Annex B

Quantitative Risk Assessment for High Pressure Town Gas Pipeline

Application for Amendment of Plan under Section 12A of the Town Planning Ordinance (Cap. 131) to Rezone the Application Site from "Green Belt" to "Residential (Group C)1" for Proposed House Development at Various Lots in D.D. 244 and Adjoining Government Land, Nam Pin Wai, Sai Kung

Quantitative Risk Assessment for High Pressure Town Gas Pipeline

This report takes into account the particular instructions and requirements of our client. It is not intended for and should not be relied upon by any third party and no responsibility

is undertaken to any third party. Job number 294065

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ARUP

Application for Amendment of Plan under Section 12A of the Town Planning Ordinance (Cap. 131) to Rezone the Application Site from "Green Belt" to "Residential (Group C)1" for Proposed House Development at Various Lots in D.D. 244 and Adjoining Government Land, Nam Pin Wai, Sai Kung Quantitative Risk Assessment for High Pressure Town Gas Pipeline

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Appendices

Appendix A Reply from The Hong Kong and China Gas Company Limited

Appendix B Population Data Adopted

Appendix C Failure Frequencies

Appendix D Input Parameters and Consequence Results

1 Introduction

1.1 Background

- **1.1.1.1** This Quantitative Risk Assessment (QRA) report is prepared in support of the Application for Amendment of Plan Under Section 12A (the "Proposed Amendment") of the Town Planning Ordinance (Cap. 131) to the Approved Ho Chung Outline Zoning Plan (OZP) No. S/SK-HC/11 by rezoning the Application Site from "Green Belt" ("GB") to the same "Residential (Group C)1" ("R(C)1") zone to the immediate west of the Application Site ("the Proposed Amendment").
- **1.1.1.2** The Application Site is about 6,601m², and is located to the west of the New Hiram's Highway. The Application Site is situated in a predominantly residential neighbourhood in Nam Pin Wai area with existing and planned low-dense houses and village settlements. The Application Site is accessible to the Wo Mei Hung Min Road via the approved access road serving the adjoining "R(C)1" development, which further connects to the New Hiram's Highway (a district distributor road) to other parts in Sai Kung, Kowloon East and Tseung Kwan O areas. According to the Approved Ho Chung OZP No. S/SK-HC/11, the Application Site is currently zoned as "GB".
- **1.1.1.3** The Development Site area of about 5,355m² is proposed and defined after excluding the access road located at the central part of the Application Site. A high pressure gas pipeline was identified running along Hiram's highway which is located at the east of the Proposed House Development. **Figure 1.1** shows the location of the Proposed House Development, the high pressure gas pipeline and the master layout plan of the Proposed House Development.

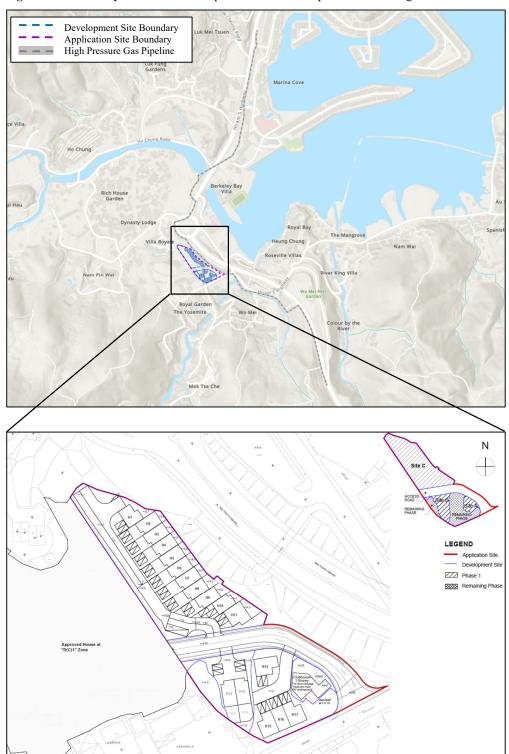


Figure 1.1 Master Layout Plan of the Proposed House Development in Sai Kung

1.2 Objectives of the Study

1.2.1.1 The objective of this report is to conduct a QRA to assess the risks posed by the existing high pressure gas pipeline and any gas installations in the vicinity of the Proposed House Development. Subject to the modelling results, recommendations for mitigation measures, protection works, and other measures and works to be carried out within the Proposed House Development will be proposed to ensure that the risks posed by the high pressure gas pipeline and any gas installations in the vicinity of the Proposed House Development would comply with the risk guidelines as described in Section 4.4, Chapter 12 of the Hong Kong Planning Standards and Guidelines (HKPSG).

1.3 Scope of Work

- **1.3.1.1** The scope of work for the QRA includes:
 - Identifying all potential hazards-to-life, including the population of the Proposed House Development, due to the high pressure gas pipeline.
 - Undertaking a hazard assessment to quantify the risk level and to recommend risk mitigation measures to comply with the "risk guidelines in HKPSG".

1.4 Structure of Report

- **1.4.1.1** The structure of this quantitative risk assessment report is as follows:
 - Section 1 Provides the background, objectives, and scope of this study
 - Section 2 Provides the background information of the Proposed House Development and the high pressure gas pipeline.
 - Section 3 States the legislation, standards and guidelines;
 - Section 4 Summarizes the population and meteorological data;
 - Section 5 Identifies the hazard scenarios and provides the frequency analysis
 - Section 6 Provides the consequence analysis
 - Section 7 Evaluates the individual risk and societal risk
 - Section 8 Summarizes the findings
 - Section 9 Lists the references adopted in this study

2 Background Information

2.1 High Pressure Town Gas Pipeline

2.1.1.1 The Hong Kong and China Gas Limited (HKCG) operates a town gas high pressure gas pipeline near to the Proposed House Development which follows the alignment of Hiram's Highway in Sai Kung. Figure 2.1 shows the alignment of the pipeline. The closest distance of the pipeline to the site boundary of the Proposed House Development is around 10 – 15m. Table 2.1 lists the summary of the high pressure gas pipeline technical specification based on communication with HKCG and the reply from HKCG is shown in Appendix A.

Figure 2.1 Alignment of the pipeline

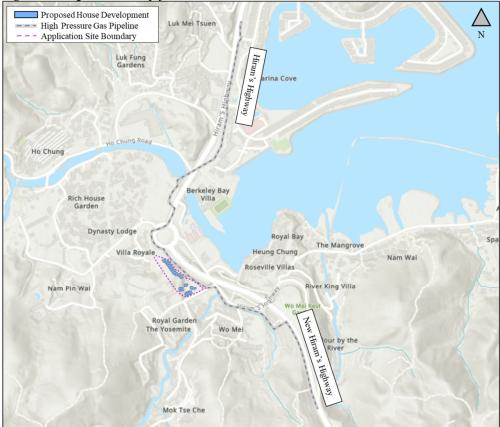


Table 2.1 Technical specification of town gas high pressure pipelin	ne
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Parameter	Specification
Pipe Diameter (Nominal)	750 mm
Pipe Wall Thickness	12.7mm
Design Pressure	35 barg
Maximum Operation Pressure	35 barg
Hydraulic Test Pressure	900 psi
Pipe Material	Steel
Minimum Depth	1.lm

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Parameter	Specification
Material Grading (Pipe/ Fitting)	API 5L X 52
Jointing Method	Butt Welding
Welding Specification	Welding complied with BS4515 & BGC/PS/P2

2.2 Town Gas Composition

2.2.1.1 Town gas is a mixture of hydrogen, methane, carbon monoxide and carbon dioxides. In Hong Kong, 98% of town gas is produced at the plant located in Tai Po and the rest is produced at the plant located in Ma Tau Kok. The composition of town gas is provided in **Table 2.2**. Town gas, produced from natural gas (60%), naphtha (39%) and landfill gas (1%), is the final product of the gas works. It is a clean, safe and reliable gaseous fuel. With about half the density of air, it rises and will dissipate in the air if leakage occurs. It has neither colour nor odour. Therefore, odouriser has been added to the gas such that it can easily be detected.

Parameter	Specification		
Hydrogen	49.0% (vol)		
Methane	28.5% (vol)		
Carbon Dioxide	19.5% (vol)		
Carbon Monoxide	3.0% (vol)		
Wobbe Index	24		
Weaver Flame Speed	35		

Table 2.2Town gas composition and properties

Notes:

[1] Reference: Section 3.9.2 of EMSD's Guidance Note on Quantitative Risk Assessment Study for High Pressure Town Gas Installations in Hong Kong.

3 Legislation, Standard and Guideline

3.1.1.1 The high pressure town gas pipeline is classified as Notifiable Gas Installation (NGI) instead under the Gas Safety Ordinance Cap. 51. Hence, a Quantitative Risk Assessment (QRA) report is required to assess the potential risk impact of the high pressure gas pipelines on the populations in their vicinity including the Proposed House Development and ascertain that the risk level is acceptable with the Government Risk Guidelines referred to in Section 3.11 of the EMSD's Guidance Note on Quantitative Risk Assessment Study for High Pressure Town Gas Installations in Hong Kong (GN).

3.2 Quantitative Risk Assessment Study for High Pressure Town Gas Installations in Hong Kong

3.2.1.1 In accordance with the GN, a set of Risk Guidelines (RG) has been adopted by CCPHI to assess the off-site risk levels of PHIs. These guidelines are expressed in terms of individual and societal risks as shown in **Table 3.1**.

Risk	Description			
Individual Risk	It is the predicted increase in the chance of death per year to an individual who lives or works near to a PHI. Maximum level of off-site individual risk associated with PHIs should not exceed 1 in 100,000 per year i.e. $1x10^{-5}$ /year.			
Societal Risk	It expresses the risks to the whole population living near a PHI. With the population increases, the societal risk will be increased. The societal RG is presented graphically in Figure 3.1 . It is expressed in terms of lines plotting the cumulative frequency (F) of N or more deaths in the population from incidents at the installation. Two F-N risk lines are used in the RG that mark "acceptable" or "unacceptable" societal risks. The intermediate region indicates the acceptability of societal risk is borderline and should be reduced to a level which is "as low as is reasonably practicable" (ALARP). It seeks to ensure that all practicable and cost effective measures that can reduce risk will be considered.			

 Table 3.1 Criteria for individual and societal risks

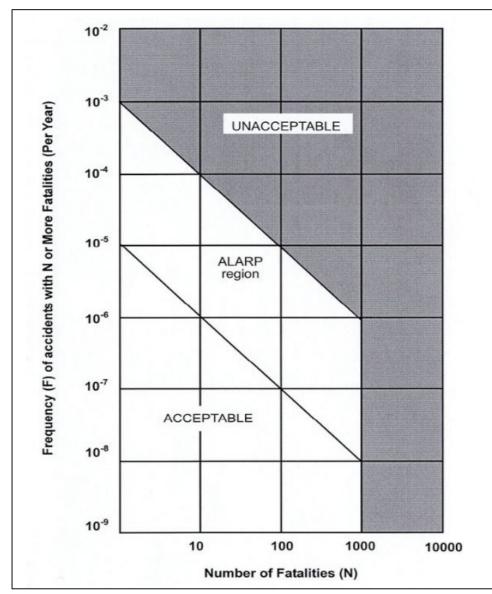


Figure 3.1 Hong Kong Societal Risk Criteria

3.3 Guidance Note on Quantitative Risk Assessment Study for High Pressure Town Gas Installations in Hong Kong

3.3.1.1 Guidance Note on Quantitative Risk Assessment Study for High Pressure Town Gas Installations in Hong Kong (GN) covers the methodology of QRA for high pressure town gas installation including high pressure gas pipelines, high pressure town gas regulating station (offtake and/or pigging station) with high pressure gas pipelines connected.

4 **Population and Meteorological Data**

4.1 Assessment Year

- **4.1.1.1** By considering the construction and operational stage for this Proposed House Development, as the number of workers for construction phase is assumed to be less than 100 people which is more than the number of population intake, i.e. around 51 people, for this Proposed House Development, the QRA for both phases would be assessed.
- **4.1.1.2** Based on the current tentative implementation programme, population intake will be in Year 2030. The next TPEDM year, i.e. Year 2031, has been taken as the assessment year for a conservative assessment.

4.2 Study Zone

4.2.1.1 In accordance with GN, the Study Zone (SZ) for this Proposed House Development is the area covering 200 metres from the highest risk of 1.6km high pressure gas pipelines section. The SZ is shown in Figure 4.1.

Figure 4.1 Study Zone



4.3 **Population Data**

4.3.1 Time Variation Mode

The time variation mode reflects the variations of population in each location during working days, peak traffic hour, weekend and night. Detailed description and frequency per year for each time variation mode is presented in **Table 4.1**.

Time Variation Mode (TM)	Description Period		Weighting per week	Frequency per year
TM 1	Weekday Day	Monday to Friday (09:00 to 18:00)	45 hours	0.268
TM 2	Peak Traffic Hours	Monday to Sunday (07:00 to 09:00 and 18:00 to 20:00)	28 hours	0.167
TM 3	Weekend Day	Sunday and Sunday (09:00 to 18:00)	18 hours	0.107
TM 4	Night	Monday to Sunday (20:00 to 07:00)	77 hours	0.458

Table 4.1 Definition of time variation mode

Notes:

[1] The frequency per year for each time variation mode is calculated as follows:

For example TM1, assuming the week day represents a period from Monday to Friday (09:00 to 18:00), frequency per year = 45 / (24*7) = 0.268

4.3.2 Offsite-population

4.3.2.1 The sources of data and assumption of offsite population data adopted in this study are based on the following sources. The detail of population data by population type is shown in Appendix B. Appendix B also illustrates the projected number of population and population distribution of the surroundings.

- Planning Department;
- Transport Consultant; and
- Census and Statistics Department; etc.
- **4.3.2.2** The off-site population in the vicinity of the town gas high pressure gas pipeline has then been projected according to 2019 based Territorial Population and Employment Data Matrix (2019 based TPEDM)¹. According to 2019 based on TPEDM, population of Southeast New Territories in Year 2019 is 68,900 while in Year 2031 is 59,750, as the result, population growth rate is about -1.18% per year. As the population growth for Southeast New Territories is negative, zero growth rate has been adopted for the population projection to the assessment year for conservative approach.

¹ Planning Department (2021), 2019 - based Territorial Population and Employment Data Matrix (https://www.pland.gov.hk/pland_en/info_serv/statistic/tpedm19.html)

- **4.3.2.3** The traffic flow adopted in this assessment is the highest traffic flow within 15 years from the population intake and the population per vehicle is according to Station 5017 from the Annual Traffic Censes 2022. The vehicle speed adopted in this study is 50km/hr.
- **4.3.2.4** The number of population, population density and assumptions adopted in this assessment are illustrated in **Appendix B**.

4.3.3 Time Modes and Occupancy

4.3.3.1 Since population varies in different time periods, the assessment considers 2 categories of days (weekdays and weekends) and 4 time periods for each day (am peak traffic hours, day, pm peak traffic hour and night) as discussed in **Section 4.3.1**. **Table 4.2** shows the temporal population distribution. The indoor ratios for different types of uses are shown in **Table 4.3**.

Туре	Weekday Day	Peak Traffic Hour	Weekend Day	Night	
Residential	20%	50%	80%	100%	
Educational	100%	10%	55%	0%	
Road population	100%	100%	100%	20%	
Temple	50%	10%	100%	0%	
Recreational	70%	10%	100%	0%	
Commercial / Administration	100%	10%	100%	10%	
Industry	100%	10%	55%	10%	
Open Storage	100%	1%	51%	0%	
Car Park / Open Space	70%	100%	70%	10%	
Government, Institution or Community	100%	10%	55%	10%	
Pedestrian population	100%	100%	100%	100%	
Construction site	100%	100%	0%	0%	

 Table 4.2 Temporal population distribution factor

Note:

[1] Reference is made to an approved EIA study on Operation of the Existing Tai Lam Explosives Magazine at Tai Shu Ha, Yuen Long for Liantang / Heung Yuen Wai Boundary Control Point Project (AEIAR-193/2015), which is in the same district.

[2] Reference is made to an approved EIA study on Hong Kong Section of Guangzhou – Shenzhen – Hong Kong Express Rail Link.

Туре	Indoor Ratio
Residential / Commercial / Administration / Industrial / Open Storage / Government Institution or Community / Recreational	0.95
Educational	0.9
Temple	0.5
Open Space / Car Park / Road population / Construction Site	0
Note:	

 Table 4.3 Indoor ratio for different types of uses

[1] Reference is made to an approved EIA study on Operation of the Existing Tai Lam Explosives Magazine at Tai Shu Ha, Yuen Long for Liantang / Heung Yuen Wai Boundary Control Point Project (AEIAR-193/2015), which is in the same district.

4.3.4 **Protection Factors**

Indoor Protection

- **4.3.4.1.1** Protection for indoor population against all fire events (fireball, jet fire and flash fire) is also considered. It is anticipated that only people in the residential unit facing the fire event are fully exposed to the fire zone and radiation hazards, though they are partially protected by walls and closed windows. Residents at the back of the building or of the buildings behind the one facing the fire are to a large degree shielded from the fire effects.
- **4.3.4.1.2** In accordance with the GN, it is assumed that 90% protection factor is applied for the people indoors for the jet fire and flash fire while 50% protection factor is applied for the people indoors for the fireball.

4.4 Meteorological Conditions

4.4.1.1 Meteorological conditions would affect the dispersion of Towngas. Weather data from the most recent years (Year 2018 to 2022) in HKO Sai Kung Park weather station was adopted and rationalized into 6 categories to represent the range of weather conditions at the site. These categories are classified according to TNO (purple book) (Table 4.4a). The probability of occurrence for each combination of wind speed (WS), wind direction (WD) and stability class (PS) are provided in Table 4.4b and Table 4.4c.

Wind Speed	Α	В	B/C	С	C/D	D	Е	F
< 2.5 ms ⁻¹				D low			F low	
2.5 - 6 ms ⁻¹	B medium				D medium		– E medium	
> 6 ms ⁻¹				D high			Eme	aium

 Table 4.4a
 Allocation of wind observations into six weather classes

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WD	15D	1 5D	4.5D	7.5D	215	1F	Tatal
WD	2.5B	1.5D	4.5D	7.5D	3 E	11	Total
0°	2.20%	0.81%	4.13%	1.90%	0.53%	1.44%	11.00%
30°	4.01%	1.46%	4.87%	2.47%	0.31%	1.23%	14.35%
60°	2.08%	1.12%	3.45%	2.19%	0.20%	0.84%	9.87%
90°	4.29%	0.97%	4.81%	1.11%	0.30%	0.73%	12.21%
120°	3.90%	0.86%	1.31%	0.26%	0.11%	0.83%	7.27%
150°	6.37%	0.85%	3.98%	1.92%	0.08%	0.60%	13.80%
180°	13.05%	1.81%	4.33%	0.89%	0.15%	0.98%	21.23%
210°	2.26%	1.08%	0.40%	0.00%	0.03%	1.07%	4.85%
240°	0.74%	0.43%	0.18%	0.01%	0.01%	0.60%	1.98%
270°	0.29%	0.20%	0.09%	0.00%	0.02%	0.40%	1.01%
300°	0.22%	0.17%	0.05%	0.01%	0.01%	0.37%	0.82%
330°	0.23%	0.25%	0.27%	0.01%	0.06%	0.77%	1.60%
Total	39.64%	10.02%	27.86%	10.79%	1.82%	9.86%	100.00%

Table 4.4b Meteorological data at daytime

Table 4.4c Meteorological data at nigh-time

WD	0	1D	4D	7.5D	3 E	1F	Total
0°	0.00%	0.44%	4.70%	2.26%	2.24%	12.31%	21.95%
30°	0.00%	0.33%	3.43%	1.04%	1.03%	6.07%	11.90%
60°	0.00%	0.18%	4.51%	2.09%	1.64%	4.46%	12.87%
90°	0.00%	0.14%	4.12%	0.71%	1.22%	3.24%	9.42%
120°	0.00%	0.09%	1.26%	0.28%	0.59%	2.30%	4.51%
150°	0.00%	0.05%	1.30%	0.42%	0.41%	1.98%	4.16%
180°	0.00%	0.12%	1.94%	0.12%	0.99%	4.61%	7.78%
210°	0.00%	0.07%	0.30%	0.00%	0.45%	7.10%	7.92%
240°	0.00%	0.06%	0.13%	0.00%	0.12%	4.52%	4.84%
270°	0.00%	0.09%	0.07%	0.00%	0.04%	3.30%	3.51%
300°	0.00%	0.10%	0.06%	0.01%	0.05%	3.61%	3.83%
330°	0.00%	0.23%	0.24%	0.03%	0.25%	6.58%	7.32%
Total	0.00%	1.89%	22.06%	6.95%	9.02%	60.08%	100.00%

5 Hazard Identification and Frequency Analysis

5.1 Hazard Identification

- **5.1.1.1** The main hazard from the high pressure gas pipeline is due to the loss of containment, which leads to gas leak, fire explosion and toxicity. Town gas is flammable / explosive due to the presence of methane, hydrogen and carbon monoxide.
- **5.1.1.2** Release in large quantity, if ignited immediately, will produce a fireball. Initially the gas concentration in the mixture will be above the Upper Flammable Limit (UFL). As burning occurs around the edges of the release, this will entrain more air into the mixture and more combustion will take place. The process accelerates until the mixture rises above the ground as a ball of fire.
- **5.1.1.3** If not ignited immediately, the gas will disperse and dilute. When the gas concentration is between Lower Flammability Limit (LFL) and Upper Flammable Limit (UFL), presence of an ignition source in entire length of the gas cloud movement path may result in a flash fire. In case of continuous release, fire is flashed back to the release source and leads to a jet fire.
- **5.1.1.4** For continuous releases, immediate ignition will produce a long vigorous jet flame from the point of release.
- **5.1.1.5** For all sizes of release, town gas will have a toxic effect on nearby population sites if there is no source of ignition and allowed to disperse.
- **5.1.1.6** Possible hazardous scenarios associated with the operation of the HP underground town gas transmission pipelines are the loss of containment leading to a gas leak, fire explosion and toxicity.

5.2 Pipeline Failure Frequency

5.2.1.1 According to the GN, failure frequency of an underground town gas high pressure pipeline is 1×10^{-5} /km /year. Hole size distribution and its proportion for the pipeline is extracted from the GN and shown in **Table 5.1**. Based on the total failure frequency and **Table 5.1**, the calculated failure frequencies of different hole size leakage and rupture are shown in **Appendix C**.

Category	Hole Size	Proportion	
Rupture	Full bore (600mm)	1%	
Puncture	100mm	19%	
Hole	50mm	30%	
Task	25mm	30%	
Leak	10 mm	20%	

 Table 5.1
 Hole size distribution for underground gas pipeline

6 **Consequence Analysis**

6.1 Hazard Outcome

- **6.1.1.1** The consequence of town gas release could result in the following hazardous outcomes:
 - Fireball;
 - Jet fire;
 - Flash fire; and
 - Toxic gas dispersion

6.2 Source Modelling

6.2.1 Orientation of Release

- **6.2.1.1** The consequences of town gas release following a pipeline failure are dependent on the release rate and the orientation of release. A common assumption is made to model the orientation of release. Failures that occur on top half portion of the pipeline will result in vertical jet releases (unobstructed) whereas failures that occur on bottom half portion of the pipelines will result in inclined jet releases (obstructed). The unobstructed vertical releases would be governed by momentum jet dispersion / momentum jet fires.
- 6.2.1.2 The assumption that the orientation of release would be 50% unobstructed and vertical, and 50% obstructed and governed by buoyant plume rise followed by Gaussian dispersion, is assumed to be valid for failure events with hole sizes same as or smaller than 100mm. This assumption is of the release may not be relevant for large failures such as those from full bore failure. Large failures such as ruptures are more likely to result in an upward release following the displacement of any earth cover. In the case of full bore ruptures, it is assumed that 100% of the release would be unobstructed. This assumption is also the same as GN.

6.2.2 Ignition of Release

- **6.2.2.1** A full bore rupture will be characterized by a very high initial rate followed by a rapid drop. This can cause a larger crater with a significant amount of earth cover being removed. Immediate ignition of such releases may result in a fireball followed by a jet fire. Since the fireball is transient while jet fire continues for a long time, the effect of a jet fire from a rupture area are as significant or have greater damage potential than those compared to fireball effects.
- **6.2.2.2** For all other release cases, immediate ignition would result in a jet fire. Ignition of release from the top of the pipeline will give rise to a vertical jet flame. It is also likely that releases from the top may be slightly

inclined, such that it may cause damage as a result of direct impingement on structures, buildings and persons in the vicinity

6.2.2.3 The ignition probability for the high pressure gas pipeline release adopted are summarized in Table 6.1 which is made reference to the GN.

Leak size	Immediate Ignition ^[1]	Delayed Ignition ^[2]	
Minor (<1 kg/s)	0.01		
Major (1 to 50 kg/s)	0.07	0.4*(1-immediatie ignition	
Massive (>50 kg/s)	0.30	probability)	

Table 6.1Ignition probability for high pressure town gas pipeline release

6.2.3 **Point Sources**

6.2.3.1 No major point source is identified in the vicinity of the HP pipeline.

6.2.4 Line Sources

- **6.2.4.1** Roads are defined as the line sources in *Safeti*. The following assumptions are applied to estimate the presence factor of the line sources and the ignition probability in accordingly with the GN.
 - (a) Ignition probabilities of 0.4 per vehicle;
 - (b) Vehicle speed is assumed as 50 km/hr; and
 - (c) Traffic density is based on the projected traffic flow shown in **Table 6.2**.

Table 6.2	Summary o	f road ig	nition so	ources

Line Source	Peak Traffic Flow (veh / hr)
New Hiram's Highway	2550
Hiram's Highway	2750

6.3 **Consequence Modelling**

6.3.1.1 The consequence analysis result is determined by *DNV Safeti*. The input parameters and consequence results of fireball, jet fire, flash fire and toxic release are shown in **Appendix D**. Details are discussed in the following sections.

6.3.2 Fireball Effect

6.3.2.1 Immediate ignition of release caused by a rupture in the pipeline may give rise to a fireball. The consequence analysis for fireball scenario was conducted *DNV Safeti*. In accordance with Carter (1991), the size of fireball can be determined at each time step the quantity of fuel that can be consumed in a fireball with the same burning time as the time

since the start of the release. The mass of the fireball is determined by equating these two values. The PHAST model was thus adopted to calculate at each time step the quantity of fuel that can be consumed in a fireball. The mass and duration of fireball is estimated to be 21,800 kg and 11.4s respectively.

6.3.2.2 The fatality rate for thermal radiation is determined from the built-in Probit of *DNV Safeti*:

$$Y = -36.38 + 2.56 \ln L$$

where:

Y is the probit; L is the thermal load = $tI^{4/3}$; t is the exposure time, second I is the thermal radiation intensity, kW/m^2 .

6.3.2.3 The radiation level corresponding to 1% and 99% fatality is estimated as 12.5kW/m² and 37.5kW/m² for an exposure time of 20s.

6.3.3 Jet Fire Effect

- **6.3.3.1** Jet fires will result from ignited releases of pressurized flammable gas or superheated/ pressurized liquid and modelled by DNV Safeti. The momentum of the release carries the materials forward in form of a long plume entraining air to give a flammable mixture. Combustion in a jet fire occurs in the form of a strong turbulent diffusion flame that is strongly influenced by the momentum of the release.
- **6.3.3.2** Since the release is transient, the release rate to be considered for evaluation of the effects of jet flame will be based on HSE Contract Research Report No. 82/1994. According to the report, for a full bore rupture, the gas flow will reduce to 1/4 of the initial rate for a further hour after the first 30s release. The release rate and consequently the effects of jet fire will ultimately depend on how quickly isolation can be achieved.
- **6.3.3.3** The fatality rate for thermal radiation is determined from the built-in Probit of *DNV Safeti*:

$$Y = -36.38 + 2.56 \ln L$$

where:

Y is the probit; L is the thermal load = $tI^{4/3}$; t is the exposure time, second I is the thermal radiation intensity, kW/m^2 .

6.3.3.4 The radiation level corresponding to 1% and 99% fatality is estimated as 12.5kW/m² and 37.5kW/m² for an exposure time of 20s.

6.3.4 Flash Fire

- **6.3.4.1** As town gas is pressurized in the transmission network, it is heavier than air at the initial release stage. While the gas expands, it rises rapidly due to the buoyancy nature of the gas under atmospheric conditions. It will propagate and be diluted as a result of air entrainment with the influence of wind.
- **6.3.4.2** The principal hazard arising from a cloud of dispersing town gas is the delayed ignition of the flammable cloud that cause a flame to flash back to the release location and develop into a stable jet or crater fire.
- **6.3.4.3** Large scale experiments on the dispersion and ignition of flammable gas clouds show that ignition is unlikely when the average concentration is below the Lower Flammable Limit (LFL) or above the Upper Flammable Limit (UFL). The hazard distance is calculated by the Unified Dispersion Model (UDM) in the *DNV Safeti*. It estimates the profile of a dispersing cloud in segments according to properties of propagating cloud.
- **6.3.4.4** The fatality rate for flash fires is considered as 100% for persons within the cloud envelope.

6.3.5 Toxic Gas Dispersion

- **6.3.5.1** Town gas contains carbon monoxide (CO) which is a toxic chemical asphyxiant. When a person is exposed to carbon dioxide, it will prevent the delivery or absorption of oxygen within the body by combining with haemoglobin in the blood. A person exposing to concentrations of 20 to 30% of carbon monoxide will result in unconsciousness and convulsions within 1 minute.
- **6.3.5.2** Therefore, Town gas has been odourised with Tetrahydrothiophene (THT). As such, population under the exposure of town gas is warned olfactorily, allowing the affected individuals to react and escape from the exposure of Town gas. It is expected that there is a sufficient interval between the start of the exposure and the onset of incapacitation. Therefore, it is practicable that people would have a high success rate in escaping from the affected area.
- **6.3.5.3** Since town gas is lighter than air, the release will disperse upwards under normal wind conditions until its concentration equilibrates with the surrounding air, where it is then free to move in any direction. Assuming no immediate ignition has occurred, the surrounding population of the HP underground town gas transmission pipelines is unlikely to be fully exposed to the emerging gas cloud. As the gas cloud continues to disperse, its CO2 and CO concentration will begin to dilute, reducing its toxicity significantly over time.
- **6.3.5.4** The following probit equation for CO, from the built-in database of *DNV Safeti*, is applied to the risk model,

$$Pr = -7.21 + ln(Ct)$$

where

C is gas concentration in ppm, and *t* is the exposure time in minute.

6.3.6 Vapour Cloud Explosion

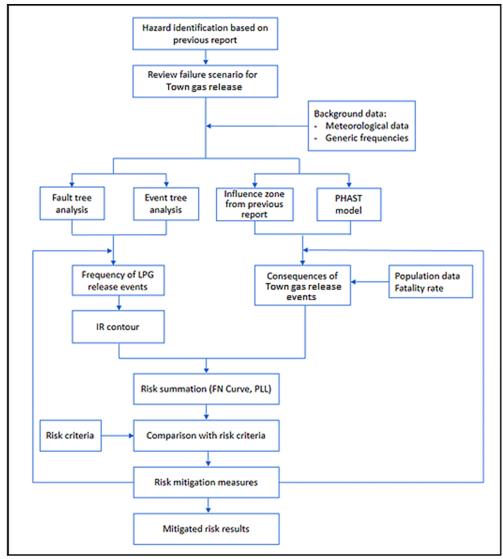
6.3.6.1 To achieve vapour cloud explosion (VCE), a dispersing vapour cloud must accumulate in a confined and/or congested area and subsequently be ignited. The potential for VCE is not considered significant for a buoyant gas plume, like towngas, and thus will not be further considered in this study.

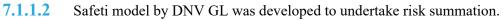
7 **Quantitative Risk Assessment**

7.1 General Approach

7.1.1.1 A Quantitative Risk Assessment (QRA) is conducted through a process including hazard identification, frequency analysis, consequence modelling and risk summation. The general process of the QRA is shown in **Figure 7.1**.

Figure 7.1 Flowchart of the QRA Process



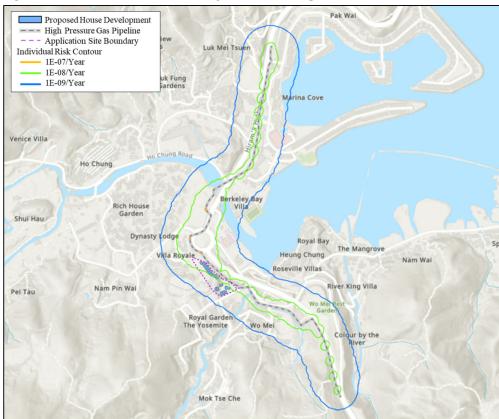


7.2 Risk Assessment

7.2.1 Individual Risk

7.2.1.1 The individual risk levels are calculated for a hypothetical person spending 100% of their time outdoors in the study area. Individual risk is independent of the surrounding population levels. The individual risk due to the high pressure gas pipeline is shown in **Figure 7.2**. The maximum level of off-site individual risk associated with the pipelines does not exceed the criterion of 1×10^{-5} per year.

Figure 7.2 Individual Risk Contour for High Pressure Gas Pipeline



7.2.2 Societal Risk

- **7.2.2.1** The societal risk is expressed in the form of an F-N curve which represents the cumulative frequency (F) of all outcomes leading to N or more fatalities. The F-N curve of the following scenarios are shown in **Figure 7.3** and their F-N pairs are tabulated in **Table 7.1**.
 - Base case: Background population, excluding the Proposed House Development ;
 - Construction phase case: Base case + population of the construction site of the Proposed House Development; and
 - Overall risk case: Base case + Proposed House Development .

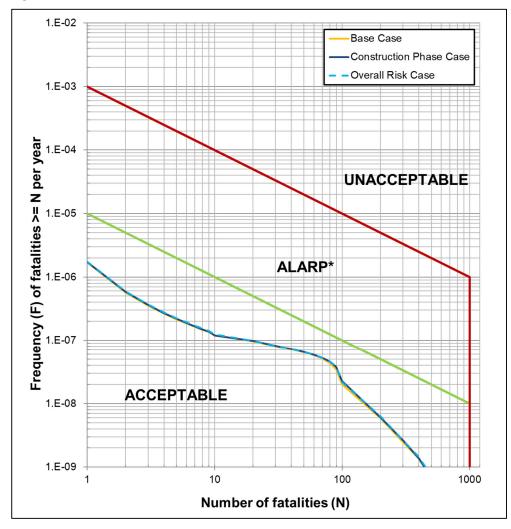


Figure 7.3 Societal Risk of Different Cases

No. of Fatalities	Base Case	Construction Phase Case	Overall Risk Case
1	1.70E-06	1.72E-06	1.73E-06
2	5.72E-07	5.85E-07	5.91E-07
3	3.55E-07	3.63E-07	3.70E-07
4	2.65E-07	2.71E-07	2.76E-07
5	2.15E-07	2.20E-07	2.25E-07
6	1.86E-07	1.89E-07	1.94E-07
7	1.64E-07	1.67E-07	1.71E-07
8	1.48E-07	1.50E-07	1.55E-07
9	1.37E-07	1.38E-07	1.43E-07
10	1.19E-07	1.20E-07	1.24E-07
20	9.63E-08	9.76E-08	9.83E-08
30	8.04E-08	8.17E-08	8.12E-08
40	7.17E-08	7.24E-08	7.28E-08
50	6.44E-08	6.52E-08	6.56E-08
60	5.80E-08	5.89E-08	5.92E-08
70	5.10E-08	5.21E-08	5.24E-08
80	4.36E-08	4.58E-08	4.60E-08
90	3.45E-08	3.79E-08	3.80E-08
100	2.00E-08	2.25E-08	2.19E-08
200	5.88E-09	6.02E-09	6.23E-09
300	2.46E-09	2.62E-09	2.63E-09
400	1.34E-09	1.37E-09	1.44E-09
500	6.69E-10	6.72E-10	7.33E-10

Table 7.1 FN values for Different Scenarios

7.2.2.2 The F-N pairs show that the risks posed by the high pressure gas pipeline on the residents of the Proposed House Development are within Acceptable Region. Hence, no mitigation measure is proposed.

7.2.3 **Potential Loss of Life**

7.2.3.1 The Potential Loss of Life (PLL) value is the summation of the product of each F-N pair. The PLL values for different scenarios of the Proposed House Development are shown in **Table 7.2.**

	Base case		Construction Phase Case		Overall risk case	
Scenarios	PLL (per year)	% of Total PLL	PLL (per year)	% of Total PLL	PLL (per year)	% of Total PLL
Fireball	4.69E-06	40%	4.84E-06	40%	4.82E-06	40%
Jetfire-Pipeline (10mm)	1.09E-11	0%	1.10E-11	0%	1.09E-11	0%
Jetfire-Pipeline (25mm)	1.01E-09	0%	1.03E-09	0%	1.05E-09	0%
Jetfire-Pipeline (50mm)	8.38E-09	0%	8.59E-09	0%	9.75E-09	0%
Jetfire-Pipeline (100mm)	4.20E-08	0%	4.29E-08	0%	4.85E-08	0%
Toxicity	4.77E-07	4%	5.10E-07	4%	4.87E-07	4%
Flashfire-Pipeline (10mm)	2.30E-08	0%	2.30E-08	0%	2.30E-08	0%
Flashfire-Pipeline (25mm)	4.31E-07	4%	4.32E-07	4%	4.31E-07	3%
Flashfire-Pipeline (50mm)	8.15E-07	7%	8.26E-07	7%	8.27E-07	7%

 Table 7.2
 Breakdown of PLL values for Different Scenarios

Application for Amendment of Plan under Section 12A of the Town Planning Ordinance (Cap. 131) to Rezone the Application Site from "Green Belt" to "Residential (Group C)1" for Proposed House Development at Various Lots in D.D. 244 and Adjoining Government Land, Nam Pin Wai, Sai Kung Quantitative Risk Assessment for High Pressure Town Gas Pipeline

	Base case		Construction Phase Case		Overall risk case	
Scenarios	PLL (per	% of Total	PLL (per	% of Total	PLL (per	% of Total
	year)	PLL	year)	PLL	year)	PLL
Flashfire-Pipeline (100mm)	1.67E-06	14%	1.72E-06	14%	1.79E-06	15%
Flashfire-Pipeline (Rupture)	3.57E-06	31%	3.68E-06	30%	3.73E-06	31%
Total	1.17E-05	100%	1.21E-05	100%	1.22E-05	100%

8 Conclusion

- **8.1.1.1** A Quantitative Risk Assessment (QRA) of the risk associated with the HKCG high pressure town gas pipeline has been conducted. The assessment was conducted with the consideration of current mitigating measures imposed by HKCG on the high pressure gas pipeline.
- **8.1.1.2** The societal risk expressed in the form of FN curves for both construction and operational phase lies within the "Acceptable" region of Hong Kong Risk Guidelines. The tolerable risk is mainly due to the background population instead of the population induced by the Proposed House Development. The maximum offsite individual risk is found to comply with Risk Guidelines for Hong Kong. No specific mitigation measure is therefore required.
- **8.1.1.3** By comparing the current results with the result without the construction of the Proposed House Development, it shows that the risk induced by the Proposed House Development is insignificant.

9 **References**

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- [3] Centamap website: <u>http://hk.centamap.com/gc/home.aspx</u>
- [4] School database website: <u>https://www.schooland.hk/</u>
- [5] Education Bureau, Student Enrolment Statistics, 2021/22
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- [8] MOS EIA, EIA Study of East Rail Extensions Tai Wai to Ma On Shan, 2000
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- [12] Institution of Gas Engineers & Managers, IGEM/TD/1 Edition 5– Steel pipelines for high pressure gas transmission,
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- [15] Buildings Department, Code of Practice for Fire Safety in Buildings 2011 (version Oct 2015)
- [16] EIA study of Operation of the Existing Tai Lam Explosives Magazine at Tai Shu Ha, Yuen Long for Liantang / Heung Yuen Wai Boundary Control Point Project, 2015
- [17] Carter, D. A. (1991). Aspects of risk assessment for hazardous pipelines containing flammable substances. *Journal of Loss Prevention in the Process Industries*, 4(2), 68-72.

