

Modélisation de la dispersion atmosphérique des
toxiques en cas d'incendie de trois cellules de
stockage de produits combustibles

Incendie de trois cellules de stockage
Dispersion des suies
Condition A, vent 2 m/s

SITE DATA:

Location: POUPRY, FRANCE

Building Air Exchanges Per Hour: 0.42 (unsheltered single storied)

Time: March 16, 2018 1417 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: 33.34 kilograms/sec **Source Height: 272 meters**

Release Duration: 60 minutes

Release Rate: 2,090 kilograms/min

Total Amount Released: 125,496 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 de trois cellules de stockage
Dispersion des suies
Condition D, vent 5 m/s

SITE DATA:

Location: POUPRY, FRANCE

Building Air Exchanges Per Hour: 1.04 (unsheltered single storied)

Time: March 16, 2018 1418 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: 33.34 kilograms/sec **Source Height: 109 meters**

Release Duration: 60 minutes

Release Rate: 2,090 kilograms/min

Total Amount Released: 125,496 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 de trois cellules de stockage
Dispersion des suies
Condition F, vent 3 m/s

SITE DATA:

Location: POUPRY, FRANCE

Building Air Exchanges Per Hour: 0.65 (unsheltered single storied)

Time: March 16, 2018 1418 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: 33.34 kilograms/sec **Source Height: 182 meters**

Release Duration: 60 minutes

Release Rate: 2,090 kilograms/min

Total Amount Released: 125,496 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 de trois cellules de stockage
Dispersion du Monoxyde de carbone
Condition A, vent 2 m/s

SITE DATA:

Location: POUPRY, FRANCE
Building Air Exchanges Per Hour: 0.42 (unsheltered single storied)
Time: March 16, 2018 1420 hours ST (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 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: 104.61 kilograms/sec **Source Height: 272 meters**
Release Duration: 60 minutes
Release Rate: 6,560 kilograms/min
Total Amount Released: 393,732 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 de trois cellules de stockage
Dispersion du Monoxyde de carbone
Condition D, vent 5 m/s

SITE DATA:

Location: POUPRY, FRANCE
Building Air Exchanges Per Hour: 1.04 (unsheltered single storied)
Time: March 16, 2018 1421 hours ST (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 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: 104.61 kilograms/sec Source Height: 109 meters
Release Duration: 60 minutes
Release Rate: 6,560 kilograms/min
Total Amount Released: 393,732 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 de trois cellules de stockage
Dispersion du Monoxyde de carbone
Condition F, vent 3 m/s

SITE DATA:

Location: POUPRY, FRANCE
Building Air Exchanges Per Hour: 0.65 (unsheltered single storied)
Time: March 16, 2018 1422 hours ST (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 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: 104.61 kilograms/sec Source Height: 182 meters
Release Duration: 60 minutes
Release Rate: 6,560 kilograms/min
Total Amount Released: 393,732 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 de 3 cellules de stockage
Dispersion du Dioxyde de carbone
Condition A, vent 2 m/s

SITE DATA:

Location: POUPRY, FRANCE
Building Air Exchanges Per Hour: 0.42 (unsheltered single storied)
Time: March 16, 2018 1424 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: 1046.09 kilograms/sec **Source Height: 272 meters**
Release Duration: 60 minutes
Release Rate: 65,600 kilograms/min
Total Amount Released: 3,937,320 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 de 3 cellules de stockage
Dispersion du Dioxyde de carbone
Condition D, vent 5 m/s

SITE DATA:

Location: POUPRY, FRANCE

Building Air Exchanges Per Hour: 1.04 (unsheltered single storied)

Time: March 16, 2018 1427 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: 1046.09 kilograms/sec Source Height: 109 meters

Release Duration: 60 minutes

Release Rate: 65,600 kilograms/min

Total Amount Released: 3,937,320 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 de 3 cellules de stockage
Dispersion du Dioxyde de carbone
Condition F, vent 3 m/s

SITE DATA:

Location: POUPRY, FRANCE
Building Air Exchanges Per Hour: 0.65 (unsheltered single storied)
Time: March 16, 2018 1428 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: 1046.09 kilograms/sec Source Height: 182 meters
Release Duration: 60 minutes
Release Rate: 65,600 kilograms/min
Total Amount Released: 3,937,320 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 de trois cellules de stockage
Dispersion du HCl
Condition A, vent 2 m/s

SITE DATA:

Location: POUPRY, FRANCE
Building Air Exchanges Per Hour: 0.42 (unsheltered single storied)
Time: March 16, 2018 1428 hours ST (using computer's clock)

