Modélisation de la dispersion atmosphérique des toxiques en cas d'incendie d'une cellule de stockage de produits combustibles de 5 000 m², de grande hauteur

Incendie d’une cellule de stockage
Dispersion des suies
Condition A, vent 2 m/s

SITE DATA:
Location: HEUDEBOUVILLE, FRANCE
Building Air Exchanges Per Hour: 0.40 (unsheltered single storied)
Time: March 8, 2019 1342 hours DST (using computer's clock)

ATMOSPHERIC DATA: (MANUAL INPUT OF DATA)
Wind: 2 meters/second from SW at 3 meters
Ground Roughness: urban or forest Cloud Cover: 5 tenths
Air Temperature: 20° C
Stability Class: A (user override)
No Inversion Height Relative Humidity: 75%

SOURCE STRENGTH:
Direct Source: 9.26 kilograms/sec **Source Height: 167 meters**
Release Duration: 60 minutes
Release Rate: 558 kilograms/min
Total Amount Released: 33,480 kilograms
Note: This chemical may flash boil and/or result in two phase flow.
Use both dispersion modules to investigate its potential behavior.

THREAT ZONE: (GAUSSIAN SELECTED)
Model Run: Gaussian
Red : **LOC is not exceeded** --- (79 mg/(cu m))
Note: Threat zone was not drawn because
the ground level concentrations never exceed the LOC.

Incendie d’une cellule de stockage

Dispersion des suies

Condition F, vent 3 m/s

SITE DATA:
Location: HEUDEBOUVILLE, FRANCE
Building Air Exchanges Per Hour: 0.98 (unsheltered single storied)
Time: March 8, 2019 1346 hours DST (using computer's clock)

ATMOSPHERIC DATA: (MANUAL INPUT OF DATA)
Wind: 3 meters/second from SW at 3 meters
Ground Roughness: urban or forest Cloud Cover: 5 tenths
Air Temperature: 15° C **Stability Class: D**
No Inversion Height Relative Humidity: 75%

SOURCE STRENGTH:
Direct Source: 9.26 kilograms/sec **Source Height: 112 meters**
Release Duration: 60 minutes
Release Rate: 558 kilograms/min
Total Amount Released: 33,480 kilograms
Note: This chemical may flash boil and/or result in two phase flow.
Use both dispersion modules to investigate its potential behavior.

THREAT ZONE: (GAUSSIAN SELECTED)
Model Run: Gaussian
Red : **LOC is not exceeded** --- (79 mg/(cu m))
Note: Threat zone was not drawn because
the ground level concentrations never exceed the LOC.

Incendie d’une cellule de stockage

Dispersion des suies

Condition D, vent 5 m/s

SITE DATA:
Location: HEUDEBOUVILLE, FRANCE
Building Air Exchanges Per Hour: 0.98 (unsheltered single storied)
Time: March 8, 2019 1357 hours DST (using computer's clock)

ATMOSPHERIC DATA: (MANUAL INPUT OF DATA)
Wind: 5 meters/second from SW at 3 meters
Ground Roughness: urban or forest Cloud Cover: 5 tenths
Air Temperature: 20° C **Stability Class: D**
No Inversion Height Relative Humidity: 75%

SOURCE STRENGTH:
Direct Source: 9.26 kilograms/sec **Source Height: 67 meters**
Release Duration: 60 minutes
Release Rate: 558 kilograms/min
Total Amount Released: 33,480 kilograms
Note: This chemical may flash boil and/or result in two phase flow.
Use both dispersion modules to investigate its potential behavior.

THREAT ZONE: (GAUSSIAN SELECTED)
Model Run: Gaussian
Red : **LOC is not exceeded** --- (79 mg/(cu m))
Note: Threat zone was not drawn because
the ground level concentrations never exceed the LOC.