Appendix A

Reply from The Hong Kong and China Gas Company Limited





The Hong Kong and China Gas Company Limited

		Technical Specification for the	existing HPTGP running along Hiram's Highway
		Parameter	Specification
		Pipe Diameter (Nominal)	750mm
28 December 2023	Your ref:	Pipe wall thickness	12.7mm
	Our ref: SM/a02/23/00229/MS	Design Pressure	35 barg
As. Jane Lau		Maximum Operating Pressure	35 barg
Arup		Hydraulic Test Pressure	900 psi
evel 5, Festival Walk		Pipe Material	Steel
0 Tat Chee Avenue		External Coating	3000 microns 3 layers polyethlyene coating
owloon Tong, KLN		Internal Coating	50 micron Two Pack Epoxy
· · · · M. I · · ·		Year of Construction	2004-2007
ear Ms. Lau		Backfilling Material	Surrounded by 150mm Thick Zone 2 fresh sand
oposed Housing Developn Ind, Nam Pin Wai, Sai Ku	nent at Various Lots in D.D. 244 and Adjoining Government	Cathodic Protection	Cathodic Protection System - Sacrificial Anode at about 300 m Interval
Request for Information on High Pressure Gas Pipeline and Offtake stations/		Minimum Depth	1.1m
Regulation Stations		Material Grading (Pipe/ Fitting)	API 5L X52
		Jointing Method	Butt Welding
ference is made to your em	ail on 13 December 2023 in relation to the captioned subject.	Welding Specification	Welding complied with BS 4515 & BGC/PS/P2
2		Non-Destructive Test of Jointing	100% X-Ray
A copy of technical information and drawings of the existing High Pressure 750mm along			Upstream:
Hiram's Highway in the concerned area are enclosed for your action.			BV30228 Ta Ho Tun Road
ou are advised to provide or	ur Company a copy of the Quantitative Risk Assessment report		Valve near the site boundary:
for review and comment.		Isolation Valves	BV30227 New Hiram's Highway
Should you have any further enquiry, please feel free to contact Ms. Mandy Sin at 9803 8817			Downstream:
me at 2765 5622.			BV30235 Clear Water Bay Road
Thank you for your kind attention.		Pipe Length between upstream and downstream isolation valves	5.6km

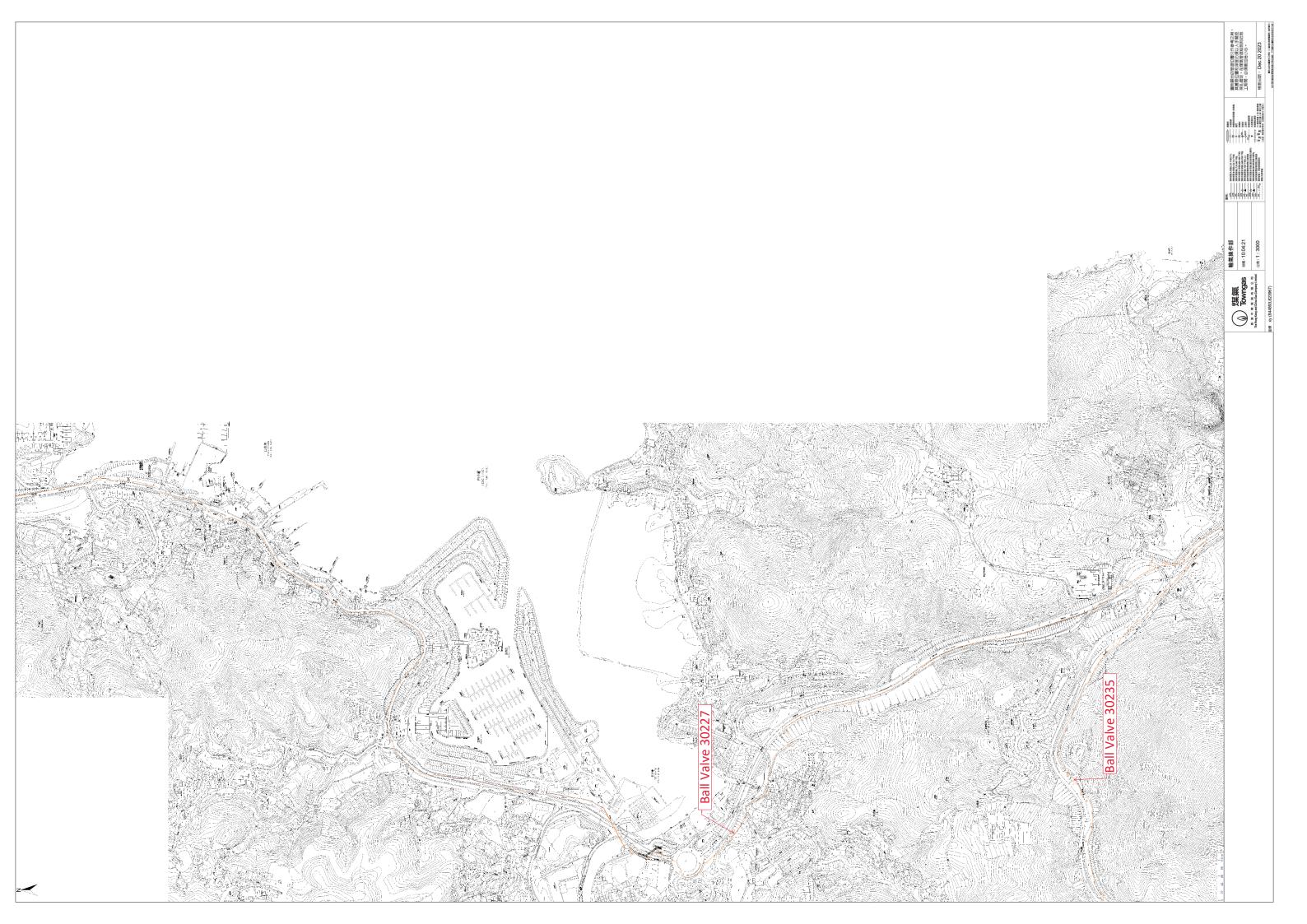
Yours sincerely

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Jacqueline T Y Hui Senior System Maintenance Manager

JH/MS/wl

Encl.



Appendix B

Population Data Adopted

Table 1. Population Assumption

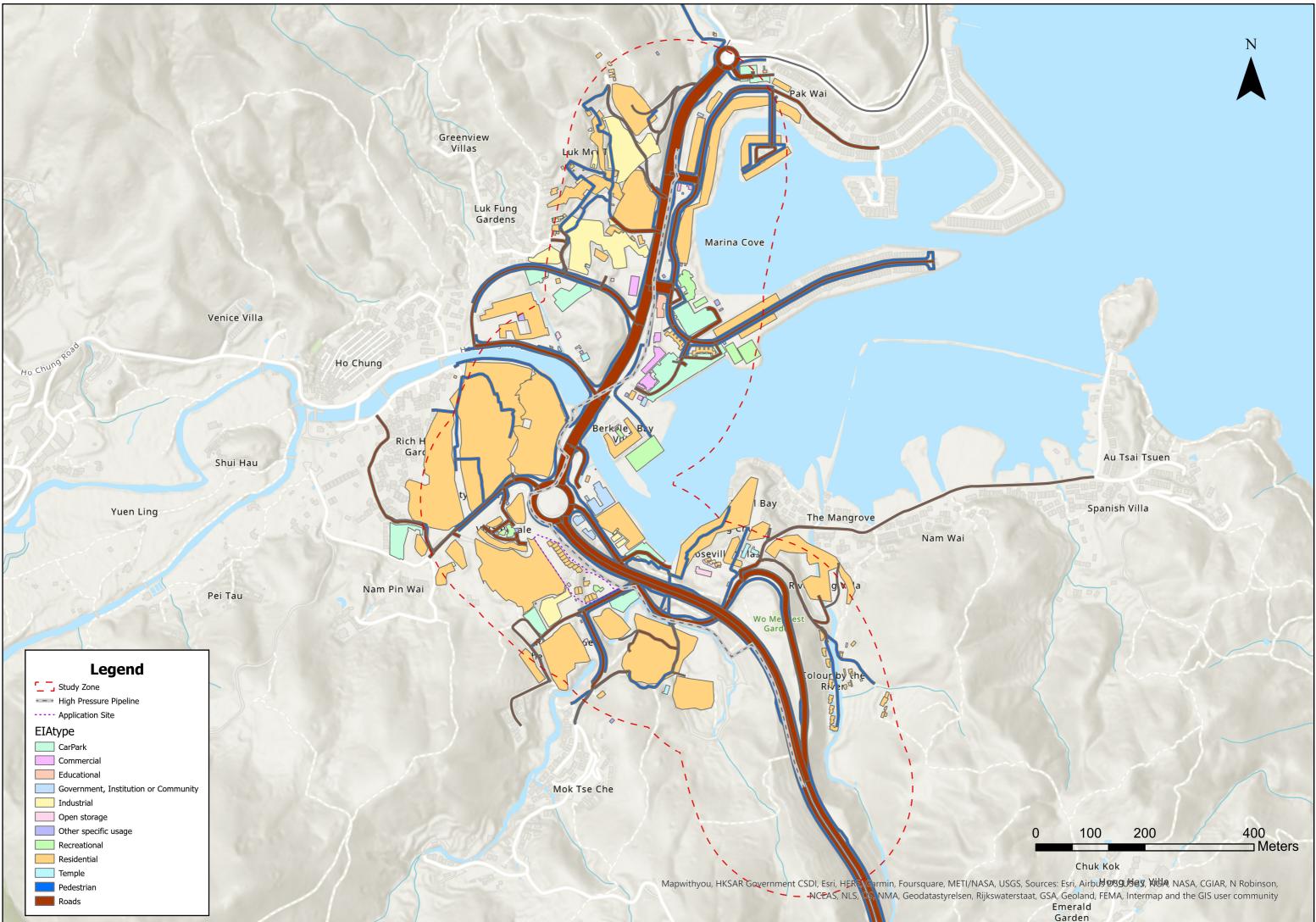
Population Type	Reference
Residential	• Year 2021 Census was adopted, a population of 3.5 per unit in Tertiary Planning Unit 823 is assumed according to the census information.
	within Sai Kung Central District Council Constituency Area for conservative approach.
	• For most of the high-rise buildings, the total number of units are made reference to Centamap website.
	• For population in village house, it is assumed that each floor has one household. The population of each village house is determined by multi-
	domestic household size.
Educational	• School within the CZ are listed as below:
	- The Woodland Sai Kung Pre-school
	• The schools' population is estimated according to the information from school database website (https://www.schooland.hk/), and school off
Road traffic population	Road traffic is based on the information provided by Traffic Consultant.
	• The estimated population is determined by the sum of vehicle type composition at the nearest Annual Traffic Census Station Core Station
	(occupancy).
Temple ^[1]	Population estimation based on the size of the temple:
	Large Size: 100 people
	Medium Size: 50 people
	Small Size: 10 people
Recreational / Open Space ^[1]	• Population estimation based on the size and the purpose of the entertainment ground:
	Large Size: 200 people
	Medium Size: 100 people
	Small Size: 50 people
	Very Small Size: 10 people
Office (Administration) / Commercial /	• Population is determined by assuming 9 m ² GFA/ person according to Code of Practice for Fire Safety in Buildings 2011 (version Oct 2015)
Industry	• Population is determined by assuming 300 workers/ha for Rural-Based Industrial Use (RI) according to HKPSG (Ch5, Table 2)
Open Storage	• Population is determined by assuming 700 m ² /worker for Warehouse according to HKPSG (Ch5, Table 2)
Car Park	• It is assumed that each parking space has 0.2 people. If the number of parking space is not provided, the number of parking space is determined at the number of parking space is determined.
	the typical parking area of private cars which its length and width are 5m and 2.5m respectively.
Government, Institution or Community	• Population estimation based on the purpose of the station ^[1] :
	Central Refuse Station: 5 people
	Refuse Collection Point: 2 people
	Sewage Treatment works / Toilet / Electric sub-station / pumping station: No people
	The population apart from government station is estimated according to the information from their official websites

n. Same assumption is adopted for the population nultiplying the number of floors with the average official websites. tation 5017 multiply by the persons per vehicle 15) (Class 4a, Offices) ermined by dividing the area of the car park with

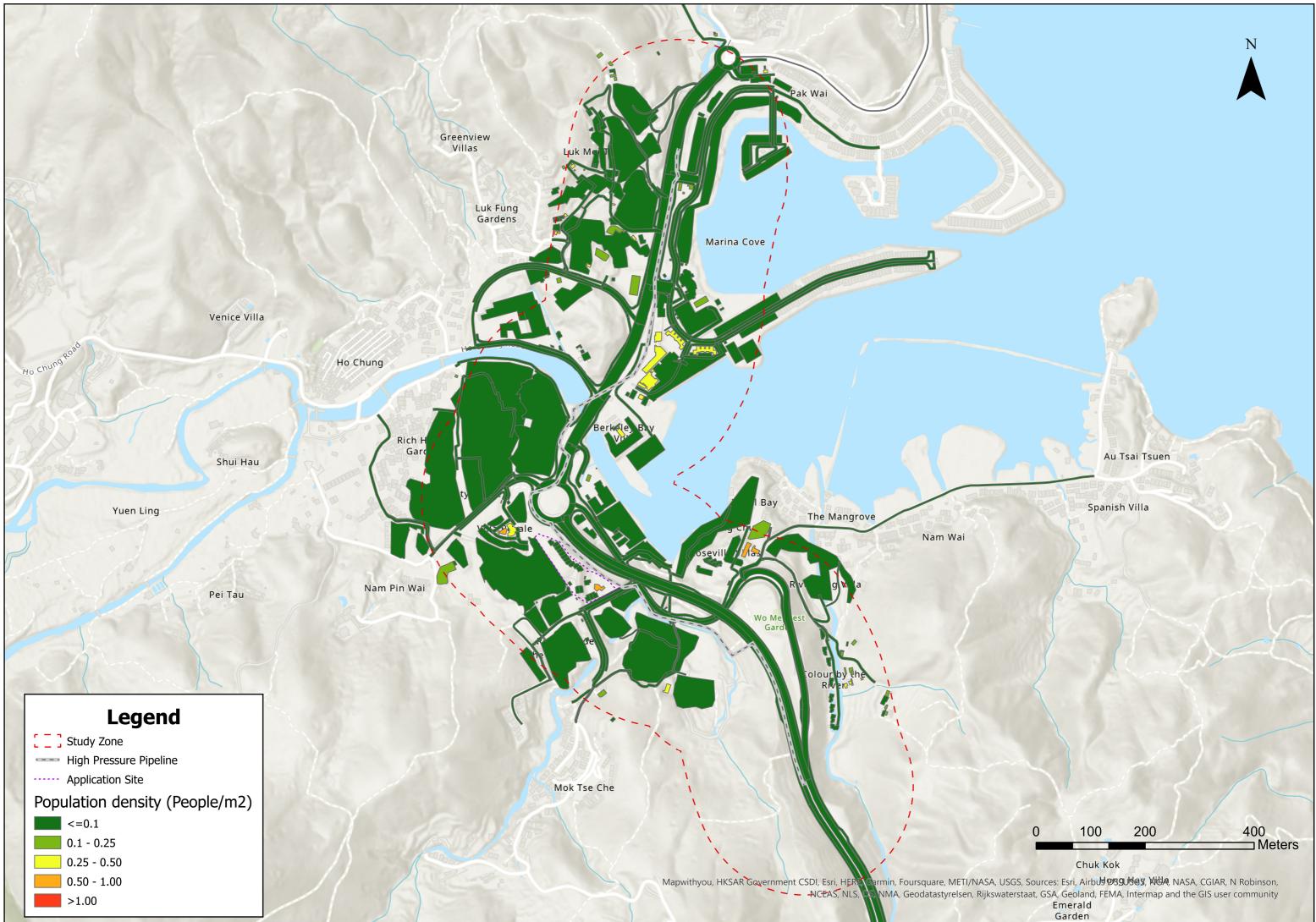
Population Type	Reference
Pedestrian	• Population estimation is based on number of people in Nam Pin Wai Road, Luk Mei Tsuen Road, Hiram's Highway, New Hiram's Highway
	• Population density at difference area listed as below:
	Nam Wai Road: 0.00328 person/m ²
	Near Planned Development Area (i.e. New Hiram's Highway): 0.00821 person/m ²
	Ho Chung New Village(i.e. Nam Pin Wai Road): 0.00482 person/m ²
	Marina Cove (i.e. Hiram's Highway): 0.01328 person/m ²
	Near Industrial Area (i.e. Luk Mei Tsuen Road): 0.00330 person/m ²

Notes: Reference is made to an approved EIA Study on Hong Kong Section of Guangzhou – Shenzhen – Hong Kong Express Rail Link.

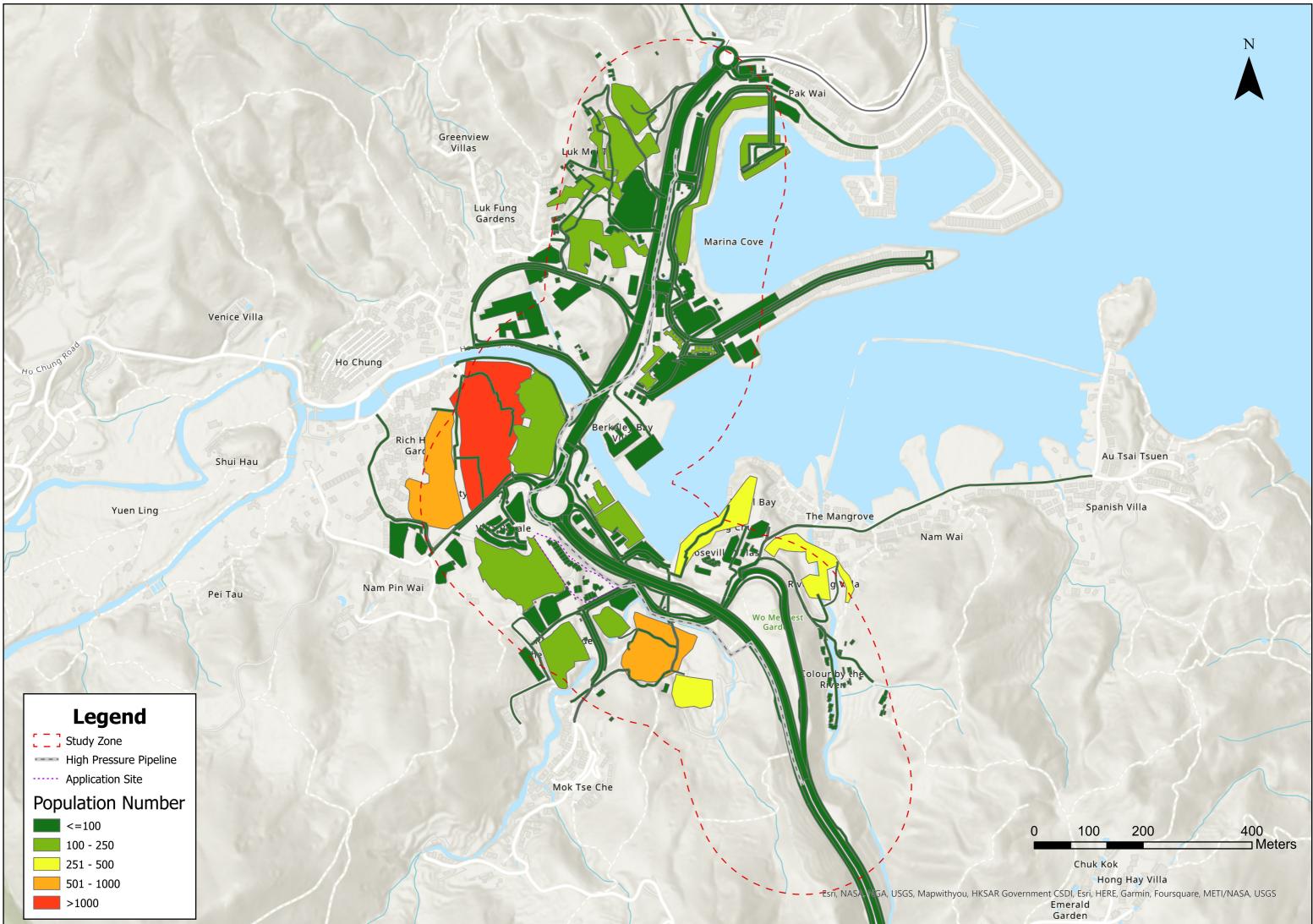
way and Nam Wai Road.



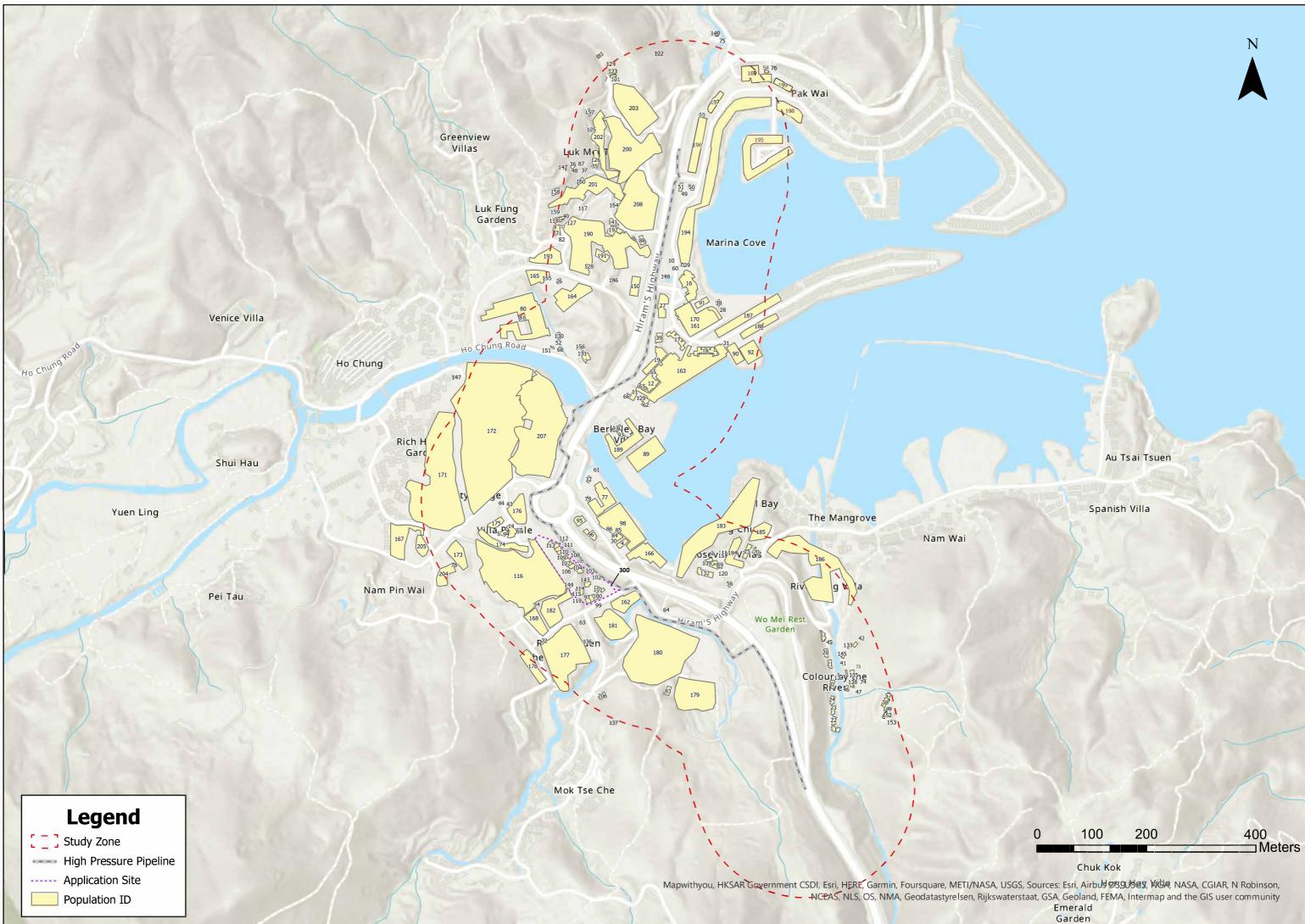














Population Data

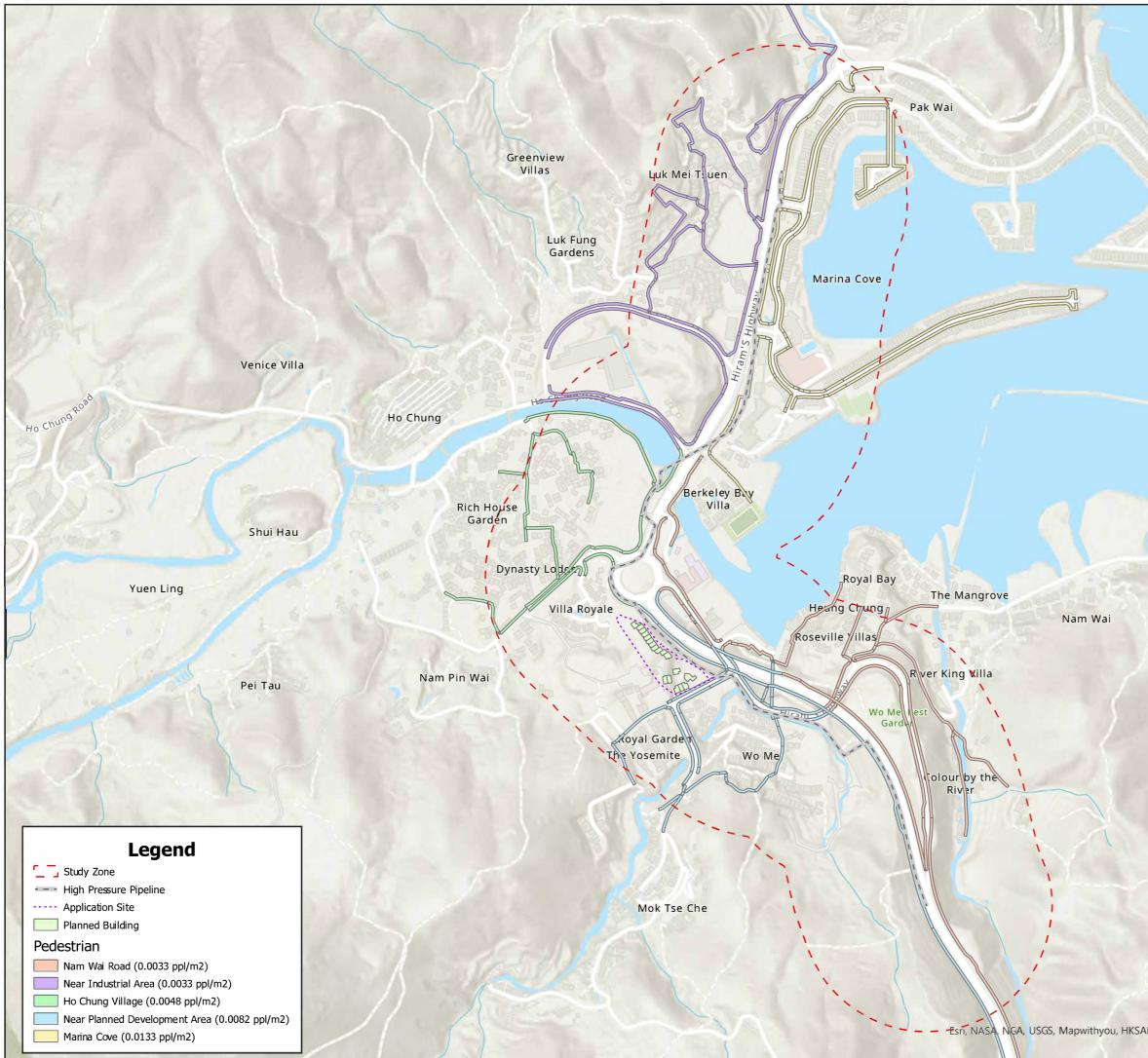
ID	Name	Туре	Floor	Unit	Projected Population	Population Density
0	Colour by the River House 3	Residential	1	1	4	0.0409
1	Colour by the River House 7	Residential	1	1	4	0.0329
2	Ho Chung Che Kung Temple	Temple	1	1	10	0.0625
3	Roseville Villas Block 1	Residential	1	1	4	0.0589
4	Winfield Paint LTD	Industrial	1	1	6	0.0332
5	Villa Royale Club House	Recreational	1	1	10	0.5761
6	Residential Area Near Luk Cheung Road	Residential	3	3	11	0.1721
7	Residential Area Near Luk Cheung Road	Residential	3	3	11	0.2455
8	Residential Area Near Wing Tai Hin	Residential	3	3	11	0.2748
9	Residential Area Near Luk Fung Garden	Residential	3	3	11	0.0826
10		Other specific usage	1	1	0	0.0000
11	Residential Area Near Marina Cove Shopping Centre	Residential	3	3	11	0.0785
12		Commercial	1	1	167	0.2873
13	Open Storage	Open storage	1	1	1	0.0191
14	Villa Royale Club House	Recreational	1	1	100	0.3807
15	Roseville Villas Block 2	Industrial	1	1	3	0.0440
16	Club Marina Cove	Recreational	1	1	100	0.0902
17	Panoramic Rise	Residential	6	36	126	0.3250
18	Diaramic Rise	Residential	6	36	126	0.3153
19	Marina Cove Shopping Centre	Commercial	1	1	212	0.2879
20	Colour by the River House 1	Residential	1	1	4	0.0409
21	Colour by the River House 2	Residential	1	1	4	0.0409
22	Colour by the River House 6	Residential	1	1	4	0.0395
23	Colour by the River House 5	Residential	1	1	4	0.0395
24	Colour by the River House 4	Residential	1	1	4	0.0395
25	Wo Mei Tsung Tsin Church	Temple	2	2	100	0.5029
26	Residential Area Near Ho Chung North Road Carpark	Residential	3	3	11	0.1650
27	The Woodland Sai Kung Pre-school	Educational	1	1	40	0.0653
28		Other specific usage	1	1	0	0.0000
29		Other specific usage	1	1	0	0.0000
30	Winfield Paint LTD	Industrial	1	1	6	0.0358
31		Other specific usage	1	1	0	0.0000
32	Residential Area Near Haven of Hope Christian Association Ho Chung Welfare Facilities Building	Residential	3	3	11	0.1617
33	Colour By The River House 1	Residential	3	3	11	0.0990
34	Pump House	Government, Institution or Community	1	1	0	0.0000
35	Industrial Area	Industrial	1	1	1	0.0414
36	Residential Area Near Greenview Villas	Residential	3	3	11	1.2988
37	Residential Area Near Greenview Villas	Residential	3	3	11	2.1909
38		Other specific usage	1	1	0	0.0000
39		Commercial	1	1	59	0.2901
40	Residential Area Near Greenview Villas	Residential	3	3	11	0.4085
41	Residential Area Near Colour By the River	Residential	1	1	4	0.1143
42	Residential Area Near Colour By the River	Residential	3	3	11	0.2292
43		Other specific usage	1	1	0	0.0000
44		Other specific usage	1	1	0	0.0000
45	Residential Area Near Colour By the River	Residential	3	3	11	2.4735
46	Residential Area Near Colour By the River	Residential	3	3	11	0.2585

ID	Name	Туре	Floor	Unit	Projected Population	Population Density
47	Residential Area Near Colour By the River	Residential	3	3	11	0.3056
48	Residential Area Near Greenview Villas	Residential	3	3	11	2.1360
49		Other specific usage	1	1	0	0.0000
50	Office	Commercial	1	1	9	0.1120
51	Office	Commercial	1	1	10	0.1184
52		Other specific usage	1	1	0	0.0000
53	Industrial Area	Industrial	1	1	3	0.0321
54	Public Toilet	Government, Institution or Community	1	1	0	0.0000
55	Public Toilet	Commercial	1	1	9	0.2922
56	Public Toilet	Government, Institution or Community	1	1	0	0.0000
57	Residential Area Near Colour By the River	Residential	3	3	11	0.1821
58	Residential Area Near Colour By the River	Residential	3	3	11	0.0802
59	Electric Substation	Government, Institution or Community	1	1	0	0.0000
60		Other specific usage	1	1	0	0.0000
61		Other specific usage	1	1	0	0.0000
62	Electric Substation	Government, Institution or Community	1	1	0	0.0000
63		Other specific usage	1	1	0	0.0000
64		Other specific usage	1	1	0	0.0000
65		Commercial	1	1	23	0.2979
66		Other specific usage	1	1	0	0.0000
67		Other specific usage	1	1	0	0.0000
68	Electric Substation	Government, Institution or Community	1	1	0	0.0000
69	Roseville Villas Block 3	Residential	1	1	4	0.0603
70	Wo Mei Tsung Tsin Church	Temple	2	2	100	0.8766
71	Residential Area Near Greenview Villas	Residential	3	3	11	0.5967
72		Other specific usage	1	1	0	0.0000
73	Residential Area Near Colour By the River	Residential	3	3	11	0.2342
74	Residential Area Near Colour By the River	Residential	3	3	11	0.6668
75	Residential Area Near Hing Keng Shek Road	Residential	1	1	4	0.1771
76	Residential Area Near Pak Wai	Residential	3	3	11	0.3262
77	Sai Kung Central Primary School	Government, Institution or Community	1	1	0	0.0000
78	Industrial Area	Industrial	1	1	2	0.0504
79	Electric Substation	Government, Institution or Community	1	1	0	0.0000
80	A/SK-HC/131 Planned Area	Residential	2	19	70	0.0132
81		Other specific usage	1	1	0	0.0000
82	Residential Area Near Greenview Villas	Residential	3	3	11	0.4118
83	Immaculate Conception Chapel	Temple	2	2	50	0.3914
84	Industrial Area	Industrial	1	1	1	0.1832
85	Industrial Area	Industrial	1	1	1	0.0607
86	Industrial Area	Industrial	1	1	1	0.0312
87	Residential Area Near Greenview Villas	Residential	3	3	11	0.2589
88	Residential Area Near Luk Mei Tsuen Road	Residential	1	1	4	0.0299
89	Soccer Pit	Recreational	1	1	50	0.0224
90	Tennis Court	Recreational	1	1	10	0.0159
91	Swimming Pool	Recreational	1	1	50	0.1893
92	Tennis Court	Recreational	1	1	10	0.0097
93	Swimming Pool	Recreational	1	1	50	0.4112
94	Swimming Pool	Recreational	1	1	10	0.1022
95	Planned Public Untility Installation	Government, Institution or Community	1	1	0	0.0000

ID	Name	Туре	Floor	Unit	Projected Population	Population Density
96	Planned Public Untility Installation	Government, Institution or Community	1	1	0	0.0000
97	Planned Development House 15	Residential	3	1	4	0.0457
98	DD214 1003 Planned Development	Residential	6	40	140	0.0417
99	Planned Development House 16	Residential	3	1	4	0.0560
100	Planned Development House 17	Residential	3	1	4	0.0456
101	Planned Development Clubhouse	Recreational	3	1	200	1.3292
102	Planned Development House 14	Residential	3	1	4	0.0457
103	Planned Development House 11	Residential	3	1	4	0.0423
104	Planned Development House 10	Residential	3	1	4	0.0614
105	Planned Development House 9	Residential	3	1	4	0.0536
106	Planned Development House 8	Residential	3	1	4	0.0536
107	Planned Development House 7	Residential	3	1	4	0.0536
108	Planned Development House 6	Residential	3	1	4	0.0536
109	Planned Development House 5	Residential	3	1	4	0.0536
110	Planned Development House 4	Residential	3	1	4	0.0536
111	Planned Development House 3	Residential	3	1	4	0.0536
112	Planned Development House 2	Residential	3	1	4	0.0536
113	Planned Development House 1	Residential	3	1	4	0.0535
114	Planned Development House 13	Residential	3	1	4	0.0484
115	Planned Development House 12	Residential	3	1	4	0.0484
116	A/DPA/SK-HC/30 Planned Area	Residential	3	51	179	0.0141
117	Residential Area Near Greenview Villas	Residential	1	1	4	0.7486
118	Industrial Area	Industrial	1	1	1	0.0794
119	Open Storage	Open storage	1	1	1	0.1433
120	Open Storage	Open storage	1	1	1	0.0081
121	Residential Area Near Luk Cheung Road	Residential	1	1	4	0.1518
122		Other specific usage	1	1	0	0.0000
123	Residential Area Near Luk Cheung Road	Residential	1	1	4	0.0612
124	Residential Area Near Luk Cheung Road	Residential	1	1	4	0.1011
125	Industrial Area	Industrial	1	1	1	0.0307
126	Industrial Area	Industrial	1	1	9	0.0311
127	Industrial Area	Industrial	1	1	1	0.0439
128	Grand Marshal Temple	Temple	1	1	10	0.3116
129		Commercial	1	1	20	0.2957
130	Open Storage	Open storage	1	1	1	0.0107
131		Other specific usage	1	1	0	0.0000
132	Open Storage	Open storage	1	1	1	0.0034
133	Open Storage	Open storage	1	1	1	0.0433
134	Residential Area Near Colour By the River	Residential	1	1	4	0.1290
135	Residential Area Near Colour By the River	Residential	1	1	4	0.1307
136	Open Storage	Open storage	1	1	1	0.0265
137		Other specific usage	1	1	0	0.0000
138	Residential Area Near Colour By the River	Residential	1	1	4	0.2354
139	Open Storage	Open storage	1	1	1	0.0190
140	Open Storage	Open storage	1	1	1	0.0807
141	Industrial Area	Industrial	1	1	4	0.0301
142	Residential Area Near Greenview Villas	Residential	1	1	4	0.1671
143		Other specific usage	1	1	0	0.0000
144	Open Storage	Open storage	1	1	1	0.0327

ID	Name	Туре	Floor	Unit	Projected Population	Population Density
145	Open Storage	Open storage	1	1	1	0.0343
146	Open Storage	Open storage	1	1	1	0.0317
147	Residential Area Near Ho Chung New Village	Residential	1	1	4	0.1969
148		Other specific usage	1	1	0	0.0000
149	Residential Area Near Colour By the River	Residential	1	1	4	0.1524
150	Kin Hing Plant Nursery Engineering Office	Commercial	1	1	59	0.1117
151		Other specific usage	1	1	0	0.0000
152	Residential Area Near Colour By the River	Residential	1	1	4	0.1469
153	Residential Area Near Colour By the River	Residential	1	1	4	0.0743
154	Residential Area Near Luk Mei Tsuen Road	Residential	1	1	4	0.2920
155	Open Storage	Open storage	1	1	1	0.0518
156	Open Storage	Open storage	1	1	1	0.0269
157	Residential Area Near Greenview Villas	Residential	1	1	4	0.0441
158	Residential Area Near Greenview Villas	Residential	1	1	4	0.0314
159	Industrial Area	Industrial	1	1	1	0.0301
160	Industrial Area	Industrial	1	1	3	0.0375
161	Marina Cove Outdoor Car Park	CarPark	1	1	45	0.0161
162	Wo Mei Public Parking	CarPark	1	1	19	0.0163
163	Marina Cove Car Park	CarPark	1	1	97	0.0161
164	Carpark	CarPark	1	1	29	0.0164
165	LM Auto Carpark	CarPark	1	1	13	0.0160
166	Heung Chung Road Carpark	CarPark	1	1	25	0.0162
167	Carpark	CarPark	1	1	32	0.0162
168	Carpark	CarPark	1	1	17	0.0169
169	Pak Wai Village Carpark	CarPark	1	1	20	0.0163
170	Marina Cove Outdoor Car Park	CarPark	1	1	43	0.0162
171	Residential Area Near Ho Chung New Village	Residential	3	211	739	0.0547
172	Residential Area Near Ho Chung New Village	Residential	3	344	1204	0.0461
173	Residential Area Near Villa Royale	Residential	3	19	67	0.0612
174	Villa Royale	Residential	1	20	70	0.0645
175	Residential Area Near Villa Royale	Residential	1	7	25	0.0790
176	Residential Area Near Villa Royale	Residential	3	21	74	0.0580
177	Royal Garden	Residential	3	64	224	0.0375
178	Residential Area Near Royal Garden	Residential	3	16	56	0.0547
179	Residential Area Near Mok Tse Che Road	Residential	3	94	329	0.0846
180	Residential Area Near Mok Tse Che Road	Residential	3	195	683	0.0608
181	Residential Area Near Wo Mei Public Parking	Residential	3	40	140	0.0611
182	Industrial Area	Industrial	1	9	55	0.0305
183	Residential Area Near Greenville	Residential	3	105	368	0.0521
184	Roseville Villas	Residential	3	12	42	0.0434
185	Residential Area Near Nam Wai Road	Residential	3	26	91	0.1040
186	King River Villa	Residential	3	89	312	0.0462
187	Marina Cove	Residential	1	24	84	0.0418
188	Marina Cove	Residential	1	13	46	0.0497
189	Berkeley Bay Villa	Residential	1	17	60	0.0358
190	Industrial Area	Industrial	1	44	234	0.0300
191	Residential Area Near Luk Mei Tsuen Road	Residential	3	10	35	0.1065
192	Residential Area Near Luk Mei Tsuen Industrial Area	Residential	1	9	32	0.1094
193	Industrial Area	Industrial	1	5	36	0.0303

ID	Name	Туре	Floor	Unit	Projected Population	Population Density
194	Marina Cove	Residential	1	58	203	0.0290
195	Marina Cove	Residential	1	33	116	0.0364
196	Marina Cove	Residential	1	18	63	0.0392
197	Marine Cove	Residential	1	5	18	0.0398
198	Marine Cove	Residential	1	7	25	0.0257
199	Residential Area Near Pak Wai	Residential	1	5	18	0.0486
200	Industrial Area	Industrial	1	18	190	0.0300
201	Residential Area Near Luk Mei Lane	Residential	3	30	105	0.0339
202	Residential Area Near Luk Mei Lane	Residential	3	42	147	0.0780
203	Residential Area Near Luk Cheung Road	Residential	3	31	109	0.0252
204	Residential Area Near Villa Royale	Residential	3	24	84	0.1050
205	Dynasty Lodge	Residential	3	13	46	0.0759
206	Residential Area Near Mok Tse Che Road	Residential	3	6	21	0.1795
207	A/SK-HC/340 Planned Area	Residential	6	48	168	0.0132
208	A/SK-HC/316 Planned Area	Residential	3	15	53	0.0089
300	Construction Site of Planned Development	Construction Site	1	1	100	0.0152





Au Tsai Tsuen

Spanish Villa

0 100 200 400 Meters Chuk Kok Hong Hay Villa Esri, NASA, NGA, USGS, Mapwithyou, HKSAR Government CSDI, Esri, HERE, Garmin, Foursquare, METI/NASA, USGS Emerald Garden





5017 - Clear Water Bay Rd (from On Sau Road to Hiram's Highway)

Design Speed	50	km/hr		
	East Bound	West Bound	Total	
A.A.D.T	13800	139	920	27720
AM Peak Hour	720	1()70	1790
% of vehicle at AM Peak				

