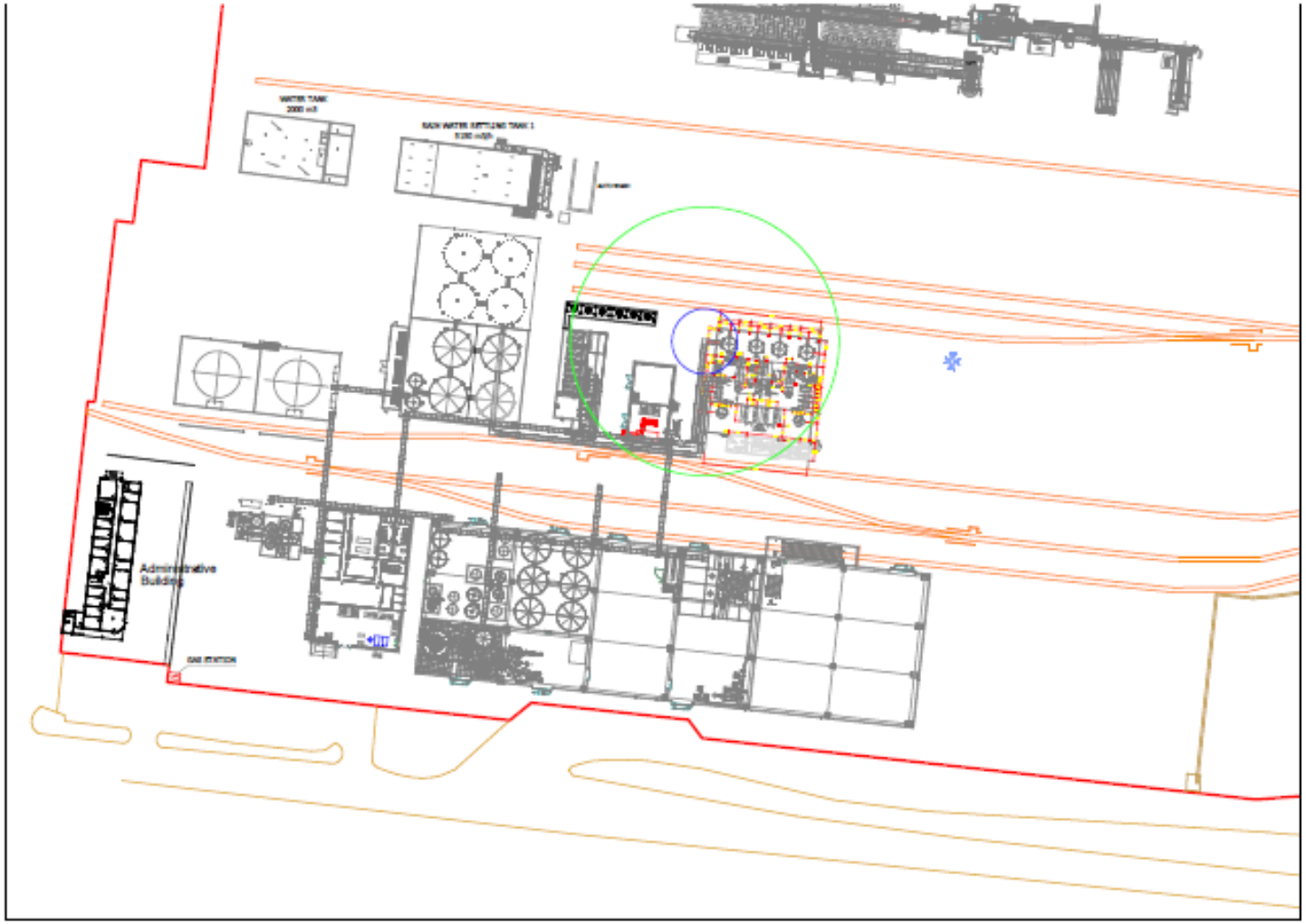
Simulare ALOHA

CHEMICAL DATA:
Chemical Name: METHANOL
CAS Number: 67-56-1 Molecular Weight: 32.04 g/mol
AEGL-1 (60 min): 530 ppm AEGL-2 (60 min): 2100 ppm AEGL-3 (60 min): 7200 ppm
IDLH: 6000 ppm LEL: 71800 ppm UEL: 365000 ppm
Ambient Boiling Point: 63.7° C
Vapor Pressure at Ambient Temperature: 0.13 atm
Ambient Saturation Concentration: 130,928 ppm or 13.1%

ATMOSPHERIC DATA: (MANUAL INPUT OF DATA)
Wind: 3 meters/second from N at 3 meters
Ground Roughness: urban or forest Cloud Cover: 10 tenths
Air Temperature: 20° C Stability Class: D
No Inversion Height Relative Humidity: 80%

SOURCE STRENGTH:
Evaporating Puddle (Note: chemical is flammable)
Puddle Area: 61 square meters Puddle Mass: 243 kilograms
Ground Type: Concrete Ground Temperature: 20° C
Initial Puddle Temperature: Ground temperature
Release Duration: ALOHA limited the duration to 1 hour
Max Average Sustained Release Rate: 3.04 kilograms/min averaged over a minute or more)
Total Amount Released: 147 kilograms

THREAT ZONE: (GAUSSIAN SELECTED)[1)]
Model Run: Gaussian
Red : less than 10 meters(10.9 yards) --- (128000 ppm)
Note: Threat zone was not drawn because effects of near-field patchiness make dispersion predictions less reliable for short distances.
Orange: less than 10 meters(10.9 yards) --- (6000 ppm = IDLH)
Note: Threat zone was not drawn because effects of near-field patchiness make dispersion predictions less reliable for short distances.
Yellow: 41 meters --- (200 ppm = ERPG-1)
Note: Threat zone was not drawn because effects of near-field patchiness make dispersion predictions less reliable for short distances.



Zona cu leziuni ireversebile

Zona cu leziuni reversibile(zona de atentie)