Incendie d'une cellule de stockage

Dispersion du Monoxyde de carbone

Condition A, vent 2 m/s

SITE DATA:
Location: HEUDEBOUVILLE, FRANCE
Building Air Exchanges Per Hour: 0.40 (unsheltered single storied)
Time: March 8, 2019 1400 hours DST (using computer's clock)

CHEMICAL DATA:
Chemical Name: CARBON MONOXIDE
CAS Number: 630-8-0 Molecular Weight: 28.01 g/mol
AEGL-1 (60 min): N/A AEGL-2 (60 min): 83 ppm AEGL-3 (60 min): 330 ppm
IDLH: 1200 ppm LEL: 125000 ppm UEL: 742000 ppm
Ambient Boiling Point: -191.5° 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 meters/second from SW at 3 meters
Ground Roughness: urban or forest Cloud Cover: 5 tenths
Air Temperature: 20° C
Stability Class: A (user override)
No Inversion Height Relative Humidity: 75%

SOURCE STRENGTH:
Direct Source: 29.1 kilograms/sec **Source Height: 167 meters**
Release Duration: 60 minutes
Release Rate: 1,750 kilograms/min
Total Amount Released: 104,760 kilograms
Note: This chemical may flash boil and/or result in two phase flow.
Use both dispersion modules to investigate its potential behavior.

THREAT ZONE: (GAUSSIAN SELECTED)
Model Run: Gaussian
Red : **LOC is not exceeded** --- (3680 mg/(cu m))
Note: Threat zone was not drawn because
the ground level concentrations never exceed the LOC.
Orange**: LOC is not exceeded** --- (920 mg/(cu m))
Note: Threat zone was not drawn because
the ground level concentrations never exceed the LOC.

Incendie d'une cellule de stockage
Dispersion du Monoxyde de carbone
Condition F, vent 3 m/s

SITE DATA:
Location: HEUDEBOUVILLE, FRANCE
Building Air Exchanges Per Hour: 0.62 (unsheltered single storied)
Time: March 8, 2019 1402 hours DST (using computer's clock)

CHEMICAL DATA:
Chemical Name: CARBON MONOXIDE
CAS Number: 630-8-0 Molecular Weight: 28.01 g/mol
AEGL-1 (60 min): N/A AEGL-2 (60 min): 83 ppm AEGL-3 (60 min): 330 ppm
IDLH: 1200 ppm LEL: 125000 ppm UEL: 742000 ppm
Ambient Boiling Point: -191.5° 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: 3 meters/second from SW at 3 meters
Ground Roughness: urban or forest Cloud Cover: 5 tenths
Air Temperature: 15° C
Stability Class: F (user override)
No Inversion Height Relative Humidity: 75%

SOURCE STRENGTH:
Direct Source: 29.1 kilograms/sec **Source Height: 112 meters**
Release Duration: 60 minutes
Release Rate: 1,750 kilograms/min
Total Amount Released: 104,760 kilograms
Note: This chemical may flash boil and/or result in two phase flow.
Use both dispersion modules to investigate its potential behavior.

THREAT ZONE: (GAUSSIAN SELECTED)
Model Run: Gaussian
Red **: LOC is not exceeded** --- (3680 mg/(cu m))
Note: Threat zone was not drawn because
the ground level concentrations never exceed the LOC.
Orange**: LOC is not exceeded** --- (920 mg/(cu m))
Note: Threat zone was not drawn because
the ground level concentrations never exceed the LOC.

Incendie d'une cellule de stockage

Dispersion du Monoxyde de carbone

Condition D, vent 5 m/s

SITE DATA:
Location: HEUDEBOUVILLE, FRANCE
Building Air Exchanges Per Hour: 0.98 (unsheltered single storied)
Time: March 8, 2019 1403 hours DST (using computer's clock)

CHEMICAL DATA:
Chemical Name: CARBON MONOXIDE
CAS Number: 630-8-0 Molecular Weight: 28.01 g/mol
AEGL-1 (60 min): N/A AEGL-2 (60 min): 83 ppm AEGL-3 (60 min): 330 ppm
IDLH: 1200 ppm LEL: 125000 ppm UEL: 742000 ppm
Ambient Boiling Point: -191.5° 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: 5 meters/second from SW at 3 meters
Ground Roughness: urban or forest Cloud Cover: 5 tenths
Air Temperature: 20° C **Stability Class: D**
No Inversion Height Relative Humidity: 75%

SOURCE STRENGTH:
Direct Source: 29.1 kilograms/sec **Source Height: 67 meters**
Release Duration: 60 minutes
Release Rate: 1,750 kilograms/min
Total Amount Released: 104,760 kilograms
Note: This chemical may flash boil and/or result in two phase flow.
Use both dispersion modules to investigate its potential behavior.