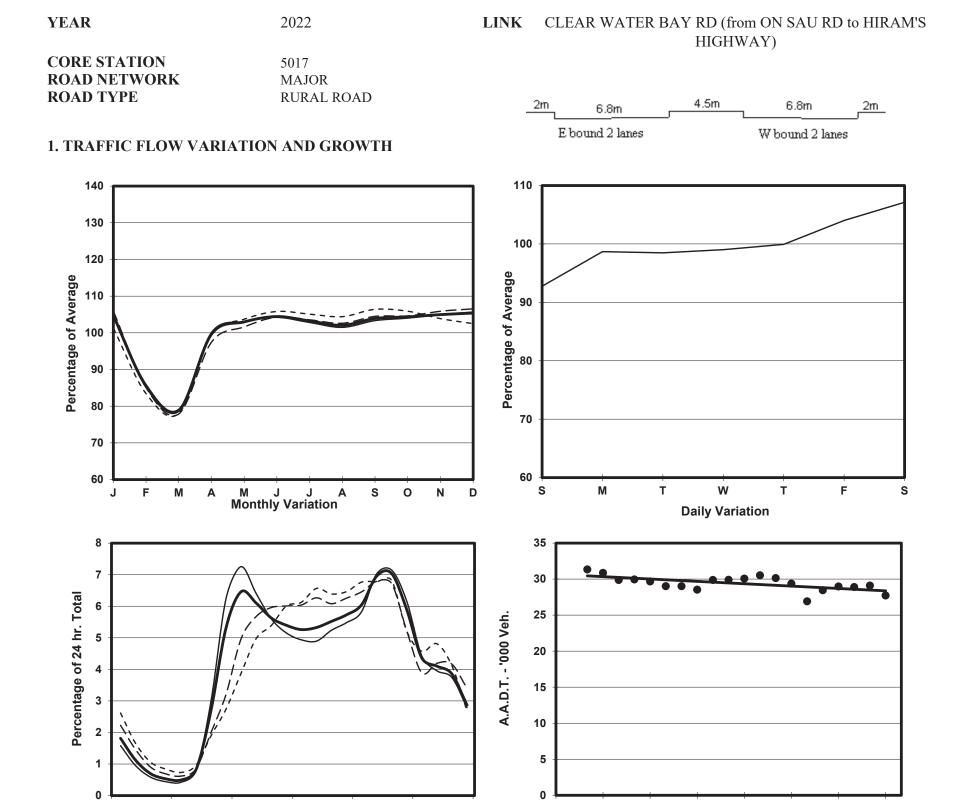
Weighted average 3.1455 ppl/veh

	MC	РС	Taxi	PrivateLB	PLB	LGV	HGV	Non-Fr. Bus	SD	DD
0800-0900 Peak Hour	Motor cycle	Private Car	Taxi	Private LB	PLB	Light Goods vehicle	M&H Goods vehicle	Non Fr. Bus	Fr. Bus (SD)	Fr. Bus (DD)
Pro (%)	6.9	58.9	9.4	0.6	5.7	14.1	1.8	1.5	0	1.2
Ocp	1.1	1.3	2	3.5	16.4	1.8	1.5	24.3	0	42.9

TPEDM 2019

Year	2019		20	026	2031		
	Population	Employment	Population	Employment	Population	Employment	
Summary By Sub-Region:							
Southeast New Territories	68900	27250	65800	27750	59750	28100	

Growth rate: -1.18 %



08 12 00 04 16 20 24 2004 2007 2010 2013 2016 2001 **Annual Growth Hourly Variation** Mon.- Fri. All day ----· Sat. ----- Sun. ____



Parameter	All - Day	Mon Fri.	Sat.	Sun.
EAST BOUND				
A.A.D.T.	13800	13840	14780	12960
R 12 / 24 - %	66.5	66.1	67.5	67.5
R 16 / 24 - %	88.7	89.4	87.2	87
AM Peak Hour	0800-0900	0800-0900	0900-1000	0900-1000
One-way flow at AM peak hour	720	780	740	590
T - % (AM)	-	5.9	-	-
PM Peak Hour	1800-1900	1800-1900	1800-1900	1600-1700
One-way flow at PM peak hour	1050	1130	970	880
T - % (PM)	-	2.7	-	-
Prop.of commercial vehicles - 16 hr.	-	5	-	-

2019

2022

WEST BOUND

10000	10000	1 50 50	10000
13920	13980	15070	12860
75	76.3	73.3	70.3
89.2	89.6	88.5	88.2
0800-0900	0800-0900	0900-1000	0900-1000
1070	1240	950	700
-	3.1	-	-
1700-1800	1700-1800	1700-1800	1800-1900
1000	1010	1070	980
-	4	-	-
-	4	-	-
	89.2 0800-0900 1070 - 1700-1800	75 76.3 89.2 89.6 0800-0900 0800-0900 1070 1240 - 3.1 1700-1800 1700-1800 1000 1010	$\begin{array}{cccccccccccccccccccccccccccccccccccc$

3. OTHER INFORMATION AND COMMENT

A1-56

Time					С	lass of	vehicl	e			
		Motor	Private	Taxi	Private	PLB	Good	s veh.	Non	Fr.	Bus
		Cycle	Car		LB		Light	M & H	Fr. Bus	SD	DD
0700-0800	Pro	5.5	66.3	7.6	1.3	6.9	8.4	1.3	1.7	0.0	0.9
	Оср	1.2	1.5	1.8	6.4	17.2	1.4	1.0	16.3	0.0	44.:
0800-0900	Pro	6.9	58.9	9.4	0.6	5.7	14.1	1.8	1.5	0.0	1.
Peak hour	Ocp	1.1	1.3	2.0	3.5	16.4	1.8	1.5	24.3	0.0	42.
0900-1000	Pro	2.7	62.2	10.2	0.2	6.2	11.8	3.8	2.0	0.0	1.
	Ocp	1.1	1.4	2.0	1.0	16.8	1.5	1.1	5.5	0.0	38.
1000-1100	Pro	4.3	52.4	10.7	1.0	8.1	18.6	2.9	1.2	0.0	1.
	Ocp	1.0	1.4	1.9	2.8	13.5	1.4	1.1	1.4	0.0	37.
1100-1200	Pro	3.0	54.0	10.0	1.9	7.8	17.8	2.4	1.9	0.0	1.
	Оср	1.0	1.5	2.1	1.4	11.7	1.4	1.0	1.0	0.0	40.
1200-1300	Pro	2.6	51.7	11.8	1.8	9.0	18.8	2.1	1.0	0.0	1.
	Ocp	1.2	1.3	1.9	6.4	11.1	1.5	1.3	20.5	0.0	32.
1300-1400	Pro	4.9	50.4	12.6	1.5	6.7	19.0	3.1	0.5	0.0	1.
	Оср	1.1	1.5	1.8	9.3	12.5	1.7	1.2	3.0	0.0	41.
1400-1500	Pro	4.3	48.4	13.3	1.7	5.8	18.6	4.6	1.7	0.0	1.
	Оср	1.1	1.4	1.9	1.7	14.2	1.4	1.3	1.5	0.0	31.
1500-1600	Pro	5.1	52.5	12.5	1.4	6.0	16.1	4.3	0.7	0.0	1.
	Оср	1.0	1.3	2.0	4.0	14.8	1.5	1.4	8.0	0.0	36.
1600-1700	Pro	2.0	56.0	16.6	1.1	6.1	13.4	2.9	0.7	0.0	1.
	Оср	1.1	1.4	1.6	2.0	14.7	1.6	1.4	14.7	0.0	50.
1700-1800	Pro	8.6	56.7	9.9	1.8	5.4	13.5	1.0	2.0	0.0	1.
	Оср	1.1	1.5	2.0	2.0	17.4	1.4	1.0	2.6	0.0	51.
1800-1900	Pro	5.2	67.7	9.2	0.0	6.5	7.7	1.0	1.5	0.0	1.
	Оср	1.1	1.5	2.1	0.0	18.4	1.1	1.0	33.6	0.0	51.
1900-2000	Pro	9.7	61.5	10.8	0.0	8.2	7.1	1.1	0.4	0.0	1.
	Ocp	1.1	1.4	1.9	0.0	13.5	1.5	1.2	6.5	0.0	39.
2000-2100	Pro	5.9	60.7	18.4	0.0	7.4	5.0	0.6	0.6	0.0	1.
	Оср	1.2	1.3	1.9	0.0	11.2	1.5	2.0	3.5	0.0	18.
2100-2200	Pro	3.8	60.5	18.1	0.0	8.5	6.5	0.3	1.0	0.0	1.
	Оср	1.2	1.5	1.9	0.0	13.3	1.3	1.0	1.3	0.0	19.
2200 2200	D			10.0		6.0					

4. Vehicle classification and occupancy - Monday to Friday

2200-2300	Pro	4.9	59.5	18.8	0.0	6.8	8.0	0.0	0.6	0.0	1.4
	Ocp	1.3	1.6	1.9	0.0	12.0	1.5	0.0	2.5	0.0	23.6
16 hours	Pro	5.1	58.0	12.0	0.9	6.8	12.8	2.1	1.2	0.0	1.2
	Ocp	1.1	1.4	1.9	3.9	14.4	1.5	1.2	10.8	0.0	38.5

Legend: Pro. Proportion of vehicles in % (Sum may not add up to 100% due to figure rounding)*
 Ocp. Average occupancy of vehicles including both driver and passengers*
 M&H Medium and Heavy

* All traffic data are collected from combined bounds

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Appendix C

Failure Frequencies

Failure	Hole Size	Orientation	Immediate Ignition	Delayed Ignition	Consequence	Proportion Ev	ent Frequency
1.00E-05	Leak - 100 mm	Vertical	Yes		Vertical Jet Fire	0.0067	6.65E-08
	0.19	0.5	0.07				
			No 0.93	Yes 0.372	Flash Fire	0.0329	3.29E-07
			0.55				
				No 0.628	Toxic Release	0.0555	5.55E-07
		Inclined	Yes		Inclined Jet Fire	0.0067	6.65E-08
		0.5	0.07		mennedsetme	0.0007	0.052 00
			No	Yes	Flash Fire	0.0329	3.29E-07
			0.93	0.372			
				No	Toxic Release	0.0555	5.55E-07
				0.628			
	Leak - 50 mm 0.30	Vertical 0.5	Yes 0.07		Vertical Jet Fire	0.0105	1.05E-07
	0.00	0.0					
			No 0.93	Yes 0.372	Flash Fire	0.0519	5.19E-07
				No	Toxic Release	0.0876	8.76E-07
				0.628	Toxic Release	0.0070	0.762 07
		Inclined	Yes		Inclined Jet Fire	0.0105	1.05E-07
		0.5	0.07				
			No	Yes	Flash Fire	0.0519	5.19E-07
			0.93	0.372			
				No 0.628	Toxic Release	0.0876	8.76E-07
				0.028			
	Leak -25 mm 0.30	Vertical 0.5	Yes 0.07		Vertical Jet Fire	0.0105	1.05E-07
				Yes	Flash Fire	0.0519	5.19E-07
			No 0.93	0.372	hasinnie	0.0515	5.152-07
				No	Toxic Release	0.0876	8.76E-07
				0.628			
		Inclined	Yes		Inclined Jet Fire	0.0105	1.05E-07
		0.5	0.07				
			No 0.93	Yes 0.372	Flash Fire	0.0519	5.19E-07
			0.55				
				No 0.628	Toxic Release	0.0876	8.76E-07
	Leak -10 mm	Vertical	Yes		Vertical Jet Fire	0.0010	1.00E-08
	0.20	0.5	0.01		Vertical Jet File	0.0010	1.002-08
			No	Yes	Flash Fire	0.0392	3.92E-07
			0.99	0.396			
				No	Toxic Release	0.0598	5.98E-07
				0.604			
		Inclined 0.5	Yes 0.01		Inclined Jet Fire	0.0010	1.00E-08
		0.5					
			No 0.99	Yes 0.396	Flash Fire	0.0392	3.92E-07
					Tovia Delegas	0.0508	
				No 0.604	Toxic Release	0.0598	5.98E-07
	Full Bore		Yes		Fireball	0.0030	3.00E-08
	0.01		0.3				
			No	Yes	Flash Fire	0.0020	1.96E-08
			0.7	0.28			
				No	Toxic Release	0.0050	5.04E-08
				0.72			

Appendix D

Input Parameters and Consequence Results



Audit Number: 74777 Date: 12/7/2023 Time: 12:01 PM

Input Report Workspace: NPW_Safeti_pipeline_20231207_consequence data

Study

Study

NPW_Safeti_pipeline_20231207_consequence data

Tab	Group	Field	Value
Bund, building and terrain	Terrain and bund definition	Type of terrain for dispersion	Land
		Type of pool substrate and bunds	Concrete, no bund
Toxic parameters	Indoor toxic calculations	Specify the downwind building type	Unselected
		Building type (downwind building type)	Buildings\Building type
Dispersion	Distances of interest	Distances of interest	

Scenario group

Scenario group

NPW_Safeti_pipeline_20231207_consequence data\Study\Underground Pipeline

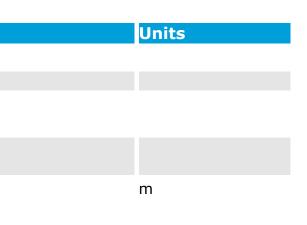
Tab	Group	Field	Value
Scenario group	Sum of probabilities for the scenario group	Probability	1.0032

CO Toxicity Vertical

Pressure vessel

NPW_Safeti_pipeline_20231207_consequence data\Study\Underground Pipeline\Scenario group

Tab	Group	Field	Value
Material	Material	Material	CARBON MONOXIDE
		Specify volume inventory?	No
		Mass inventory	26403
		Volume inventory	650.826
		Material to track	CARBON MONOXIDE
		Type of risk effects to model	Toxic and flammable
	Phase	Specified condition	Pressure/temperature





Units
kg m3
m3

Tab	Group	Field	Value	Units
		Temperature	25	degC
		Pressure (gauge)	35	bar
		Fluid state	Vapour	
		Liquid mole fraction	0	fraction
Risk	Type of risk effects to model	Jet fire modelling for horizontal releases	Horizontal jet only	
		Reduce risks for mounded / underground tanks	Νο	
	Non-ignition probabilities	Specify probability of non-ignition	Calculate non-ignition probability	
		Non-ignition probability		fraction
	Immediate ignition probabilities	Probability of immediate ignition	Stationary - use material reactivity	
		Immediate ignition probability		fraction
	Delayed ignition probabilities	Specify minimum probability of delayed ignition	Calculate minimum probability of delayed ignition	
		Minimum probability of delayed ignition		fraction
		Specify conditional explosion probability	Calculate conditional probability	
		Conditional explosion probability		fraction
	Cox-Lees-Ang and UKOOA ignition modelling	Fraction of ignition probability for immediate ignition	0.3	
		Release type for CLA / UKOOA		
Scenario	Pipe dimensions	Pipe length		m
	Release location	Elevation	0	m
		Tank head	0	m
	Direction	Outdoor release direction	Angled from horizontal impinged	
		Outdoor release angle	90	deg
)ischarge parameters	Model settings	Atmospheric expansion method	DNV recommended	
		Phase change upstream of orifice?	Disallow liquid phase change only (metastable liquid)	
	Droplet break-up mechanism	Droplet break-up mechanism - instantaneous	Use flashing correlation	
		Droplet break-up mechanism - continuous	Do not force correlation	
Short pipe	Pipe characteristics	Pipe roughness	0.045	mm
	Frequencies	Frequency of bends in pipe	0	/m
		Frequency of couplings in pipe	0	/m
		Frequency of junctions in pipe	0	/m

Tab	Group	Field	Value
	Frequencies of valves	Frequency of excess flow valves	0
		Frequency of non-return valves	0
		Frequency of shut-off valves	0
	Velocity head losses	Excess flow valve velocity head losses	0
		Non-return valve velocity head losses	0
		Shut-off valve velocity head losses	0
Time varying releases	Modelling of time-varying leaks and line ruptures	Vacuum relief valve	Operating
		Vacuum relief valve set point	0
	Inventory data for time-varying releases	Tank volume	650.826
		Tank vapour volume	650.826
		Tank liquid volume	0
		Tank liquid level	0
		Maximum vapour release height	
		Minimum mass inventory	0.1
		Maximum mass inventory	1E+09
	Safety system modelling for time- varying releases	Safety system modelling (isolation and blowdown)	No
Dispersion	Dispersion scope	Concentration of interest	1200
		Averaging time for concentration of interest	Тохіс
		Specify user-defined averaging time	No
		User defined averaging time	
	Distances of interest	Distances of interest	
	Averaging time for reports	ERPG [1 hr]	No
		IDLH [30 mins]	No
		STEL [15 mins]	No
Bund, building and terrain	Terrain and bund definition	Type of terrain for dispersion	Land
		Type of pool substrate and bunds	Concrete, no bund
	Building definition	Release building	
		In-building release?	Outdoor
		Building wake effect	None
		Wind or release angle from North	0
		Handling of droplets	Trapped

Units
/m
/m
/m

bar
m3
m3
m3
m
m
kg
kg
ppm
S
m
deg

Tab	Group	Field	Value	Units
		Indoor mass modification factor	3	
Toxic parameters	Indoor toxic calculations	Specify the downwind building type	Unselected	
		Building type (downwind building type)	Buildings\Building type	
	Exposure time data	Set averaging time equal to exposure time	Use a fixed averaging time	
		Cut-off fraction of toxic load for exposure time calculation	0.05	fraction
		Cut-off concentration for exposure time calculations	0	fraction
	Toxic contours	Number of toxic levels	1	
		Dose levels	1.3E+07	
		Probit levels	3	
		Lethality levels	0.1	fraction
	Threshold concentration (N.B. Concentrations based on mixture rather than toxic component(s))	Threshold concentration	1E+06	ppm
		Minimum fatality if threshold concentration reached	0	fraction
Explosion parameters	Explosion method (Consequence calculations only)	Explosion method	Multi-Energy: Uniform confined	
	Ignition	Supply late ignition location	No ignition location	
		Location of late ignition		m
	Vapour liquid method	Use explosion mass modification factor	Yes	
		Explosion mass modification factor	3	
ireball	Result types to calculate	Calculate probit	No	
		Calculate dose	No	
		Calculate lethality	Yes	
	Radiation levels	Number of input radiation levels	3	
		Intensity levels	4, 12.5, 37.5	kW/m2
		Probit levels	2.73, 3.72, 7.5	
		Dose levels	1.27E+06, 5.8E+06, 2.51E+07	
		Lethality levels	0.0001, 0.01, 0.99	fraction
	Parameters	Mass modification factor	3	
		Fireball maximum exposure duration	30	S
	Calculation method	Fireball model	Martinsen time varying	
		TNO model flame temperature	1726.85	degC



Tab	Group	Field	Value	Units
Jet fire	Jet fire method	Jet fire method	Cone model	
	Result types to calculate	Calculate probit	No	
		Calculate dose	No	
		Calculate lethality	No	
	Radiation levels	Number of input radiation levels	3	
		Intensity levels	4, 12.5, 37.5	kW/m2
		Probit levels	2.73, 3.72, 7.5	
		Dose levels	1.27E+06, 5.8E+06, 2.51E+07	
		Lethality levels	0.01, 0.1, 0.99	fraction
	Parameters	Rate modification factor	3	
		Jet fire maximum exposure duration	20	S
	Cone model data	Horizontal options	Use standard method	
		Correlation	Recommended	
		Flame-shape adjustment if grounded	d Yes	
	Surface emissive power	Calculation method for surface emissive power	Calculate SEP	
		Flame emissive power		kW/m2
		Emissivity fraction		fraction
ool fire	Result types to calculate	Calculate probit	No	
		Calculate dose	No	
		Calculate lethality	No	
	Radiation levels	Number of input radiation levels	3	
		Intensity levels	4, 12.5, 37.5	kW/m2
		Probit levels	2.73, 3.72, 7.5	
		Dose levels	1.27E+06, 5.8E+06, 2.51E+07	
		Lethality levels	0.01, 0.1, 0.99	fraction
	Parameters	Radiative fraction for general fires	0.4	fraction
		Pool fire maximum exposure duration	20	S

0.023 kg/s Release Rate

User defined source

NPW_Safeti_pipeline_20231207_consequence data\Study\Underground Pipeline\Scenario group\CO Toxicity Vertical

Tab	Group	Field	Value
Scenario	Release scenario	Release scenario	Leak

Application for Amendment of Plan to Rezone the Application Site from "Green Belt" to "Residential (Group C)1" for Proposed House Development at Various Lots in D.D. 244 and Adjoining Government Land, Nam Pin Wai, Sai Kung

Units

Tab	Group	Field V	alue	Units
		The number of release observers	2	
	Release observers	Release time	0, 1800	S
		Release phase	Vapour, Vapour	
		Mass flow	0.023, 0.023	kg/s
		Final velocity	330, 330	m/s
		Final temperature	25, 25	degC
		Liquid fraction	0, 0	fraction
		Droplet diameter		um
		Pool radius		m
		Pre-dilution air rate	0, 0	kg/s
		Downstream calculation status	No errors detected	
	Release location	Elevation	0	m
		Tank head	0	m
	Direction	Outdoor release direction	Angled from horizontal impinged	
		Outdoor release angle	90	deg
	Fireball emissive power	Use vessel burst pressure	No	
		Vessel burst pressure - gauge		bar
	Jet fire Miller model hole size	Orifice diameter	0	mm
Risk	Event probability (probability of this event compared with others in this group)	Event probability	0.0598	fraction
	Type of risk effects to model	Reduce risks for mounded / underground tanks	i No	
	Non-ignition probabilities	Specify probability of non-ignition	Calculate non-ignition probability	
		Non-ignition probability		fraction
	Immediate ignition probabilities	Probability of immediate ignition	Stationary - use material reactivity	
		Immediate ignition probability		fraction
	Delayed ignition probabilities	Specify minimum probability of delayed ignition	Calculate minimum probability of delayed ignition	
		Minimum probability of delayed ignition		fraction
		Specify conditional explosion probability	Calculate conditional probability	
		Conditional explosion probability		fraction
	Cox-Lees-Ang and UKOOA ignition modelling	Release type for CLA / UKOOA		
faterial	Material	Material characteristics	Toxic and flammable	
		Material to track	CARBON MONOXIDE	
		Type of risk effects to model	Toxic and flammable	
Тар	Group		alue	Units

Application for Amendment of Plan to Rezone the Application Site from "Green Belt" to "Residential (Group C)1" for Proposed House Development at Various Lots in D.D. 244 and Adjoining Government Land, Nam Pin Wai, Sai Kung

		Fireball maximum exposure duration	30	S
Гар	Group	Field Va	alue	Units
	Parameters	Mass modification factor	3	
		Lethality levels	0.0001, 0.01, 0.99	fraction
		Dose levels	1.27E+06, 5.8E+06, 2.51E+07	
		Probit levels	2.73, 3.72, 7.5	
		Intensity levels	4, 12.5, 37.5	kW/m2
	Radiation levels	Number of input radiation levels	3	
		Calculate lethality	Yes	
		Calculate dose	No	
Fireball	Result types to calculate	Calculate probit	No	
	rapour inquia methoa	Explosion mass modification factor	3	
	Vapour liquid method	Use explosion mass modification factor	Yes	
	Ignition	Location of late ignition		m
	Ignition	Supply late ignition location	No ignition location	
Explosion parameters	Explosion method	Lethality levels Explosion method	Multi-Energy: Uniform confined	Haction
			0.1	fraction
		Probit levels	3	
	Toxic contours	Dose levels	1 1.3E+07	
	Toxic contours	calculations Number of toxic levels	1	
		Cut-off concentration for exposure time	0	fraction
		Cut-off fraction of toxic load for exposure time calculation	e 0.05	fraction
	Exposure time data	Set averaging time equal to exposure time	Use a fixed averaging time	
		Building type (downwind building type)	Buildings\Building type	
Toxic parameters	Indoor toxic calculations	Specify the downwind building type	Unselected	
		Type of pool substrate and bunds	Concrete, no bund	
Bund, building and terrain	Terrain and bund definition	Type of terrain for dispersion	Land	
		STEL [15 mins]	No	
		IDLH [30 mins]	No	
	Averaging time for reports	ERPG [1 hr]	No	
	Distances of interest	Distances of interest		m
		User defined averaging time		S
		Specify user-defined averaging time	No	
		Averaging time for concentration of interest	Тохіс	
Dispersion	Dispersion scope	Concentration of interest	1200	ppm

	Calculation method	Fireball model	Martinsen time varying
		TNO model flame temperature	1726.85
Jet fire	Jet fire method	Jet fire method	Cone model
	Result types to calculate	Calculate probit	No
		Calculate dose	No
		Calculate lethality	No
	Radiation levels	Number of input radiation levels	3
		Intensity levels	4, 12.5, 37.5
		Probit levels	2.73, 3.72, 7.5
		Dose levels	1.27E+06, 5.8E+06, 2.51E+07
		Lethality levels	0.01, 0.1, 0.99
	Parameters	Rate modification factor	3
		Jet fire maximum exposure duration	20
	Cone model data	Correlation	Recommended
		Horizontal options	Use standard method
		Flame-shape adjustment if grounded	Yes
	Surface emissive power	Calculation method for surface emissive power	Calculate SEP
		Flame emissive power	
		Emissivity fraction	
Pool fire	Result types to calculate	Calculate probit	No
		Calculate dose	No
		Calculate lethality	No
	Radiation levels	Number of input radiation levels	3
		Intensity levels	4, 12.5, 37.5
		Probit levels	2.73, 3.72, 7.5
		Dose levels	1.27E+06, 5.8E+06, 2.51E+07
		Lethality levels	0.01, 0.1, 0.99
	Parameters	Radiative fraction for general fires	0.4
		Pool fire maximum exposure duration	20

degC
kW/m2
-
fraction
S
kW/m2
fraction
kW/m2
fraction
fraction
S



0.144 kg/s Release Rate

User defined source

NPW_Safeti_pipeline_20231207_consequence data\Study\Underground Pipeline\Scenario group\CO Toxicity Vertical

Tab	Group	Field	Value	Units
Scenario	Release scenario	Release scenario	Leak	
		The number of release observers	2	
	Release observers	Release time	0, 1800	S
		Release phase	Vapour, Vapour	
		Mass flow	0.144, 0.144	kg/s
		Final velocity	330, 330	m/s
		Final temperature	25, 25	degC
		Liquid fraction	0, 0	fraction
		Droplet diameter		um
		Pool radius		m
		Pre-dilution air rate	0, 0	kg/s
		Downstream calculation status	No errors detected	
	Release location	Elevation	0	m
		Tank head	0	m
	Direction	Outdoor release direction	Angled from horizontal impinged	
		Outdoor release angle	90	deg
	Fireball emissive power	Use vessel burst pressure	No	
		Vessel burst pressure - gauge		bar
	Jet fire Miller model hole size	Orifice diameter	0	mm
Risk	Event probability (probability of this event compared with others in this group)	Event probability	0.0876	fraction
	Type of risk effects to model	Reduce risks for mounded / underground tanks	I No	
	Non-ignition probabilities	Specify probability of non-ignition	Calculate non-ignition probability	
		Non-ignition probability		fraction
	Immediate ignition probabilities	Probability of immediate ignition	Stationary - use material reactivity	
		Immediate ignition probability		fraction
	Delayed ignition probabilities	Specify minimum probability of delayed ignition	Calculate minimum probability of delayed ignition	
		Minimum probability of delayed ignition		fraction
		Specify conditional explosion probability	Calculate conditional probability	
		Conditional explosion probability		fraction
Tab	Group	Field	alue	Units

Units	

Application for Amendment of Pla (Group C)1" for Proposed House Development at Various Lots in

	Cox-Lees-Ang and UKOOA ignition modelling	Release type for CLA / UKOOA	
Material	Material	Material characteristics	Toxic and flammable
		Material to track	CARBON MONOXIDE
		Type of risk effects to model	Toxic and flammable
Dispersion	Dispersion scope	Concentration of interest	1200
		Averaging time for concentration of interest	Тохіс
		Specify user-defined averaging time	No
		User defined averaging time	
	Distances of interest	Distances of interest	
	Averaging time for reports	ERPG [1 hr]	No
		IDLH [30 mins]	No
		STEL [15 mins]	No
Bund, building and terrain	Terrain and bund definition	Type of terrain for dispersion	Land
		Type of pool substrate and bunds	Concrete, no bund
Toxic parameters	Indoor toxic calculations	Specify the downwind building type	Unselected
		Building type (downwind building type)	Buildings\Building type
	Exposure time data	Set averaging time equal to exposure time	Use a fixed averaging time
		Cut-off fraction of toxic load for exposure time calculation	e 0.05
		Cut-off concentration for exposure time calculations	0
	Toxic contours	Number of toxic levels	1
		Dose levels	1.3E+07
		Probit levels	3
		Lethality levels	0.1
Explosion parameters	Explosion method	Explosion method	Multi-Energy: Uniform confined
	Ignition	Supply late ignition location	No ignition location
		Location of late ignition	
	Vapour liquid method	Use explosion mass modification factor	Yes
		Explosion mass modification factor	3
Fireball	Result types to calculate	Calculate probit	No
		Calculate dose	No
		Calculate lethality	Yes
	Radiation levels	Number of input radiation levels	3
Tab	Group	Field V	alue
		Intensity levels	4, 12.5, 37.5

lan to Rezone the Application Site from "Green Belt" to "Residential
in D.D. 244 and Adjoining Government Land, Nam Pin Wai, Sai Kung

ppm
s m
fraction
fraction
fraction
m
Units

kW/m2

		Probit levels	2.73, 3.72, 7.5
		Dose levels	1.27E+06, 5.8E+06, 2.51E+07
		Lethality levels	0.0001, 0.01, 0.99
	Parameters	Mass modification factor	3
		Fireball maximum exposure duration	30
	Calculation method	Fireball model	Martinsen time varying
		TNO model flame temperature	1726.85
Jet fire	Jet fire method	Jet fire method	Cone model
	Result types to calculate	Calculate probit	No
		Calculate dose	No
		Calculate lethality	No
	Radiation levels	Number of input radiation levels	3
		Intensity levels	4, 12.5, 37.5
		Probit levels	2.73, 3.72, 7.5
		Dose levels	1.27E+06, 5.8E+06, 2.51E+07
		Lethality levels	0.01, 0.1, 0.99
	Parameters	Rate modification factor	3
		Jet fire maximum exposure duration	20
	Cone model data	Correlation	Recommended
		Horizontal options	Use standard method
		Flame-shape adjustment if grounded	Yes
	Surface emissive power	Calculation method for surface emissive power	Calculate SEP
		Flame emissive power	
		Emissivity fraction	
Pool fire	Result types to calculate	Calculate probit	No
		Calculate dose	No
		Calculate lethality	No
	Radiation levels	Number of input radiation levels	3
		Intensity levels	4, 12.5, 37.5
		Probit levels	2.73, 3.72, 7.5
		Dose levels	1.27E+06, 5.8E+06, 2.51E+07
		Lethality levels	0.01, 0.1, 0.99
	Parameters	Radiative fraction for general fires	0.4
		Pool fire maximum exposure duration	20

0.576 kg/s Release Rate

User defined source

NPW_Safeti_pipeline_20231207_consequence data\Study\Underground Pipeline\Scenario group\CO Toxicity Vertical

fraction	
S	
degC	
kW/m2	
fraction	
naction	
S	
kW/m2	
fraction	
kW/m2	
fraction	
fraction	
S	

Tab 🛛 👘	Group	Field	Value	Units
Scenario	Release scenario	Release scenario	Leak	
		The number of release observers	2	
	Release observers	Release time	0, 1800	S
		Release phase	Vapour, Vapour	
		Mass flow	0.576, 0.576	kg/s
		Final velocity	330, 330	m/s
		Final temperature	25, 25	degC
		Liquid fraction	0, 0	fraction
		Droplet diameter		um
		Pool radius		m
		Pre-dilution air rate	0, 0	kg/s
		Downstream calculation status	No errors detected	
	Release location	Elevation	0	m
		Tank head	0	m
	Direction	Outdoor release direction	Angled from horizontal impinged	
		Outdoor release angle	90	deg
	Fireball emissive power	Use vessel burst pressure	No	
		Vessel burst pressure - gauge		bar
	Jet fire Miller model hole size	Orifice diameter	0	mm
lisk	Event probability (probability of this event compared with others in this group)	Event probability	0.0876	fraction
	Type of risk effects to model	Reduce risks for mounded / underground tanks	No	
	Non-ignition probabilities	Specify probability of non-ignition	Calculate non-ignition probability	
		Non-ignition probability		fraction
	Immediate ignition probabilities	Probability of immediate ignition	Stationary - use material reactivity	
		Immediate ignition probability		fraction
	Delayed ignition probabilities	Specify minimum probability of delayed ignition	Calculate minimum probability of delayed ignition	
		Minimum probability of delayed ignition		fraction
		Specify conditional explosion probability	Calculate conditional probability	
		Conditional explosion probability		fraction
ab	Group	Field Va	alue	Units
	Cox-Lees-Ang and UKOOA ignition modelling			
Material	Material	Material characteristics	Toxic and flammable	

		Material to track	CARBON MONOXIDE
		Type of risk effects to model	Toxic and flammable
Dispersion	Dispersion scope	Concentration of interest	3696
		Averaging time for concentration of interest	Тохіс
		Specify user-defined averaging time	No
		User defined averaging time	
	Distances of interest	Distances of interest	
	Averaging time for reports	ERPG [1 hr]	No
		IDLH [30 mins]	No
		STEL [15 mins]	No
Bund, building and terrain	Terrain and bund definition	Type of terrain for dispersion	Land
		Type of pool substrate and bunds	Concrete, no bund
Toxic parameters	Indoor toxic calculations	Specify the downwind building type	Unselected
		Building type (downwind building type)	Buildings\Building type
	Exposure time data	Set averaging time equal to exposure time	Use a fixed averaging time
		Cut-off fraction of toxic load for exposure time calculation	e 0.05
		Cut-off concentration for exposure time calculations	0
	Toxic contours	Number of toxic levels	1
		Dose levels	1.3E+07
		Probit levels	3
		Lethality levels	0.1
Explosion parameters	Explosion method	Explosion method	Multi-Energy: Uniform confined
	Ignition	Supply late ignition location	No ignition location
		Location of late ignition	
	Vapour liquid method	Use explosion mass modification factor	Yes
		Explosion mass modification factor	3
Fireball	Result types to calculate	Calculate probit	No
		Calculate dose	No
		Calculate lethality	Yes
	Radiation levels	Number of input radiation levels	3
Tab	Group	Field V	alue
		Intensity levels	4, 12.5, 37.5
		Probit levels	2.73, 3.72, 7.5
		Dose levels	1.27E+06, 5.8E+06, 2.51E+07
		Lethality levels	0.0001, 0.01, 0.99

ppm s m
S
m
fraction
fraction
fraction
m
Units
kW/m2
fraction

	Parameters	Mass modification factor	3
		Fireball maximum exposure duration	30
	Calculation method	Fireball model	Martinsen time varying
		TNO model flame temperature	1726.85
Jet fire	Jet fire method	Jet fire method	Cone model
	Result types to calculate	Calculate probit	No
		Calculate dose	No
		Calculate lethality	No
	Radiation levels	Number of input radiation levels	3
		Intensity levels	4, 12.5, 37.5
		Probit levels	2.73, 3.72, 7.5
		Dose levels	1.27E+06, 5.8E+06, 2.51E+07
		Lethality levels	0.01, 0.1, 0.99
	Parameters	Rate modification factor	3
		Jet fire maximum exposure duration	20
	Cone model data	Correlation	Recommended
		Horizontal options	Use standard method
		Flame-shape adjustment if grounded	Yes
	Surface emissive power	Calculation method for surface emissive power	Calculate SEP
		Flame emissive power	
		Emissivity fraction	
Pool fire	Result types to calculate	Calculate probit	No
		Calculate dose	No
		Calculate lethality	No
	Radiation levels	Number of input radiation levels	3
		Intensity levels	4, 12.5, 37.5
		Probit levels	2.73, 3.72, 7.5
		Dose levels	1.27E+06, 5.8E+06, 2.51E+07
		Lethality levels	0.01, 0.1, 0.99
	Parameters	Radiative fraction for general fires	0.4
		Pool fire maximum exposure duration	20

S
degC
kW/m2
fraction
S
kW/m2
fraction
kW/m2
fraction
fraction
S



2.3 kg/s Release Rate

User defined source

NPW_Safeti_pipeline_20231207_consequence data\Study\Underground Pipeline\Scenario group\CO Toxicity Vertical

Tab	Group	Field	Value	Units
Scenario	Release scenario	Release scenario	Leak	
		The number of release observers	2	
	Release observers	Release time	0, 1800	S
		Release phase	Vapour, Vapour	
		Mass flow	2.3, 2.3	kg/s
		Final velocity	330, 330	m/s
		Final temperature	25, 25	degC
		Liquid fraction	0, 0	fraction
		Droplet diameter		um
		Pool radius	0.5, 0.5	m
		Pre-dilution air rate	0, 0	kg/s
		Downstream calculation status	No errors detected	
	Release location	Elevation	0	m
		Tank head	0	m
	Direction	Outdoor release direction	Angled from horizontal impinged	
		Outdoor release angle	90	deg
	Fireball emissive power	Use vessel burst pressure	No	
		Vessel burst pressure - gauge		bar
	Jet fire Miller model hole size	Orifice diameter	0	mm
Risk	Event probability (probability of this event compared with others in this group)	Event probability	0.0555	fraction
	Type of risk effects to model	Reduce risks for mounded / underground tanks	No	
	Non-ignition probabilities	Specify probability of non-ignition	Calculate non-ignition probability	
		Non-ignition probability		fraction
	Immediate ignition probabilities	Probability of immediate ignition	Stationary - use material reactivity	
		Immediate ignition probability		fraction
	Delayed ignition probabilities	Specify minimum probability of delayed ignition	Calculate minimum probability of delayed ignition	
		Minimum probability of delayed ignition		fraction
		Specify conditional explosion probability	Calculate conditional probability	
		Conditional explosion probability		fraction

Tab	Group	Field	/alue
	Cox-Lees-Ang and UKOOA ignition modelling	Release type for CLA / UKOOA	
Material	Material	Material characteristics	Toxic and flammable
		Material to track	CARBON MONOXIDE
		Type of risk effects to model	Toxic and flammable
Dispersion	Dispersion scope	Concentration of interest	3696
		Averaging time for concentration of interest	Тохіс
		Specify user-defined averaging time	No
		User defined averaging time	
	Distances of interest	Distances of interest	
	Averaging time for reports	ERPG [1 hr]	No
		IDLH [30 mins]	No
		STEL [15 mins]	No
Bund, building and terrain	Terrain and bund definition	Type of terrain for dispersion	Land
		Type of pool substrate and bunds	Concrete, no bund
Toxic parameters	Indoor toxic calculations	Specify the downwind building type	Unselected
		Building type (downwind building type)	Buildings\Building type
	Exposure time data	Set averaging time equal to exposure time	Use a fixed averaging time
		Cut-off fraction of toxic load for exposurtime calculation	re 0.05
		Cut-off concentration for exposure time calculations	0
	Toxic contours	Number of toxic levels	1
		Dose levels	1.3E+07
		Probit levels	3
		Lethality levels	0.1
Explosion parameters	Explosion method	Explosion method	Multi-Energy: Uniform confined
	Ignition	Supply late ignition location	No ignition location
		Location of late ignition	
	Vapour liquid method	Use explosion mass modification factor	Yes
		Explosion mass modification factor	3
Fireball	Result types to calculate	Calculate probit	No
		Calculate dose	No
		Calculate lethality	Yes
	Radiation levels	Number of input radiation levels	3
Tab	Group	Field	/alue

Units
ppm
-
s m
fraction
fraction
fraction
m
Units

		Intensity levels	4, 12.5, 37.5
		Probit levels	2.73, 3.72, 7.5
		Dose levels	1.27E+06, 5.8E+06, 2.51E+07
		Lethality levels	0.0001, 0.01, 0.99
	Parameters	Mass modification factor	3
		Fireball maximum exposure duration	30
	Calculation method	Fireball model	Martinsen time varying
		TNO model flame temperature	1726.85
Jet fire	Jet fire method	Jet fire method	Cone model
	Result types to calculate	Calculate probit	No
		Calculate dose	No
		Calculate lethality	No
	Radiation levels	Number of input radiation levels	3
		Intensity levels	4, 12.5, 37.5
		Probit levels	2.73, 3.72, 7.5
		Dose levels	1.27E+06, 5.8E+06, 2.51E+07
		Lethality levels	0.01, 0.1, 0.99
	Parameters	Rate modification factor	3
		Jet fire maximum exposure duration	20
	Cone model data	Correlation	Recommended
		Horizontal options	Use standard method
		Flame-shape adjustment if grounded	Yes
	Surface emissive power	Calculation method for surface emissive power	Calculate SEP
		Flame emissive power	
		Emissivity fraction	
Pool fire	Result types to calculate	Calculate probit	No
		Calculate dose	No
		Calculate lethality	No
	Radiation levels	Number of input radiation levels	3
		Intensity levels	4, 12.5, 37.5
		Probit levels	2.73, 3.72, 7.5
		Dose levels	1.27E+06, 5.8E+06, 2.51E+07
		Lethality levels	0.01, 0.1, 0.99
	Parameters	Radiative fraction for general fires	0.4
		Pool fire maximum exposure duration	20

- j - 0	
	kW/m2
	fraction
	S
	degC
	kW/m2
	fraction
	S
	kW/m2
	fraction
	kW/m2
	fraction fraction
	s

20.72 kg/s Release Rate_No direction

User defined source

NPW_Safeti_pipeline_20231207_consequence data\Study\Underground Pipeline\Scenario group\CO Toxicity Vertical

