Modélisation de la dispersion atmosphérique des toxiques en cas d'incendie d'une cellule de stockage de produits combustibles

Incendie d’une cellule de stockage

Dispersion des suies

Condition A, vent 2 m/s

SITE DATA:
Location: VENNECY, FRANCE
Building Air Exchanges Per Hour: 0.42 (unsheltered single storied)
Time: March 24, 2020 1054 hours ST (using computer's clock)

ATMOSPHERIC DATA: (MANUAL INPUT OF DATA)
Wind: 2 meters/second from W at 3 meters
Ground Roughness: open country Cloud Cover: 5 tenths
Air Temperature: 20° C **Stability Class: A (user override)**
No Inversion Height Relative Humidity: 50%

SOURCE STRENGTH:
Direct Source: 22.23 kilograms/sec **Source Height: 233 meters**
Release Duration: 60 minutes
Release Rate: 1,330 kilograms/min
Total Amount Released: 80,028 kilograms

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: VENNECY, FRANCE
Building Air Exchanges Per Hour: 1.04 (unsheltered single storied)
Time: March 24, 2020 1056 hours ST (using computer's clock)

ATMOSPHERIC DATA: (MANUAL INPUT OF DATA)
Wind: 5 meters/second from W at 3 meters
Ground Roughness: open country Cloud Cover: 5 tenths
Air Temperature: 20° C **Stability Class: D**
No Inversion Height Relative Humidity: 50%

SOURCE STRENGTH:
Direct Source: 22.23 kilograms/sec **Source Height: 93 meters**
Release Duration: 60 minutes
Release Rate: 1,330 kilograms/min
Total Amount Released: 80,028 kilograms

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: VENNECY, FRANCE
Building Air Exchanges Per Hour: 0.65 (unsheltered single storied)
Time: March 24, 2020 1059 hours ST (using computer's clock)

ATMOSPHERIC DATA: (MANUAL INPUT OF DATA)
Wind: 3 meters/second from W at 3 meters
Ground Roughness: open country Cloud Cover: 5 tenths
Air Temperature: 15° C **Stability Class: F (user override)**
No Inversion Height Relative Humidity: 50%

SOURCE STRENGTH:
Direct Source: 22.23 kilograms/sec **Source Height: 155 meters**
Release Duration: 60 minutes
Release Rate: 1,330 kilograms/min
Total Amount Released: 80,028 kilograms

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: VENNECY, FRANCE
Building Air Exchanges Per Hour: 0.42 (unsheltered single storied)
Time: March 24, 2020 1115 hours ST (using computer's clock)

CHEMICAL DATA:
Chemical Name: CARBON MONOXIDE 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: -312.6° F
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 W at 3 meters
Ground Roughness: open country Cloud Cover: 5 tenths
Air Temperature: 20° C **Stability Class: A (user override)**
No Inversion Height Relative Humidity: 50%

SOURCE STRENGTH:
Direct Source: 69.74 kilograms/sec **Source Height: 233 meters**
Release Duration: 60 minutes
Release Rate: 4,180 kilograms/min
Total Amount Released: 251,064 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** --- (3520 mg/(cu m))
Note: Threat zone was not drawn because the ground level concentrations never exceed the LOC.
Orange: **LOC is not exceeded** --- (880 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: VENNECY, FRANCE
Building Air Exchanges Per Hour: 1.04 (unsheltered single storied)
Time: March 24, 2020 1118 hours ST (using computer's clock)

CHEMICAL DATA:
Chemical Name: CARBON MONOXIDE 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: -312.6° F
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 W at 3 meters
Ground Roughness: open country Cloud Cover: 5 tenths
Air Temperature: 20° C **Stability Class: D**
No Inversion Height Relative Humidity: 50%

SOURCE STRENGTH:
Direct Source: 69.74 kilograms/sec **Source Height: 93 meters**
Release Duration: 60 minutes
Release Rate: 4,180 kilograms/min
Total Amount Released: 251,064 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** --- (3520 mg/(cu m))
Note: Threat zone was not drawn because the ground level concentrations never exceed the LOC.
Orange: **LOC is not exceeded** --- (880 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: VENNECY, FRANCE
Building Air Exchanges Per Hour: 0.65 (unsheltered single storied)
Time: March 24, 2020 1121 hours ST (using computer's clock)

CHEMICAL DATA:
Chemical Name: CARBON MONOXIDE 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: -312.6° F
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 W at 3 meters
Ground Roughness: open country Cloud Cover: 5 tenths
Air Temperature: 15° C **Stability Class: F (user override)**
No Inversion Height Relative Humidity: 50%