THREAT ZONE: (GAUSSIAN SELECTED)
Model Run: Gaussian
Red : **LOC is not exceeded** --- (3680 mg/(cu m))
Note: Threat zone was not drawn because
the ground level concentrations never exceed the LOC.
Orange**: LOC is not exceeded** --- (920 mg/(cu m))
Note: Threat zone was not drawn because
the ground level concentrations never exceed the LOC.

Incendie d'une cellule de stockage
Dispersion du Dioxyde de carbone
Condition A, vent 2 m/s

SITE DATA:
Location: HEUDEBOUVILLE, FRANCE
Building Air Exchanges Per Hour: 0.40 (unsheltered single storied)
Time: March 8, 2019 1407 hours DST (using computer's clock)

CHEMICAL DATA:
Chemical Name: CARBON DIOXIDE
CAS Number: 124-38-9 Molecular Weight: 44.01 g/mol
IDLH: 40000 ppm
Normal Boiling Point: -unavail-
Vapor Pressure at Ambient Temperature: greater than 1 atm
Ambient Saturation Concentration: 1,000,000 ppm or 100.0%
Note: Not enough chemical data to use Heavy Gas option

ATMOSPHERIC DATA: (MANUAL INPUT OF DATA)
Wind: 2 meters/second from SW at 3 meters
Ground Roughness: urban or forest Cloud Cover: 5 tenths
Air Temperature: 20° C
Stability Class: A (user override)
No Inversion Height Relative Humidity: 75%

SOURCE STRENGTH:
Direct Source: 290.58 kilograms/sec **Source Height: 167 meters**
Release Duration: 60 minutes
Release Rate: 17,400 kilograms/min
Total Amount Released: 1,046,160 kilograms

THREAT ZONE: (GAUSSIAN SELECTED)
Model Run: Gaussian
Red **: LOC is not exceeded** --- (89980 mg/(cu m))
Note: Threat zone was not drawn because
the ground level concentrations never exceed the LOC.

Incendie d'une cellule de stockage
Dispersion du Dioxyde de carbone
Condition F, vent 3 m/s

SITE DATA:
Location: HEUDEBOUVILLE, FRANCE
Building Air Exchanges Per Hour: 0.62 (unsheltered single storied)
Time: March 8, 2019 1408 hours DST (using computer's clock)

CHEMICAL DATA:
Chemical Name: CARBON DIOXIDE
CAS Number: 124-38-9 Molecular Weight: 44.01 g/mol
IDLH: 40000 ppm
Normal Boiling Point: -unavail-
Vapor Pressure at Ambient Temperature: greater than 1 atm
Ambient Saturation Concentration: 1,000,000 ppm or 100.0%
Note: Not enough chemical data to use Heavy Gas option

ATMOSPHERIC DATA: (MANUAL INPUT OF DATA)
Wind: 3 meters/second from SW at 3 meters
Ground Roughness: urban or forest Cloud Cover: 5 tenths
Air Temperature: 15° C
Stability Class: F (user override)
No Inversion Height Relative Humidity: 75%

SOURCE STRENGTH:
Direct Source: 290.58 kilograms/sec **Source Height: 112 meters**
Release Duration: 60 minutes
Release Rate: 17,400 kilograms/min
Total Amount Released: 1,046,160 kilograms

THREAT ZONE: (GAUSSIAN SELECTED)
Model Run: Gaussian
Red : **LOC is not exceeded** --- (89980 mg/(cu m))
Note: Threat zone was not drawn because
the ground level concentrations never exceed the LOC.