Tab	Group	Field	Value	Units
Scenario	Release scenario	Release scenario	Catastrophic rupture	
		The number of release observers	1	
	Release observers	Release time	0	S
		Release phase	Vapour	
		Mass flow	26403	kg/s
		Final velocity	330	m/s
		Final temperature	25	degC
		Liquid fraction	0	fraction
		Droplet diameter		um
		Pool radius		m
		Pre-dilution air rate	0	kg/s
		Downstream calculation status	No errors detected	
	Release location	Elevation	0	m
		Tank head	0	m
	Direction	Outdoor release direction	Angled from horizontal impinged	
		Outdoor release angle	90	deg
	Fireball emissive power	Use vessel burst pressure	No	
		Vessel burst pressure - gauge		bar
	Jet fire Miller model hole size	Orifice diameter	0	mm
Risk	Event probability (probability of this event compared with others in this group)	Event probability	0.005	fraction
	Type of risk effects to model	Reduce risks for mounded / underground tanks	No	
	Non-ignition probabilities	Specify probability of non-ignition	Calculate non-ignition probability	
		Non-ignition probability		fraction
	Immediate ignition probabilities	Probability of immediate ignition	Stationary - use material reactivity	
		Immediate ignition probability		fraction
	Delayed ignition probabilities	Specify minimum probability of delayed ignition	Calculate minimum probability of delayed ignition	
		Minimum probability of delayed ignition		fraction
		Specify conditional explosion probability	Calculate conditional probability	
		Conditional explosion probability		fraction



Tab	Group	Field	/alue
	Cox-Lees-Ang and UKOOA ignition modelling	Release type for CLA / UKOOA	
Material	Material	Material characteristics	Toxic and flammable
		Material to track	CARBON MONOXIDE
		Type of risk effects to model	Toxic and flammable
Dispersion	Dispersion scope	Concentration of interest	3696
		Averaging time for concentration of interest	Тохіс
		Specify user-defined averaging time	No
		User defined averaging time	
	Distances of interest	Distances of interest	
	Averaging time for reports	ERPG [1 hr]	No
		IDLH [30 mins]	No
		STEL [15 mins]	No
Bund, building and terrain	Terrain and bund definition	Type of terrain for dispersion	Land
		Type of pool substrate and bunds	Concrete, no bund
Toxic parameters	Indoor toxic calculations	Specify the downwind building type	Unselected
		Building type (downwind building type)	Buildings\Building type
	Exposure time data	Set averaging time equal to exposure time	Use a fixed averaging time
		Cut-off fraction of toxic load for exposunt time calculation	re 0.05
		Cut-off concentration for exposure time calculations	0
	Toxic contours	Number of toxic levels	1
		Dose levels	1.3E+07
		Probit levels	3
		Lethality levels	0.1
Explosion parameters	Explosion method	Explosion method	Multi-Energy: Uniform confined
	Ignition	Supply late ignition location	No ignition location
		Location of late ignition	
	Vapour liquid method	Use explosion mass modification factor	Yes
		Explosion mass modification factor	3
Fireball	Result types to calculate	Calculate probit	No
		Calculate dose	No
		Calculate lethality	Yes
	Radiation levels	Number of input radiation levels	3
Tab	Group	Field	/alue

Units
ppm
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fraction
fraction
fraction
m
Units

DNV

		Intensity levels	4, 12.5, 37.5
		Probit levels	2.73, 3.72, 7.5
		Dose levels	1.27E+06, 5.8E+06, 2.51E+07
		Lethality levels	0.0001, 0.01, 0.99
	Parameters	Mass modification factor	3
		Fireball maximum exposure duration	30
	Calculation method	Fireball model	Martinsen time varying
		TNO model flame temperature	1726.85
Jet fire	Jet fire method	Jet fire method	Cone model
	Result types to calculate	Calculate probit	No
		Calculate dose	No
		Calculate lethality	No
	Radiation levels	Number of input radiation levels	3
		Intensity levels	4, 12.5, 37.5
		Probit levels	2.73, 3.72, 7.5
		Dose levels	1.27E+06, 5.8E+06, 2.51E+07
		Lethality levels	0.01, 0.1, 0.99
	Parameters	Rate modification factor	3
		Jet fire maximum exposure duration	20
	Cone model data	Correlation	Recommended
		Horizontal options	Use standard method
		Flame-shape adjustment if grounded	Yes
	Surface emissive power	Calculation method for surface emissive power	Calculate SEP
		Flame emissive power	
		Emissivity fraction	
Pool fire	Result types to calculate	Calculate probit	No
		Calculate dose	No
		Calculate lethality	No
	Radiation levels	Number of input radiation levels	3
		Intensity levels	4, 12.5, 37.5
		Probit levels	2.73, 3.72, 7.5
		Dose levels	1.27E+06, 5.8E+06, 2.51E+07
		Lethality levels	0.01, 0.1, 0.99
	Parameters	Radiative fraction for general fires	0.4
		Pool fire maximum exposure duration	20

- j - 0	
	kW/m2
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	S
	degC
	kW/m2
	fraction
	S
	kW/m2
	fraction
	kW/m2
	fraction fraction
	s



CO Toxicity Inclined

Pressure vessel

NPW_Safeti_pipeline_20231207_consequence data\Study\Underground Pipeline\Scenario group

Гаb	Group	Field	Value	Units
Material	Material	Material	CARBON MONOXIDE	
		Specify volume inventory?	No	
		Mass inventory	26403	kg
		Volume inventory	650.826	m3
		Material to track	CARBON MONOXIDE	
		Type of risk effects to model	Toxic and flammable	
	Phase	Specified condition	Pressure/temperature	
		Temperature	25	degC
		Pressure (gauge)	35	bar
		Fluid state	Vapour	
		Liquid mole fraction	0	fraction
isk	Type of risk effects to model	Jet fire modelling for horizontal releases	Horizontal jet only	
		Reduce risks for mounded / underground tanks	Νο	
	Non-ignition probabilities	Specify probability of non-ignition	Calculate non-ignition probability	
		Non-ignition probability		fraction
	Immediate ignition probabilities	Probability of immediate ignition	Stationary - use material reactivity	
		Immediate ignition probability		fraction
	Delayed ignition probabilities	Specify minimum probability of delayed ignition	Calculate minimum probability of delayed ignition	
		Minimum probability of delayed ignition		fraction
		Specify conditional explosion probability	Calculate conditional probability	
		Conditional explosion probability		fraction
	Cox-Lees-Ang and UKOOA ignition modelling	Fraction of ignition probability for immediate ignition	0.3	
		Release type for CLA / UKOOA		
cenario	Pipe dimensions	Pipe length		m
	Release location	Elevation	1	m
		Tank head	0	m
	Direction	Outdoor release direction	Angled from horizontal impinged	
ab	Group	Field	Value	Units

			(Group C)1" for Proposed House Development at Various Lots in D.D. 244 and Adjoining	Government Land, Nam Pin Wai, Sai Ku
		Outdoor release angle	45	deg
Discharge parameters	Model settings	Atmospheric expansion method	DNV recommended	
		Phase change upstream of orifice?	Disallow liquid phase change only (metastable liquid)	
	Droplet break-up mechanism	Droplet break-up mechanism - instantaneous	Use flashing correlation	
		Droplet break-up mechanism - continuous	Do not force correlation	
Short pipe	Pipe characteristics	Pipe roughness	0.045	mm
	Frequencies	Frequency of bends in pipe	0	/m
		Frequency of couplings in pipe	0	/m
		Frequency of junctions in pipe	0	/m
	Frequencies of valves	Frequency of excess flow valves	0	/m
		Frequency of non-return valves	0	/m
		Frequency of shut-off valves	0	/m
	Velocity head losses	Excess flow valve velocity head losses	0	
		Non-return valve velocity head losses	0	
		Shut-off valve velocity head losses	0	
Time varying releases	Modelling of time-varying leaks and line ruptures	Vacuum relief valve	Operating	
		Vacuum relief valve set point	0	bar
	Inventory data for time-varying releases	Tank volume	650.826	m3
		Tank vapour volume	650.826	m3
		Tank liquid volume	0	m3
		Tank liquid level	0	m
		Maximum vapour release height		m
		Minimum mass inventory	0	kg
		Maximum mass inventory	1E+09	kg
	Safety system modelling for time- varying releases	Safety system modelling (isolation and blowdown)	No	
Dispersion	Dispersion scope	Concentration of interest	3696	ppm
		Averaging time for concentration of interest	Toxic	
		Specify user-defined averaging time	No	
		User defined averaging time		S
	Distances of interest	Distances of interest		m
Tab	Group	Field	Value	Units

DNV

	Averaging time for reports	ERPG [1 hr]	No
		IDLH [30 mins]	No
		STEL [15 mins]	No
Bund, building and terrain	Terrain and bund definition	Type of terrain for dispersion	Land
		Type of pool substrate and bunds	Concrete, no bund
	Building definition	Release building	
		In-building release?	Outdoor
		Building wake effect	None
		Wind or release angle from North	0
		Handling of droplets	Trapped
		Indoor mass modification factor	3
Toxic parameters	Indoor toxic calculations	Specify the downwind building type	Unselected
		Building type (downwind building type)	Buildings\Building type
	Exposure time data	Set averaging time equal to exposure time	Use a fixed averaging time
		Cut-off fraction of toxic load for exposure time calculation	0.05
		Cut-off concentration for exposure time calculations	0
	Toxic contours	Number of toxic levels	1
		Dose levels	1.3E+07
		Probit levels	3
		Lethality levels	0.1
	Threshold concentration (N.B. Concentrations based on mixture rather than toxic component(s))	Threshold concentration	1E+06
		Minimum fatality if threshold concentration reached	0
Explosion parameters	Explosion method (Consequence calculations only)	Explosion method	Multi-Energy: Uniform confined
	Ignition	Supply late ignition location	No ignition location
		Location of late ignition	
	Vapour liquid method	Use explosion mass modification factor	Yes
		Explosion mass modification factor	3
Fireball	Result types to calculate	Calculate probit	No
		Calculate dose	No
Tab	Group	Field	Value

deg fraction fraction fraction ppm fraction m Units

		Calculate lethality	Yes
	Radiation levels	Number of input radiation levels	3
		Intensity levels	4, 12.5, 37.5
		Probit levels	2.73, 3.72, 7.5
		Dose levels	1.27E+06, 5.8E+06, 2.51E+07
		Lethality levels	0.0001, 0.01, 0.99
	Parameters	Mass modification factor	3
		Fireball maximum exposure duration	30
	Calculation method	Fireball model	Martinsen time varying
		TNO model flame temperature	1726.85
Jet fire	Jet fire method	Jet fire method	Cone model
	Result types to calculate	Calculate probit	No
		Calculate dose	No
		Calculate lethality	No
	Radiation levels	Number of input radiation levels	3
		Intensity levels	4, 12.5, 37.5
		Probit levels	2.73, 3.72, 7.5
		Dose levels	1.27E+06, 5.8E+06, 2.51E+07
		Lethality levels	0.01, 0.1, 0.99
	Parameters	Rate modification factor	3
		Jet fire maximum exposure duration	20
	Cone model data	Horizontal options	Use standard method
		Correlation	Recommended
		Flame-shape adjustment if grounded	Yes
	Surface emissive power	Calculation method for surface emissive power	Calculate SEP
		Flame emissive power	
		Emissivity fraction	
Pool fire	Result types to calculate	Calculate probit	No
		Calculate dose	No
		Calculate lethality	No
	Radiation levels	Number of input radiation levels	3
		Intensity levels	4, 12.5, 37.5
		Probit levels	2.73, 3.72, 7.5
		Dose levels	1.27E+06, 5.8E+06, 2.51E+07
		Lethality levels	0.01, 0.1, 0.99
	Parameters	Radiative fraction for general fires	0.4
Tab	Group	Field	Value

> kW/m2 fraction S degC kW/m2 fraction s kW/m2 fraction kW/m2 fraction fraction Units

20

0.023 kg/s Release Rate

User defined source

NPW_Safeti_pipeline_20231207_consequence data\Study\Underground Pipeline\Scenario group\CO Toxicity Inclined

Tab	Group	Field	Value
Scenario	Release scenario	Release scenario	Leak
		The number of release observers	2
	Release observers	Release time	0, 1800
		Release phase	Vapour, Vapour
		Mass flow	0.023, 0.023
		Final velocity	330, 330
		Final temperature	25, 25
		Liquid fraction	0, 0
		Droplet diameter	
		Pool radius	
		Pre-dilution air rate	0, 0
		Downstream calculation status	No errors detected
	Release location	Elevation	0
		Tank head	0
	Direction	Outdoor release direction	Angled from horizontal impinged
		Outdoor release angle	90
	Fireball emissive power	Use vessel burst pressure	No
		Vessel burst pressure - gauge	
	Jet fire Miller model hole size	Orifice diameter	0
Risk	Event probability (probability of this event compared with others in this group)	Event probability	0.0598
	Type of risk effects to model	Reduce risks for mounded / underground tanks	No
	Non-ignition probabilities	Specify probability of non-ignition	Calculate non-ignition probability
		Non-ignition probability	
	Immediate ignition probabilities	Probability of immediate ignition	Stationary - use material reactivity
		Immediate ignition probability	

DNV

Application for Amendment of Plan to Rezone the Application Site from "Green Belt" to "Residential (Group C)1" for Proposed House Development at Various Lots in D.D. 244 and Adjoining Government Land, Nam Pin Wai, Sai Kung

Units

S
kg/s
m/s
degC
fraction
um
m
kg/s
m
m
deg
bar
mm
fraction

fraction

fraction



Tab	Group	Field	Value	Units
	Delayed ignition probabilities	Specify minimum probability of delayed ignition	Calculate minimum probability of delayed ignition	
		Minimum probability of delayed ignition		fraction
		Specify conditional explosion probability	Calculate conditional probability	
		Conditional explosion probability		fraction
	Cox-Lees-Ang and UKOOA ignition modelling	Release type for CLA / UKOOA		
Material	Material	Material characteristics	Toxic and flammable	
		Material to track	CARBON MONOXIDE	
		Type of risk effects to model	Toxic and flammable	
Dispersion	Dispersion scope	Concentration of interest	3696	ppm
		Averaging time for concentration of interest	Тохіс	
		Specify user-defined averaging time	No	
		User defined averaging time		S
	Distances of interest	Distances of interest		m
	Averaging time for reports	ERPG [1 hr]	No	
		IDLH [30 mins]	No	
		STEL [15 mins]	No	
Bund, building and terrain	Terrain and bund definition	Type of terrain for dispersion	Land	
		Type of pool substrate and bunds	Concrete, no bund	
Toxic parameters	Indoor toxic calculations	Specify the downwind building type	Unselected	
		Building type (downwind building type)	Buildings\Building type	
	Exposure time data	Set averaging time equal to exposure time	Use a fixed averaging time	
		Cut-off fraction of toxic load for exposure time calculation	0.05	fraction
		Cut-off concentration for exposure time calculations	0	fraction
	Toxic contours	Number of toxic levels	1	
		Dose levels	1.3E+07	
		Probit levels	3	
		Lethality levels	0.1	fraction
Explosion parameters	Explosion method	Explosion method	Multi-Energy: Uniform confined	
	Ignition	Supply late ignition location	No ignition location	
		Location of late ignition		m
Tab	Group	Field	Value	Units
	Vapour liquid method	Use explosion mass modification factor	Yes	

FireballResult types to calculateCalculate probitCalculate doseCalculate doseCalculate lethalityCalculate lethalityRadiation levelsNumber of input radiation levelsIntensity levelsProbit levels	No No Yes 3 4, 12.5, 37.5
Calculate lethality Radiation levels Number of input radiation levels Intensity levels Probit levels	Yes 3
Radiation levels Number of input radiation levels Intensity levels Probit levels	3
Intensity levels Probit levels	
Probit levels	4 12 5 37 5
	Τ, ΙΖ.Ο, ΟΥ.Ο
	2.73, 3.72, 7.5
Dose levels	1.27E+06, 5.8E+06, 2.51E+07
Lethality levels	0.0001, 0.01, 0.99
Parameters Mass modification factor	3
Fireball maximum exposure duration	30
Calculation method Fireball model	Martinsen time varying
TNO model flame temperature	1726.85
Jet fire method Jet fire method	Cone model
Result types to calculate Calculate probit	No
Calculate dose	No
Calculate lethality	No
Radiation levels Number of input radiation levels	3
Intensity levels	4, 12.5, 37.5
Probit levels	2.73, 3.72, 7.5
Dose levels	1.27E+06, 5.8E+06, 2.51E+07
Lethality levels	0.01, 0.1, 0.99
Parameters Rate modification factor	3
Jet fire maximum exposure duration	20
Cone model data Correlation	Recommended
Horizontal options	Use standard method
Flame-shape adjustment if grounded	Yes
Surface emissive power Calculation method for surface emissive power power	Calculate SEP
Flame emissive power	
Emissivity fraction	
Pool fire Result types to calculate Calculate probit	No
Calculate dose	No
Calculate lethality	No
Radiation levels Number of input radiation levels	3
Intensity levels	4, 12.5, 37.5
Tab Group Field	Value
Probit levels	2.73, 3.72, 7.5

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degC	
kW/m2	
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fraction	
S	
kW/m2	
fraction	
k///m2	
kW/m2 Units	

DNV			Application for Amendment of Plan (Group C)1" for Proposed House Development at Various Lots in D
		Dose levels	1.27E+06, 5.8E+06, 2.51E+07
		Lethality levels	0.01, 0.1, 0.99
	Parameters	Radiative fraction for general fires	0.4
		Pool fire maximum exposure duration	20

0.144 kg/s Release Rate

User defined source

NPW_Safeti_pipeline_20231207_consequence data\Study\Underground Pipeline\Scenario group\CO Toxicity Inclined

T - L	Oursear		
Tab	Group	Field	Value
Scenario	Release scenario	Release scenario	Leak
		The number of release observers	2
	Release observers	Release time	0, 1800
		Release phase	Vapour, Vapour
		Mass flow	0.144, 0.144
		Final velocity	330, 330
		Final temperature	25, 25
		Liquid fraction	0, 0
		Droplet diameter	
		Pool radius	
		Pre-dilution air rate	0, 0
		Downstream calculation status	No errors detected
	Release location	Elevation	0
		Tank head	0
	Direction	Outdoor release direction	Angled from horizontal impinged
		Outdoor release angle	90
	Fireball emissive power	Use vessel burst pressure	No
		Vessel burst pressure - gauge	
	Jet fire Miller model hole size	Orifice diameter	0
Risk	Event probability (probability of this event compared with others in this group)	Event probability	0.0876
	Type of risk effects to model	Reduce risks for mounded / underground tanks	No
	Non-ignition probabilities	Specify probability of non-ignition	Calculate non-ignition probability
Tab	Group	Field	Value
		Non-ignition probability	
	Immediate ignition probabilities	Probability of immediate ignition	Stationary - use material reactivity
		-	

Plan to Rezone the Application Site from "Green Belt" to "Residential in D.D. 244 and Adjoining Government Land, Nam Pin Wai, Sai Kung

fraction	
fraction	
S	

 Units
S
kg/s
m/s
degC
fraction
um
m
kg/s
m
m
deg
bar
mm
fraction

Units

fraction

		Immediate ignition probability		fraction
	Delayed ignition probabilities	Specify minimum probability of delayed ignition	Calculate minimum probability of delayed ignition	
		Minimum probability of delayed ignition		fraction
		Specify conditional explosion probability	Calculate conditional probability	
		Conditional explosion probability		fraction
	Cox-Lees-Ang and UKOOA ignition modelling	Release type for CLA / UKOOA		
Material	Material	Material characteristics	Toxic and flammable	
		Material to track	CARBON MONOXIDE	
		Type of risk effects to model	Toxic and flammable	
Dispersion	Dispersion scope	Concentration of interest	1200	ppm
		Averaging time for concentration of interest	Тохіс	
		Specify user-defined averaging time	No	
		User defined averaging time		S
	Distances of interest	Distances of interest		m
	Averaging time for reports	ERPG [1 hr]	No	
		IDLH [30 mins]	No	
		STEL [15 mins]	No	
Bund, building and terrain	Terrain and bund definition	Type of terrain for dispersion	Land	
		Type of pool substrate and bunds	Concrete, no bund	
Toxic parameters	Indoor toxic calculations	Specify the downwind building type	Unselected	
		Building type (downwind building type)	Buildings\Building type	
	Exposure time data	Set averaging time equal to exposure time	Use a fixed averaging time	
		Cut-off fraction of toxic load for exposure time calculation	0.05	fraction
		Cut-off concentration for exposure time calculations	0	fraction
	Toxic contours	Number of toxic levels	1	
		Dose levels	1.3E+07	
		Probit levels	3	
		Lethality levels	0.1	fraction
Explosion parameters	Explosion method	Explosion method	Multi-Energy: Uniform confined	
Tab	Group	Field	Value	Units
			No invition location	
	Ignition	Supply late ignition location	No ignition location	
	Ignition	Location of late ignition	No Ignition location	m

		Explosion mass modification factor	3
Fireball	Result types to calculate	Calculate probit	No
		Calculate dose	No
		Calculate lethality	Yes
	Radiation levels	Number of input radiation levels	3
		Intensity levels	4, 12.5, 37.5
		Probit levels	2.73, 3.72, 7.5
		Dose levels	1.27E+06, 5.8E+06, 2.51E+07
		Lethality levels	0.0001, 0.01, 0.99
	Parameters	Mass modification factor	3
		Fireball maximum exposure duration	30
	Calculation method	Fireball model	Martinsen time varying
		TNO model flame temperature	1726.85
Jet fire	Jet fire method	Jet fire method	Cone model
	Result types to calculate	Calculate probit	No
		Calculate dose	No
		Calculate lethality	No
	Radiation levels	Number of input radiation levels	3
		Intensity levels	4, 12.5, 37.5
		Probit levels	2.73, 3.72, 7.5
		Dose levels	1.27E+06, 5.8E+06, 2.51E+07
		Lethality levels	0.01, 0.1, 0.99
	Parameters	Rate modification factor	3
		Jet fire maximum exposure duration	20
	Cone model data	Correlation	Recommended
		Horizontal options	Use standard method
		Flame-shape adjustment if grounded	Yes
	Surface emissive power	Calculation method for surface emissive power	Calculate SEP
		Flame emissive power	
		Emissivity fraction	
Pool fire	Result types to calculate	Calculate probit	No
		Calculate dose	No
		Calculate lethality	No
Tab	Group	Field	Value
	Radiation levels	Number of input radiation levels	3
		Intensity levels	4, 12.5, 37.5
		Probit levels	2.73, 3.72, 7.5

kW/m2 fraction s degC kW/m2 fraction s kW/m2 fraction Units

kW/m2

DNV			Application for Amendment of Plan (Group C)1" for Proposed House Development at Various Lots in D
		Dose levels	1.27E+06, 5.8E+06, 2.51E+07
		Lethality levels	0.01, 0.1, 0.99
	Parameters	Radiative fraction for general fires	0.4
		Pool fire maximum exposure duration	20

0.576 kg/s Release Rate

User defined source

NPW_Safeti_pipeline_20231207_consequence data\Study\Underground Pipeline\Scenario group\CO Toxicity Inclined

Tab	Group	Field	Value
Scenario	Release scenario	Release scenario	Leak
		The number of release observers	2
	Release observers	Release time	0, 1800
		Release phase	Vapour, Vapour
		Mass flow	0.576, 0.576
		Final velocity	330, 330
		Final temperature	25, 25
		Liquid fraction	0, 0
		Droplet diameter	
		Pool radius	
		Pre-dilution air rate	0, 0
		Downstream calculation status	No errors detected
	Release location	Elevation	0
		Tank head	0
	Direction	Outdoor release direction	Angled from horizontal impinged
		Outdoor release angle	45
	Fireball emissive power	Use vessel burst pressure	No
		Vessel burst pressure - gauge	
	Jet fire Miller model hole size	Orifice diameter	0
Risk	Event probability (probability of this event compared with others in this group)	Event probability	0.0876
	Type of risk effects to model	Reduce risks for mounded / underground tanks	No
Tab	Group	Field	Value
	Non-ignition probabilities	Specify probability of non-ignition	Calculate non-ignition probability
		Non-ignition probability	
	Immediate ignition probabilities	Probability of immediate ignition	Stationary - use material reactivity

Plan to Rezone the Application Site from "Green Belt" to "Residential in D.D. 244 and Adjoining Government Land, Nam Pin Wai, Sai Kung

fraction	
fraction	
s	

Units
S
kg/s
m/s
degC
fraction
um
m
kg/s
m
m
deg
bar
mm
fraction

Units

fraction

		Immediate ignition probability		fraction
	Delayed ignition probabilities	Specify minimum probability of delayed ignition	Calculate minimum probability of delayed ignition	
		Minimum probability of delayed ignition		fraction
		Specify conditional explosion probability	Calculate conditional probability	
		Conditional explosion probability		fraction
	Cox-Lees-Ang and UKOOA ignition modelling	Release type for CLA / UKOOA		
Material	Material	Material characteristics	Toxic and flammable	
		Material to track	CARBON MONOXIDE	
		Type of risk effects to model	Toxic and flammable	
Dispersion	Dispersion scope	Concentration of interest	3696	ppm
		Averaging time for concentration of interest	Toxic	
		Specify user-defined averaging time	No	
		User defined averaging time		S
	Distances of interest	Distances of interest		m
	Averaging time for reports	ERPG [1 hr]	No	
		IDLH [30 mins]	No	
		STEL [15 mins]	No	
Bund, building and terrain	Terrain and bund definition	Type of terrain for dispersion	Land	
		Type of pool substrate and bunds	Concrete, no bund	
Toxic parameters	Indoor toxic calculations	Specify the downwind building type	Unselected	
		Building type (downwind building type)	Buildings\Building type	
	Exposure time data	Set averaging time equal to exposure time	Use a fixed averaging time	
		Cut-off fraction of toxic load for exposure time calculation	0.05	fraction
		Cut-off concentration for exposure time calculations	0	fraction
	Toxic contours	Number of toxic levels	1	
		Dose levels	1.3E+07	
		Probit levels	3	
Tab	Group	Field	Value	Units
		Lethality levels	0.1	fraction
Explosion parameters	Explosion method	Explosion method	Multi-Energy: Uniform confined	
	Ignition	Supply late ignition location	No ignition location	
		Location of late ignition		m
	Vapour liquid method	Use explosion mass modification factor	Yes	

		Explosion mass modification factor	3
Fireball	Result types to calculate	Calculate probit	No
		Calculate dose	No
		Calculate lethality	Yes
	Radiation levels	Number of input radiation levels	3
		Intensity levels	4, 12.5, 37.5
		Probit levels	2.73, 3.72, 7.5
		Dose levels	1.27E+06, 5.8E+06, 2.51E+07
		Lethality levels	0.0001, 0.01, 0.99
	Parameters	Mass modification factor	3
		Fireball maximum exposure duration	30
	Calculation method	Fireball model	Martinsen time varying
		TNO model flame temperature	1726.85
Jet fire	Jet fire method	Jet fire method	Cone model
	Result types to calculate	Calculate probit	No
		Calculate dose	No
		Calculate lethality	No
	Radiation levels	Number of input radiation levels	3
		Intensity levels	4, 12.5, 37.5
		Probit levels	2.73, 3.72, 7.5
		Dose levels	1.27E+06, 5.8E+06, 2.51E+07
		Lethality levels	0.01, 0.1, 0.99
	Parameters	Rate modification factor	3
		Jet fire maximum exposure duration	20
	Cone model data	Correlation	Recommended
		Horizontal options	Use standard method
		Flame-shape adjustment if grounded	Yes
	Surface emissive power	Calculation method for surface emissive power	Calculate SEP
		Flame emissive power	
		Emissivity fraction	
Pool fire	Result types to calculate	Calculate probit	No
Tab	Group	Field	Value
		Calculate dose	No
		Calculate lethality	No
	Radiation levels	Number of input radiation levels	3
		Intensity levels	4, 12.5, 37.5
		Probit levels	2.73, 3.72, 7.5

kW/m2
fraction
S
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fraction
S
kW/m2 fraction
Units
kW/m2

DNV			Application for Amendment of Plan (Group C)1" for Proposed House Development at Various Lots in D
		Dose levels	1.27E+06, 5.8E+06, 2.51E+07
		Lethality levels	0.01, 0.1, 0.99
	Parameters	Radiative fraction for general fires	0.4
		Pool fire maximum exposure duration	20

2.3 kg/s Release Rate

User defined source

NPW_Safeti_pipeline_20231207_consequence data\Study\Underground Pipeline\Scenario group\CO Toxicity Inclined

Tab	Group	Field	Value
Scenario	Release scenario	Release scenario	Leak
		The number of release observers	2
	Release observers	Release time	0, 1800
		Release phase	Vapour, Vapour
		Mass flow	2.3, 2.3
		Final velocity	330, 330
		Final temperature	25, 25
		Liquid fraction	0, 0
		Droplet diameter	
		Pool radius	0.5, 0.5
		Pre-dilution air rate	0, 0
		Downstream calculation status	No errors detected
	Release location	Elevation	0
		Tank head	0
	Direction	Outdoor release direction	Angled from horizontal impinged
		Outdoor release angle	45
	Fireball emissive power	Use vessel burst pressure	No
		Vessel burst pressure - gauge	
	Jet fire Miller model hole size	Orifice diameter	0
Risk	Event probability (probability of this event compared with others in this group)	Event probability	0.0555
Tab	Group	Field	Value
	Type of risk effects to model	Reduce risks for mounded / underground tanks	No
	Non-ignition probabilities	Specify probability of non-ignition	Calculate non-ignition probability
		Non-ignition probability	
	Immediate ignition probabilities	Probability of immediate ignition	Stationary - use material reactivity

Plan to Rezone the Application Site from "Green Belt" to "Residential in D.D. 244 and Adjoining Government Land, Nam Pin Wai, Sai Kung

fraction	
fraction	
S	

Units
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kg/s
m/s
degC
fraction
um
m
kg/s
m
m
deg
bar
mm
fraction
Units

fraction

		Immediate ignition probability		fraction
	Delayed ignition probabilities	Specify minimum probability of delayed ignition	Calculate minimum probability of delayed ignition	
		Minimum probability of delayed ignition		fraction
		Specify conditional explosion probability	Calculate conditional probability	
		Conditional explosion probability		fraction
	Cox-Lees-Ang and UKOOA ignition modelling	Release type for CLA / UKOOA		
Material	Material	Material characteristics	Toxic and flammable	
		Material to track	CARBON MONOXIDE	
		Type of risk effects to model	Toxic and flammable	
Dispersion	Dispersion scope	Concentration of interest	3696	ppm
		Averaging time for concentration of interest	Тохіс	
		Specify user-defined averaging time	No	
		User defined averaging time		S
	Distances of interest	Distances of interest		m
	Averaging time for reports	ERPG [1 hr]	No	
		IDLH [30 mins]	No	
		STEL [15 mins]	No	
Bund, building and terrain	Terrain and bund definition	Type of terrain for dispersion	Land	
		Type of pool substrate and bunds	Concrete, no bund	
Toxic parameters	Indoor toxic calculations	Specify the downwind building type	Unselected	
		Building type (downwind building type)	Buildings\Building type	
	Exposure time data	Set averaging time equal to exposure time	Use a fixed averaging time	
		Cut-off fraction of toxic load for exposure time calculation	0.05	fraction
		Cut-off concentration for exposure time calculations	0	fraction
	Toxic contours	Number of toxic levels	1	
		Dose levels	1.3E+07	
Tab	Group	Field	Value	Units
		Probit levels	3	
		Lethality levels	0.1	fraction
Explosion parameters	Explosion method	Explosion method	Multi-Energy: Uniform confined	
	Ignition	Supply late ignition location	No ignition location	
		Location of late ignition		m
	Vapour liquid method	Use explosion mass modification factor	Yes	

		Explosion mass modification factor	3
Fireball	Result types to calculate	Calculate probit	No
		Calculate dose	No
		Calculate lethality	Yes
	Radiation levels	Number of input radiation levels	3
		Intensity levels	4, 12.5, 37.5
		Probit levels	2.73, 3.72, 7.5
		Dose levels	1.27E+06, 5.8E+06, 2.51E+07
		Lethality levels	0.0001, 0.01, 0.99
	Parameters	Mass modification factor	3
		Fireball maximum exposure duration	30
	Calculation method	Fireball model	Martinsen time varying
		TNO model flame temperature	1726.85
Jet fire	Jet fire method	Jet fire method	Cone model
	Result types to calculate	Calculate probit	No
		Calculate dose	No
		Calculate lethality	No
	Radiation levels	Number of input radiation levels	3
		Intensity levels	4, 12.5, 37.5
		Probit levels	2.73, 3.72, 7.5
		Dose levels	1.27E+06, 5.8E+06, 2.51E+07
		Lethality levels	0.01, 0.1, 0.99
	Parameters	Rate modification factor	3
		Jet fire maximum exposure duration	20
	Cone model data	Correlation	Recommended
		Horizontal options	Use standard method
		Flame-shape adjustment if grounded	Yes
	Surface emissive power	Calculation method for surface emissive power	Calculate SEP
		Flame emissive power	
		Emissivity fraction	
Tab	Group	Field	Value
Pool fire	Result types to calculate	Calculate probit	No
		Calculate dose	No
		Calculate lethality	No
	Radiation levels	Number of input radiation levels	3
		Intensity levels	4, 12.5, 37.5
		Probit levels	2.73, 3.72, 7.5

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fraction
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k////m2
kW/m2 fraction
Units

kW/m2

DNV			Application for Amendment of Pla (Group C)1" for Proposed House Development at Various Lots in
		Dose levels	1.27E+06, 5.8E+06, 2.51E+07
		Lethality levels	0.01, 0.1, 0.99
	Parameters	Radiative fraction for general fires	0.4
		Pool fire maximum exposure duration	20

Underground Pipe Flashfire Vertical

Pressure vessel

NPW_Safeti_pipeline_20231207_consequence data\Study\Underground Pipeline\Scenario group

Таb	Group	Field	Value	Units
Material	Material	Material	TOWNGAS	
		Specify volume inventory?	No	
		Mass inventory	26403	kg
		Volume inventory	1351.68	m3
		Material to track	TOWNGAS	
		Type of risk effects to model	Flammable only	
	Phase	Specified condition	Pressure/temperature	
		Temperature	25	degC
		Pressure (gauge)	35	bar
		Fluid state	Vapour	
		Liquid mole fraction	0	fraction
Risk	Type of risk effects to model	Jet fire modelling for horizontal releases	Horizontal jet only	
		Reduce risks for mounded / underground tanks	Yes	
	Non-ignition probabilities	Specify probability of non-ignition	Calculate non-ignition probability	
		Non-ignition probability		fraction
	Immediate ignition probabilities	Probability of immediate ignition	Specify directly	
		Immediate ignition probability	0	fraction
	Delayed ignition probabilities	Specify minimum probability of delayed ignition	Use minimum probability of delayed ignition	
Гаb	Group	Field	Value	Units
		Minimum probability of delayed ignition	1	fraction
		Specify conditional explosion probability	Calculate conditional probability	
		Conditional explosion probability		fraction
	Cox-Lees-Ang and UKOOA ignition	Fraction of ignition probability for	0.3	

Plan to Rezone the Application Site from "Green Belt" to "Residential s in D.D. 244 and Adjoining Government Land, Nam Pin Wai, Sai Kung

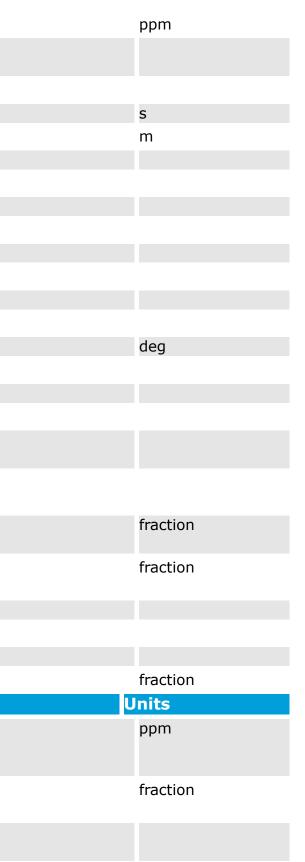
fraction	
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S	

DNV

	modelling	immediate ignition		
	modeling	Release type for CLA / UKOOA		
Scenario	Pipe dimensions	Pipe length		m
Sechano	Release location	Elevation	0	m
		Tank head	0	m
	Direction	Outdoor release direction	Angled from horizontal impinged	
	Direction	Outdoor release angle	90	deg
Discharge parameters	Model settings	Atmospheric expansion method	DNV recommended	ueg
Discharge parameters	Houer settings	Phase change upstream of orifice?	Disallow liquid phase change only (metastable liquid)	
	Droplet break-up mechanism	Droplet break-up mechanism - instantaneous	Use flashing correlation	
		Droplet break-up mechanism - continuous	Do not force correlation	
Short pipe	Pipe characteristics	Pipe roughness	0.045	mm
	Frequencies	Frequency of bends in pipe	0	/m
		Frequency of couplings in pipe	0	/m
		Frequency of junctions in pipe	0	/m
	Frequencies of valves	Frequency of excess flow valves	0	/m
		Frequency of non-return valves	0	/m
		Frequency of shut-off valves	0	/m
	Velocity head losses	Excess flow valve velocity head losses	0	
		Non-return valve velocity head losses	0	
		Shut-off valve velocity head losses	0	
Time varying releases	Modelling of time-varying leaks and line ruptures	Vacuum relief valve	Operating	
		Vacuum relief valve set point	0	bar
	Inventory data for time-varying releases	Tank volume	1351.68	m3
		Tank vapour volume	1351.68	m3
Tab	Group	Field	Value	Units
		Tank liquid volume	0	m3
		Tank liquid level	0	m
		Maximum vapour release height		m
		Minimum mass inventory	0	kg
		Maximum mass inventory	1E+09	kg
	Safety system modelling for time- varying releases	Safety system modelling (isolation and blowdown)	No	



Dispersion	Dispersion scope	Concentration of interest	1200
		Averaging time for concentration of interest	Flammable
		Specify user-defined averaging time	No
		User defined averaging time	
	Distances of interest	Distances of interest	
	Averaging time for reports	ERPG [1 hr]	No
		IDLH [30 mins]	No
		STEL [15 mins]	No
Bund, building and terrain	Terrain and bund definition	Type of terrain for dispersion	Land
		Type of pool substrate and bunds	Concrete, no bund
	Building definition	Release building	
		In-building release?	Outdoor
		Building wake effect	None
		Wind or release angle from North	0
		Handling of droplets	Trapped
		Indoor mass modification factor	3
Toxic parameters	Indoor toxic calculations	Specify the downwind building type	Unselected
		Building type (downwind building type)	Buildings\Building type
	Exposure time data	Set averaging time equal to exposure time	Use a fixed averaging time
		Cut-off fraction of toxic load for exposure time calculation	0.05
		Cut-off concentration for exposure time calculations	0
	Toxic contours	Number of toxic levels	1
		Dose levels	1.3E+07
		Probit levels	3
		Lethality levels	0.1
Tab	Group	Field	Value
	Threshold concentration (N.B. Concentrations based on mixture rather than toxic component(s))	Threshold concentration	1E+06
		Minimum fatality if threshold concentration reached	0
Explosion parameters	Explosion method (Consequence calculations only)	Explosion method	Multi-Energy: Uniform confined
	Ignition	Supply late ignition location	No ignition location



DNV

		Location of late ignition	
	Vapour liquid method	Use explosion mass modification factor	Yes
		Explosion mass modification factor	3
Fireball	Result types to calculate	Calculate probit	No
		Calculate dose	No
		Calculate lethality	Yes
	Radiation levels	Number of input radiation levels	3
		Intensity levels	4, 12.5, 37.5
		Probit levels	2.73, 3.72, 7.5
		Dose levels	1.27E+06, 5.8E+06, 2.51E+07
		Lethality levels	0.0001, 0.01, 0.99
	Parameters	Mass modification factor	3
		Fireball maximum exposure duration	30
	Calculation method	Fireball model	Martinsen time varying
		TNO model flame temperature	1726.85
Jet fire	Jet fire method	Jet fire method	Cone model
	Result types to calculate	Calculate probit	No
		Calculate dose	No
		Calculate lethality	No
	Radiation levels	Number of input radiation levels	3
		Intensity levels	4, 12.5, 37.5
		Probit levels	2.73, 3.72, 7.5
		Dose levels	1.27E+06, 5.8E+06, 2.51E+07
		Lethality levels	0.01, 0.1, 0.99
	Parameters	Rate modification factor	3
		Jet fire maximum exposure duration	20
	Cone model data	Horizontal options	Use standard method
		Correlation	Recommended
Tab	Group	Field	Value
		Flame-shape adjustment if grounded	Yes
	Surface emissive power	Calculation method for surface emissive power	Calculate SEP
		Flame emissive power	
		Emissivity fraction	
Pool fire	Result types to calculate	Calculate probit	No
		Calculate dose	No
		Calculate lethality	No

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	kW/m2
	fraction



Radiation level	s Number of input radiation levels	3	
	Intensity levels	4, 12.5, 37.5	kW/m2
	Probit levels	2.73, 3.72, 7.5	
	Dose levels	1.27E+06, 5.8E+06, 2.51E+07	
	Lethality levels	0.01, 0.1, 0.99	fraction
Parameters	Radiative fraction for general fire	5 0.4	fraction
	Pool fire maximum exposure duration	20	S

0.41 kg/s Release Rate

User defined source

NPW_Safeti_pipeline_20231207_consequence data\Study\Underground Pipeline\Scenario group\Underground Pipe Flashfire Vertical