SOURCE STRENGTH:
Direct Source: 69.74 kilograms/sec **Source Height: 155 meters**
Release Duration: 60 minutes
Release Rate: 4,180 kilograms/min
Total Amount Released: 251,064 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** --- (3520 mg/(cu m))
Note: Threat zone was not drawn because the ground level concentrations never exceed the LOC.
Orange: **LOC is not exceeded** --- (880 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: VENNECY, FRANCE
Building Air Exchanges Per Hour: 0.42 (unsheltered single storied)
Time: March 24, 2020 1126 hours ST (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 W at 3 meters
Ground Roughness: open country Cloud Cover: 5 tenths
Air Temperature: 20° C **Stability Class: A** (user override)
No Inversion Height Relative Humidity: 50%

SOURCE STRENGTH:
Direct Source: 697.4 kilograms/sec **Source Height: 233 meters**
Release Duration: 60 minutes
Release Rate: 41,800 kilograms/min
Total Amount Released: 2,510,640 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: VENNECY, FRANCE
Building Air Exchanges Per Hour: 1.04 (unsheltered single storied)
Time: March 24, 2020 1128 hours ST (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 W at 3 meters
Ground Roughness: open country Cloud Cover: 5 tenths
Air Temperature: 20° C **Stability Class: D**
No Inversion Height Relative Humidity: 50%

SOURCE STRENGTH:
Direct Source: 697.4 kilograms/sec **Source Height: 93 meters**
Release Duration: 60 minutes
Release Rate: 41,800 kilograms/min
Total Amount Released: 2,510,640 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: VENNECY, FRANCE
Building Air Exchanges Per Hour: 0.65 (unsheltered single storied)
Time: March 24, 2020 1129 hours ST (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 W at 3 meters
Ground Roughness: open country Cloud Cover: 5 tenths
Air Temperature: 15° C **Stability Class: F** (user override)
No Inversion Height Relative Humidity: 50%

SOURCE STRENGTH:
Direct Source: 697.4 kilograms/sec **Source Height: 155 meters**
Release Duration: 60 minutes
Release Rate: 41,800 kilograms/min
Total Amount Released: 2,510,640 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: VENNECY, FRANCE
Building Air Exchanges Per Hour: 0.42 (unsheltered single storied)
Time: March 24, 2020 1136 hours ST (using computer's clock)

CHEMICAL DATA:
Chemical Name: HYDROGEN CHLORIDE 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: -121.0° F
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 W at 3 meters
Ground Roughness: open country Cloud Cover: 5 tenths
Air Temperature: 20° C **Stability Class: A (user override)**
No Inversion Height Relative Humidity: 50%

SOURCE STRENGTH:
Direct Source: 26.28 kilograms/sec **Source Height: 233 meters**
Release Duration: 60 minutes
Release Rate: 1,580 kilograms/min
Total Amount Released: 94,608 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: VENNECY, FRANCE
Building Air Exchanges Per Hour: 1.04 (unsheltered single storied)
Time: March 24, 2020 1138 hours ST (using computer's clock)

CHEMICAL DATA:
Chemical Name: HYDROGEN CHLORIDE 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: -121.0° F
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 W at 3 meters
Ground Roughness: open country Cloud Cover: 5 tenths
Air Temperature: 20° C **Stability Class: D**
No Inversion Height Relative Humidity: 50%

SOURCE STRENGTH:
Direct Source: 26.28 kilograms/sec **Source Height: 93 meters**
Release Duration: 60 minutes
Release Rate: 1,580 kilograms/min
Total Amount Released: 94,608 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: VENNECY, FRANCE
Building Air Exchanges Per Hour: 0.65 (unsheltered single storied)
Time: March 24, 2020 1140 hours ST (using computer's clock)

CHEMICAL DATA:
Chemical Name: HYDROGEN CHLORIDE 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: -121.0° F
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 W at 3 meters
Ground Roughness: open country Cloud Cover: 5 tenths
Air Temperature: 15° C **Stability Class: F (user override)**
No Inversion Height Relative Humidity: 50%

SOURCE STRENGTH:
Direct Source: 26.28 kilograms/sec **Source Height: 155 meters**
Release Duration: 60 minutes
Release Rate: 1,580 kilograms/min
Total Amount Released: 94,608 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 HCN
Condition A, vent 2 m/s

SITE DATA:
Location: VENNECY, FRANCE
Building Air Exchanges Per Hour: 0.42 (unsheltered single storied)
Time: March 24, 2020 1143 hours ST (using computer's clock)

CHEMICAL DATA:
Chemical Name: HYDROGEN CYANIDE 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: 78.3° F
Vapor Pressure at Ambient Temperature: 0.81 atm
Ambient Saturation Concentration: 805,867 ppm or 80.6%