Incendie d'une cellule de stockage
Dispersion du Dioxyde de carbone
Condition D, vent 5 m/s

SITE DATA:
Location: HEUDEBOUVILLE, FRANCE
Building Air Exchanges Per Hour: 0.98 (unsheltered single storied)
Time: March 8, 2019 1409 hours DST (using computer's clock)

CHEMICAL DATA:
Chemical Name: CARBON DIOXIDE
CAS Number: 124-38-9 Molecular Weight: 44.01 g/mol
IDLH: 40000 ppm
Normal Boiling Point: -unavail-
Vapor Pressure at Ambient Temperature: greater than 1 atm
Ambient Saturation Concentration: 1,000,000 ppm or 100.0%
Note: Not enough chemical data to use Heavy Gas option

ATMOSPHERIC DATA: (MANUAL INPUT OF DATA)
Wind: 5 meters/second from SW at 3 meters
Ground Roughness: urban or forest Cloud Cover: 5 tenths
Air Temperature: 20° C **Stability Class: D**
No Inversion Height Relative Humidity: 75%

SOURCE STRENGTH:
Direct Source: 290.58 kilograms/sec **Source Height: 67 meters**
Release Duration: 60 minutes
Release Rate: 17,400 kilograms/min
Total Amount Released: 1,046,160 kilograms

THREAT ZONE: (GAUSSIAN SELECTED)
Model Run: Gaussian
Red : **LOC is not exceeded** --- (89980 mg/(cu m))
Note: Threat zone was not drawn because
the ground level concentrations never exceed the LOC.

Incendie d'une cellule de stockage
Dispersion du HCl
Condition A, vent 2 m/s

SITE DATA:
Location: HEUDEBOUVILLE, FRANCE
Building Air Exchanges Per Hour: 0.40 (unsheltered single storied)
Time: March 8, 2019 1410 hours DST (using computer's clock)

CHEMICAL DATA:
Warning: HYDROGEN CHLORIDE can react with water and/or water vapor. This can affect the evaporation rate and downwind dispersion. ALOHA cannot accurately predict the air hazard if this substance comes in contact with water.
Chemical Name: HYDROGEN CHLORIDE
CAS Number: 7647-1-0 Molecular Weight: 36.46 g/mol
AEGL-1 (60 min): 1.8 ppm AEGL-2 (60 min): 22 ppm AEGL-3 (60 min): 100 ppm
IDLH: 50 ppm
Ambient Boiling Point: -85.0° 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 meters/second from SW at 3 meters
Ground Roughness: urban or forest Cloud Cover: 5 tenths
Air Temperature: 20° C
Stability Class: A (user override)
No Inversion Height Relative Humidity: 75%

SOURCE STRENGTH:
Direct Source: 10.95 kilograms/sec **Source Height: 167 meters**
Release Duration: 60 minutes
Release Rate: 660 kilograms/min
Total Amount Released: 39,600 kilograms
Note: This chemical may flash boil and/or result in two phase flow.

THREAT ZONE: (GAUSSIAN SELECTED)
Model Run: Gaussian
Red **: LOC is not exceeded** --- (358 mg/(cu m))
Note: Threat zone was not drawn because the ground level concentrations never exceed the LOC.
Orange: **LOC is not exceeded** --- (60 mg/(cu m))
Note: Threat zone was not drawn because the ground level concentrations never exceed the LOC.

Incendie d'une cellule de stockage
Dispersion du HCl
Condition F, vent 3 m/s

SITE DATA:
Location: HEUDEBOUVILLE, FRANCE
Building Air Exchanges Per Hour: 0.62 (unsheltered single storied)
Time: March 8, 2019 1411 hours DST (using computer's clock)