Tab	Group	Field	Value	Units
Scenario	Release scenario	Release scenario	Leak	
		The number of release observers	2	
	Release observers	Release time	0, 1800	S
		Release phase	Vapour, Vapour	
		Mass flow	0.41, 0.41	kg/s
		Final velocity	330, 330	m/s
		Final temperature	25, 25	degC
		Liquid fraction	0, 0	fraction
		Droplet diameter		um
		Pool radius		m
		Pre-dilution air rate	0, 0	kg/s
		Downstream calculation status	No errors detected	
	Release location	Elevation	0	m
		Tank head	0	m
Tab	Group	Field	Value	Units
	Direction	Outdoor release direction	Angled from horizontal impinged	
		Outdoor release angle	90	deg
	Fireball emissive power	Use vessel burst pressure	No	
		Vessel burst pressure - gauge		bar
	Jet fire Miller model hole size	Orifice diameter	0	mm
Risk	Event probability (probability of this event compared with others in this group)	Event probability	0.0392	fraction
	Type of risk effects to model	Reduce risks for mounded / underground	Yes	

		tanks		
	Non-ignition probabilities	Specify probability of non-ignition	Calculate non-ignition probability	
		Non-ignition probability		fraction
	Immediate ignition probabilities	Probability of immediate ignition	Specify directly	
		Immediate ignition probability	0	fraction
	Delayed ignition probabilities	Specify minimum probability of delayed ignition	Use minimum probability of delayed ignition	
		Minimum probability of delayed ignition	1	fraction
		Specify conditional explosion probability	Calculate conditional probability	
		Conditional explosion probability		fraction
	Cox-Lees-Ang and UKOOA ignition modelling	Release type for CLA / UKOOA		
Material	Material	Material characteristics	Toxic and flammable	
		Material to track	TOWNGAS	
		Type of risk effects to model	Flammable only	
Dispersion	Dispersion scope	Concentration of interest	1200	ppm
		Averaging time for concentration of interest	Flammable	
		Specify user-defined averaging time	No	
		User defined averaging time		S
	Distances of interest	Distances of interest		m
	Averaging time for reports	ERPG [1 hr]	No	
		IDLH [30 mins]	No	
		STEL [15 mins]	No	
Bund, building and terrain	Terrain and bund definition	Type of terrain for dispersion	Land	
		Type of pool substrate and bunds	Concrete, no bund	
Toxic parameters	Indoor toxic calculations	Specify the downwind building type	Unselected	
		Building type (downwind building type)	Buildings\Building type	
Tab	Group	Field	Value	Units
	Exposure time data	Set averaging time equal to exposure time	Use a fixed averaging time	
		Cut-off fraction of toxic load for exposure time calculation	e 0.05	fraction
		Cut-off concentration for exposure time calculations	0	fraction
	Toxic contours	Number of toxic levels	1	
		Dose levels	1.3E+07	
		Probit levels	3	
		Lethality levels	0.1	fraction

DNV

Explosion parameters	Explosion method	Explosion method	Multi-Energy: Uniform confined
	Ignition	Supply late ignition location	No ignition location
		Location of late ignition	
	Vapour liquid method	Use explosion mass modification factor	Yes
		Explosion mass modification factor	3
Fireball	Result types to calculate	Calculate probit	No
		Calculate dose	No
		Calculate lethality	Yes
	Radiation levels	Number of input radiation levels	3
		Intensity levels	4, 12.5, 37.5
		Probit levels	2.73, 3.72, 7.5
		Dose levels	1.27E+06, 5.8E+06, 2.51E+07
		Lethality levels	0.0001, 0.01, 0.99
	Parameters	Mass modification factor	3
		Fireball maximum exposure duration	30
	Calculation method	Fireball model	Martinsen time varying
		TNO model flame temperature	1726.85
Jet fire	Jet fire method	Jet fire method	Cone model
	Result types to calculate	Calculate probit	No
		Calculate dose	No
		Calculate lethality	No
	Radiation levels	Number of input radiation levels	3
		Intensity levels	4, 12.5, 37.5
		Probit levels	2.73, 3.72, 7.5
		Dose levels	1.27E+06, 5.8E+06, 2.51E+07
		Lethality levels	0.01, 0.1, 0.99
	Parameters	Rate modification factor	3
Tab	Group	Field	Value
		Jet fire maximum exposure duration	20
	Cone model data	Correlation	Recommended
		Horizontal options	Use standard method
		Flame-shape adjustment if grounded	Yes
	Surface emissive power	Calculation method for surface emissive power	Calculate SEP
		Flame emissive power	
		Emissivity fraction	
Pool fire	Result types to calculate	Calculate probit	No
		Calculate dose	No

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s
5
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fraction

	Calculate lethality	No	
Radiation levels	Number of input radiation levels	3	
	Intensity levels	4, 12.5, 37.5	kW/m2
	Probit levels	2.73, 3.72, 7.5	
	Dose levels	1.27E+06, 5.8E+06, 2.51E+07	
	Lethality levels	0.01, 0.1, 0.99	fraction
Parameters	Radiative fraction for general fires	0.4	fraction
	Pool fire maximum exposure duration	20	S

2.59 kg/s Release Rate

User defined source

NPW_Safeti_pipeline_20231207_consequence data\Study\Underground Pipeline\Scenario group\Underground Pipe Flashfire Vertical

Tab	Group	Field	Value	Units
Scenario	Release scenario	Release scenario	Leak	
		The number of release observers	2	
	Release observers	Release time	0, 1800	S
		Release phase	Vapour, Vapour	
		Mass flow	2.59, 2.59	kg/s
		Final velocity	330, 330	m/s
		Final temperature	25, 25	degC
		Liquid fraction	0, 0	fraction
		Droplet diameter		um
		Pool radius		m
		Pre-dilution air rate	0, 0	kg/s
		Downstream calculation status	No errors detected	
Tab	Group	Field	Value	Units
	Release location	Elevation	0	m
		Tank head	0	m
	Direction	Outdoor release direction	Angled from horizontal impinged	
		Outdoor release angle	90	deg
	Fireball emissive power	Use vessel burst pressure	No	
		Vessel burst pressure - gauge		bar
	Jet fire Miller model hole size	Orifice diameter	0	mm
Risk	Event probability (probability of this event compared with others in this group)	Event probability	0.0519	fraction

	Type of risk effects to model	Reduce risks for mounded / underground tanks	Yes	
	Non-ignition probabilities	Specify probability of non-ignition	Calculate non-ignition probability	
		Non-ignition probability		fraction
	Immediate ignition probabilities	Probability of immediate ignition	Specify directly	
		Immediate ignition probability	0	fraction
	Delayed ignition probabilities	Specify minimum probability of delayed ignition	Use minimum probability of delayed ignition	
		Minimum probability of delayed ignition	1	fraction
		Specify conditional explosion probability	Use conditional probability	
		Conditional explosion probability	1	fraction
	Cox-Lees-Ang and UKOOA ignition modelling	Release type for CLA / UKOOA		
Material	Material	Material characteristics	Toxic and flammable	
		Material to track	TOWNGAS	
		Type of risk effects to model	Flammable only	
Dispersion	Dispersion scope	Concentration of interest	1200	ppm
		Averaging time for concentration of interest	Flammable	
		Specify user-defined averaging time	No	
		User defined averaging time		S
	Distances of interest	Distances of interest		m
	Averaging time for reports	ERPG [1 hr]	No	
		IDLH [30 mins]	No	
		STEL [15 mins]	No	
Bund, building and terrain	Terrain and bund definition	Type of terrain for dispersion	Land	
		Type of pool substrate and bunds	Concrete, no bund	
Tab	Group	Field	Value	Units
Toxic parameters	Indoor toxic calculations	Specify the downwind building type	Unselected	
		Building type (downwind building type)	Buildings\Building type	
	Exposure time data	Set averaging time equal to exposure time	Use a fixed averaging time	
		Cut-off fraction of toxic load for exposure time calculation	0.05	fraction
		Cut-off concentration for exposure time calculations	0	fraction
	Toxic contours	Number of toxic levels	1	
		Dose levels	1.3E+07	
		Probit levels	3	

DNV

		Lethality levels	0.1
Explosion parameters	Explosion method	Explosion method	Multi-Energy: Uniform confined
	Ignition	Supply late ignition location	No ignition location
		Location of late ignition	
	Vapour liquid method	Use explosion mass modification factor	Yes
		Explosion mass modification factor	3
Fireball	Result types to calculate	Calculate probit	No
		Calculate dose	No
		Calculate lethality	Yes
	Radiation levels	Number of input radiation levels	3
		Intensity levels	4, 12.5, 37.5
		Probit levels	2.73, 3.72, 7.5
		Dose levels	1.27E+06, 5.8E+06, 2.51E+07
		Lethality levels	0.0001, 0.01, 0.99
	Parameters	Mass modification factor	3
		Fireball maximum exposure duration	30
	Calculation method	Fireball model	Martinsen time varying
		TNO model flame temperature	1726.85
Jet fire	Jet fire method	Jet fire method	Cone model
	Result types to calculate	Calculate probit	No
		Calculate dose	No
		Calculate lethality	No
	Radiation levels	Number of input radiation levels	3
		Intensity levels	4, 12.5, 37.5
		Probit levels	2.73, 3.72, 7.5
		Dose levels	1.27E+06, 5.8E+06, 2.51E+07
Tab	Group	Field	Value
		Lethality levels	0.01, 0.1, 0.99
	Parameters	Rate modification factor	3
		Jet fire maximum exposure duration	20
	Cone model data	Correlation	Recommended
		Horizontal options	Use standard method
		Flame-shape adjustment if grounded	Yes
	Surface emissive power	Calculation method for surface emissive power	Calculate SEP
		Flame emissive power	
		Emissivity fraction	
Pool fire	Result types to calculate	Calculate probit	No

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	Calculate dose	No
	Calculate lethality	No
Radiation levels	Number of input radiation levels	3
	Intensity levels	4, 12.5, 37.5
	Probit levels	2.73, 3.72, 7.5
	Dose levels	1.27E+06, 5.8E+06, 2.51E+07
	Lethality levels	0.01, 0.1, 0.99
Parameters	Radiative fraction for general fires	0.4
	Pool fire maximum exposure duration	20

10.36 kg/s Release Rate

User defined source

NPW_Safeti_pipeline_20231207_consequence data\Study\Underground Pipeline\Scenario group\Underground Pipe Flashfire Vertical

Tab	Group	Field	Value	Units
Scenario	Release scenario	Release scenario	Leak	
		The number of release observers	2	
	Release observers	Release time	0, 1800	S
		Release phase	Vapour, Vapour	
		Mass flow	10.36, 10.36	kg/s
		Final velocity	330, 330	m/s
		Final temperature	25, 25	degC
		Liquid fraction	0, 0	fraction
		Droplet diameter		um
		Pool radius		m
Tab	Group	Field	Value	Units
		Pre-dilution air rate	0, 0	kg/s
		Downstream calculation status	No errors detected	
	Release location	Elevation	0	m
		Tank head	0	m
	Direction	Outdoor release direction	Angled from horizontal impinged	
		Outdoor release angle	90	deg
	Fireball emissive power	Use vessel burst pressure	No	
		Vessel burst pressure - gauge		bar
	Jet fire Miller model hole size	Orifice diameter	0	mm
Risk	Event probability (probability of this event compared with others in	Event probability	0.0519	fraction

kW/m2 fraction fraction s

DNV	

	this group)			
	Type of risk effects to model	Reduce risks for mounded / underground	Vec	
	Type of fisk effects to model	tanks	les	
	Non-ignition probabilities	Specify probability of non-ignition	Calculate non-ignition probability	
		Non-ignition probability		fraction
	Immediate ignition probabilities	Probability of immediate ignition	Specify directly	
		Immediate ignition probability	0	fraction
	Delayed ignition probabilities	Specify minimum probability of delayed ignition	Use minimum probability of delayed ignition	
		Minimum probability of delayed ignition	1	fraction
		Specify conditional explosion probability	Calculate conditional probability	
		Conditional explosion probability		fraction
	Cox-Lees-Ang and UKOOA ignition modelling	Release type for CLA / UKOOA		
Material	Material	Material characteristics	Toxic and flammable	
		Material to track	TOWNGAS	
		Type of risk effects to model	Flammable only	
Dispersion	Dispersion scope	Concentration of interest	1200	ppm
		Averaging time for concentration of interest	Flammable	
		Specify user-defined averaging time	No	
		User defined averaging time		S
	Distances of interest	Distances of interest		m
	Averaging time for reports	ERPG [1 hr]	No	
		IDLH [30 mins]	No	
		STEL [15 mins]	No	
Tab	Group	Field	Value	Units
Bund, building and terrain	Terrain and bund definition	Type of terrain for dispersion	Land	
		Type of pool substrate and bunds	Concrete, no bund	
Toxic parameters	Indoor toxic calculations	Specify the downwind building type	Unselected	
		Building type (downwind building type)	Buildings\Building type	
	Exposure time data	Set averaging time equal to exposure time	Use a fixed averaging time	
		Cut-off fraction of toxic load for exposure time calculation	0.05	fraction
		Cut-off concentration for exposure time calculations	0	fraction
	Toxic contours	Number of toxic levels	1	
		Dose levels	1.3E+07	

DNV

		Probit levels	3
		Lethality levels	0.1
Explosion parameters	Explosion method	Explosion method	Multi-Energy: Uniform confined
	Ignition	Supply late ignition location	No ignition location
		Location of late ignition	
	Vapour liquid method	Use explosion mass modification factor	Yes
		Explosion mass modification factor	3
Fireball	Result types to calculate	Calculate probit	No
		Calculate dose	No
		Calculate lethality	Yes
	Radiation levels	Number of input radiation levels	3
		Intensity levels	4, 12.5, 37.5
		Probit levels	2.73, 3.72, 7.5
		Dose levels	1.27E+06, 5.8E+06, 2.51E+07
		Lethality levels	0.0001, 0.01, 0.99
	Parameters	Mass modification factor	3
		Fireball maximum exposure duration	30
	Calculation method	Fireball model	Martinsen time varying
		TNO model flame temperature	1726.85
Jet fire	Jet fire method	Jet fire method	Cone model
	Result types to calculate	Calculate probit	No
		Calculate dose	No
		Calculate lethality	No
	Radiation levels	Number of input radiation levels	3
		Intensity levels	4, 12.5, 37.5
Tab	Group	Field	Value
		Probit levels	2.73, 3.72, 7.5
		Dose levels	1.27E+06, 5.8E+06, 2.51E+07
		Lethality levels	0.01, 0.1, 0.99
	Parameters	Rate modification factor	3
		Jet fire maximum exposure duration	20
	Cone model data	Correlation	Recommended
		Horizontal options	Use standard method
		Flame-shape adjustment if grounded	Yes
	Surface emissive power	Calculation method for surface emissive power	Calculate SEP
		Flame emissive power	
		Emissivity fraction	

fraction
m
kW/m2
fraction
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LVA// 2
kW/m2
Units
fraction
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kW/m2
fraction



Pool fire	Result types to calculate	Calculate probit	No
		Calculate dose	No
		Calculate lethality	No
	Radiation levels	Number of input radiation levels	3
		Intensity levels	4, 12.5, 37.5
		Probit levels	2.73, 3.72, 7.5
		Dose levels	1.27E+06, 5.8E+06, 2.51E+07
		Lethality levels	0.01, 0.1, 0.99
	Parameters	Radiative fraction for general fires	0.4
		Pool fire maximum exposure duration	20

41.4 kg/s Release rate

User defined source

NPW_Safeti_pipeline_20231207_consequence data\Study\Underground Pipeline\Scenario group\Underground Pipe Flashfire Vertical

Tab	Group	Field	Value	Units
Scenario	Release scenario	Release scenario	Leak	
		The number of release observers	2	
	Release observers	Release time	0, 1800	S
		Release phase	Vapour, Vapour	
		Mass flow	41.4, 41.4	kg/s
		Final velocity	330, 330	m/s
		Final temperature	25, 25	degC
		Liquid fraction	0, 0	fraction
Tab	Group	Field	Value	Units
		Droplet diameter	5, 5	um
		Pool radius		m
		Pre-dilution air rate	0, 0	kg/s
		Downstream calculation status	No errors detected	
	Release location	Elevation	0	m
		Tank head	0	m
	Direction	Outdoor release direction	Angled from horizontal	
		Outdoor release angle	45	deg
	Fireball emissive power	Use vessel burst pressure	No	
		Vessel burst pressure - gauge		bar
	Jet fire Miller model hole size	Orifice diameter	0	mm
Risk	Event probability (probability of	Event probability	0.0329	fraction

kW/m2 fraction fraction s

	this event compared with others in this group)			
	Type of risk effects to model	Reduce risks for mounded / underground tanks	Yes	
	Non-ignition probabilities	Specify probability of non-ignition	Calculate non-ignition probability	
		Non-ignition probability		fraction
	Immediate ignition probabilities	Probability of immediate ignition	Specify directly	
		Immediate ignition probability	0	fraction
	Delayed ignition probabilities	Specify minimum probability of delayed ignition	Use minimum probability of delayed ignition	
		Minimum probability of delayed ignition	1	fraction
		Specify conditional explosion probability	Calculate conditional probability	
		Conditional explosion probability		fraction
	Cox-Lees-Ang and UKOOA ignition modelling	Release type for CLA / UKOOA		
Material	Material	Material characteristics	Toxic and flammable	
		Material to track	TOWNGAS	
		Type of risk effects to model	Flammable only	
Dispersion	Dispersion scope	Concentration of interest	1200	ppm
		Averaging time for concentration of interest	Flammable	
		Specify user-defined averaging time	No	
		User defined averaging time	30	S
	Distances of interest	Distances of interest		m
	Averaging time for reports	ERPG [1 hr]	No	
Tab	Group	Field	Value	Units
		IDLH [30 mins]	No	
		STEL [15 mins]	No	
Bund, building and terrain	Terrain and bund definition	Type of terrain for dispersion	Land	
		Type of pool substrate and bunds	Concrete, no bund	
Toxic parameters	Indoor toxic calculations	Specify the downwind building type	Unselected	
		Building type (downwind building type)	Buildings\Building type	
	Exposure time data	Set averaging time equal to exposure time	Use a fixed averaging time	
		Cut-off fraction of toxic load for exposure time calculation	0.05	fraction
		Cut-off concentration for exposure time calculations	0	fraction
	Toxic contours	Number of toxic levels	1	

DNV

Application for Amendment of Plan to Rezone the Application Site from "Green Belt" to "Residential (Group C)1" for Proposed House Development at Various Lots in D.D. 244 and Adjoining Government Land, Nam Pin Wai, Sai Kung

		Dose levels	1.3E+07
		Probit levels	3
		Lethality levels	0.1
Explosion parameters	Explosion method	Explosion method	Multi-Energy: Uniform confined
	Ignition	Supply late ignition location	No ignition location
		Location of late ignition	
	Vapour liquid method	Use explosion mass modification factor	Yes
		Explosion mass modification factor	3
Fireball	Result types to calculate	Calculate probit	No
		Calculate dose	No
		Calculate lethality	Yes
	Radiation levels	Number of input radiation levels	3
		Intensity levels	4, 12.5, 37.5
		Probit levels	2.73, 3.72, 7.5
		Dose levels	1.27E+06, 5.8E+06, 2.51E+07
		Lethality levels	0.0001, 0.01, 0.99
	Parameters	Mass modification factor	3
		Fireball maximum exposure duration	30
	Calculation method	Fireball model	Martinsen time varying
		TNO model flame temperature	1726.85
Jet fire	Jet fire method	Jet fire method	Cone model
	Result types to calculate	Calculate probit	No
		Calculate dose	No
		Calculate lethality	No
Tab	Group	Field	Value
	Radiation levels	Number of input radiation levels	3
		Intensity levels	4, 12.5, 37.5
		Probit levels	2.73, 3.72, 7.5
		Dose levels	1.27E+06, 5.8E+06, 2.51E+07
		Lethality levels	0.01, 0.1, 0.99
	Parameters	Rate modification factor	3
		Jet fire maximum exposure duration	20
	Cone model data	Correlation	Recommended
		Horizontal options	Use standard method
		Flame-shape adjustment if grounded	Yes
	Surface emissive power	Calculation method for surface emissive power	Calculate SEP
		Flame emissive power	

fraction	
m	
kW/m2	
fraction	
S	
degC	

Units

kW/m2

fraction

S

kW/m2

		Emissivity fraction		fraction
Pool fire	Result types to calculate	Calculate probit	No	
		Calculate dose	No	
		Calculate lethality	No	
	Radiation levels	Number of input radiation levels	3	
		Intensity levels	4, 12.5, 37.5	kW/m2
		Probit levels	2.73, 3.72, 7.5	
		Dose levels	1.27E+06, 5.8E+06, 2.51E+07	
		Lethality levels	0.01, 0.1, 0.99	fraction
	Parameters	Radiative fraction for general fires	0.4	fraction
		Pool fire maximum exposure duration	20	S

372.95 kg/s Release rate_no direction

User defined source

NPW_Safeti_pipeline_20231207_consequence data\Study\Underground Pipeline\Scenario group\Underground Pipe Flashfire Vertical

Tab	Group	Field	Value	Units
Scenario	Release scenario	Release scenario	Catastrophic rupture	
		The number of release observers	1	
	Release observers	Release time	0	S
		Release phase	Vapour	
		Mass flow	26403	kg/s
		Final velocity	435.31	m/s
Tab	Group	Field	Value	Units
		Final temperature	25	degC
		Liquid fraction	0	fraction
		Droplet diameter	5	um
		Pool radius		m
		Pre-dilution air rate	0	kg/s
		Downstream calculation status	No errors detected	
	Release location	Elevation	0	m
		Tank head	0	m
	Direction	Outdoor release direction	Angled from horizontal impinged	
		Outdoor release angle	90	deg
	Fireball emissive power	Use vessel burst pressure	No	
		Vessel burst pressure - gauge		bar
	Jet fire Miller model hole size	Orifice diameter	0	mm



Risk Event probability (probability of Event probability 0.005 this event compared with others in this group) Type of risk effects to model Reduce risks for mounded / underground Yes tanks Non-ignition probabilities Specify probability of non-ignition Calculate non-ignition probability Non-ignition probability Immediate ignition probabilities Probability of immediate ignition Specify directly 0 Immediate ignition probability Delayed ignition probabilities Specify minimum probability of delayed Use minimum probability of delayed ig ignition Minimum probability of delayed ignition 1 Specify conditional explosion probability Calculate conditional probability Conditional explosion probability Cox-Lees-Ang and UKOOA ignition Release type for CLA / UKOOA modelling Toxic and flammable Material Material Material characteristics Material to track TOWNGAS Type of risk effects to model Flammable only 1200 Dispersion Dispersion scope Concentration of interest Averaging time for concentration of Flammable interest Specify user-defined averaging time No User defined averaging time 30 Tab Group Field Value Distances of interest Distances of interest Averaging time for reports ERPG [1 hr] No IDLH [30 mins] No STEL [15 mins] No Land Bund, building and terrain Terrain and bund definition Type of terrain for dispersion Type of pool substrate and bunds Concrete, no bund Specify the downwind building type Unselected Toxic parameters Indoor toxic calculations Building type (downwind building type) Buildings\Building type Exposure time data Set averaging time equal to exposure Use a fixed averaging time time Cut-off fraction of toxic load for exposure 0.05 time calculation Cut-off concentration for exposure time 0

calculations

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	fraction
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	Units
	m
	fraction
	fraction

	Toxic contours	Number of toxic levels	1
		Dose levels	1.3E+07
		Probit levels	3
		Lethality levels	0.1
Explosion parameters	Explosion method	Explosion method	Multi-Energy: Uniform confined
	Ignition	Supply late ignition location	No ignition location
		Location of late ignition	
	Vapour liquid method	Use explosion mass modification factor	Yes
		Explosion mass modification factor	3
Fireball	Result types to calculate	Calculate probit	No
		Calculate dose	No
		Calculate lethality	Yes
	Radiation levels	Number of input radiation levels	3
		Intensity levels	4, 12.5, 37.5
		Probit levels	2.73, 3.72, 7.5
		Dose levels	1.27E+06, 5.8E+06, 2.51E+07
		Lethality levels	0.0001, 0.01, 0.99
	Parameters	Mass modification factor	3
		Fireball maximum exposure duration	30
	Calculation method	Fireball model	Martinsen time varying
		TNO model flame temperature	1726.85
Jet fire	Jet fire method	Jet fire method	Cone model
	Result types to calculate	Calculate probit	No
Tab	Group	Field	Value
		Calculate dose	No
		Calculate lethality	No
	Radiation levels	Number of input radiation levels	3
		Intensity levels	4, 12.5, 37.5
		Probit levels	2.73, 3.72, 7.5
		Dose levels	1.27E+06, 5.8E+06, 2.51E+07
		Lethality levels	0.01, 0.1, 0.99
	Parameters	Rate modification factor	3
		Jet fire maximum exposure duration	20
	Cone model data	Correlation	Recommended
		Horizontal options	Use standard method
		Flame-shape adjustment if grounded	Yes
	Surface emissive power	Calculation method for surface emissive power	Calculate SEP

fraction
m
kW/m2
fraction
S
degC
ucyc
Units
kW/m2
-
fraction
-
S

		Flame emissive power	
		Emissivity fraction	
Pool fire	Result types to calculate	Calculate probit	No
		Calculate dose	No
		Calculate lethality	No
	Radiation levels	Number of input radiation levels	3
		Intensity levels	4, 12.5, 37.5
		Probit levels	2.73, 3.72, 7.5
		Dose levels	1.27E+06, 5.8E+06, 2.51E+07
		Lethality levels	0.01, 0.1, 0.99
	Parameters	Radiative fraction for general fires	0.4
		Pool fire maximum exposure duration	20

Underground Pipe Flashfire Inclined

Pressure vessel

NPW_Safeti_pipeline_20231207_consequence data\Study\Underground Pipeline\Scenario group

Tab	Group	Field	Value
Material	Material	Material	TOWNGAS
		Specify volume inventory?	No
		Mass inventory	26403
		Volume inventory	1351.68
Tab	Group	Field	Value
		Material to track	TOWNGAS
		Type of risk effects to model	Flammable only
	Phase	Specified condition	Pressure/temperature
		Temperature	25
		Pressure (gauge)	35
		Fluid state	Vapour
		Liquid mole fraction	0
Risk	Type of risk effects to model	Jet fire modelling for horizontal releases	Horizontal jet only
		Reduce risks for mounded / underground tanks	Yes
	Non-ignition probabilities	Specify probability of non-ignition	Calculate non-ignition probability
		Non-ignition probability	
	Immediate ignition probabilities	Probability of immediate ignition	Specify directly

kW/m2
fraction
kW/m2
fraction
fraction
S

Units
kg
m3
Units
degC
bar
fraction
fraction
nacion

		Immediate ignition probability	0	fraction
	Delayed ignition probabilities	Specify minimum probability of delayed ignition	Use minimum probability of delayed ignition	
		Minimum probability of delayed ignition	1	fraction
		Specify conditional explosion probability	Calculate conditional probability	
		Conditional explosion probability		fraction
	Cox-Lees-Ang and UKOOA ignition modelling	Fraction of ignition probability for immediate ignition	0.3	
		Release type for CLA / UKOOA		
Scenario	Pipe dimensions	Pipe length		m
	Release location	Elevation	0	m
		Tank head	0	m
	Direction	Outdoor release direction	Angled from horizontal impinged	
		Outdoor release angle	45	deg
Discharge parameters	Model settings	Atmospheric expansion method	DNV recommended	
		Phase change upstream of orifice?	Disallow liquid phase change only (metastable liquid)	
	Droplet break-up mechanism	Droplet break-up mechanism - instantaneous	Use flashing correlation	
		Droplet break-up mechanism - continuous	Do not force correlation	
Short pipe	Pipe characteristics	Pipe roughness	0.045	mm
	Frequencies	Frequency of bends in pipe	0	/m
Tab	Group	Field	Value	Units
		Frequency of couplings in pipe	0	/m
		Frequency of junctions in pipe	0	/m
	Frequencies of valves	Frequency of excess flow valves	0	/m
		Frequency of non-return valves	0	/m
		Frequency of shut-off valves	0	/m
	Velocity head losses	Excess flow valve velocity head losses	0	
		Non-return valve velocity head losses	0	
		Shut-off valve velocity head losses	0	
Time varying releases	Modelling of time-varying leaks and line ruptures	Vacuum relief valve	Operating	
		Vacuum relief valve set point	0	bar
	Inventory data for time-varying releases	Tank volume	1351.68	m3

		Tank vapour volume	1351.68
		Tank liquid volume	0
		Tank liquid level	0
		Maximum vapour release height	
		Minimum mass inventory	0
		Maximum mass inventory	1E+09
	Safety system modelling for time- varying releases	Safety system modelling (isolation and blowdown)	No
Dispersion	Dispersion scope	Concentration of interest	1200
		Averaging time for concentration of interest	Flammable
		Specify user-defined averaging time	No
		User defined averaging time	
	Distances of interest	Distances of interest	
	Averaging time for reports	ERPG [1 hr]	No
		IDLH [30 mins]	No
		STEL [15 mins]	No
Bund, building and terrain	Terrain and bund definition	Type of terrain for dispersion	Land
		Type of pool substrate and bunds	Concrete, no bund
	Building definition	Release building	
		In-building release?	Outdoor
		Building wake effect	None
Tab	Group	Field	Value
		Wind or release angle from North	0
		Handling of droplets	Trapped
		Indoor mass modification factor	3
Toxic parameters	Indoor toxic calculations	Specify the downwind building type	Unselected
		Building type (downwind building type)	Buildings\Building type
	Exposure time data	Set averaging time equal to exposure time	Use a fixed averaging time
		Cut-off fraction of toxic load for exposure time calculation	0.05
		Cut-off concentration for exposure time calculations	0
	Toxic contours	Number of toxic levels	1
		Dose levels	1.3E+07
		Probit levels	3
		Lethality levels	0.1

m3
m3
m
m
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kg
ppm
S
s m
Units
deg
ucg
fraction
function
fraction
fraction

DNV

	Threshold concentration (N.B. Concentrations based on mixture rather than toxic component(s))	Threshold concentration	1E+06
		Minimum fatality if threshold concentration reached	0
Explosion parameters	Explosion method (Consequence calculations only)	Explosion method	Multi-Energy: Uniform confined
	Ignition	Supply late ignition location	No ignition location
		Location of late ignition	
	Vapour liquid method	Use explosion mass modification factor	Yes
		Explosion mass modification factor	3
Fireball	Result types to calculate	Calculate probit	No
		Calculate dose	No
		Calculate lethality	Yes
	Radiation levels	Number of input radiation levels	3
		Intensity levels	4, 12.5, 37.5
		Probit levels	2.73, 3.72, 7.5
		Dose levels	1.27E+06, 5.8E+06, 2.51E+07
		Lethality levels	0.0001, 0.01, 0.99
	Parameters	Mass modification factor	3
		Fireball maximum exposure duration	30
Tab	Group	Field	Value
	Calculation method	Fireball model	Martinsen time varying
		TNO model flame temperature	1726.85
Jet fire	Jet fire method	Jet fire method	Cone model
	Result types to calculate	Calculate probit	No
		Calculate dose	No
		Calculate lethality	No
	Radiation levels	Number of input radiation levels	3
		Intensity levels	4, 12.5, 37.5
		Probit levels	2.73, 3.72, 7.5
		Dose levels	1.27E+06, 5.8E+06, 2.51E+07
		Lethality levels	0.01, 0.1, 0.99
	Parameters	Rate modification factor	3
		Jet fire maximum exposure duration	20
	Cone model data	Horizontal options	Use standard method
		Correlation	Recommended
		Correlation Flame-shape adjustment if grounded	

ppm
fraction
m
kW/m2
fraction
S
Units
degC
kW/m2
fraction
S
5

	Surface emissive power	Calculation method for surface emissive power	Calculate SEP	
		Flame emissive power		kW/m2
		Emissivity fraction		fraction
Pool fire	Result types to calculate	Calculate probit	No	
		Calculate dose	No	
		Calculate lethality	No	
	Radiation levels	Number of input radiation levels	3	
		Intensity levels	4, 12.5, 37.5	kW/m2
		Probit levels	2.73, 3.72, 7.5	
		Dose levels	1.27E+06, 5.8E+06, 2.51E+07	
		Lethality levels	0.01, 0.1, 0.99	fraction
	Parameters	Radiative fraction for general fires	0.4	fraction
		Pool fire maximum exposure duration	20	S

0.41 kg/s Release Rate

User defined source

NPW_Safeti_pipeline_20231207_consequence data\Study\Underground Pipeline\Scenario group\Underground Pipe Flashfire Inclined

Tab	Group	Field	Value	Units
Scenario	Release scenario	Release scenario	Leak	
		The number of release observers	2	
	Release observers	Release time	0, 1800	S
		Release phase	Vapour, Vapour	
		Mass flow	0.41, 0.41	kg/s
		Final velocity	330, 330	m/s
		Final temperature	25, 25	degC
		Liquid fraction	0, 0	fraction
		Droplet diameter		um
		Pool radius		m
		Pre-dilution air rate	0, 0	kg/s
		Downstream calculation status	No errors detected	
	Release location	Elevation	0	m
		Tank head	0	m
	Direction	Outdoor release direction	Angled from horizontal impinged	
		Outdoor release angle	45	deg

	Fireball emissive power	Use vessel burst pressure	No
		Vessel burst pressure - gauge	
	Jet fire Miller model hole size	Orifice diameter	0
Risk	Event probability (probability of this event compared with others in this group)	Event probability	0.0392
	Type of risk effects to model	Reduce risks for mounded / underground tanks	Yes
	Non-ignition probabilities	Specify probability of non-ignition	Calculate non-ignition probability
		Non-ignition probability	
	Immediate ignition probabilities	Probability of immediate ignition	Specify directly
		Immediate ignition probability	0
	Delayed ignition probabilities	Specify minimum probability of delayed ignition	Use minimum probability of delayed igr
		Minimum probability of delayed ignition	1
		Specify conditional explosion probability	Calculate conditional probability
		Conditional explosion probability	
	Cox-Lees-Ang and UKOOA ignition modelling	Release type for CLA / UKOOA	
Material	Material	Material characteristics	Toxic and flammable
		Material to track	TOWNGAS
Tab	Group	Field Va	lue
		Type of risk effects to model	Flammable only
Dispersion	Dispersion scope	Concentration of interest	1200
		Averaging time for concentration of interest	Flammable
		Specify user-defined averaging time	No
		User defined averaging time	
	Distances of interest	Distances of interest	
	Averaging time for reports	ERPG [1 hr]	No
		IDLH [30 mins]	No
		STEL [15 mins]	No
Bund, building and terrain	Terrain and bund definition	Type of terrain for dispersion	Land
		Type of pool substrate and bunds	Concrete, no bund
Toxic parameters	Indoor toxic calculations	Specify the downwind building type	Unselected
		Building type (downwind building type)	Buildings\Building type
	Exposure time data	Set averaging time equal to exposure time	Use a fixed averaging time
		Cut-off fraction of toxic load for exposure	

Cut-off fraction of toxic load for exposure 0.05

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	6
	fraction
	fraction
	Units
	Units
	ppm s
	ppm
	ppm s

		time calculation	
		Cut-off concentration for exposure time calculations	0
	Toxic contours	Number of toxic levels	1
		Dose levels	1.3E+07
		Probit levels	3
		Lethality levels	0.1
Explosion parameters	Explosion method	Explosion method	Multi-Energy: Uniform confined
	Ignition	Supply late ignition location	No ignition location
		Location of late ignition	
	Vapour liquid method	Use explosion mass modification factor	Yes
		Explosion mass modification factor	3
Fireball	Result types to calculate	Calculate probit	No
		Calculate dose	No
		Calculate lethality	Yes
	Radiation levels	Number of input radiation levels	3
		Intensity levels	4, 12.5, 37.5
		Probit levels	2.73, 3.72, 7.5
		Dose levels	1.27E+06, 5.8E+06, 2.51E+07
		Lethality levels	0.0001, 0.01, 0.99
Tab	Group	Field V	alue
Tab	Group Parameters	FieldVMass modification factor	alue 3
Tab			
Tab		Mass modification factor	3
Tab	Parameters	Mass modification factor Fireball maximum exposure duration	3 30
Tab Jet fire	Parameters	Mass modification factor Fireball maximum exposure duration Fireball model	3 30 Martinsen time varying
	Parameters Calculation method	Mass modification factor Fireball maximum exposure duration Fireball model TNO model flame temperature	3 30 Martinsen time varying 1726.85
	Parameters Calculation method Jet fire method	Mass modification factor Fireball maximum exposure duration Fireball model TNO model flame temperature Jet fire method	3 30 Martinsen time varying 1726.85 Cone model
	Parameters Calculation method Jet fire method	Mass modification factor Fireball maximum exposure duration Fireball model TNO model flame temperature Jet fire method Calculate probit	3 30 Martinsen time varying 1726.85 Cone model No
	Parameters Calculation method Jet fire method	Mass modification factor Fireball maximum exposure duration Fireball model TNO model flame temperature Jet fire method Calculate probit Calculate dose	3 30 Martinsen time varying 1726.85 Cone model No No
	Parameters Calculation method Jet fire method Result types to calculate	Mass modification factor Fireball maximum exposure duration Fireball model TNO model flame temperature Jet fire method Calculate probit Calculate dose Calculate lethality	3 30 Martinsen time varying 1726.85 Cone model No No No
	Parameters Calculation method Jet fire method Result types to calculate	Mass modification factorFireball maximum exposure durationFireball modelTNO model flame temperatureJet fire methodCalculate probitCalculate doseCalculate lethalityNumber of input radiation levels	3 30 Martinsen time varying 1726.85 Cone model No No No 3
	Parameters Calculation method Jet fire method Result types to calculate	 Mass modification factor Fireball maximum exposure duration Fireball model TNO model flame temperature Jet fire method Calculate probit Calculate dose Calculate lethality Number of input radiation levels Intensity levels 	3 30 Martinsen time varying 1726.85 Cone model No No No 3 4, 12.5, 37.5
	Parameters Calculation method Jet fire method Result types to calculate	 Mass modification factor Fireball maximum exposure duration Fireball model TNO model flame temperature Jet fire method Calculate probit Calculate dose Calculate lethality Number of input radiation levels Intensity levels Probit levels 	3 30 Martinsen time varying 1726.85 Cone model No No No 3 4, 12.5, 37.5 2.73, 3.72, 7.5
	Parameters Calculation method Jet fire method Result types to calculate	 Mass modification factor Fireball maximum exposure duration Fireball model TNO model flame temperature Jet fire method Calculate probit Calculate dose Calculate lethality Number of input radiation levels Intensity levels Probit levels Dose levels 	 3 30 Martinsen time varying 1726.85 Cone model No No No 3 4, 12.5, 37.5 2.73, 3.72, 7.5 1.27E+06, 5.8E+06, 2.51E+07
	Parameters Calculation method Jet fire method Result types to calculate Radiation levels	 Mass modification factor Fireball maximum exposure duration Fireball model TNO model flame temperature Jet fire method Calculate probit Calculate dose Calculate lethality Number of input radiation levels Intensity levels Probit levels Dose levels Lethality levels 	3 30 Martinsen time varying 1726.85 Cone model No No No 3 4, 12.5, 37.5 2.73, 3.72, 7.5 1.27E+06, 5.8E+06, 2.51E+07 0.01, 0.1, 0.99
	Parameters Calculation method Jet fire method Result types to calculate Radiation levels	 Mass modification factor Fireball maximum exposure duration Fireball model TNO model flame temperature Jet fire method Calculate probit Calculate dose Calculate lethality Number of input radiation levels Intensity levels Probit levels Dose levels Lethality levels Rate modification factor 	3 30 Martinsen time varying 1726.85 Cone model No No No 3 4, 12.5, 37.5 2.73, 3.72, 7.5 1.27E+06, 5.8E+06, 2.51E+07 0.01, 0.1, 0.99 3
	Parameters Calculation method Jet fire method Result types to calculate Radiation levels Parameters	 Mass modification factor Fireball maximum exposure duration Fireball model TNO model flame temperature Jet fire method Calculate probit Calculate dose Calculate lethality Number of input radiation levels Intensity levels Probit levels Dose levels Lethality levels Rate modification factor Jet fire maximum exposure duration 	3 30 Martinsen time varying 1726.85 Cone model No No No 3 4, 12.5, 37.5 2.73, 3.72, 7.5 1.27E+06, 5.8E+06, 2.51E+07 0.01, 0.1, 0.99 3 20

fraction
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kW/m2
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s degC kW/m2
s degC kW/m2 fraction
s degC kW/m2

		Flame-shape adjustment if grounded	Yes
	Surface emissive power	Calculation method for surface emissive power	Calculate SEP
		Flame emissive power	
		Emissivity fraction	
Pool fire	Result types to calculate	Calculate probit	No
		Calculate dose	No
		Calculate lethality	No
	Radiation levels	Number of input radiation levels	3
		Intensity levels	4, 12.5, 37.5
		Probit levels	2.73, 3.72, 7.5
		Dose levels	1.27E+06, 5.8E+06, 2.51E+07
		Lethality levels	0.01, 0.1, 0.99
	Parameters	Radiative fraction for general fires	0.4
		Pool fire maximum exposure duration	20

2.59 kg/s Release Rate

User defined source NPW_Safeti_pipeline_20231207_consequence data\Study\Underground Pipeline\Scenario group\Underground Pipe Flashfire Inclined