ATMOSPHERIC DATA: (MANUAL INPUT OF DATA)
Wind: 2 meters/second from W at 3 meters
Ground Roughness: open country Cloud Cover: 5 tenths
Air Temperature: 20° C **Stability Class: A (user override)**
No Inversion Height Relative Humidity: 50%

SOURCE STRENGTH:
Direct Source: 2.04 kilograms/sec **Source Height: 233 meters**
Release Duration: 60 minutes
Release Rate: 122 kilograms/min
Total Amount Released: 7,344 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: VENNECY, FRANCE
Building Air Exchanges Per Hour: 1.04 (unsheltered single storied)
Time: March 24, 2020 1146 hours ST (using computer's clock)

CHEMICAL DATA:
Chemical Name: HYDROGEN CYANIDE 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: 78.3° F
Vapor Pressure at Ambient Temperature: 0.81 atm
Ambient Saturation Concentration: 805,867 ppm or 80.6%

ATMOSPHERIC DATA: (MANUAL INPUT OF DATA)
Wind: 5 meters/second from W at 3 meters
Ground Roughness: open country Cloud Cover: 5 tenths
Air Temperature: 20° C **Stability Class: D**
No Inversion Height Relative Humidity: 50%

SOURCE STRENGTH:
Direct Source: 2.04 kilograms/sec **Source Height: 93 meters**
Release Duration: 60 minutes
Release Rate: 122 kilograms/min
Total Amount Released: 7,344 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: VENNECY, FRANCE
Building Air Exchanges Per Hour: 0.65 (unsheltered single storied)
Time: March 24, 2020 1148 hours ST (using computer's clock)

CHEMICAL DATA:
Chemical Name: HYDROGEN CYANIDE 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: 78.3° F
Vapor Pressure at Ambient Temperature: 0.66 atm
Ambient Saturation Concentration: 660,892 ppm or 66.1%

ATMOSPHERIC DATA: (MANUAL INPUT OF DATA)
Wind: 3 meters/second from W at 3 meters
Ground Roughness: open country Cloud Cover: 5 tenths
Air Temperature: 15° C **Stability Class: F (user override)**
No Inversion Height Relative Humidity: 50%

SOURCE STRENGTH:
Direct Source: 2.04 kilograms/sec **Source Height: 155 meters**
Release Duration: 60 minutes
Release Rate: 122 kilograms/min
Total Amount Released: 7,344 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: VENNECY, FRANCE
Building Air Exchanges Per Hour: 0.42 (unsheltered single storied)
Time: March 24, 2020 1152 hours ST (using computer's clock)

ATMOSPHERIC DATA: (MANUAL INPUT OF DATA)
Wind: **2 meters/second** from W at 3 meters
Ground Roughness: open country Cloud Cover: 5 tenths
Air Temperature: 20° C **Stability Class: A** (user override)
No Inversion Height Relative Humidity: 50%

SOURCE STRENGTH:
Direct Source: 3 176 kilograms/sec **Source Height: 233 meters**
Release Duration: 60 minutes
Release Rate: 191,000 kilograms/min
Total Amount Released: 11,433,600 kilograms

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: VENNECY, FRANCE
Building Air Exchanges Per Hour: 1.04 (unsheltered single storied)
Time: March 24, 2020 1154 hours ST (using computer's clock)

ATMOSPHERIC DATA: (MANUAL INPUT OF DATA)
Wind: **5 meters/second** from W at 3 meters
Ground Roughness: open country Cloud Cover: 5 tenths
Air Temperature: 20° C **Stability Class: D**
No Inversion Height Relative Humidity: 50%

SOURCE STRENGTH:
Direct Source: 3 176 kilograms/sec **Source Height: 93 meters**
Release Duration: 60 minutes
Release Rate: 191,000 kilograms/min
Total Amount Released: 11,433,600 kilograms

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: VENNECY, FRANCE
Building Air Exchanges Per Hour: 0.65 (unsheltered single storied)
Time: March 24, 2020 1156 hours ST (using computer's clock)

ATMOSPHERIC DATA: (MANUAL INPUT OF DATA)
Wind: **3 meters/second** from W at 3 meters
Ground Roughness: open country Cloud Cover: 5 tenths
Air Temperature: 15° C **Stability Class: F** (user override)
No Inversion Height Relative Humidity: 50%

SOURCE STRENGTH:
Direct Source: 3 176 kilograms/sec **Source Height: 155 meters**
Release Duration: 60 minutes
Release Rate: 191,000 kilograms/min
Total Amount Released: 11,433,600 kilograms

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.