CHEMICAL DATA:
Warning: HYDROGEN CHLORIDE can react with water and/or water vapor. This can affect the evaporation rate and downwind dispersion. ALOHA cannot accurately predict the air hazard if this substance comes in contact with water.
Chemical Name: HYDROGEN CHLORIDE
CAS Number: 7647-1-0 Molecular Weight: 36.46 g/mol
AEGL-1 (60 min): 1.8 ppm AEGL-2 (60 min): 22 ppm AEGL-3 (60 min): 100 ppm
IDLH: 50 ppm
Ambient Boiling Point: -85.0° 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: 3 meters/second from SW at 3 meters
Ground Roughness: urban or forest Cloud Cover: 5 tenths
Air Temperature: 15° C
Stability Class: F (user override)
No Inversion Height Relative Humidity: 75%

SOURCE STRENGTH:
Direct Source: 10.95 kilograms/sec **Source Height: 112 meters**
Release Duration: 60 minutes
Release Rate: 660 kilograms/min
Total Amount Released: 39,600 kilograms
Note: This chemical may flash boil and/or result in two phase flow.

THREAT ZONE: (GAUSSIAN SELECTED)
Model Run: Gaussian
Red : **LOC is not exceeded** --- (358 mg/(cu m))
Note: Threat zone was not drawn because
the ground level concentrations never exceed the LOC.
Orange: **LOC is not exceeded** --- (60 mg/(cu m))
Note: Threat zone was not drawn because
the ground level concentrations never exceed the LOC.

Incendie d'une cellule de stockage
Dispersion du HCl
Condition D, vent 5 m/s

SITE DATA:
Location: HEUDEBOUVILLE, FRANCE
Building Air Exchanges Per Hour: 0.98 (unsheltered single storied)
Time: March 8, 2019 1412 hours DST (using computer's clock)

CHEMICAL DATA:
Warning: HYDROGEN CHLORIDE can react with water and/or water vapor. This can affect the evaporation rate and downwind dispersion. ALOHA cannot accurately predict the air hazard if this substance comes in contact with water.
Chemical Name: HYDROGEN CHLORIDE
CAS Number: 7647-1-0 Molecular Weight: 36.46 g/mol
AEGL-1 (60 min): 1.8 ppm AEGL-2 (60 min): 22 ppm AEGL-3 (60 min): 100 ppm
IDLH: 50 ppm
Ambient Boiling Point: -85.0° 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: 5 meters/second from SW at 3 meters
Ground Roughness: urban or forest Cloud Cover: 5 tenths
Air Temperature: 20° C **Stability Class: D**
No Inversion Height Relative Humidity: 75%

SOURCE STRENGTH:
Direct Source: 10.95 kilograms/sec **Source Height: 67 meters**
Release Duration: 60 minutes
Release Rate: 660 kilograms/min
Total Amount Released: 39,600 kilograms
Note: This chemical may flash boil and/or result in two phase flow.

THREAT ZONE: (GAUSSIAN SELECTED)
Model Run: Gaussian
Red : **LOC is not exceeded** --- (358 mg/(cu m))
Note: Threat zone was not drawn because
the ground level concentrations never exceed the LOC.
Orange: **LOC is not exceeded** --- (60 mg/(cu m))

Incendie d'une cellule de stockage

Dispersion du HCN

Condition A, vent 2 m/s

SITE DATA:
Location: HEUDEBOUVILLE, FRANCE
Building Air Exchanges Per Hour: 0.40 (unsheltered single storied)
Time: March 8, 2019 1413 hours DST (using computer's clock)

CHEMICAL DATA:
Chemical Name: HYDROGEN CYANIDE
CAS Number: 74-90-8 Molecular Weight: 27.03 g/mol
AEGL-1 (60 min): 2 ppm AEGL-2 (60 min): 7.1 ppm AEGL-3 (60 min): 15 ppm
IDLH: 50 ppm LEL: 56000 ppm UEL: 400000 ppm
Ambient Boiling Point: 25.5° C
Vapor Pressure at Ambient Temperature: 0.81 atm
Ambient Saturation Concentration: 809,371 ppm or 80.9%

ATMOSPHERIC DATA: (MANUAL INPUT OF DATA)
Wind: 2 meters/second from SW at 3 meters
Ground Roughness: urban or forest Cloud Cover: 5 tenths
Air Temperature: 20° C
Stability Class: A (user override)
No Inversion Height Relative Humidity: 75%

SOURCE STRENGTH:
Direct Source: 0.85 kilograms/sec **Source Height: 167 meters**
Release Duration: 60 minutes
Release Rate: 54 kilograms/min
Total Amount Released: 3,240 kilograms

THREAT ZONE: (GAUSSIAN SELECTED)
Model Run: Gaussian
Red : **LOC is not exceeded** --- (45 mg/(cu m))
Note: Threat zone was not drawn because
the ground level concentrations never exceed the LOC.