Tab	Group	Field	Value	Units
Scenario	Release scenario	Release scenario	Leak	
		The number of release observers	2	
	Release observers	Release time	0, 1800	S
		Release phase	Vapour, Vapour	
		Mass flow	2.59, 2.59	kg/s
		Final velocity	435.31, 435.31	m/s
		Final temperature	25, 25	degC
		Liquid fraction	0,0	fraction
		Droplet diameter		um
		Pool radius		m
		Pre-dilution air rate	0, 0	kg/s
		Downstream calculation status	No errors detected	

kW/m2
fraction
kW/m2
fraction
fraction
S

	Release location	Elevation	0	m
		Tank head	0	m
	Direction	Outdoor release direction	Angled from horizontal impinged	
		Outdoor release angle	45	deg
	Fireball emissive power	Use vessel burst pressure	No	
		Vessel burst pressure - gauge		bar
	Jet fire Miller model hole size	Orifice diameter	0	mm
Risk	Event probability (probability of this event compared with others in this group)	Event probability	0.0519	fraction
	Type of risk effects to model	Reduce risks for mounded / underground tanks	Yes	
	Non-ignition probabilities	Specify probability of non-ignition	Calculate non-ignition probability	
		Non-ignition probability		fraction
	Immediate ignition probabilities	Probability of immediate ignition	Specify directly	
		Immediate ignition probability	0	fraction
	Delayed ignition probabilities	Specify minimum probability of delayed ignition	Use minimum probability of delayed ignition	
		Minimum probability of delayed ignition	1	fraction
		Specify conditional explosion probability	Use conditional probability	
		Conditional explosion probability	1	fraction
Tab	Group	Field Va	lue	Units
	Cox-Lees-Ang and UKOOA ignition modelling	Release type for CLA / UKOOA		
Material	Material	Material characteristics	Toxic and flammable	
		Material to track	TOWNGAS	
		Material to track Type of risk effects to model	TOWNGAS Flammable only	
Dispersion	Dispersion scope			ppm
Dispersion	Dispersion scope	Type of risk effects to model	Flammable only	ppm
Dispersion	Dispersion scope	Type of risk effects to model Concentration of interest Averaging time for concentration of	Flammable only 1200	ppm
Dispersion	Dispersion scope	Type of risk effects to model Concentration of interest Averaging time for concentration of interest	Flammable only 1200 Flammable	ppm s
Dispersion	Dispersion scope Distances of interest	Type of risk effects to model Concentration of interest Averaging time for concentration of interest Specify user-defined averaging time	Flammable only 1200 Flammable	
Dispersion		Type of risk effects to model Concentration of interest Averaging time for concentration of interest Specify user-defined averaging time User defined averaging time	Flammable only 1200 Flammable	s
Dispersion	Distances of interest	Type of risk effects to model Concentration of interest Averaging time for concentration of interest Specify user-defined averaging time User defined averaging time Distances of interest	Flammable only 1200 Flammable No	s
Dispersion	Distances of interest	Type of risk effects to model Concentration of interest Averaging time for concentration of interest Specify user-defined averaging time User defined averaging time Distances of interest ERPG [1 hr]	Flammable only 1200 Flammable No	s
	Distances of interest	Type of risk effects to model Concentration of interest Averaging time for concentration of interest Specify user-defined averaging time User defined averaging time Distances of interest ERPG [1 hr] IDLH [30 mins] STEL [15 mins]	Flammable only 1200 Flammable No No	s
Dispersion Bund, building and terrain	Distances of interest Averaging time for reports	Type of risk effects to model Concentration of interest Averaging time for concentration of interest Specify user-defined averaging time User defined averaging time Distances of interest ERPG [1 hr] IDLH [30 mins]	Flammable only 1200 Flammable No No No	s

		Building type (downwind building type)	Buildings\Building type
	Exposure time data	Set averaging time equal to exposure time	Use a fixed averaging time
		Cut-off fraction of toxic load for exposure time calculation	e 0.05
		Cut-off concentration for exposure time calculations	0
	Toxic contours	Number of toxic levels	1
		Dose levels	1.3E+07
		Probit levels	3
		Lethality levels	0.1
Explosion parameters	Explosion method	Explosion method	Multi-Energy: Uniform confined
	Ignition	Supply late ignition location	No ignition location
		Location of late ignition	
	Vapour liquid method	Use explosion mass modification factor	Yes
		Explosion mass modification factor	3
Fireball	Result types to calculate	Calculate probit	No
		Calculate dose	No
		Calculate lethality	Yes
	Radiation levels	Number of input radiation levels	3
Tab	Group	Field Va	alue
		Intensity levels	4, 12.5, 37.5
		Probit levels	2.73, 3.72, 7.5
		Dose levels	1.27E+06, 5.8E+06, 2.51E+07
		Lethality levels	0.0001, 0.01, 0.99
	Parameters	Mass modification factor	3
		Fireball maximum exposure duration	30
	Calculation method	Fireball model	Martinsen time varying
		TNO model flame temperature	1726.85
Jet fire	Jet fire method	Jet fire method	Cone model
		Calculate probit	No
	Result types to calculate		NO
	Result types to calculate	Calculate dose	No
	Result types to calculate		
	Result types to calculate Radiation levels	Calculate dose	No
		Calculate dose Calculate lethality	No No
		Calculate dose Calculate lethality Number of input radiation levels	No No 3
		Calculate dose Calculate lethality Number of input radiation levels Intensity levels	No No 3 4, 12.5, 37.5
		Calculate dose Calculate lethality Number of input radiation levels Intensity levels Probit levels	No No 3 4, 12.5, 37.5 2.73, 3.72, 7.5

fraction
fraction
fraction
m
Units kW/m2
fraction
S

degC

kW/m2

fraction

	Parameters	Rate modification factor	3
		Jet fire maximum exposure duration	20
	Cone model data	Correlation	Recommended
		Horizontal options	Use standard method
		Flame-shape adjustment if grounded	Yes
	Surface emissive power	Calculation method for surface emissive power	Calculate SEP
		Flame emissive power	
		Emissivity fraction	
Pool fire	Result types to calculate	Calculate probit	No
		Calculate dose	No
		Calculate lethality	No
	Radiation levels	Number of input radiation levels	3
		Intensity levels	4, 12.5, 37.5
		Probit levels	2.73, 3.72, 7.5
		Dose levels	1.27E+06, 5.8E+06, 2.51E+07
		Lethality levels	0.01, 0.1, 0.99
	Parameters	Radiative fraction for general fires	0.4
		Pool fire maximum exposure duration	20

S
3
kW/m2
fraction
kW/m2
fraction
fraction
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10.36 kg/s Release Rate

User defined source

NPW_Safeti_pipeline_20231207_consequence data\Study\Underground Pipeline\Scenario group\Underground Pipe Flashfire Inclined

Tab	Group	Field	Value	Units
Scenario	Release scenario	Release scenario	Leak	
		The number of release observers	2	
	Release observers	Release time	0, 1800	S
		Release phase	Vapour, Vapour	
		Mass flow	10.36, 10.36	kg/s
		Final velocity	435.31, 435.31	m/s
		Final temperature	25, 25	degC
		Liquid fraction	0, 0	fraction
		Droplet diameter		um
		Pool radius		m
		Pre-dilution air rate	0, 0	kg/s
		Downstream calculation status	No errors detected	
	Release location	Elevation	0	m
		Tank head	0	m
	Direction	Outdoor release direction	Angled from horizontal impinged	
		Outdoor release angle	45	deg
	Fireball emissive power	Use vessel burst pressure	No	
		Vessel burst pressure - gauge		bar
	Jet fire Miller model hole size	Orifice diameter	0	mm
Risk	Event probability (probability of this event compared with others in this group)	Event probability	0.0519	fraction
	Type of risk effects to model	Reduce risks for mounded / underground tanks	Yes	
	Non-ignition probabilities	Specify probability of non-ignition	Calculate non-ignition probability	
		Non-ignition probability		fraction
	Immediate ignition probabilities	Probability of immediate ignition	Specify directly	
		Immediate ignition probability	0	fraction
	Delayed ignition probabilities	Specify minimum probability of delayed ignition	Use minimum probability of delayed ignition	
		Minimum probability of delayed ignition	1	fraction
		Specify conditional explosion probability	Calculate conditional probability	
		Conditional explosion probability		fraction

DNV

Tab	Group	Field	/alue	Units
	Cox-Lees-Ang and UKOOA ignition modelling	Release type for CLA / UKOOA		
Material	Material	Material characteristics	Toxic and flammable	
		Material to track	TOWNGAS	
		Type of risk effects to model	Flammable only	
Dispersion	Dispersion scope	Concentration of interest	1200	ppm
		Averaging time for concentration of interest	Flammable	
		Specify user-defined averaging time	No	
		User defined averaging time		S
	Distances of interest	Distances of interest		m
	Averaging time for reports	ERPG [1 hr]	No	
		IDLH [30 mins]	No	
		STEL [15 mins]	No	
Bund, building and terrain	Terrain and bund definition	Type of terrain for dispersion	Land	
		Type of pool substrate and bunds	Concrete, no bund	
Toxic parameters	Indoor toxic calculations	Specify the downwind building type	Unselected	
		Building type (downwind building type)	Buildings\Building type	
	Exposure time data	Set averaging time equal to exposure time	Use a fixed averaging time	
		Cut-off fraction of toxic load for exposunt time calculation	re 0.05	fraction
		Cut-off concentration for exposure time calculations	0	fraction
	Toxic contours	Number of toxic levels	1	
		Dose levels	1.3E+07	
		Probit levels	3	
		Lethality levels	0.1	fraction
Explosion parameters	Explosion method	Explosion method	Multi-Energy: Uniform confined	
	Ignition	Supply late ignition location	No ignition location	
		Location of late ignition		m
	Vapour liquid method	Use explosion mass modification factor	Yes	
		Explosion mass modification factor	3	
Fireball	Result types to calculate	Calculate probit	No	
		Calculate dose	No	
		Calculate lethality	Yes	
	Radiation levels	Number of input radiation levels	3	
Tab	Group	Field	/alue	Units

DNV

		Intensity levels	4, 12.5, 37.5
		Probit levels	2.73, 3.72, 7.5
		Dose levels	1.27E+06, 5.8E+06, 2.51E+07
		Lethality levels	0.0001, 0.01, 0.99
	Parameters	Mass modification factor	3
		Fireball maximum exposure duration	30
	Calculation method	Fireball model	Martinsen time varying
		TNO model flame temperature	1726.85
Jet fire	Jet fire method	Jet fire method	Cone model
	Result types to calculate	Calculate probit	No
		Calculate dose	No
		Calculate lethality	No
	Radiation levels	Number of input radiation levels	3
		Intensity levels	4, 12.5, 37.5
		Probit levels	2.73, 3.72, 7.5
		Dose levels	1.27E+06, 5.8E+06, 2.51E+07
		Lethality levels	0.01, 0.1, 0.99
	Parameters	Rate modification factor	3
		Jet fire maximum exposure duration	20
	Cone model data	Correlation	Recommended
		Horizontal options	Use standard method
		Flame-shape adjustment if grounded	Yes
	Surface emissive power	Calculation method for surface emissive power	Calculate SEP
		Flame emissive power	
		Emissivity fraction	
Pool fire	Result types to calculate	Calculate probit	No
		Calculate dose	No
		Calculate lethality	No
	Radiation levels	Number of input radiation levels	3
		Intensity levels	4, 12.5, 37.5
		Probit levels	2.73, 3.72, 7.5
		Dose levels	1.27E+06, 5.8E+06, 2.51E+07
		Lethality levels	0.01, 0.1, 0.99
	Parameters	Radiative fraction for general fires	0.4
		Pool fire maximum exposure duration	20

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	kW/m2
	fraction fraction
	S



41.4 kg/s Release rate

User defined source

NPW_Safeti_pipeline_20231207_consequence data\Study\Underground Pipeline\Scenario group\Underground Pipe Flashfire Inclined

Tab	Group	Field	Value	Units
Scenario	Release scenario	Release scenario	Leak	
		The number of release observers	2	
	Release observers	Release time	0, 1800	S
		Release phase	Vapour, Vapour	
		Mass flow	41.4, 41.4	kg/s
		Final velocity	435.31, 435.31	m/s
		Final temperature	25, 25	degC
		Liquid fraction	0, 0	fraction
		Droplet diameter	5, 5	um
		Pool radius		m
		Pre-dilution air rate	0, 0	kg/s
		Downstream calculation status	No errors detected	
	Release location	Elevation	0	m
		Tank head	0	m
	Direction	Outdoor release direction	Angled from horizontal impinged	
		Outdoor release angle	45	deg
	Fireball emissive power	Use vessel burst pressure	No	
		Vessel burst pressure - gauge		bar
	Jet fire Miller model hole size	Orifice diameter	0	mm
Risk	Event probability (probability of this event compared with others in this group)	Event probability	0.0329	fraction
	Type of risk effects to model	Reduce risks for mounded / underground tanks	Yes	
	Non-ignition probabilities	Specify probability of non-ignition	Calculate non-ignition probability	
		Non-ignition probability		fraction
	Immediate ignition probabilities	Probability of immediate ignition	Specify directly	
		Immediate ignition probability	0	fraction
	Delayed ignition probabilities	Specify minimum probability of delayed ignition	Use minimum probability of delayed ignition	
		Minimum probability of delayed ignition	1	fraction
		Specify conditional explosion probability	Calculate conditional probability	
		Conditional explosion probability		fraction

Tab	Group	Field	Value	Units
	Cox-Lees-Ang and UKOOA ignition modelling	Release type for CLA / UKOOA		
Material	Material	Material characteristics	Toxic and flammable	
		Material to track	TOWNGAS	
		Type of risk effects to model	Flammable only	
Dispersion	Dispersion scope	Concentration of interest	1200	ppm
		Averaging time for concentration of interest	Flammable	
		Specify user-defined averaging time	No	
		User defined averaging time	30	S
	Distances of interest	Distances of interest		m
	Averaging time for reports	ERPG [1 hr]	No	
		IDLH [30 mins]	No	
		STEL [15 mins]	No	
Bund, building and terrain	Terrain and bund definition	Type of terrain for dispersion	Land	
		Type of pool substrate and bunds	Concrete, no bund	
Toxic parameters	Indoor toxic calculations	Specify the downwind building type	Unselected	
		Building type (downwind building type)	Buildings\Building type	
	Exposure time data	Set averaging time equal to exposure time	Use a fixed averaging time	
		Cut-off fraction of toxic load for exposure time calculation	0.05	fraction
		Cut-off concentration for exposure time calculations	0	fraction
	Toxic contours	Number of toxic levels	1	
		Dose levels	1.3E+07	
		Probit levels	3	
		Lethality levels	0.1	fraction
Explosion parameters	Explosion method	Explosion method	Multi-Energy: Uniform confined	
	Ignition	Supply late ignition location	No ignition location	
		Location of late ignition		m
	Vapour liquid method	Use explosion mass modification factor	Yes	
		Explosion mass modification factor	3	
Fireball	Result types to calculate	Calculate probit	No	
		Calculate dose	No	
		Calculate lethality	Yes	
	Radiation levels	Number of input radiation levels	3	
Tab	Group	Field	Value	Units

DNV

		Intensity levels	4, 12.5, 37.5
		Probit levels	2.73, 3.72, 7.5
		Dose levels	1.27E+06, 5.8E+06, 2.51E+07
		Lethality levels	0.0001, 0.01, 0.99
	Parameters	Mass modification factor	3
		Fireball maximum exposure duration	30
	Calculation method	Fireball model	Martinsen time varying
		TNO model flame temperature	1726.85
Jet fire	Jet fire method	Jet fire method	Cone model
	Result types to calculate	Calculate probit	No
		Calculate dose	No
		Calculate lethality	No
	Radiation levels	Number of input radiation levels	3
		Intensity levels	4, 12.5, 37.5
		Probit levels	2.73, 3.72, 7.5
		Dose levels	1.27E+06, 5.8E+06, 2.51E+07
		Lethality levels	0.01, 0.1, 0.99
	Parameters	Rate modification factor	3
		Jet fire maximum exposure duration	20
	Cone model data	Correlation	Recommended
		Horizontal options	Use standard method
		Flame-shape adjustment if grounded	Yes
	Surface emissive power	Calculation method for surface emissive power	Calculate SEP
		Flame emissive power	
		Emissivity fraction	
Pool fire	Result types to calculate	Calculate probit	No
		Calculate dose	No
		Calculate lethality	No
	Radiation levels	Number of input radiation levels	3
		Intensity levels	4, 12.5, 37.5
		Probit levels	2.73, 3.72, 7.5
		Dose levels	1.27E+06, 5.8E+06, 2.51E+07
		Lethality levels	0.01, 0.1, 0.99
	Parameters	Radiative fraction for general fires	0.4
		Pool fire maximum exposure duration	20

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	kW/m2
	fraction fraction
	S



10mm leak (Jet Fire) vertical

Standalones

NPW_Safeti_pipeline_20231207_consequence data\Study\Underground Pipeline\Scenario group

Tab	Group	Field	Value
Material	Material	Material	TOWNGAS

10mm leak (Jet Fire) - Jet fire

Jet fire

NPW_Safeti_pipeline_20231207_consequence data\Study\Underground Pipeline\Scenario group\10mm leak (Jet Fire) vertical

Tab	Group	Field	Value	Units
Jet fire	Release location	Elevation of discharge point	0	m
	Jet fire model	Jet fire method	Cone model	
	Release orientation	Inclination of jet from horizontal	90	deg
		Jet direction	Vertical	
		Rotation about the z-axis (anti- clockwise from the east)	0	deg
	Release characteristics	Calculate jet velocity?	Given jet velocity	
		Mass discharge rate	0.41439	kg/s
		Two-phase release?	No	
		Post-expansion liquid fraction	0	fraction
		Post-expansion jet temperature	25	degC
		Jet velocity	330	m/s
		Expanded diameter	0.0536558	m
		Orifice diameter	0	mm
		Flame length	0	m
		Use flame length correlation?	Do not calculate flame length	
		Calculate the expanded diameter?	Calculate expanded diameter	
Risk	Event probability (probability of this event compared with others in this group)	Event probability	0.001	fraction
	Directional probabilities for risk	Directional probabilities for risk and 3D effects	Use wind rose probabilities	
Jet fire parameters	Radiation levels	Number of input radiation levels	5	
		Intensity levels	38.6, 26.5	kW/m2
	Cone model data	Horizontal options	Use standard method	
		Correlation	Recommended	

Flame-shape	adjustment if	arounded	Yes
i lanne onape	aajabernenen	grounded	

		Flame-shape adjustment if grounded Yes			
Tab	Group	Field	Value	Units	
	Surface emissive power	Calculation method for surface emissive power	Calculate SEP		
		Flame emissive power		kW/m2	
		Emissivity fraction		fraction	
	Exposure duration	Jet fire maximum exposure duration	20	S	
Wind direction	Wind direction	Wind direction	270	deg	
		Wind orientation about the z-axis (anti-clockwise from the East)	0	deg	
Calculations	Type of results required	Radiation at a point	No		
		Radiation vs distance	No		
		Radiation ellipse	No		
		Radiation contours	Yes		
Radiation contours	Display	Chart type being plotted	Cross-section (YZ plane)		
	Contour footprint	Height above origin	2	m	
	Contour side view	Distance along the y-axis	0	m	
	Contour cross-section	Distance along the x-axis	0	m	
	User-defined contour plane origin	Х		m	
		Y		m	
		Z		m	
	User-defined contour plane X axis	Х		m	
		Υ		m	
		Z		m	
	User-defined contour plane Y axis	Х		m	
		Y		m	
		Z		m	

25mm leak (Jet Fire) - Jet fire

Jet fire

NPW_Safeti_pipeline_20231207_consequence data\Study\Underground Pipeline\Scenario group\10mm leak (Jet Fire) vertical

Tab	Group	Field	Value	Units
Jet fire	Release location	Elevation of discharge point	0	m
	Jet fire model	Jet fire method	Cone model	
	Release orientation	Inclination of jet from horizontal	90	deg
		Jet direction	Vertical	

		Rotation about the z-axis (anti- clockwise from the east)	0	deg
Tab	Group	Field	Value	Units
	Release characteristics	Calculate jet velocity?	Given jet velocity	
		Mass discharge rate	2.58991	kg/s
		Two-phase release?	No	
		Post-expansion liquid fraction	0	fraction
		Post-expansion jet temperature	25	degC
		Jet velocity	330	m/s
		Expanded diameter	0.134139	m
		Orifice diameter	0	mm
		Flame length	0	m
		Use flame length correlation?	Do not calculate flame length	
		Calculate the expanded diameter?	Calculate expanded diameter	
Risk	Event probability (probability of this event compared with others in this group)	Event probability	0.0105	fraction
	Directional probabilities for risk	Directional probabilities for risk and 3D effects	Use wind rose probabilities	
Jet fire parameters	Radiation levels	Number of input radiation levels	5	
		Intensity levels	38.6, 26.5	kW/m2
	Cone model data	Horizontal options	Use standard method	
		Correlation	Recommended	
		Flame-shape adjustment if grounded	Yes	
	Surface emissive power	Calculation method for surface emissive power	Calculate SEP	
		Flame emissive power		kW/m2
		Emissivity fraction		fraction
	Exposure duration	Jet fire maximum exposure duration	20	S
Wind direction	Wind direction	Wind direction	270	deg
		Wind orientation about the z-axis (anti-clockwise from the East)	0	deg
Calculations	Type of results required	Radiation at a point	No	
		Radiation vs distance	No	
		Radiation ellipse	No	
		Radiation contours	Yes	
Radiation contours	Display	Chart type being plotted	Cross-section (YZ plane)	
	Contour footprint	Height above origin		m
	Contour side view	Distance along the y-axis	0	m
Tab	Group	Field	Value	Units

Contour cross-section	Distance along the x-axis	0	m
User-defined contour plane origin	Х		m
	Y		m
	Z		m
User-defined contour plane X axis	Х		m
	Y		m
	Z		m
User-defined contour plane Y axis	Х		m
	Y		m
	Z		m

50mm leak (Jet Fire) - Jet fire

Jet fire

NPW_Safeti_pipeline_20231207_consequence data\Study\Underground Pipeline\Scenario group\10mm leak (Jet Fire) vertical

Tab	Group	Field	Value	Units
Jet fire	Release location	Elevation of discharge point	0	m
	Jet fire model	Jet fire method	Cone model	
	Release orientation	Inclination of jet from horizontal	90	deg
		Jet direction	Vertical	
		Rotation about the z-axis (anti- clockwise from the east)	0	deg
	Release characteristics	Calculate jet velocity?	Given jet velocity	
		Mass discharge rate	10.3596	kg/s
		Two-phase release?	No	
		Post-expansion liquid fraction	0	fraction
		Post-expansion jet temperature	25	degC
		Jet velocity	330	m/s
		Expanded diameter	0.268277	m
		Orifice diameter	0	mm
		Flame length	0	m
		Use flame length correlation?	Do not calculate flame length	
		Calculate the expanded diameter?	Calculate expanded diameter	
Risk	Event probability (probability of this event compared with others in this group)	Event probability	0.0105	fraction
	Directional probabilities for risk	Directional probabilities for risk and 3D effects	Use wind rose probabilities	
Tab	Group	Field	Value	Units



Jet fire parameters	Radiation levels	Number of input radiation levels	5	
		Intensity levels	38.6, 26.5	kW/m2
	Cone model data	Horizontal options	Use standard method	
		Correlation	Recommended	
		Flame-shape adjustment if grounded	l Yes	
	Surface emissive power	Calculation method for surface emissive power	Calculate SEP	
		Flame emissive power		kW/m2
		Emissivity fraction		fraction
	Exposure duration	Jet fire maximum exposure duration	20	S
Wind direction	Wind direction	Wind direction	270	deg
		Wind orientation about the z-axis (anti-clockwise from the East)	0	deg
Calculations	Type of results required	Radiation at a point	No	
		Radiation vs distance	No	
		Radiation ellipse	No	
		Radiation contours	Yes	
Radiation contours	Display	Chart type being plotted	Side view (XZ plane)	
	Contour footprint	Height above origin		m
	Contour side view	Distance along the y-axis	0	m
	Contour cross-section	Distance along the x-axis		m
	User-defined contour plane origin	Х		m
		Υ		m
		Z		m
	User-defined contour plane X axis	Х		m
		Υ		m
		Z		m
	User-defined contour plane Y axis	Х		m
		Υ		m
		Z		m

100mm leak (Jet Fire) - Jet fire

Jet fire

NPW_Safeti_pipeline_20231207_consequence data\Study\Underground Pipeline\Scenario group\10mm leak (Jet Fire) vertical

Tab	Group	Field	Value
Jet fire	Release location	Elevation of discharge point	0

Units
m

	Jet fire model	Jet fire method	Cone model	
	Release orientation	Inclination of jet from horizontal	90	deg
		Jet direction	Vertical	
		Rotation about the z-axis (anti- clockwise from the east)	0	deg
	Release characteristics	Calculate jet velocity?	Given jet velocity	
		Mass discharge rate	41.4	kg/s
		Two-phase release?	No	
		Post-expansion liquid fraction	0	fraction
		Post-expansion jet temperature	25	degC
		Jet velocity	330	m/s
		Expanded diameter	0.536305	m
		Orifice diameter	0	mm
		Flame length	0	m
		Use flame length correlation?	Do not calculate flame length	
		Calculate the expanded diameter?	Calculate expanded diameter	
Risk	Event probability (probability of this event compared with others in this group)	Event probability	0.0067	fraction
	Directional probabilities for risk	Directional probabilities for risk and 3D effects	Use wind rose probabilities	
let fire parameters	Radiation levels	Number of input radiation levels	5	
		Intensity levels	38.6, 26.5	kW/m2
	Cone model data	Horizontal options	Use standard method	
		Correlation	Recommended	
		Flame-shape adjustment if grounded	Yes	
	Surface emissive power	Calculation method for surface emissive power	Calculate SEP	
		Flame emissive power		kW/m2
		Emissivity fraction		fraction
	Exposure duration	Jet fire maximum exposure duration	20	s
Vind direction	Wind direction	Wind direction	270	deg
		Wind orientation about the z-axis (anti-clockwise from the East)	0	deg
Calculations	Type of results required	Radiation at a point	No	
		Radiation vs distance	No	
		Radiation ellipse	No	
Fab	Group	Field	Value	Units
	eroup	Radiation contours	Yes	011113
Radiation contours	Display	Chart type being plotted	Side view (XZ plane)	
	Uispiay	chart type being plotted		

Contour footprint	Height above origin	
Contour side view	Distance along the y-axis 0)
Contour cross-section	Distance along the x-axis	
User-defined contour pla	ne origin X	
	Y	
	Z	
User-defined contour pla	ne X axis X	
	Y	
	Z	
User-defined contour pla	ne Y axis X	
	Y	
	Z	

Full bore

Standalones

NPW_Safeti_pipeline_20231207_consequence data\Study\Underground Pipeline\Scenario group

Tab	Group	Field	Value
Material	Material	Material	TOWNGAS

Fireball

Fireball

NPW_Safeti_pipeline_20231207_consequence data\Study\Underground Pipeline\Scenario group\Full bore

Tab	Group	Field	Value
Fireball	Released mass	Released mass	11000
		Vapour mass fraction	1
	Burst pressure	Supply burst pressure - gauge	Yes
		Burst pressure - gauge	35
	Surface emissive power	Calculation method for surface emissive power	Calculate SEP
		Flame surface emissive power	
	Flame shape definition	Fireball radius	
Tab	Group	Field	Value
		Fireball duration	
		Use shape correlation	Use Correlation

m
m
m
m
m
m
m
m
m
m
m
m

Units
kg
fraction
bar
kW/m2
m
Units
S



Risk	Event probability (probability of this event compared with others in this group)	Event probability	0.003
Fireball parameters	Radiation levels	Number of input radiation levels	3
		Intensity levels	38.6, 26.5
	Parameters	Mass modification factor	3
		Fireball maximum exposure duration	9.34
	Calculation method	Fireball model	Martinsen time varying
		TNO model flame temperature	1726.85
Calculations	Type of results required	Radiation at a point	No
		Radiation vs distance	No
		Radiation ellipse	No
		Radiation contours	Yes
Radiation contours	Display	Chart type being plotted	Side view (XZ plane)
	Contour footprint	Height above origin	
	Contour side view	Distance along the y-axis	0
	Contour cross-section	Distance along the x-axis	0
	User-defined contour plane origin	Х	
		Υ	
		Z	
	User-defined contour plane X axis	Х	
	User-defined contour plane X axis	X Y	
	User-defined contour plane X axis		
	User-defined contour plane X axis User-defined contour plane Y axis	Υ	
		Y Z	

Jet Fire inclined

Standalones

NPW_Safeti_pipeline_20231207_consequence data\Study\Underground Pipeline\Scenario group

Tab	Group	Field	Value
Material	Material	Material	TOWNGAS

10mm leak (Jet Fire) - Jet fire

Jet fire

NPW_Safeti_pipeline_20231207_consequence data\Study\Underground Pipeline\Scenario group\Jet Fire inclined

fraction
kW/m2
S
degC
m
m
m m
m
m m
m
m
m m
m

Tab	Group	Field	Value	Units
Jet fire	Release location	Elevation of discharge point	0	m
	Jet fire model	Jet fire method	Cone model	
	Release orientation	Inclination of jet from horizontal	45	deg
		Jet direction	Vertical	
		Rotation about the z-axis (anti- clockwise from the east)	0	deg
	Release characteristics	Calculate jet velocity?	Given jet velocity	
		Mass discharge rate	0.41439	kg/s
		Two-phase release?	No	
		Post-expansion liquid fraction	0	fraction
		Post-expansion jet temperature	25	degC
		Jet velocity	330	m/s
		Expanded diameter	0.0536558	m
		Orifice diameter	0	mm
		Flame length	0	m
		Use flame length correlation?	Do not calculate flame length	
		Calculate the expanded diameter?	Calculate expanded diameter	
Risk	Event probability (probability of this event compared with others in this group)	Event probability	0.001	fraction
	Directional probabilities for risk	Directional probabilities for risk and 3D effects	Use wind rose probabilities	
let fire parameters	Radiation levels	Number of input radiation levels	5	
		Intensity levels	38.6, 26.5	kW/m2
	Cone model data	Horizontal options	Use standard method	
		Correlation	Recommended	
		Flame-shape adjustment if grounded	l Yes	
	Surface emissive power	Calculation method for surface emissive power	Calculate SEP	
		Flame emissive power		kW/m2
		Emissivity fraction		fraction
	Exposure duration	Jet fire maximum exposure duration	20	S
Vind direction	Wind direction	Wind direction	270	deg
		Wind orientation about the z-axis (anti-clockwise from the East)	0	deg
Гар	Group	Field	Value	Units
Calculations	Type of results required	Radiation at a point	No	
		Radiation vs distance	No	

DNV

Application for Amendment of Plan to Rezone the Application Site from "Green Belt" to "Residential (Group C)1" for Proposed House Development at Various Lots in D.D. 244 and Adjoining Government Land, Nam Pin Wai, Sai Kung

		Radiation ellipse	No
		Radiation contours	Yes
Radiation contours	Display	Chart type being plotted	Cross-section (YZ plane)
	Contour footprint	Height above origin	2
	Contour side view	Distance along the y-axis	0
	Contour cross-section	Distance along the x-axis	0
	User-defined contour plane origin	X	
		Y	
		Z	
	User-defined contour plane X axis	Х	
		Y	
		Z	
	User-defined contour plane Y axis	X	
		Y	
		Z	

25mm leak (Jet Fire) - Jet fire

Jet fire

NPW_Safeti_pipeline_20231207_consequence data\Study\Underground Pipeline\Scenario group\Jet Fire inclined

Tab	Group	Field	Value
Jet fire	Release location	Elevation of discharge point	0
	Jet fire model	Jet fire method	Cone model
	Release orientation	Inclination of jet from horizontal	45
		Jet direction	Vertical
		Rotation about the z-axis (anti- clockwise from the east)	0
	Release characteristics	Calculate jet velocity?	Given jet velocity
		Mass discharge rate	2.58991
		Two-phase release?	No
		Post-expansion liquid fraction	0
		Post-expansion jet temperature	25
		Jet velocity	330
Tab	Group	Field	Value
		Expanded diameter	0.134139
		Orifice diameter	0
		Flame length	0
		Flame length	0

m
m
m
m
m
m
m
m
m
m
m
m

Units
m
deg
deg
kg/s
fraction
degC
m/s
Units
m
mm
m



Risk First probability of this of misk Fort probability of this of misk 0.010 fraction Directional probabilities for risk Directional probabilities for risk and 30 effects Use wind rose probabilities k Def fire parameters Radiation levels Directional probability levels 5 k Cone model data Directional whether in firupt radiation levels 86 c, 26, 56, 56, 56, 56, 56, 56, 56, 56, 56, 5			Use flame length correlation?	Do not calculate flame length Calculate expanded diameter	
Compared with others in this group? Directional probabilities for risk 3D effects Use wind one probabilities for risk 3D effects Second probabilities for risk 3D effects Intensity levels 36, 26, 5 KW/m2 Intensity levels Second method KW/m2 Intensity levels Second method KW/m2 Intensity levels Calculation method for surface missive power Filme-shape adjustment if grounded Filme emissive power KW/m2 Intensity levels Calculation method for surface emissive power Filme emissive power KW/m2 Intensity levels Filme maximum exposure duration 20 Second method for surface Wind direction Wind direction about the 2-xxis Calculation set from maximum exposure duration 20 Second method for surface Calculations Kype of results required Radiation contours Radiation contours Second method for surface Calculations Kind direction about the 2-xxis No Mild surface Second m	Dist		Calculate the expanded diameter?		for all an
Intensity levels Second product of input radiation radiatin radiation radiation radiation radiation radiation radiatio	RISK		Event probability	0.0105	fraction
Intensity levels38.6, 26.5KW/m2Cone model dataHorizontal optionsUse standard methodCorrelationRecommendedFlame-shape adjustment if groundedYesFlame-shape adjustment if groundedYesFlame emissive powerGalculate SEPFlame emissive powerYesExposure durationInt fire maximum exposure durationKWind directionWind directionWind directionWind direction about the zaxis (anti-clockwise from the East) (anti-clockwise from the East)CalculationsType of results requiredRadiation ellipseRadiation contoursNoCantour footprintHeight above originContour rotos-sectionDistance along the y-axisContour rotos-sect		Directional probabilities for risk		Use wind rose probabilities	
Cane model dataHorizontal optionsUse standard methodCorrelationCorrelationRemomededNetholFinanceFinanceStandardNetholSurface emissive powerCalculation embodie surface (Singe power)Calculate SEPKalculatHame emissive powerFinanceFinanceNetholKalculationEnsive forceStandardNetholMind directionMind directionVind directionStandardWind directionMind orientation about the 2-asi (Sincolective for the Easistic)StandardStandardCalculationsType of results requiredRelation at pointNoStandardCalculation contoursRelation dilegsNoStandardStandardRelation contoursStandard engineStandardStandardStandardRelation contour siteStanda	Jet fire parameters	Radiation levels	Number of input radiation levels	5	
Surface emissive power Carrelation Recommended Filame -shape adjustment if grounded Yes Calculate SEP KW/m2 Filame -missive power Calculate SEP Filame emissive power KW/m2 Filame emissive power Calculate SEP Kaldution Emissive power Exposure duration If are maximum exposure duration Wind direction Wind direction about the z-axis (anti-clockwise from the East) Calculations Type of results required Radiation valiation Radiation valiation valiation valiation No Image: Section (YZ plane) Radiation contours Display Chart type being plotted Cress-section (YZ plane) Contour footprint Height above origin mage: Section (YZ plane) mage: Section Contour ross-section Distance along the y-axis 0 mage: Section Contour ross-section Distance along the y-axis 0 mage: Section Contour ross-section Distance along the y-axis 0 mage: Section Contour ross-section Distance along the y-axis 0 mage: Section Contour ros			Intensity levels	38.6, 26.5	kW/m2
Flame-shape adjustment if grounded Yes Surface emissive power Calculation method for surface emissive power Calculation surface emissive power Calculate SEP Flame emissive power Flame emissive power kW/m2 Flame emissive power Flame emissive power kW/m2 Ensissive fraction 20 s Wind direction Wind direction 270 deg Wind orientation about the z-asis (arti-clockwise from the East) 0 s Calculation so distance No s Radiation visitation ellipse No s Radiation contours Yes s Contour footprint Height above origin m Yes Yes s s Yes Yes s		Cone model data	Horizontal options	Use standard method	
Surface emissive power Calculation method for surface emissive power Calculate SEP Finame emissive power Finame emissive power KW/m2 Exposure duration Emissivity fraction I fraction Wind direction Jet fre maximum exposure duration 20 s Wind direction Wind direction 270 deg Wind offerction about the 2-axis (anti-clockwise from the East) 0 deg Calculations Type of results required Radiation at a point No Addiation Calculation contours Type of results required Radiation entours Yes - - Radiation contours Yes Contour footprint Height above origin No - Radiation contours Yes Contour ridos resection Distance along the y-axis 0 maximum Contour footprint Height above origin X - maximum - Contour cross-section Distance along the y-axis 0 maximum maximum User-defined contour plane Y axis X - maximum			Correlation	Recommended	
image in the second			Flame-shape adjustment if grounded	Yes	
Image: series of the series		Surface emissive power		Calculate SEP	
Exposure durationJet fire maximum exposure duration20sWind directionWind direction270degWind orientation about the z-axis (anti-clockwise from the Eachs)cloce constraintsdegCalculationsType of results requiredRadiation at a pointNoanti-clockwise from the EachsCalculationsType of results requiredRadiation visitanceNoanti-clockwise from the EachsCalculationsNoNoanti-clockwise from the EachsNoRadiation contoursRadiation visitanceNoanti-clockwise from the EachsRadiation contoursContour footprintRadiation contoursYesContour softe viewDistance along the x-axisGontour cors-sectionmandContour softe viewDistance along the x-axisGontour corsmandContour softe viewStance along the x-axisGontour corsmandContour softe viewStance along the x-axisGontour corsmandContour cors-sectionNaAntonmandContour cors-sectionKaccalong the x-axisMandmandContour cors-sectionKaccalong the x-axismandmandContour cors-sectionYesmandmandContour cors-sectionKaccalong the x-axismandmandContour cord plane originYesYesmandContour courd plane to the x-axisStance along the x-axismandmandContour courd plane to the x-axisYesmandmandCo			Flame emissive power		kW/m2
Wind directionWind direction270degWind orientation about the z-axis (anti-clockwise from the East)0degCalculationsType of results requiredRadiation at a pointNoRadiation at a pointNoRadiation s distanceNoRadiation contoursRadiation contoursYesRadiation contoursDisplayContour footprintMind envertingMind envertingContour footprintHeight above originmContour ross-sectionDistance along the y-axis0mContour ross-sectionDistance along the y-axis0mContour ross-sectionDistance along the x-axis0mContour ross-sectionYesmmContour ross-sectionYesmmContour ross-sectionYesmmContour ross-sectionYesmmContour plane originYesYesmmYesYesYesmmContour plane Y axisXesMenter SectionmmContour plane Y axisYesYesmmYesYesYesmmmYesYesYesYesmmYesYesYesYesmm<			Emissivity fraction		fraction
CalculationsWind orientation about the z-axis (arti-clockwise from the East)0degCalculationsType of results requiredRadiation at a pointNoRadiation vs distanceNoRadiation contoursNoRadiation contoursYesRadiation contoursYesContour footprintHeight above originmContour side viewDistance along the y-axis0mContour cross-sectionDistance along the y-axis0mContour cross-sectionDistance along the y-axis0mUser-defined contour plane originXImage: Contour cross-sectionmUser-defined contour plane AxisXImage: Contour cross-sectionmContour cross-sectionYesImage: Contour cross-sectionmContour cross-sectionDistance along the x-axis0mContour cross-sectionYesImage: Contour cross-sectionmContour cross-sectionYesImage: Contour cross-sectionmImage: Contour cross-sectionYesImage: Contour cross-sectionmImage: Contour cross-sectionYesImage: Contour cross		Exposure duration	Jet fire maximum exposure duration	20	S
Calculations Type of results required Radiation at a point No Radiation valistance No Adiation valistance Radiation valistance No Adiation valistance Radiation contours Radiation contours No Adiation valistance Contour footprint Radiation contours Yes Monoreal Contour footprint Height above origin Contour (YZ plane) Monoreal Contour side view Distance along the y-axis O Monoreal Monoreal Contour cross-section Distance along the y-axis O Monoreal Monoreal Contour cross-section Distance along the y-axis O Monoreal Monoreal Contour cross-section Distance along the y-axis O Monoreal Monoreal Contour cross-section Distance along the y-axis O Monoreal Monoreal Contour cross-section Distance along the y-axis O Monoreal Monoreal Contour cross-section Distance along the y-axis O Monoreal Monoreal Contour cross-section Y Z Monoreal Monoreal	Wind direction	Wind direction	Wind direction	270	deg
Radiation vs distance No Radiation ellipse No Radiation contours No Radiation contours Yes Contour footprint Height above origin Contour side view Distance along the y-axis O Contour cross-section Distance along the y-axis 0 Contour cross-section Distance along the x-axis O User-defined contour plane origin X Mainton Y Yes Mainton User-defined contour plane Axis X Mainton User-defined contour plane Y axis Yes Mainton Z Yes Mainton Mainton Tab Group Yes Mainton Mainton Y Yes Mainton Mainton Mainton				0	deg
Radiation contoursNoNoRadiation contoursYesRadiation contoursDisplayChart type being plottedCross-section (YZ plane)Contour footprintHeight above originmContour side viewDistance along the y-axis0mContour cross-sectionDistance along the y-axis0mUser-defined contour plane originXImage: Section (YZ plane)mVValueSection (YZ plane)mMVSection (YZ plane)mMMVSection (YZ plane)mMMVSection (YZ plane)MMMVSection (YZ plane)MMMVSection (YZ plane)MMMVSection (YZ plane)MMMVSection (YZ plane)MMMVYSection (YZ plane)MMVSection (YZ plane)MMMVSection (YZ plane)MMMVSection (YZ plane)MMMVSection (YZ plane)MMMVSection (YZ plane)MMMSection (YZ plane)Section (YZ plane)MMSection (YZ plane)Section (YZ plane)MMSection (YZ plane)Section (YZ plane)MMSection (YZ plane)Section (YZ plane)MMSection (YZ plane)Section (YZ plane)<	Calculations	Type of results required	Radiation at a point	No	
Radiation contoursDisplayRadiation contoursYesRadiation contoursDisplayChart type being plottedCross-section (YZ plane)mContour footprintHeight above originmmmContour side viewDistance along the y-axis0mmContour cross-sectionDistance along the x-axis0mmUser-defined contour plane originXImage: Contour contour plane originmmVer-defined contour plane AxisXImage: Contour contour plane X axismmUser-defined contour plane X axisXImage: Contour contour plane X axismmZZImage: Contour contour plane Y axisXImage: Contour contour contour contour plane Y axismTabGroupFieldYYmm			Radiation vs distance	No	
Radiation contoursDisplayChart type being plottedCross-section (YZ plane)Image: section (YZ plane)Contour footprintHeight above originmage: section (YZ plane)mage: section (YZ plane)Contour side viewDistance along the y-axis0mage: section (YZ plane)Contour cross-sectionDistance along the y-axis0mage: section (YZ plane)User-defined contour plane originXSection (YZ plane)mage: section (YZ plane)YYSection (YZ plane)mage: section (YZ plane)mage: section (YZ plane)User-defined contour plane originXSection (YZ plane)mage: section (YZ plane)YYSection (YZ plane)Mage: section (YZ plane)mage: section (YZ plane)User-defined contour plane Y axisYSection (YZ plane)mage: section (YZ plane)TabGroupFieldValueUnitsYYSection (YZ plane)Mage: section (YZ plane)			Radiation ellipse	No	
Contour footprintHeight above originmContour side viewDistance along the y-axis0mContour cross-sectionDistance along the x-axis0mUser-defined contour plane originXImYYmmUser-defined contour plane XaxisXmmYYmmYYmmYYmmYYmmYYmmYYmmTabGroupFieldValueUnitsYYmm			Radiation contours	Yes	
Contour side viewDistance along the y-axis0mContour cross-sectionDistance along the x-axis0mUser-defined contour plane originXImmediatemYYmmUser-defined contour plane X axisXmmUser-defined contour plane X axisYmmYYmmTabGroupFieldValueUnitsYYmm	Radiation contours	Display	Chart type being plotted	Cross-section (YZ plane)	
Contour cross-sectionDistance along the x-axis0mUser-defined contour plane originXnmYZnmUser-defined contour plane X axisXnmYYnmYYmmUser-defined contour plane Y axisYmmYYmmTabGroupFieldValueUnitsYmmm		Contour footprint	Height above origin		m
User-defined contour plane origin X m Y m m Lee - defined contour plane X axis Z m User-defined contour plane X axis X m Y Y m User-defined contour plane Y axis Y m Z m m Y Y m Tab Group Field Value Units Y Y m M		Contour side view	Distance along the y-axis	0	m
YmZZMUser-defined contour plane X axisXmYZMUser-defined contour plane Y axisXmZMMTabGroupFieldValueYmm		Contour cross-section	Distance along the x-axis	0	m
Image: section of the section of th		User-defined contour plane origin	Х		m
User-defined contour plane X axisXmYYMMZMMUser-defined contour plane Y axisXMTabGroupFieldValueUnitsYMMM			Y		m
YMMZMUser-defined contour plane Y axisXTabGroupFieldValueUnitsYM			Z		m
Z m User-defined contour plane Y axis X m Tab Group Field Value Units Y Y m m		User-defined contour plane X axis	Х		m
User-defined contour plane Y axisXmTabGroupFieldValueUnitsYYm			Y		m
TabGroupFieldValueUnitsYm			Z		m
Y		User-defined contour plane Y axis	Х		m
Y	Tab	Group	Field	Value	Units
					m
Z			Z		m