CHEMICAL DATA:

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 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: 39.42 kilograms/sec **Source Height: 272 meters**
Release Duration: 60 minutes
Release Rate: 2,470 kilograms/min
Total Amount Released: 148,356 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 de trois cellules de stockage
Dispersion du HCl
Condition D, vent 5 m/s

SITE DATA:

Location: POUPRY, FRANCE
Building Air Exchanges Per Hour: 1.04 (unsheltered single storied)
Time: March 16, 2018 1430 hours ST (using computer's clock)

CHEMICAL DATA:

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 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: 39.42 kilograms/sec **Source Height: 109 meters**
Release Duration: 60 minutes
Release Rate: 2,470 kilograms/min
Total Amount Released: 148,356 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 de trois cellules de stockage
Dispersion du HCl
Condition F, vent 3 m/s

SITE DATA:

Location: POUPRY, FRANCE
Building Air Exchanges Per Hour: 0.65 (unsheltered single storied)
Time: March 16, 2018 1431 hours ST (using computer's clock)

CHEMICAL DATA:

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 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: 39.42 kilograms/sec **Source Height: 182 meters**
Release Duration: 60 minutes
Release Rate: 2,470 kilograms/min
Total Amount Released: 148,356 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 de trois cellules de stockage
Dispersion du HCN
Condition A, vent 2 m/s

SITE DATA:

Location: POUPRY, FRANCE

Building Air Exchanges Per Hour: 0.42 (unsheltered single storied)

Time: March 16, 2018 1449 hours ST (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: 25.7° C

Vapor Pressure at Ambient Temperature: 0.81 atm

Ambient Saturation Concentration: 806,532 ppm or 80.7%

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: 3.06 kilograms/sec Source Height: 272 meters

Release Duration: 60 minutes

Release Rate: 192 kilograms/min

Total Amount Released: 11,520 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 de trois cellules de stockage
Dispersion du HCN
Condition D, vent 5 m/s

SITE DATA:

Location: POUPRY, FRANCE
Building Air Exchanges Per Hour: 1.04 (unsheltered single storied)
Time: March 16, 2018 1450 hours ST (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: 25.7° C
Vapor Pressure at Ambient Temperature: 0.81 atm
Ambient Saturation Concentration: 806,532 ppm or 80.7%

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: 3.06 kilograms/sec **Source Height: 109 meters**
Release Duration: 60 minutes
Release Rate: 192 kilograms/min
Total Amount Released: 11,520 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 de trois cellules de stockage
Dispersion du HCN
Condition F, vent 3 m/s

SITE DATA:

Location: POUPRY, FRANCE
Building Air Exchanges Per Hour: 0.65 (unsheltered single storied)
Time: March 16, 2018 1450 hours ST (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: 25.7° C
Vapor Pressure at Ambient Temperature: 0.66 atm
Ambient Saturation Concentration: 661,437 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: 3.06 kilograms/sec **Source Height: 182 meters**
Release Duration: 60 minutes
Release Rate: 192 kilograms/min
Total Amount Released: 11,520 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 de trois cellules de stockage
Dispersion des fumées de l'incendie (seuil équivalent)
Condition A, vent 2 m/s

SITE DATA:

Location: POUPRY, FRANCE

Building Air Exchanges Per Hour: 0.42 (unsheltered single storied)

Time: March 16, 2018 1451 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: 4763.3 kilograms/sec **Source Height: 272 meters**

Release Duration: 60 minutes

Release Rate: 299,000 kilograms/min

Total Amount Released: 17,928,360 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 de trois cellules de stockage
Dispersion des fumées de l'incendie (seuil équivalent)
Condition D, vent 5 m/s

SITE DATA:

Location: POUPRY, FRANCE

Building Air Exchanges Per Hour: 1.04 (unsheltered single storied)

Time: March 16, 2018 1453 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: 4763.3 kilograms/sec Source Height: 109 meters

Release Duration: 60 minutes

Release Rate: 299,000 kilograms/min

Total Amount Released: 17,928,360 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 de trois cellules de stockage
Dispersion des fumées de l'incendie (seuil équivalent)
Condition F, vent 3 m/s

SITE DATA:

Location: POUPRY, FRANCE

Building Air Exchanges Per Hour: 0.65 (unsheltered single storied)

Time: March 16, 2018 1453 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: 4763.3 kilograms/sec **Source Height: 182 meters**

Release Duration: 60 minutes

Release Rate: 299,000 kilograms/min

Total Amount Released: 17,928,360 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.