Incendie d'une cellule de stockage

Dispersion du HCN

Condition F, vent 3 m/s

SITE DATA:
Location: HEUDEBOUVILLE, FRANCE
Building Air Exchanges Per Hour: 0.62 (unsheltered single storied)
Time: March 8, 2019 1414 hours DST (using computer's clock)

CHEMICAL DATA:
Chemical Name: HYDROGEN CYANIDE
CAS Number: 74-90-8 Molecular Weight: 27.03 g/mol
AEGL-1 (60 min): 2 ppm AEGL-2 (60 min): 7.1 ppm AEGL-3 (60 min): 15 ppm
IDLH: 50 ppm LEL: 56000 ppm UEL: 400000 ppm
Ambient Boiling Point: 25.5° C
Vapor Pressure at Ambient Temperature: 0.66 atm
Ambient Saturation Concentration: 663,766 ppm or 66.4%

ATMOSPHERIC DATA: (MANUAL INPUT OF DATA)
Wind: 3 meters/second from SW at 3 meters
Ground Roughness: urban or forest Cloud Cover: 5 tenths
Air Temperature: 15° C
Stability Class: F (user override)
No Inversion Height Relative Humidity: 75%

SOURCE STRENGTH:
Direct Source: 0.85 kilograms/sec **Source Height: 112 meters**
Release Duration: 60 minutes
Release Rate: 54 kilograms/min
Total Amount Released: 3,240 kilograms

THREAT ZONE: (GAUSSIAN SELECTED)
Model Run: Gaussian
Red : **LOC is not exceeded** --- (45 mg/(cu m))
Note: Threat zone was not drawn because
the ground level concentrations never exceed the LOC.

Incendie d'une cellule de stockage

Dispersion du HCN

Condition D, vent 5 m/s

SITE DATA:
Location: HEUDEBOUVILLE, FRANCE
Building Air Exchanges Per Hour: 0.98 (unsheltered single storied)
Time: March 8, 2019 1415 hours DST (using computer's clock)

CHEMICAL DATA:
Chemical Name: HYDROGEN CYANIDE
CAS Number: 74-90-8 Molecular Weight: 27.03 g/mol
AEGL-1 (60 min): 2 ppm AEGL-2 (60 min): 7.1 ppm AEGL-3 (60 min): 15 ppm
IDLH: 50 ppm LEL: 56000 ppm UEL: 400000 ppm
Ambient Boiling Point: 25.5° C
Vapor Pressure at Ambient Temperature: 0.81 atm
Ambient Saturation Concentration: 809,371 ppm or 80.9%

ATMOSPHERIC DATA: (MANUAL INPUT OF DATA)
Wind: 5 meters/second from SW at 3 meters
Ground Roughness: urban or forest Cloud Cover: 5 tenths
Air Temperature: 20° C **Stability Class: D**
No Inversion Height Relative Humidity: 75%

SOURCE STRENGTH:
Direct Source: 0.85 kilograms/sec **Source Height: 67 meters**
Release Duration: 60 minutes
Release Rate: 54 kilograms/min
Total Amount Released: 3,240 kilograms

THREAT ZONE: (GAUSSIAN SELECTED)
Model Run: Gaussian
Red : **LOC is not exceeded** --- (45 mg/(cu m))
Note: Threat zone was not drawn because
the ground level concentrations never exceed the LOC.