50mm leak (Jet Fire) - Jet fire

Jet fire

NPW_Safeti_pipeline_20231207_consequence data\Study\Underground Pipeline\Scenario group\Jet Fire inclined

Tab	Group	Field	Value	Units
Jet fire	Release location	Elevation of discharge point	0	m
	Jet fire model	Jet fire method	Cone model	
	Release orientation	Inclination of jet from horizontal	45	deg
		Jet direction	Vertical	
		Rotation about the z-axis (anti- clockwise from the east)	0	deg
	Release characteristics	Calculate jet velocity?	Given jet velocity	
		Mass discharge rate	10.36	kg/s
		Two-phase release?	No	
		Post-expansion liquid fraction	0	fraction
		Post-expansion jet temperature	25	degC
		Jet velocity	330	m/s
		Expanded diameter	0.268282	m
		Orifice diameter	0	mm
		Flame length	0	m
		Use flame length correlation?	Do not calculate flame length	
		Calculate the expanded diameter?	Calculate expanded diameter	
Risk	Event probability (probability of this event compared with others in this group)	Event probability	0.0105	fraction
	Directional probabilities for risk	Directional probabilities for risk and 3D effects	Use wind rose probabilities	
Jet fire parameters	Radiation levels	Number of input radiation levels	5	
		Intensity levels	38.6, 26.5	kW/m2
	Cone model data	Horizontal options	Use standard method	
		Correlation	Recommended	
		Flame-shape adjustment if grounded	Yes	
	Surface emissive power	Calculation method for surface emissive power	Calculate SEP	
Tab	Group	Field	Value	Units
		Flame emissive power		kW/m2
		Emissivity fraction		fraction
	Exposure duration	Jet fire maximum exposure duration	20	S
Wind direction	Wind direction	Wind direction	270	deg

		Wind orientation about the z-axis (anti-clockwise from the East)	0
Calculations	Type of results required	Radiation at a point	No
		Radiation vs distance	No
		Radiation ellipse	No
		Radiation contours	Yes
Radiation contours	Display	Chart type being plotted	Side view (XZ plane)
	Contour footprint	Height above origin	
	Contour side view	Distance along the y-axis	0
	Contour cross-section	Distance along the x-axis	
	User-defined contour plane origin	Х	
		Υ	
		Z	
	User-defined contour plane X axis	Х	
		Y	
		Z	
	User-defined contour plane Y axis	Х	
		Y	
		Z	

100mm leak (Jet Fire) - Jet fire

Jet fire

DNV

NPW_Safeti_pipeline_20231207_consequence data\Study\Underground Pipeline\Scenario group\Jet Fire inclined

Tab	Group	Field	Value	Units
Jet fire	Release location	Elevation of discharge point	0	m
	Jet fire model	Jet fire method	Cone model	
	Release orientation	Inclination of jet from horizontal	45	deg
		Jet direction	Vertical	
		Rotation about the z-axis (anti- clockwise from the east)	0	deg
	Release characteristics	Calculate jet velocity?	Given jet velocity	
Tab	Group	Field	Value	Units
		Mass discharge rate	41.4	kg/s
		Two-phase release?	No	
		Post-expansion liquid fraction	0	fraction
		Post-expansion jet temperature	25	degC

Application for Amendment of Plan to Rezone the Application Site from "Green Belt" to "Residential (Group C)1" for Proposed House Development at Various Lots in D.D. 244 and Adjoining Government Land, Nam Pin Wai, Sai Kung

deg

m
m
m
m
m
m
m
m
m
m
m
m

DNV

		Jet velocity	330	m/s
		Expanded diameter	0.536305	m
		Orifice diameter	0	mm
		Flame length	0	m
		Use flame length correlation?	Do not calculate flame length	
		Calculate the expanded diameter?	Calculate expanded diameter	
Risk	Event probability (probability of this event compared with others in this group)	Event probability	0.0067	fraction
	Directional probabilities for risk	Directional probabilities for risk and 3D effects	Use wind rose probabilities	
Jet fire parameters	Radiation levels	Number of input radiation levels	5	
		Intensity levels	38.6, 26.5	kW/m2
	Cone model data	Horizontal options	Use standard method	
		Correlation	Recommended	
		Flame-shape adjustment if grounded	l Yes	
	Surface emissive power	Calculation method for surface emissive power	Calculate SEP	
		Flame emissive power		kW/m2
		Emissivity fraction		fraction
	Exposure duration	Jet fire maximum exposure duration	20	S
Wind direction	Wind direction	Wind direction	270	deg
		Wind orientation about the z-axis (anti-clockwise from the East)	0	deg
Calculations	Type of results required	Radiation at a point	No	
		Radiation vs distance	No	
		Radiation ellipse	No	
		Radiation contours	Yes	
Radiation contours	Display	Chart type being plotted	Side view (XZ plane)	
	Contour footprint	Height above origin		m
	Contour side view	Distance along the y-axis	0	m
	Contour cross-section	Distance along the x-axis		m
	User-defined contour plane origin	Х		m
		Y		m
Tab	Group	Field	Value	Units
		Z		m
	User-defined contour plane X axis	х		m
		Y		m
		Z		m
	User-defined contour plane Y axis	Х		m



Application for Amendment of Plan to Rezone the Application Site from "Green Belt" to "Residential

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 | CARBON MONOXIDE
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 | Flammable (12.73)

 | n/a n/a n/a
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0.103572
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0.20708
0.207084
0.20098 | n/s
n/s
n/s
n/s
n/s
n/s
0.103572
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0.205567 n/s | 0.0408645
0.0409785
0.040913
0.0435385
0.0435385
0.0316674
0.0316674
0.0869318 | 0.103572
0.103812
0.104174
0.100372
0.0974496
0.20708
0.207684
0.208544
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 | 0.000975275
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0.0035778 | 0.154611
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0.833595 0.13 | 0582019 0.006 0361114 0.003 0381879 0.003 0515044 0.0034 0666655 0.0035 0.12099 0.014 1292831 0.9 1282845 0.85 0.12763 0.72 0.29069 0.88 | 5209 0.12 7994 0.035 3534 0.035 5739 0.088 7666 0.18 1614 0.22 2748 0.92 27705 0.77 3524 0.59 97715 0.90
 | 25873
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10172 0.05812 | 873 0.346667 2253 0.270584 772 0.188993 301 0.322277 547 0.403782 403 0.47942 083 0.378331 071 1.38466 587 1.14641 878 0.918532 326 1.11943 236 1.8208 764 2.65677
 | 77
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| nd ¹ po 0.23 kyk heisen keit 9.0
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(19 po 0.23 kyk heisen keit 7.3
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(19 po 0.25 kyk heisen keit 9.1
(19 po 0.25 kyk heisen keit 9.0
(19 po 0.24 kyk heisen keit 9.

 | CARBON MONXIDE
CARBON MONXIDE
TOWNGAS | E ARRON MANXX0E E CARRON M

 | 0 Flammable (11.73)
0 Flammable (11.73)

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0.103172
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0.097446 n/3
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0.200584
0.200598
0.195067 n/3
n/3 | 0.0408645
0.0408785
0.040913
0.043385
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0.0816574
0.0817204
0.0869318 | 0.103812
0.104174
0.100372
0.0974496
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0.207684
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0.208644 | 0.000205318
0.000248226
0.000327191
0.00291726
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0.000374863
0.000936129
0.00035778
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0.176085
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0.354974 | 0.0131786
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0.0225372
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 | 0.0131786
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0.00936932
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0.0550255 | 0.0408785
0.040913
0.0435385 | 0.000342233 0.000369976 | 0.0617489 0.066171 | 0.0131786 0.00466459 | 0.0982506 0
0.0825406 0
0.0985466 0
0.0547587
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0.0407886
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0.0353722 0.03
0.0884301 0.04
0.185547 0.04
0.223453 0.0
0.106083 0.04
1.25366 0.2
1.15366 0.2
1.1007 0.2
0.833595 0.2
 | 0361114 0.003
3389879 0.0038
0515044 0.0024
0666655 0.0035
0.02099 0.034
0981998 0.013
1292831 0.93
1292831 0.93
1228495 0.855
1274763 0.722
0.29069 0.988 | 7994 0.035 5534 0.035 9739 0.088 7686 0.18 1614 0.22 792 0.10 2748 0.92 3705 0.77 8524 0.59 9718 0.90
 | 58253
53722
84301
55547
23453
06083
29662 0.00020
55425 -0.0032
55425 -0.0032
95629 -0.068 | 0.035822
0.05337
0.08834
0.18554
0.12554
0.12544
0.10606
37999 0.05450
05318 0.1375
21549 0.1581
87808 0.05033 | 0.270584 7722 0.188993 301 0.322277 547 0.403798 453 0.49742 103 0.377331 071 1.38496 557 1.14641 878 0.918532 387 1.11943 226 1.18208 7964 2.65627
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0.000124851
0.000345081
0.000345081
0.00138072
0.0606962
0.06006962
0.0500254
0.0530143
0.0562843
0.5642843
0.564285
0.390062
0.390365
0.417496
0.305313 |
| mit Pp 0.021 kg/shcmes Hate 7.500 CABBON MORC mit Pp 0.021 kg/shcmes Hate 1 COWNGAS mit Pp 0.021 kg/shcmes Hate 1 COWNGAS mit Pp 0.021 kg/shcmes Hate 1 COWNGAS mit Pp 0.021 kg/shcmes Hate 1

 | CARBON MONXIDE
CARBON MONXIDE
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 | Plannable (11.73)

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n/3 | 0.0408645
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0.0816574
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0.0869318 | 0.103812
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0.0435385 | 0.000342233 0.000369976 | 0.0617489 0.066171 | 0.0131786 0.00466459 | 0.0829406 0
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 | 339879 0.0018 0515044 0.0024 0666655 0.0035 0.12099 0.014 0981998 0.013 1.292831 0.9 1.2828495 0.85 1.274763 0.72 0.29069 0.98 | 3534 0.035 3739 0.088 7686 0.18 1614 0.22 7392 0.10 7748 0.92 3705 0.77 3524 0.59 3718 0.90
 | 53722
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23453
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25621 -0.093
25625 -0.0032
06096 -0.098
29798 -0.088 | 0.035372
0.08843
0.1855-
0.22345
37999 0.05450
05318 0.13758
21549 0.1583
87808 0.05033
87808 0.05033 | 772 0.188993 301 0.322277 547 0.403788 453 0.49742 083 0.378331 071 1.38486 587 1.14641 878 0.918532 387 1.11943 236 1.18208 764 2.65627
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7 | 4.456111-05 0 -0.00132165 0 0.00132165 0 0.00385724 0 0.0037769 0 0.0178548 0 0.0178548 0 0.0178548 0 0.0178548 0 0.013766 0 0.013155 0 0.013158 0 0.013155 0 0.013156 0 0.013155 0 0.013155 0 0.13019 0 0.13029 0 0.13029 0 0.13029 0 0.13029 | 0.000124851
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| and Pp 0.031 kg/ heleses Hate 18 CABBON MOKE and Pp 0.031 kg/ heleses Hate 13 CABBON MOKE and Pp 0.031 kg/ heleses Hate 13 CABBON MOKE and Pp 0.031 kg/ heleses Hate 730 CABBON MOKE and Pp 0.031 kg/ heleses Hate 730 CABBON MOKE and Pp 0.031 kg/ heleses Hate 740 CABBON MOKE and Pp 0.031 kg/ heleses Hate 740 CABBON MOKE and Pp 0.031 kg/ heleses Hate 740 CABBON MOKE and Pp 0.031 kg/ heleses Hate 740 CABBON MOKE and Pp 0.031 kg/ heleses Hate 740 CABBON MOKE and Pp 0.031 kg/ heleses Hate 740 CABBON MOKE and Pp 0.031 kg/ heleses Hate 740 CABBON MOKE and Pp 0.031 kg/ heleses Hate 740 CABBON MOKE and Pp 0.03 kg/ heleses Hate 740 CABBON MOKE and Pp 0.04 kg/ heleses Hate 740 TOWNGAS

 | CARBON MONXIDE
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 | LINE CARBON MONOXIDE LINE CAR
 | Flammable (12.73)

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 | 0.185547 0.00
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0981998 0.013
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| und Pp 0.144 kg/s heleses hele 0 CABBON MOKE und Pp 0.544 kg/s heleses hele 10 CABBON MOKE und Pp 0.554 kg/s heleses hele 10 CABBON MOKE und Pp 0.554 kg/s heleses hele 10 CABBON MOKE und Pp 0.554 kg/s heleses hele 10 CABBON MOKE und Pp 0.554 kg/s heleses hele 11 CABBON MOKE und Pp 0.554 kg/s heleses hele 12 CABBON MOKE und Pp 0.554 kg/s heleses hele 13 CABBON MOKE und Pp 0.554 kg/s heleses hele 13 CABBON MOKE und Pp 0.545 kg/s heleses hele 13 CABBON MOKE und Pp 0.545 kg/s heleses hele 13 CABBON MOKE und Pp 0.54 kg/s heleses hele 13 CABBON MOKE und Pp 0.54 kg/s heleses hele 14 CABBON MOKE und Pp 0.54 kg/s heleses hele 15 CABBON MOKE und Pp 0.54 kg/s heleses hele 10 TOWNGAS und Pp 1.54 kg/s heleses hele 10 TOWNGAS und Pp 1.54 kg/s heleses hele 10 TOWNGAS

 | CARBON MONOXIDE
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 | IDE CARBON MONOXIDE
 | 0 Fianmable (18.73)
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 |
| min Pp 0.144 kg/ helese Alter 3:00 CABDM MOXC min Pp 0.574 kg/ helese Alter 40 CABDM MOXC min Pp 0.574 kg/ helese Alter 40 CABDM MOXC min Pp 0.574 kg/ helese Alter 40 CABDM MOXC min Pp 0.574 kg/ helese Alter 40 CABDM MOXC min Pp 0.574 kg/ helese Alter 11 CABDM MOXC min Pp 0.574 kg/ helese Alter 11 CABDM MOXC min Pp 0.574 kg/ helese Alter 14 CABDM MOXC min Pp 0.514 kg/ helese Alter 14 CABDM MOXC min Pp 0.514 kg/ helese Alter 14 CABDM MOXC min Pp 0.514 kg/ helese Alter 14 CABDM MOXC min Pp 0.514 kg/ helese Alter 14 CABDM MOXC min Pp 0.514 kg/ helese Alter 14 CABDM MOXC min Pp 0.614 kg/ helese Alter 40 TOWNGS5 min Pp 0.544 kg/ helese Alter 40 TOWNGS5 min Pp 0

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 | Flammable (18.73)

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 |
| min Pp 0.251 kg/shcm/shcm CABDM MORC min Pp 0.551 kg/shcm/shcm CABDM MORC min Pp 0.51 kg/shcm/shcm D CABDM MORC min Pp 0.51 kg/shcm/shcm D CABDM MORC min Pp 0.61 kg/shcm/shcm D CABDM MORC min Pp 0.61 kg/shcm/shcm D COMMAGS min Pp 0.61 kg/shcm/shcm D TOWMGS

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 | LIDE CARBON MONOXIDE LARBON MONOXIDE LIDE LIDE CARBON MONOXIDE
 | 0 Flammable (18.75)
0 Flammable (18.75)

 | 0.103812
0.104174
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n/a | 0.0408785
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1.29268
1.11485
1.17122
 | 1.25366 0.3
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0.833595 0.3 | 0.292831 0.92
0.288495 0.85
0.274763 0.72
0.29069 0.98 | 2748 0.92
3705 0.77
3524 0.59
3718 0.90
 | 26621 -0.093
79662 0.00020
95425 -0.003
06096 -0.093
29978 -0.081 | 37999 0.054507 05318 0.13758 21549 0.1587 87808 0.050338 10172 0.058123 | 071 1.38486
587 1.14641
5878 0.918532
387 1.11943
226 1.18208
1764 2.69627
 | 16
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18 0.010331
17 | 0 0.0217609
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0 0.180019
0 0.13929
0 0.13929 | 0.0609692
0.0500254
0.0384012
0.0536143
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0.504375
0.390262
0.305385
0.417496
0.305313
 |
| mil * 9.5.3% kijk helese het 7.0 CARBON MONC mil * 9.5.3% kijk helese het 7.30 CARBON MONC mil * 9.5.3% kijk helese het 7.30 CARBON MONC mil * 9.5.3% kijk helese het 7.30 CARBON MONC mil * 9.5.3% kijk helese het 7.30 CARBON MONC mil * 9.3.1% kijk helese het 1 CARBON MONC mil * 9.3.1% kijk helese het 1 CARBON MONC mil * 9.3.1% helese het 1 CONVAGS mil * 9.4.1% helese het 2 CONVAGS mil * 9.4.1% helese het 1 CONVAGS mil * 9.1% helese het 2 CONVAGS mil * 9.1% helese het 2 CONVAGS mil * 1.4% helese het 2<

 | CARBON MONOXIDE
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 | IDE CARBON MONOXIDE
 | 0 Flarmable (12.75)
0 Flarmable (12.75)

 | 0.103812
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0.0869318 | 0.103812
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0.00147302
0.000374863
0.000936129
0.00035778 | 0.174106
0.177774
0.176085
0.148951
0.33231
0.350515
0.34178
0.354974 | 0.0131786
0.00466459
0.00936932
0.0518899
0.0550255
0.0225372
0.0405279 | 0.103812
0.104174
0.100372
0.0974496
0.20703
0.207684 | 0.000205318
0.000248226
0.000327191
0.00291726
0.00147302
 | 0.174106
0.177774
0.176085
0.148951
0.33231 | 0.0131786
0.00466459
0.00936932
0.0518699
0.0550255 | 0.0408785
0.040913
0.0435385 | 0.000342233 0.000369976 | 0.0617489 0.066171 | 0.0131786 0.00466459 | 1.29268
1.11485
1.17122
 | 1.1007 0.3
0.833595 0.3 | 0.288495 0.85
0.274763 0.72
0.29069 0.98 | 3705 0.77
3524 0.59
0718 0.90
 | 79662 0.00020
95425 -0.0033
06096 -0.098
29978 -0.083 | 05318 0.13758
21549 0.1583
87808 0.050338
10172 0.058123 | 1.14641 1878 0.918532 1387 1.11943 236 1.18208 1764 2.69627
 | 1
2
3
8 0.010331
7 | 0 0.0178548
0 0.013706
0 0.0191358
13319 0.0200888
0 0.180019
0 0.13929
0 0.108997 | 0.0500254
0.0384012
0.0556143
0.0562843
0.504375
0.390262
0.305385
0.417496
0.305385
 |
| und Pp 0.51 kg/sheam Alter 3:00 CABBOM MOXC und Pp 0.51 kg/sheam Alter 1 TOWMGAS und Pp 0.61 kg/sheam Alter 1 TOWMGAS

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TOWNGAS

 | 0 Flammable (18.75)
0 Flammable (18.75)

 | 0.100372
0.0974496
0.20703
0.207684
0.208544
0.200798
0.195067 | 0.100372
0.0974496 n/a
0.20703
0.207684
0.208644
0.200798
0.195067 n/a
n/a | 0.0435385
0.0816583
0.0816674
0.0817204
0.0869318 | 0.100372
0.0974496
0.20703
0.207684
0.208644
0.200798
 | 0.000327191
0.00291726
0.00147302
0.000374863
0.000936129
0.0035778 | 0.176085
0.148951
0.33231
0.350515
0.34178
0.354974 | 0.00936932
0.0518699
0.0550255
0.0225372
0.0405279 | 0.100372
0.0974496
0.20703
0.207684 | 0.000327191
0.00291726
0.00147302
 | 0.176085
0.148951
0.33231 | 0.00936932
0.0518699
0.0550255 | 0.0435385 | | | | 1.17122
 | | 0.29069 0.98 | 0718 0.90
 | 06096 -0.098
29978 -0.08 | 87808 0.050338
10172 0.058123 | 1.11943
1.11943
1.18208
1.18208
1.18208
1.18208
 | 3
8 0.010331
7 | 0 0.0191358
13319 0.0200888
0 0.180019
0 0.13929
0 0.108997 | 0.0536143
0.0562843
0.504375
0.390262
0.305385
0.417496
0.305313
 |
| mid Pp 0.51% kg/s helesen Rets 1 CARBON MONIC mid Pp 0.31 kg/s helesen Rets 10 CARBON MONIC mid Pp 0.31 kg/s helesen Rets 10 CARBON MONIC mid Pp 0.31 kg/s helesen Rets 10 CARBON MONIC mid Pp 0.31 kg/s helesen Rets 10 CARBON MONIC mid Pp 0.31 kg/s helesen Rets 11 CARBON MONIC mid Pp 0.31 kg/s helesen Rets 10 TOWNIGAS mid Pp 0.41 kg/s helesen Rets 10 TOWNIGAS mid Pp 0.41 kg/s helesen Rets 10 TOWNIGAS mid Pp 0.41 kg/s helesen Rets 10 TOWNIGAS mid Pp 0.51 kg/s helesen Rets 10 TOWNIGAS mid Pp 0.54 kg/s helesen Rets 10 TOWNIGAS

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TOWNGAS
 | Flarmable (18.75)

 | 0.0974496
0.20703
0.207684
0.208644
0.200798
0.195067 | 0.0974496 n/a
0.20703
0.207684
0.20644
0.200798
0.195067 n/a
n/a | 0.0816583
0.0816574
0.0817204
0.0869318 | 0.0974496
0.20703
0.207684
0.208644
0.200798
 | 0.00291726
0.00147302
0.000374863
0.000936129
0.0035778 | 0.148951
0.33231
0.350515
0.34178
0.354974 | 0.0518699
0.0550255
0.0225372
0.0405279 | 0.0974496
0.20703
0.207684 | 0.00291726 0.00147302
 | 0.148951
0.33231 | 0.0518699
0.0550255 | | 0.000515689 | 0.0645944 | 0.00936932 |
 | 1.00677 0 | |
 | 29978 -0.081 | 10172 0.058123
 | 236 1.18208
764 2.69627 | 8 0.010331 | 0.0200888
0 0.180019
0 0.13929
0 0.108997
 | 0.0562843
0.504375
0.390262
0.305385
0.417496
0.305313 |
| md Pp 3.14 (relations Refs 10) CARBON MONC
(md Pp 3.14 (relations Refs 42) md Pp 3.14 (relations Refs 42) CARBON MONC
(md Pp 3.14 (relations Refs 12) md Pp 3.14 (relations Refs 12) CARBON MONC
(md Pp 3.14 (relations Refs 12) md Pp 3.14 (relations Refs 12) CARBON MONC
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(relations Refs 13) md Pp 13.34 (relations Refs 12) TOWNGS
(relations Refs 14) md Pp 13.34 (relations Refs 12) TOWNGS
(relations Refs 14) md Pp 13.34 (relations Refs 12) TOWNGS
(relations Refs 14) md Pp 13.34 (relations Refs 12) TOWNGS
(relations Refs 14) md Pp 13.34 (relations Refs 12) TOWNGS
(relation Pp 14)

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TOWNGAS

 | 0 Flammable (18.75)
0 Flammable (18.75)

 | 0.20703
0.207684
0.208644
0.200798
0.195067 | 0.20703
0.207684
0.208644
0.200798
0.195067 n/a
n/a | 0.0816583
0.0816674
0.0817204
0.0869318
 | 0.20703
0.207684
0.208644
0.200798 | 0.00147302
0.000374863
0.000936129
0.0035778 | 0.33231
0.350515
0.34178
0.354974 | 0.0550255
0.0225372
0.0405279 | 0.20703 0.207684 | 0.00147302
 | 0.33231 | 0.0550255 | 0.0816583 | | |
 | | | |
 | |
 | 2.69627 | 7 | 0 0.180019
0 0.13929
0 0.108997
 | 0.504375
0.390262
0.305385
0.417496
0.305313 |
| mil * p - 1 ging, Relations Relation 0 CARRON MONIC mil * p - 1 al key Relations Ratio - 2 al key Relations CARRON MONIC mil * p - 1 al key Relations Ratio - 2 al key Relations CARRON MONIC mil * p - 1 al key Relations Ratio - 2 al key Relations CARRON MONIC mil * p - 0 al key Relations Relations Ratio - 2 al key Relations CONVINCAS mil * p - 0 al key Relations Relations Ratio - 2 al key Relations CONVINCAS mil * p - 0 al key Relations Relations Ratio - 2 al key Relations CONVINCAS mil * p - 0 al key Relations Relations Ratio - 2 al key Relations Relations Ratio - 2 al key Relations Relations mil * p - 0 al key Relations Relations Ratio - 2 al key Relations Relations Ratio - 2 al key Relations Relations mil * p - 0 al key Relations Relations Ratio - 2 al key Relations Relations Ratio - 2 al key Relations Relations Ratio - 2 al key Relations Relations mil * p - 0 al key Relations Relations Ratio - 2 al key Relations Relations Ratio - 2 al key Relations Relations Ratio - 2 al key Relations Relations mil * p - 1 al key Relations Relations Ratio - 2 al key Relations Relations Ratio - 2 al key Relations Relations Ratio - 2 al key Relations Relations

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TOWNGAS

 | 0 Flammable (18.75)
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0 Flammable (18.75)

 | 0.207684
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0.195067 n/a
n/a | 0.0816674
0.0817204
0.0869318
 | 0.207684
0.208644
0.200798 | 0.000374863
0.000936129
0.0035778 | 0.350515
0.34178
0.354974 | 0.0225372
0.0405279 | 0.207684 |
 | | | | 0.00179774
 | 0.0943586 | 0.0550255 | | | |
 | |
 | | | 0 0.13929
0 0.108997
 | 0.390262
0.305385
0.417496
0.305313 |
| min Pp -3 big // Reises Res 7.50 CABON MORE min Pp -3 big // Reises Res 1 CABON MORE min Pp -3 big // Reises Res 1 CABON MORE min Pp -3 big // Reises Res 1 COMMON min Pp -3 big // Reises Res 1 COMMON min Pp -3 big // Reises Res 1 TOWINGS min Pp -4 big // Reises Res 1 TOWINGS min Pp -3 big // Reises Res 1 TOWINGS min Pp -3 big // Reises Res 1 TOWINGS min Pp -3 big // Reises Res 1 TOWINGS min Pp -3 big // Reises Res 1 TOWINGS min Pp -3 big // Reises Res 1 TOWINGS min Pp -3 big // Reises Res 1 TOWINGS min Pp -3 big // Reises Res 1 TOWINGS min Pp -3 big // Reises Res 1 TOWINGS min Pp -3 big // Reises Res 1 TOWINGS min Pp -3 big // Reises Res 1 TOWINGS min Pp -4 big // Reises Res 1 TOWINGS min Pp -4 big // Reises Res 1 TOWIN

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 | IIDE CARBON MONOXIDE
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TOWNGAS

 | 0 Flammable (18.75)
0 Flammable (18.75)
0 Flammable (18.75)
0 Flammable (18.75)
0 Flammable (18.75)
0 Flammable (18.75)

 | 0.208644
0.200798
0.195067 | 0.208644
0.200798
0.195067 n/a
n/a | 0.0817204
0.0869318
 | 0.208644 0.200798 | 0.000936129
0.0035778 | 0.34178
0.354974 | 0.0405279 | |
 | | 0.0225372 | 0.0816674 | 0.00179774
0.00064169
 | 0.0943586
0.126781 | 0.0550255
0.0225372 | 2.86321
2.4766 | | |
 | 56558 -0.042
46712 -0.10 |
 | 726 2.24372 | / | 0 0.108997
 | 0.305385
0.417496
0.305313 |
| mult Pp 3-31 (a), Release Ret 1 CABDO MONC mult Pp 4-41 ka), Release Ret 10 TOWNGAS mult Pp 4-31 ka), Release Ret 10 TOWNGAS mult Pp 2-34 ka), Release Ret 10 TOWNGAS mult Pp 10-34 ka), Kriesen Ret 10 TOWNGAS mult Pp 10-34 ka), Kriesen Ret 10 TOWNGAS mult Pp 10-34 ka), Kriesen Ret 10 TOWNGAS mult Pp 4-4 ka), Release Ret 10 TOWNGAS mult Pp 4-4 ka), Release Ret 10 TOWNGAS mult Pp 4-4 ka), Release Ret 10 TOWNGAS mult Pp 4-4 ka), Releas

 | CARBON MONOXIDE
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 | IDE CARBON MONOXIDE
TOWNGAS
 | 0 Flammable (18.75)
0 Flammable (18.75)
0 Flammable (18.75)
0 Flammable (18.75)

 | 0.195067 | 0.195067 n/a
n/a | 1 |
 | | | | 0.208644 | 0.000936129
 | 0.34178 | 0.0405279 | 0.0817204 | 0.00116029 | 0.111879 | 0.0405279 | 2.19089
 | | |
 | 23348 -0.13 |
 | | | 0 0 140011
 | 0.305313 |
| und Pip 0.4.1 kg/s Betes Ret 0 100WIG45 und Pip 0.4.1 kg/s Betes Ret 0 100WIG45 und Pip 0.4.1 kg/s Betes Ret 0.1 100WIG45 und Pip 0.2.1 kg/s Betes Ret 0.1 100WIG45 und Pip 0.2.1 kg/s Betes Ret 0.1 100WIG45 und Pip 0.2.1 kg/s Betes Ret 1.1 100WIG45 und Pip 0.2.1 kg/s Retes Ret 7.2 100WIG45 und Pip 0.2.1 kg/s Retes Ret 7.2 100WIG45 und Pip 0.4 kg/s Retes Ret 7.1

 | TOWNGAS
TOWNGAS
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 | TOWNGAS
 | 0 Flammable (18.75)
0 Flammable (18.75)
0 Flammable (18.75)

 | | n/a | | 0.195067
 | 0.00210049 | | 0.0124255 | 0.200798 | 0.0035778
 | 0.354974 | 0.0124255 | 0.0869318 | 0.00393788 | 0.132541 | 0.0124255 |
 | | 0.482397 0.99 |
 | 35686 -0.055 |
 | | | |
 |
| md Pp 0.4 Lkg, Netsen Ref. 40 TOWNGLS md Pp 0.4 Lkg, Netsen Ref. 7.30 TOWNGLS md Pp 2.5 Lkg, Netsen Ref. 7.30 TOWNGLS md Pp 4.4 Lkg, Netsen Ref. 7.30 TOWNGLS

 | TOWNGAS
TOWNGAS |

 | 0 Flammable (18.75)
0 Flammable (18.75)

 | n/a n/a
n/a n/a
n/a n/a | | |
 | | 0.304407 | 0.0971214 | 0.195067 | 0.00210049
 | 0.304407 | 0.0971214 | | | | | 1.63811
 | | 0.474208 0.90 |
 | 26766 0.0021 |
 | | | 0 0.108971 |
 |
| md Pp 0.41 kg/. Reser. Ref. 2 15.0 TOWNGAS md Pp 0.41 kg/. Reser. Ref. 2 1 TOWNGAS md Pp 0.41 kg/. Reser. Ref. 2 1 TOWNGAS md Pp 0.41 kg/. Reser. Ref. 1 1 TOWNGAS md Pp 0.41 kg/. Reser. Ref. 1 1 TOWNGAS md Pp 0.41 kg/. Reser. Ref. 1 1 TOWNGAS md Pp 0.41 kg/. Reser. Ref. 2 15.0 TOWNGAS md Pp 0.54 kg/. Reser. Ref. 2 16 TOWNGAS md Pp 0.54 kg/. Reser. Ref. 2 16 TOWNGAS md Pp 0.54 kg/. Reser. Ref. 2 16 TOWNGAS md Pp 0.54 kg/. Reser. Ref. 2 16 TOWNGAS md Pp 0.54 kg/. Reser. Ref. 2 16 TOWNGAS md Pp 0.54 kg/. Reser. Ref. 1 15 TOWNGAS md Pp 0.54 kg/. Reser. Ref. 1 15 TOWNGAS md Pp 0.54 kg/. Reser. Ref. 1 15 TOWNGAS md Pp 0.54 kg/. Reser. Ref. 1 15 TOWNGAS md Pp 0.44 kg/. Reser. Ref. 2 10 TOWNGAS md Pp 0.44 kg/. Reser. Ref. 1 1 TOWNGAS md Pp 0.44 kg/. Reser. Ref. 1 1 TOWNGAS md Pp 0.44 kg/. Reser. Ref. 1 1 TOWNGAS md Pp 0.44 kg/. Reser. Ref. 1 1 TOWNGAS md Pp 0.44 kg/. Reser. Ref. 1 15 TOWN

 | TOWNGAS
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 | 0 Flammable (18.75)

 | n/a n/a
n/a n/a | n/a
n/a | | | |
 | | | | | |
 | | | |
 | | | 1.23105 1.46109 | | 0.969117 0.70
0.952381 0.72 |
 | 15965
_8838 | 1.9216
 | | | 0 0.128773
0 0.072141
 | 0.635414 |
| md Pp 0.41 kg/. Reser. Ref. 3 1000/MG45 md Pp 0.41 kg/. Reser. Ref. 1 1000/MG45 md Pp 0.51 kg/. Reser. Ref. 4 1000/MG45 md Pp 0.51 kg/. Reser. Ref. 7.30 1000/MG45 md Pp 0.41 kg/. Reser. Re