Incendie d'une cellule de stockage

Dispersion des fumées de l'incendie (seuil équivalent)

Condition A, vent 2 m/s

SITE DATA:
Location: HEUDEBOUVILLE, FRANCE
Building Air Exchanges Per Hour: 0.40 (unsheltered single storied)
Time: March 8, 2019 1404 hours DST (using computer's clock)

ATMOSPHERIC DATA: (MANUAL INPUT OF DATA)
Wind: 2 meters/second from SW at 3 meters
Ground Roughness: urban or forest Cloud Cover: 5 tenths
Air Temperature: 20° C
Stability Class: A (user override)
No Inversion Height Relative Humidity: 75%

SOURCE STRENGTH:
Direct Source: 125 kilograms/sec **Source Height: 167 meters**
Release Duration: 60 minutes
Release Rate: 7,500 kilograms/min
Total Amount Released: 450,000 kilograms
Note: This chemical may flash boil and/or result in two phase flow.
Use both dispersion modules to investigate its potential behavior.

THREAT ZONE: (GAUSSIAN SELECTED)
Model Run: Gaussian
Red : **LOC is not exceeded** --- (21705 mg/(cu m))
Note: Threat zone was not drawn because
the ground level concentrations never exceed the LOC.
Orange: **LOC is not exceeded** --- (5568 mg/(cu m))
Note: Threat zone was not drawn because
the ground level concentrations never exceed the LOC.

Incendie d'une cellule de stockage
Dispersion des fumées de l'incendie (seuil équivalent)
Condition F, vent 3 m/s

SITE DATA:
Location: HEUDEBOUVILLE, FRANCE
Building Air Exchanges Per Hour: 0.62 (unsheltered single storied)
Time: March 8, 2019 1405 hours DST (using computer's clock)

ATMOSPHERIC DATA: (MANUAL INPUT OF DATA)
Wind: 3 meters/second from SW at 3 meters
Ground Roughness: urban or forest Cloud Cover: 5 tenths
Air Temperature: 15° C
Stability Class: F (user override)
No Inversion Height Relative Humidity: 75%

SOURCE STRENGTH:
Direct Source: 125 kilograms/sec **Source Height: 112 meters**
Release Duration: 60 minutes
Release Rate: 7,500 kilograms/min
Total Amount Released: 450,000 kilograms
Note: This chemical may flash boil and/or result in two phase flow.
Use both dispersion modules to investigate its potential behavior.

THREAT ZONE: (GAUSSIAN SELECTED)
Model Run: Gaussian
Red : **LOC is not exceeded** --- (21705 mg/(cu m))
Note: Threat zone was not drawn because
the ground level concentrations never exceed the LOC.
Orange: **LOC is not exceeded** --- (5568 mg/(cu m))
Note: Threat zone was not drawn because
the ground level concentrations never exceed the LOC.

Incendie d'une cellule de stockage
Dispersion des fumées de l'incendie (seuil équivalent)
Condition D, vent 5 m/s

SITE DATA:
Location: HEUDEBOUVILLE, FRANCE
Building Air Exchanges Per Hour: 0.98 (unsheltered single storied)
Time: March 8, 2019 1406 hours DST (using computer's clock)

ATMOSPHERIC DATA: (MANUAL INPUT OF DATA)
Wind: 5 meters/second from SW at 3 meters
Ground Roughness: urban or forest Cloud Cover: 5 tenths
Air Temperature: 20° C **Stability Class: D**
No Inversion Height Relative Humidity: 75%

SOURCE STRENGTH:
Direct Source: 125 kilograms/sec **Source Height: 67 meters**
Release Duration: 60 minutes
Release Rate: 7,500 kilograms/min
Total Amount Released: 450,000 kilograms
Note: This chemical may flash boil and/or result in two phase flow.
Use both dispersion modules to investigate its potential behavior.

THREAT ZONE: (GAUSSIAN SELECTED)
Model Run: Gaussian
Red : **LOC is not exceeded** --- (21705 mg/(cu m))
Note: Threat zone was not drawn because
the ground level concentrations never exceed the LOC.
Orange: **LOC is not exceeded** --- (5568 mg/(cu m))
Note: Threat zone was not drawn because
the ground level concentrations never exceed the LOC.