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 | | | |
 | | | | |
 | | | | | | | 1.46109
 | | 1.952381 0.72 |
 | 48297 | 0.43845
 | | | 0 0.072141 | 0.635414
 |
| und Pp 3-39 kg) Release Rate 10 100WIGS1 und Pp 3-39 kg) Release Rate 40 100WIGS1 und Pp 3-39 kg) Release Rate 11 100WIGS1 und Pp 3-39 kg) Release Rate 10 100WIGS1 und Pp 3-39 kg) Release Rate 10 100WIGS1 und Pp 3-39 kg) Release Rate 10 100WIGS1 und Pp 3-39 kg) Release Rate 11 100WIGS1 und Pp 10.35 kg) Release Rate 12 100WIGS2 und Pp 10.34 kg) Release Rate 11 100WIGS2 und Pp 10.34 kg) Release Rate 11 100WIGS3 und Pp 10.44 kg) Release Rate 13 100WIGS3 und Pp 10.44 kg) Release Rate 13 100WIGS3 und Pp 10.44 kg, Release Rate 13 100WIGS3 und Pp 10.44 kg, Release Rate 13 100WIGS4 und Pp 14.44 kg, Release Rate 13

 | TOWNGAS
 | TOWNGAS
 | 0 Flammable (18.75)

 | n/a n/a | n/a | |
 | | | | |
 | | | | | | | 1.29201
 | | 1.995828 0.76 |
 | 50807 | 1.4897
 | | | 0 0.0979458
 | 0.86270 |
| NumP 6-2.93 Wg, Messen Refer 40 TOWNGGS NumP 6-2.93 Mg, Messen Refer 7.50 TOWNGGS NumP 6-2.93 Mg, Messen Refer 7.00 TOWNGGS NumP 6-2.93 Mg, Messen Refer 7.00 TOWNGGS NumP 6-2.93 Mg, Messen Refer 100 TOWNGGS NumP 6-2.93 Mg, Messen Refer 40 TOWNGGS NumP 6-2.93 Mg, Messen Refer 10 TOWNGGS NumP 6-2.93 Mg, Messen Refer 10 TOWNGGS NumP 6-2.93 Mg, Messen Refer 10 TOWNGGS NumP 6-2.94 Mg, Messen Refer 10 TOWNGGS NumP 6-2.44 Mg, Messen Ref 2.0 TOWNGGS NumP 6-2.44 Mg, Messen Ref

 |
 | TOWNGAS
 | 0 Flammable (18.75)

 | n/a n/a | n/a | |
 | | | | |
 | | | | | | | 1.0438
 | | 1.00425 0.63 |
 | 65434 | 2.6488
 | | | 0 0.161138
 | 1.41929 |
| Sund Pip 2.2.5 Mg/n Resea Rate 7.5.0 TOWNGAS Sund Pip 2.5 Mg/n Resea Rate 18 TOWNGAS Sund Pip 2.1.5 Mg/n Resea Rate 17 TOWNGAS Sund Pip 1.0.5 Mg/n Resear Rate 18 TOWNGAS Sund Pip 2.0.5 Mg/n Resear Rate 16 TOWNGAS Sund Pip 2.1.5 Mg/n Resear Rate 16 TOWNGAS Sund Pip 4.1.4 Mg/n Resear Rate 10 TOWNGAS Sund Pip 4.2.4 Mg/n Resear Rate 17 TOWNGAS Sund Pip 4.4.4 Mg/n Resear Rate 19 TOWNGAS Sund Pip 4.4.4 Mg/n Resear Rate 19 TOWNGAS Sund Pip 4.4.4 Mg/n Resear Rate 17 TOWNGAS Sund Pip 4.4.4 Mg/n Resear Rate 19 TOWNGAS Sund Pip 4.4.4 Mg/n Resear Rate 19 TOWNGAS Sund Pip 4.4.4 Mg/n Resear Rate 19 TOWNGAS

 |
 | TOWNGAS
TOWNGAS
 | 0 Flammable (18.75)

 | n/a n/a | n/a | |
 | | | | |
 | | | | | | | 3.02318
 | | |
 | 85857
39227 | 4.2892
 | | | 0 1.83703
 | 16.1805
9.26696 |
| Sund Pip 2.25 Nig/A Release Rate 18 TOWNKGAS Sund Pip 2.55 Nig/A Release Rate 10 TOWNKGAS Sund Pip 2.55 Nig/A Release Rate 17 TOWNKGAS Sund Pip 2.55 Nig/A Release Rate 17 TOWNKGAS Sund Pip 4.24 Nig/A Release Rate 17 TOWNKGAS Sund Pip 4.24 Nig/A Release Rate 17 TOWNKGAS Sund Pip 4.24 Nig/A Release Rate 18 TOWNKGAS Sund Pip 4.24 Nig/A Release rate 10 TOWNKGAS Sund Pip 4.24 Nig/A Release rate 11 TOWNKGAS

 |
 | TOWNGAS
 | 0 Flammable (18.75)
0 Flammable (18.75)

 | n/a n/a
n/a n/a | n/a
n/a | |
 | | | | |
 | | | | | | | 3.84939
4.44599
 | | |
 | 39227
29925 | 2.1991
 | | | 0 1.05211
0 0.709518
 | |
| NumP B: DL3 kig/s Returns Rhat: D TOWNGAS NumP B: DL3 kig/s Returns Rhat: 7:50 TOWNGAS NumP B: DL3 kig/s Returns Rhat: 7:50 TOWNGAS NumP B: DL3 kig/s Returns Rhat: 7:80 TOWNGAS NumP B: DL3 kig/s Returns Rhat: 7:81 TOWNGAS NumP B: DL3 kig/s Returns Rhat: 1:81 TOWNGAS

 |
 | TOWNGAS
 | 0 Flammable (18.75)

 | n/a n/a | n/a | | | | |
 | | | | |
 | | | | | | |
 | | 2.42768 1.0 |
 | 36381 | 3.3316
 | | | 0 1.30548
 | 11.4986 |
| Sund Pp 10.35 kg/s Release Nate 40 TOWNCAS Sund Pp 10.36 kg/s Release Nate 7.50 TOWNCAS Sund Pp 10.36 kg/s Release Nate 10.50 TOWNCAS Sund Pp 14.4 kg/s Release rate 40 TOWNCAS Sund Pp 4.4 kg/s Release rate 40.70 TOWNCAS Sund Pp 4.4 kg/s Release rate 10.70 TOWNCAS Sund Pp 4.4 kg/s Release rate 10.70 TOWNCAS Sund Pp 4.54 kg/s Release rate 10.70 TOWNCAS

 |
 | TOWNGAS
 | 0 Flammable (18.75)

 | n/a n/a | n/a | |
 | | | | |
 | | | | | | | 2.46883
 | | |
 | 41192 | 5.1902
 | | | 0 2.00583
 | 17.6673 |
| Sund Pip 10.05 kg/s Release Rate 3 TOWNGAS Sund Pip 10.36 kg/s Release Rate 18 TOWNGAS Sund Pip 10.36 kg/s Release Rate 18 TOWNGAS Sund Pip 10.36 kg/s Release Rate 18 TOWNGAS Sund Pip 10.36 kg/s Release Rate 19 TOWNGAS Sund Pip 14.14 kg/s Release Rate 10 TOWNGAS Sund Pip 4.14 kg/s Release rate 10 TOWNGAS Sund Pip 4.14 kg/s Release rate 10 TOWNGAS Sund Pip 4.14 kg/s Release rate 11 TOWNGAS Sund Pip 4.14 kg/s Release rate 11 TOWNGAS Sund Pip 4.14 kg/s Release rate 11 TOWNGAS

 |
 | TOWNGAS

 | 0 Flammable (18.75)

 | n/a n/a | n/a | | | |
 | | | | | |
 | | | |
 | | | 6.04999 | | 4.7305 3.1 |
 | 1.9237 | 8.0855
 | | | 0 13.2183
 | 116.426 |
| nucl Pip 10.36 kg/s Release Rate 3E TOWNGAS nucl Pip 10.36 kg/s Release Rate 1E TOWNGAS nucl Pip 10.44 kg/s Release Rate 1D TOWNGAS nucl Pip 10.44 kg/s Release Rate 3E TOWNGAS nucl Pip 10.44 kg/s Release Rate 1F TOWNGAS nucl Pip 10.44 kg/s Release Rate 1F TOWNGAS nucl Pip 10.24 kg/s Release Rate 1F TOWNGAS

 |
 | TOWNGAS
TOWNGAS
 | 0 Flammable (18.75)

 | n/a n/a | n/a
n/a |
 | | | | | |
 | | | | | | | 8.02529
 | | 4.58055 3.4
4.00873 3.8 |
 | 48651
19968 | 3.1129
 | | | 0 7.67646
 | 67.6139
47.2249 |
| sund Pp 10.36 kg/s Release Rate 1F TOWWGAS sund Pp 41.4 kg/s Release rate 4D TOWWGAS sund Pp 41.4 kg/s Release rate 4D TOWWGAS sund Pp 41.4 kg/s Release rate 4D TOWWGAS sund Pp 41.4 kg/s Release rate 5D TOWWGAS sund Pp 41.4 kg/s Release rate 3D TOWWGAS sund Pp 41.4 kg/s Release rate 1E TOWWGAS sund Pp 41.4 kg/s Release rate 1E TOWWGAS sund Pp 41.4 kg/s Release rate 1F TOWWGAS sund Pp 41.4 kg/s Release rate 1F TOWWGAS

 |
 | TOWNGAS

 | 0 Flammable (18.75)
0 Flammable (18.75)

 | n/a n/a
n/a n/a | n/a
n/a | | | |
 | | | | | |
 | | | |
 | | | | | 4.008/3 3.8 |
 | 19968 | 1.861
 | | | 0 5.36162
 | 47.2245 |
| pund ¹ / ₁₀ 41.4 ¹ / ₁₀ / ₁₅ Release rate 4D TOWNGAS
pund ¹ / ₁₀ 41.4 ¹ / ₁₀ / ₁₅ Release rate 7.5D TOWNGAS
pund ¹ / ₁₀ 41.4 ¹ / ₁₀ / ₁₅ Release rate 3E TOWNGAS
pund ¹ / ₁₀ 41.4 ¹ / ₁₀ / ₁₅ Release rate 1F TOWNGAS
pund ¹ / ₁₀ 32.75 ¹ / ₁₀ / ₁₅ Release rate 1D TOWNGAS

 |
 | TOWNGAS
 | 0 Flammable (18.75)

 | n/a n/a | n/a |
 | | | | | |
 | | | | | | | 5.12308
 | | 4.40548 2.5 |
 | 1.2788 | 8.5675
 | | | 0 12.8338
 | |
| und Pip 41.4 kg/s Release rate 7.5D TOWNGAS
und Pip 41.4 kg/s Release rate 3E TOWNGAS
und Pip 41.4 kg/s Release rate 1F TOWNGAS
und Pip 32.95 kg/s Release rate 1D TOWNGAS

 |
 | TOWNGAS

 | 0 Flammable (18.75)

 | 0.807673 | 0.807673 | 0.470119
 | 0.807673 | 0.00984017 | 1.25721 | 0.124153 | 0.807673 | 0.00984017
 | 1.25721 | 0.124153 | 0.470119 | 0.0129826
 | 0.70825 | 0.124153 | | | 4.70565 17. |
 | | 21667 0.63525
 | | | 0 30.4826
 | |
| und Pip 41.4 kg/s Release rate 3E TOWINGAS
und Pip 41.4 kg/s Release rate 1F TOWINGAS
und Pip 372.95 kg/s Release rate 1D TOWINGAS

 |
 | TOWNGAS

 | 0 Flammable (18.75)

 | 0.810059 | 0.810059 | 0.470602
 | 0.810059 | 0.0213553 | 1.01427 | 0.452478 | 0.810059 | 0.0213553
 | 1.01427 | 0.452478 | 0.470602 | 0.0238121
 | 0.195035 | 0.452478 | 23.2121 | | 4.79906 14.0 |
 | | 58338 0.44455
 | | | 0 20.9629
 | |
| ound Pip 41.4 kg/s Release rate 1F TOWINGAS
ound Pip 372.95 kg/s Release rate 1D TOWINGAS

 |
 | TOWNGAS

 | 0 Flammable (18.75)
0 Flammable (18.75)

 | 0.813653 0.755987 | 0.813653 0.755987 | 0.471349 0.471255
 | 0.813653
0.755987 | 0.0156124
0.0233644 | 1.1217 1.23616 | 0.346105
0.182944 | 0.813653
0.755987 | 0.0156124
0.0233644
 | 1.1217 1.23616 | 0.346105
0.182944 | 0.471349 0.471255 | 0.0177819
0.026692
 | 0.486673
0.681612 | 0.346105
0.182944 | 20.4441 21.758 | | 4.67973 12.
4.0646 13. |
 | 71838 -0.33
1.6613 -0.36 | 26741 0.33511
61897 0.48697
 | | | 0 15.073
0 22.4318
 | 132.762 |
| ound Pip 372.95 kg/s Release rate 1D TOWNGAS

 |
 | TOWNGAS

 | 0 Flammable (18.75)
0 Flammable (18.75)

 | 0.723336 | 0.723336 n/a |
 | 0.723336 | 0.0233644 | 0.952078 | 0.182944
0.495784 | 0.723336 | 0.0233644
 | 0.952078 | 0.182944 | 0.4/1255 | 0.026692
 | 0.681612 | 0.182944 | 16.3387 | | |
 | | 61897 0.48697
83667 0.60240
 | | | 0 22.4318
 | |
|

 |
 | TOWNGAS

 | 0 Flammable (18.75)

 | 50.185 | 50.185 | 25.5167
 | 50.185 | -49.7676 | 99.9277 | 0.47133 | 50.185 | -49.7676
 | 99.9277 | 0.47133 | 25.5167 | -25.5167
 | 51.0248 | 0.47133 | 50.185 | | 99.9344 0.038 |
 | | 3.7676
 | 0 49.9113 | | 0 19207.3
 | 16917 |
| und Pip 372.95 kg/s Release rate 4D TOWNGAS

 |
 | TOWNGAS

 | 0 Flammable (18.75)

 | 50.5822 | 50.5822 | 25.5167
 | 50.5822 | -49.4703 | 99.9275 | 0.82561 | 50.5822 | -49.4703
 | 99.9275 | 0.82561 | 25.5167 | -25.5167
 | 51.032 | -0.193443 | 50.5822 | | 99.9343 0.37 |
 | | 3.4703
 | 0 49.9114 | | 0 19207.5
 | 16917 |
| und Pip 372.95 kg/s Release rate 7.5D TOWNGAS

 |
 | TOWNGAS

 | 0 Flammable (18.75)

 | 51.2581 | 51.2581 | 25.5167
 | 51.2581 | -49.1052 | 99.9261 | 1.35954 | 51.2581 | -49.1052
 | 99.9261 | 1.35954 | 25.5167 | -25.5167
 | 51.029 | 0.337278 | 51.2581 | | 99.9342 0.85 |
 | | .1052
 | 0 49.9124 | | 0 19207.4
 | 169178 |
| und Pip 372.95 kg/s Release rate 3E TOWNGAS
und Pip 372.95 kg/s Release rate 1F TOWNGAS

 |
 | TOWNGAS

 | 0 Flammable (18.75)
0 Flammable (18.75)

 | 50.4504
50.2724 | 50.4504
50.2724 | 25.5033
25.5197
 | 50.4504
50.2724 | -49.4915
-49.7027 | 99.8486
99.9363 | 0.747842 | 50.4504
50.2724 | -49.4915
-49.7027
 | 99.8486
99.9363 | 0.747842 0.548788 | 25.5033
25.5197 | -25.5032
-25.5196
 | 51.0036
51.0307 | -0.270073
-0.469458 | 50.4504
50.2724 | | 99.8552 0.30
99.9426 0.11 |
 | | 9.4915
9.7027
 | 0 50.7589
0 49.7613 | | 0 18913.1
0 19262.3
 | 16658/ |
| und Pip 372.95 kg/s Release rate 1F TOWNGAS
und Pip 0.41 kg/s Release Rate 1D TOWNGAS

 |
 | TOWNGAS

 | 0 Flammable (18.75)
0 Flammable (18.75)

 | 0.161205 | 0.161205 | 0.0936443
 | 0.161205 | -49.7027 | 0.215285 | 0.548788 | 0.161205 | -49.7027
 | 0.215285 | 0.0772254 | 0.0936443 | 0.0032098
 | 0.0808422 | -0.469458 | 4.19605 | | 0.94327 2.9 |
 | 0 -49
54119 -0.08 |
 | | | 0 19262.3
 | 1.28911 |
| und Pip 0.41 kg/s Release Rate 4D TOWNGAS

 |
 | TOWNGAS

 | 0 Flammable (18.75)

 | 0.162975 | 0.162975 | 0.0940192
 | 0.162975 | 0.000737857 | 0.247474 | 0.0321362 | 0.162975 | 0.000737857
 | 0.247474 | 0.0321362 | 0.0940192 | 0.00107051
 | 0.137073 | 0.0321362 | 3.38127 | | 0.894756 2.0 |
 | 4834 -0.0075 |
 | | | 0 0.0829554
 | |
| und Pip 0.41 kg/s Release Rate 7.5D TOWNGAS

 |
 | TOWNGAS

 | 0 Flammable (18.75)

 | 0.166298 | 0.166298 | 0.0946789
 | 0.166298 | 0.000248122 | 0.254581 | 0.0138469 | 0.166298 | 0.000248122
 | 0.254581 | 0.0138469 | 0.0946789 | 0.00053149
 | 0.145512 | 0.0138469 | 2.86118 | | |
 | | 06711 0.10549
 | | | 0 0.0529011
 | 0.465951 |
| nd Pip 0.41 kg/s Release Rate 3E TOWNGAS

 |
 | TOWNGAS

 | 0 Flammable (18.75)

 | 0.150579 | 0.150579 | 0.0940381
 | 0.150579 | 0.00230164 | 0.212675 | 0.0816968 | 0.150579 | 0.00230164
 | 0.212675 | 0.0816968 | 0.0940381 | 0.0027539
 | 0.0731959 | 0.0816968 | 3.50074 | | 0.862046 2.4 |
 | | 16081 0.080573
 | | | 0 0.111543
 | 0.982469 |
| and Pip 0.41 kg/s Release Rate 1F TOWNGAS

 |
 | TOWNGAS
TOWNGAS

 | 0 Flammable (18.75)

 | 0.143456 | 0.143456 | 0.0935224
 | 0.143456 | 0.00201154 | 0.225083 0.473888 | 0.0698247
0.166115 | 0.143456 | 0.00201154
 | 0.225083 | 0.0698247 | 0.0935224 | 0.00283085
0.0054076
 | 0.101457
0.182128 | 0.0698247 | 3.09295 | | 0.91
2.04935 6.1 |
 | 88703 -0.01
54519 -0.19 |
 | | | 0 0.131019
 | 1.15401 |
| und Pip 2.59 kg/s Release Rate 1D TOWNGAS
und Pip 2.59 kg/s Release Rate 4D TOWNGAS

 |
 | TOWNGAS

 | 0 Flammable (18.75)
0 Flammable (18.75)

 | 0.352647
0.355703 | 0.352647
0.355703 | 0.204927
0.20565
 | 0.352647 | 0.00442138 0.00033801 | 0.473888 | 0.166115
0.107224 | 0.352647
0.355703 | 0.00442138 0.00033801
 | 0.473888 0.521433 | 0.166115
0.107224 | 0.204927
0.20565 | 0.0054076
 | 0.182128
0.269292 | 0.166115
0.107224 | 9.49239
7.85049 | | 2.04935 6.1
1.97319 5.0 |
 | 54519 -0.19
1.7723 -0.099 |
 | 378 8.49835
0 5.44595 | | 0 1.64596
0 0.972298
 | 14.4975
8.56396 |
| nd Pip 2.59 kg/s Release Rate 7.5D TOWNGAS

 |
 | TOWNGAS

 | 0 Flammable (18.75)

 | 0.361042 | 0.361042 | 0.206831
 | 0.361042 | 0.00199478 | 0.553858 | 0.0406002 | 0.361042 | 0.00199478
 | 0.553858 | 0.0406002 | 0.206831 | 0.00264268
 | 0.315493 | 0.0406002 | 6.77738 | | |
 | | 98929 0.20109
 | | | 0 0.641428
 | |
| und Pip 2.59 kg/s Release Rate 3E TOWNGAS

 |
 | TOWNGAS

 | 0 Flammable (18.75)

 | 0.329906 | 0.329906 | 0.205694
 | 0.329906 | 0.00817993 | 0.562613 | 0.00987517 | 0.329906 | 0.00817993
 | 0.562613 | 0.00987517 | 0.205694 | 0.00925035
 | 0.3256 | 0.00987517 | 7.93326 | | |
 | 15335 -0.083 | 32788
 | 0 6.27407 | | 0 1.22479
 | |
| nd Pip 2.59 kg/s Release Rate 1F TOWNGAS

 |
 | TOWNGAS

 | 0 Flammable (18.75)

 | 0.314628 | 0.314628 | 0.204403
 | 0.314628 | 0.00973211 | 0.51211 | 0.128049 | 0.314628 | 0.00973211
 | 0.51211 | 0.128049 | 0.204403 | 0.011395
 | 0.25811 | 0.128049 | 6.85378 | | 1.22736 4.0 |
 | 90828 -0.11 | 23213
 | 0 6.58368 | | 0 1.35757
 | 11.9574 |
|

 |
 | TOWNGAS
TOWNGAS

 | 0 Flammable (18.75)

 | 0.705315
0.712116 | 0.705315
0.712116 | 0.409907
0.411606
 | 0.705315
0.712116 | 0.00859037
7.74374E-05 | 0.948476 | 0.331779 0.159878 | 0.705315
0.712116 | 0.00859037
7.74374E-05
 | 0.948476 | 0.331779 0.159878 | 0.409907 | 0.0105616
0.00158505
 | 0.365343
0.585267 | 0.331779 0.159878 | 18.0412
15.3227 | | 3.97395 11.0
3.83081 9.8 |
 | | 55731 0.37973
88379 0.24075
 | | | 0 12.0395
0 7.21104
 | 106.043
63.5145 |
|

 | TOWNGAS
 |

 | 0 Flammable (18.75)
0 Flammable (18.75)

 | 0.712116 | 0.712116 | 0.411606
 | 0.712116
0.723121 | 7.74374E-05
0.0113632 | 1.07304 | 0.159878 | 0.712116
0.723121 | 7.74374E-05
0.0113632
 | 1.07304 | 0.159878 | 0.411606 | 0.00158505
 | 0.585267 | 0.159878 | | | 3.83081 9.8
3.47557 7.8 |
 | | 88379 0.24075
28355 0.17386
 | | | 0 7.21104
0 4.80249
 | 63.5145
42.3001 |
| und Pip 10.36 kg/s Release Rate 7.50 TOWNGAS
und Pip 10.36 kg/s Release Rate 3E TOWNGAS

 | TOWNGAS
TOWNGAS
 |

 | 0 Flammable (18.75)
0 Flammable (18.75)

 | 0.662078 | 0.662078 | 0.414284
 | 0.662078 | 0.00113632 | 0.933944 | 0.355076 | 0.662078 | 0.00825574
 | 0.933944 | 0.355076 | 0.414284 | 0.0102312
 | 0.32823 | 0.355076 | 13.557 | | 3.58931 9.7 |
 | | 28355 U.17380
53547 0.28093
 | | | 0 4.80249
 | 42.3001
75.8921 |
| und Pip 10.36 kg/s Release Rate 1F TOWNGAS

 | TOWNGAS
TOWNGAS
TOWNGAS
 | TOWNGAS

 | 0 Flammable (18.75)

 | 0.631233 | 0.631233 | 0.408998
 | 0.631233 | 0.0247667 | 1.0561 | 0.207982 | 0.631233 | 0.0247667
 | 1.0561 | 0.207982 | 0.408998 | 0.0278437
 | 0.564304 | 0.207982 | 12.9981 | 10.1895 2 | 2.44742 8.0 | 1003 7.5
 | 54781 -0.34 | 42697 0.3773
 | 739 12.3693 | 3 | 0 9.54748
 | 84.0938 |
| und Pip 41.4 kg/s Release rate 1D TOWNGAS

 | TOWNGAS
TOWNGAS
TOWNGAS
TOWNGAS
TOWNGAS
 | TOWNGAS
TOWNGAS

 |

 | 1.43111 | 1.43111 | 0.818588
 | 1.43111 | 0.0318879 | 2.00052 | 0.539688 | 1.43111 | 0.0318879
 | 2.00052 | 0.539688 | 0.818588 | 0.0354964
 | 0.940644 | 0.539688 | 33.2671 | | 7.51432 21. |
 | | 35112 0.72718
 | | | 0 85.3728
 | |
| ound Pip 41.4 kg/s Release rate 4D TOWNGAS

 | TOWNGAS
TOWNGAS
TOWNGAS
TOWNGAS
TOWNGAS
 | TOWNGAS
TOWNGAS
TOWNGAS

 | 0 Flammable (18.75)

 | 1.44278 | 1.44278 | 0.820731
 | 1.44278 | 0.025555 | 2.12475 | 0.355145 | 1.44278 | 0.025555
 | 2.12475 | 0.355145 | 0.820731 | 0.0286658
 | 1.14105 | 0.355145 | 29.4979 | | 7.37372 18. |
 | | 79795 0.88712
 | | | 0 52.3409
 | 461.016 |
| ound Pip 41.4 kg/s Release rate 7.5D TOWNGAS
ound Pip 41.4 kg/s Release rate 3E TOWNGAS

 | TOWNGAS
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 | TOWNGAS
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TOWNGAS
TOWNGAS

 | 0 Flammable (18.75)
0 Flammable (18.75)

 | | 1.46292 | 0.824392
 | 1.46292 | 0.0204364 | 2.20758 | 0.177164
0.611991 | 1.46292
1.41459 | 0.0204364
0.00652756
 | 2.20758 | 0.177164 0.611991 | 0.824392
0.820806 | 0.0230673 0.0102197
 | 1.25402
0.860302 | 0.177164
0.611991 | 27.0157 28.3552 | | |
 | | 55202 0.63085
32562 0.50395
 | | | 0 35.7233 0 58.9933
 | 314.649
519.61 |
| ound Pip 41.4 kg/s Release rate 3E TOWNGAS
ound Pip 41.4 kg/s Release rate 1F TOWNGAS

 | TOWNGAS
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TOWNGAS
TOWNGAS
TOWNGAS
TOWNGAS
 | TOWNGAS
TOWNGAS
TOWNGAS

 | 0 Flammable (18.75)

 | 1.46292 | 1.41459 | 0.820806
 | 1.41459 | 0.00652756 | | | |
 | 2 14409 | 0.811991 | 0.820806 |
 | 1.17754 | | | | |
 | | 52562 U.50395
75756 0.67706
 | | | 0 58.9933
 | |

Path	Scena	iario V	Weather	Material	Material to track	Height of interest (coming from	Averaging time used for concentration of	Maximum distance (at height of	Minimum distance (at height of	Maximum width (at height of interest) to conc	Downwind distance to max width (at height	Maximum distance (at height of	Minimum distance (at height of	Maximum width (at height of interest) to	Downwind distance (at height of	Maximum distance (at height of	Minimum distance (at height of	Maximum width (at height of interest) to	Downwind distance to max width (at height	Maximum distance (at height of	Minimum distance (at height of	Maximum width (at height of interest) to	Downwind distance (at height of	Maximum distance (at height of	Minimum distance (at height of	Maximum width (at height of interest) to IDLH	Downwind distance (at height of	Maximum distance (at height of	Minimum distance (at height of	Maximum width (at height of interest) to STEL	Downwind distance (at height of
						parameters) (m)	interest (s)	interest) to conc	interest) to conc	of interest (m)	of interest) for	interest) to	interest) to	ERPG1 (3600 s)	interest) to max	interest) to	interest) to	ERPG2 (3600 s)	of interest) for	interest) to	interest) to	ERPG3 (3600 s)	interest) to max	interest) to IDLH	interest) to IDLH	(1800 s) (m)	interest) to max	interest) to STEL	interest) to STEL	(900 s) (m)	interest) to ma
								of interest (m)	of interest (m)		conc of interest	ERPG1 (3600 s)	ERPG1 (3600 s)	(m)	width for ERPG1	ERPG2 (3600 s)	ERPG2 (3600 s)	(m)	ERPG2 (3600 s)	ERPG3 (3600 s)	ERPG3 (3600 s)	(m)	width for ERPG3	of interest (1800	(1800 s) (m)		width for IDLH	(900 s) (m)	(m) (a 000)		width for STEL
dy\Underground Pi	Pip 20.72 kg/s R	Release Rate 1D		CARBON MONOXIDE	CARBON MONOXIDE		'axic (60)	108.493	-89.9276	191.151	7.90654																				
dy\Underground Pi	Pip 20.72 kg/s P	Release Rate 4D		CARBON MONOXIDE	CARBON MONOXIDE		'axic (60)	184.46	-84.4221	191.149	18.457																				
dy\Underground Pi	Pip 20.72 kg/s P	Release Rate 7.5D		CARBON MONOXIDE			'axic (60)	321.439	-79.6968	191.145	37.2505																				
dy\Underground Pi	Pip 20.72 kg/s P	Release Rate 3E		CARBON MONOXIDE			'axic (60)	174.591	-85.2526	190.935	16.1982																				
dy\Underground Pi	Pip 20.72 kg/s P	Release Rate 1F		CARBON MONOXIDE			'axic (60)	133.948	-88.1478	191.151	12.3716																				
dy\Underground Pi	Pip 0.576 kg/s R	Release Rate 7.5D		CARBON MONOXIDE	CARBON MONOXIDE		'axic (60)	0.195603	-0.00237684	0.16135	0.136773																				
		elease Rate 7.5D			CARBON MONOXIDE		'axic (60)	0.387225	0.0163331	0.252842	0.323073																				
		Release Rate 7.5D			TOWNGAS		'axic (60)																								
		Release Rate 7.5D		TOWNGAS	TOWNGAS		'axic (60)																								
dy\Underground Pi				TOWNGAS	TOWNGAS		'axic (60)																								
dy\Underground Pi				TOWNGAS	TOWNGAS		'axic (60)																								
		's Release rate 7.5D		TOWNGAS	TOWNGAS		'axic (60)																								
dy\Underground Pi				TOWNGAS	TOWNGAS		'axic (60)																								
dy\Underground Pi				TOWNGAS	TOWNGAS		'axic (60)																								
dy\Underground Pi				TOWNGAS	TOWNGAS		'axic (60)																								
		Release Rate 7.5D		TOWNGAS	TOWNGAS		'axic (60)																								
		Release Rate 7.5D		TOWNGAS	TOWNGAS		axic (60)																								
		Release Rate 7.5D		TOWNGAS	TOWNGAS		axic (60)																								
dy\Underground Pi	Pip 41.4 kg/s Ri	Release rate 7.5D		TOWNGAS	TOWNGAS	0 1	'axic (60)																								

		from from	po	wer (kW/m2) intensity level	1 intensity level 2	2 intensity level 3	downv intens /a.kw/	wind to i ity level 1 i /m 2) (m)	downwind to downwii intensity level 2 intensity (12.5 kW/m2) (37.5 kW	nd to y level 3 //m2)	intensity level 1 (4 kW/m2) (m2)	intensity level 2 (12.5 kW/m2) (m2)	intensity level 3 (37.5 kW/m2) (m2)	length to intensity level 1 (4 kW/m2) (m)	length to length intensity level 2 intens (12.5 kW/m2) (37.5 l	i to ity level 3 kW/m21	to intensity level 1 (4 kW/m2) (m)	to intensity level 2 (12.5 kW/m2) (m)	to intensity level 3 (37.5 kW/m2) (m)	downwind i distance to i	downwind distance to inteority level 2	downwind distance to
Study\Underground Pip 0.023 kg/s Release Rate 1D	CARBON MONOXIDE	parameters) (m)	2.9708	10.6807 Parameter value	Parameter value	Parameter value	(4 KW)	/m2)(m)	(m) (m)	r/m2)	a a/a	(112)	(m2)	(4 kW/m2)(m)	(m) (m) (m)	a/a	2/2	()	()	(4 kW/m2) (m)	(12.5 kW/m2)	(37.5 kW/m2)
Study\Underground Pip 0.023 kg/s Release Rate 4D	CARBON MONOXIDE	0	2.28809	14.4603 Parameter value	Parameter value	Parameter value	1.14	1.40797 n/a	n/a		0.376669 n/a	n/a		0.548006 n/a			0.218789 n/a			0.859962 n/a	n/	'a
Study\Underground Pip 0.023 kg/s Release Rate 7.5D Study\Underground Pip 0.023 kg/s Release Rate 3E	CARBON MONOXIDE CARBON MONOXIDE	0	1.98875 2.4835	17.8422 Parameter value 12.7926 Parameter value	Parameter value Parameter value	Parameter value Parameter value	n/a	2.5355 n/a	2.20599 n/a n/a	n/a	3.91052 a n/a	0.720405 n/a n/a		1.23183 n/a n/a	0.745542 n/a n/a	n/a	1.0105 n/a	0.307578 n/a n/a	n/a	1.30367 n/a	1.46045 n/	la la
Study\Underground Pip 0.023 kg/s Release Rate 1F Study\Underground Pip 0.144 kg/s Release Rate 1D	CARBON MONOXIDE CARBON MONOXIDE	0	2.9708 6.55592	10.6807 Parameter value 13.4477 Parameter value	Parameter value	Parameter value Parameter value	n/a n/a	n/a	n/a	n/a	a n/a	n/a		n/a n/a	n/a	n/a	n/a	n/a	n/a n/a	n/a	n/	(a
Study\Underground Pin () 144 kg/s Release Rate (40)	CARBON MONOXIDE	0	5.04932	18.1669 Parameter value	Parameter value Parameter value	Parameter value	n/a	n/a 2.74621 n/a	n/a n/a	n/a	a n/a 2.78795 n/a	n/a n/a		n/a n/a 1.27917 n/a		n/a	0.693755 n/a			1.46704 n/a	n/	
Study\Underground Pip 0.144 kg/s Release Rate 7.5D Study\Underground Pip 0.144 kg/s Release Rate 3E	CARBON MONOXIDE CARBON MONOXIDE	0	4.38874 5.48056	22.9308 Parameter value 16.043 Parameter value	Parameter value Parameter value	Parameter value Parameter value	n/a	5.30425	3.62273 n/a	-	19.8992	0.676631 n/a		2.63266 n/a n/a	0.762954 n/a n/a	-	2.40597	0.282295 n/a n/a	n/a	2.67159	2.85977 n/	
Study\Underground Pip 0.144 kg/s Release Rate 1F	CARBON MONOXIDE	0	6.55592	13.4477 Parameter value	Parameter value	Parameter value	n/a	n/a	n/a	n/a	a 1/a a n/a	n/a		n/a n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/	
Study\Underground Pip 0.576 kg/s Release Rate 1D Study\Underground Pip 0.576 kg/s Release Rate 4D	CARBON MONOXIDE CARBON MONOXIDE	0	11.8705 9.14256	16.1047 Parameter value 21.6539 Parameter value	Parameter value Parameter value	Parameter value Parameter value	n/a	n/a 5.28776 n/a	n/a n/a	n/a	a n/a 15.7949 n/a	n/a n/a		n/a n/a 2.69405 n/a	n/a n/a	n/a	n/a 1.86621 n/a	n/a n/a	n/a	n/a 2.5937 n/a	n/ n/	la la
Study\Underground Pip 0.576 kg/s Release Rate 7.5D	CARBON MONOXIDE	0	7.94647	27.8046 Parameter value	Parameter value	Parameter value		8.68583 n/a	n/a		62.4583 n/a	n/a		4.41782 n/a	n/a		4.50021 n/a	n/a		4.26801 n/a	n/	a
Study\Underground Pip 0.576 kg/s Release Rate 3E Study\Underground Pip 0.576 kg/s Release Rate 1F	CARBON MONOXIDE CARBON MONOXIDE	0	9.92337 11.8705	19.1727 Parameter value 16.1047 Parameter value	Parameter value Parameter value	Parameter value Parameter value	n/a	0.942307 n/a n/a	n/a n/a	n/a	0.488114 n/a a n/a	n/a n/a		0.31435 n/a n/a n/a	n/a n/a	n/a	0.494262 n/a n/a	n/a n/a	n/a	0.627957 n/a n/a	n/ n/	
Study\Underground Pip 2.3 kg/s Release Rate 1D Study\Underground Pip 2.3 kg/s Release Rate 4D	CARBON MONOXIDE CARBON MONOXIDE	0	21.4015 16.4833	19.3649 Parameter value 25.8827 Parameter value	Parameter value Parameter value	Parameter value Parameter value	n/a	n/a 10.3996 n/a	n/a n/a	n/a	a n/a 83.1969 n/a	n/a n/a		n/a n/a 5.7739 n/a	n/a n/a	n/a	n/a 4.58657 n/a	n/a n/a		n/a 4.62573 n/a	n/	(a (-
Study\Underground Pip 2.3 kg/s Release Rate 7.5D	CARBON MONOXIDE	0	14.3268	33.7763 Parameter value	Parameter value	Parameter value		15.5122 n/a	n/a n/a		217.039 n/a	n/a		7.98867 n/a	n/a		8.64795 n/a	n/a		7.52351 n/a	n/	a
Study\Underground Pip 2.3 kg/s Release Rate 3E Study\Underground Pip 2.3 kg/s Release Rate 1F	CARBON MONOXIDE CARBON MONOXIDE	0	17.891 21.4015	23.0382 Parameter value 19.3649 Parameter value	Parameter value Parameter value	Parameter value Parameter value	n/a	4.3675 n/a n/a	n/a n/a	n/a	18.5612 n/a	n/a n/a		2.6725 n/a n/a n/a	n/a n/a	n/a	2.21075 n/a	n/a n/a		1.695 n/a	n/ n/	
Study\Underground Pip 0.023 kg/s Release Rate 1D	CARBON MONOXIDE	0	2.9708	10.6807 Parameter value	Parameter value	Parameter value	n/a	n/a	n/a	n/a	a n/a	n/a		n/a n/a	n/a	n/a	n/a	n/a	n/a		n/	a
Study\Underground Pip 0.023 kg/s Release Rate 4D Study\Underground Pip 0.023 kg/s Release Rate 7.5D	CARBON MONOXIDE CARBON MONOXIDE	0	2.28809 1.98875	14.4603 Parameter value 17.8422 Parameter value	Parameter value Parameter value	Parameter value Parameter value		1.40797 n/a 2.5355	n/a 2.20599 n/a		0.376669 n/a 3.91052	n/a 0.720405 n/a		0.548006 n/a 1.23183	n/a 0.745542 n/a		0.218789 n/a 1.0105	n/a 0.307578 n/a		0.859962 n/a 1.30367	n/ 1.46045 n/	
Study\Underground Pip 0.023 kg/s Release Rate 3E Study\Underground Pip 0.023 kg/s Release Rate 1E	CARBON MONOXIDE	0	2.4835	12.7926 Parameter value 10.6807 Parameter value	Parameter value Parameter value	Parameter value Parameter value	n/a n/a	n/a	n/a	n/a		n/a		n/a n/a n/a n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/-	
Study\Underground Pip 0.144 kg/s Release Rate 1D	CARBON MONOXIDE	0	6.55592	13.4477 Parameter value	Parameter value	Parameter value	n/a n/a	n/a n/a	n/a n/a	n/a n/a	a n/a	n/a n/a		n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a	n/	'a
Study\Underground Pip 0.144 kg/s Release Rate 4D Study\Underground Pip 0.144 kg/s Release Rate 7.5D	CARBON MONOXIDE	0	5.04932 4.38874	18.1669 Parameter value 22.9308 Parameter value	Parameter value Parameter value	Parameter value Parameter value		2.74621 n/a 5.30425	n/a 3.62273 n/a		2.78795 n/a 19.8992	n/a 0.676631 n/a		1.27917 n/a 2.63266	n/a 0.762954 n/a		0.693755 n/a 2.40597	n/a 0.282295 n/a		1.46704 n/a 2.67159	n/- 2.85977 n/-	
Study\Underground Pip 0.144 kg/s Release Rate 3E	CARBON MONOXIDE	0	5.48056	16.043 Parameter value	Parameter value	Parameter value	n/a	n/a	n/a	n/a		n/a		n/a n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/	a
Study\Underground Pip 0.144 kg/s Release Rate 1F Study\Underground Pip 0.576 kg/s Release Rate 1D	CARBON MONOXIDE CARBON MONOXIDE	0	6.55592 15.1129	13.4477 Parameter value 10.4174 Parameter value	Parameter value Parameter value	Parameter value Parameter value	n/a n/a	n/a n/a	n/a n/a	n/a n/a		n/a n/a		n/a n/a n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/- n/-	(a (a
Study\Underground Pip 0.576 kg/s Release Rate 4D	CARBON MONOXIDE CARBON MONOXIDE	0	11.6398 10.117	13.9626 Parameter value 17.5803 Parameter value	Parameter value	Parameter value		7.56446 n/a 10.4815 n/a	n/a		16.7683 n/a	n/a		3.43151 n/a	n/a		1.55544 n/a 4.00075 n/a	n/a		4.13295 n/a	n/	(a
Study\Underground Pip 0.576 kg/s Release Rate 7.5D Study\Underground Pip 0.576 kg/s Release Rate 3E	CARBON MONOXIDE	0	12.6339	12.4256 Parameter value	Parameter value Parameter value	Parameter value Parameter value		10.4815 n/a 2.64443 n/a	n/a n/a	n/a	64.0087 n/a a n/a	n/a n/a		5.0927 n/a n/a n/a	n/a n/a	n/a	4.000/5 h/a n/a	n/a n/a	n/a	5.38883 n/a n/a	n/	'a 'a
Study\Underground Pip 0.576 kg/s Release Rate 1F Study\Underground Pip 2.3 kg/s Release Rate 1D	CARBON MONOXIDE CARBON MONOXIDE	0	15.1129 27.2473	10.4174 Parameter value 12.5722 Parameter value	Parameter value Parameter value	Parameter value Parameter value	n/a n/a	n/a	n/a	n/a n/a	a n/a	n/a		n/a n/a n/a n/a	n/a	n/a n/a	n/a	n/a	n/a n/a	n/a	n/	la In
Study\Underground Pip 2.3 kg/s Release Rate 4D	CARBON MONOXIDE	0	20.9857	16.7524 Parameter value	Parameter value	Parameter value	1.14	13.7968 n/a	n/a	1.14	78.3877 n/a	n/a		6.53718 n/a	n/a	-1/2	3.81687 n/a	n/a		7.25965 n/a	n/	'a
Study\Underground Pip 2.3 kg/s Release Rate 7.5D Study\Underground Pip 2.3 kg/s Release Rate 3E	CARBON MONOXIDE CARBON MONOXIDE	0	18.2402 22.7779	21.3662 Parameter value 14.9756 Parameter value	Parameter value Parameter value	Parameter value Parameter value		18.4694 n/a 7.87552 n/a	n/a n/a		214.675 n/a 18.8804 n/a	n/a n/a		9.08254 n/a 3.08228 n/a	n/a n/a		7.52357 n/a 1.9498 n/a	n/a n/a		9.38689 n/a 4.79325 n/a	n/- n/-	/a /a
Study\Underground Pip 2.3 kg/s Release Rate 1F	CARBON MONOXIDE	0	27.2473	12.5722 Parameter value	Parameter value	Parameter value	n/a	n/a	n/a	n/a	a n/a	n/a		n/a n/a 1.32 n/a	n/a	n/a	n/a	n/a	n/a		n/	a
Study\Underground Pip 0.41 kg/s Release Rate 1D Study\Underground Pip 0.41 kg/s Release Rate 4D	TOWNGAS TOWNGAS	0	10.7582 8.28592	40.4054 Parameter value 54.2351 Parameter value	Parameter value Parameter value	Parameter value Parameter value		2.87683 n/a 9.40832	n/a 1.67629 n/a		8.28828 n/a 100.994 n/a	n/a n/a		5.10575 n/a	n/a		1.99866 n/a 6.29629 n/a	n/a n/a		4.30257 n/a	n/ n/	a
Study\Underground Pip 0.41 kg/s Release Rate 7.5D Study\Underground Pip 0.41 kg/s Release Rate 3E	TOWNGAS TOWNGAS	0	7.2019 8.99357	68.9186 Parameter value 48.1003 Parameter value	Parameter value Parameter value	Parameter value Parameter value		11.2922 8.29476 n/a	7.34982 n/a n/a		131.804 76.3844 n/a	37.3066 n/a n/a		5.8803 4.67916 n/a	3.66321 n/a n/a		7.13477 5.19621 n/a	3.2417 n/a n/a		5.41192 3.6156 n/a	3.68661 n/	
Study\Underground Pip 0.41 kg/s Release Rate 1F	TOWNGAS	0	10.7582	40.4054 Parameter value	Parameter value	Parameter value		2.87683 n/a	n/a		8.28828 n/a	n/a		1.32 n/a	n/a		1.99866 n/a	n/a		1.5537 n/a	n/	a
Study\Underground Pip 2.59 kg/s Release Rate 1D Study\Underground Pip 2.59 kg/s Release Rate 4D	TOWNGAS TOWNGAS	0	23.5496 18.1377	51.8276 Parameter value 69.0727 Parameter value	Parameter value Parameter value	Parameter value Parameter value		10.7489 n/a 21.8398	n/a 7.65375 n/a		212.478 n/a 707.89	n/a 38.1169 n/a		8.12383 n/a 14.1735	n/a 4.23111 n/a		8.32537 n/a 15.8979	n/a 2.86757 n/a		2.6251 n/a 7.66631	n/ 3.42264 n/	
Study\Underground Pip 2.59 kg/s Release Rate 7.5D	TOWNGAS	0	15.7648	89.5712 Parameter value	Parameter value	Parameter value		24.8275	15.7627 n/a		788.161	196.333 n/a		14.2231	8.07096 n/a		17.6389	7.74315 n/a		10.6045	7.69177 n/	a
Study\Underground Pip 2.59 kg/s Release Rate 3E Study\Underground Pip 2.59 kg/s Release Rate 1F	TOWNGAS TOWNGAS	0	19.6868 23.5496	61.6392 Parameter value 51.8276 Parameter value	Parameter value Parameter value	Parameter value Parameter value		19.8369 10.7489 n/a	2.21237 n/a n/a		586.591 212.478 n/a	3.58841 n/a n/a		13.4924 8.12383 n/a	0.842683 n/a n/a		13.8387 8.32537 n/a	1.35546 n/a n/a		6.34444 2.6251 n/a	1.36969 n/	la la
Study\Underground Pip 10.36 kg/s Release Rate 1D Study\Underground Pip 10.36 kg/s Release Rate 4D	TOWNGAS	0	42.2946	62.7422 Parameter value 83.1732 Parameter value	Parameter value Parameter value	Parameter value Parameter value		25.3383 n/a 41.4503	n/a 17.0646 n/a		1301.48 n/a 2929.99	n/a 251.449 n/a		20.5499 n/a 29.3393	n/a 10.0485 n/a		20.1593 n/a 31.7883	n/a 7.96524n/a		4.78837 n/a	n/ 7.01613 n/	
Study\Underground Pip 10.36 kg/s Release Rate 7.5D	TOWNGAS	0	28.3133	109.247 Parameter value	Parameter value	Parameter value		45.4149	28.3971 n/a		3191.65	716.781 n/a		29.1348	14.8762 n/a		34.8702	15.3372 n/a		16.2801	13.5209 n/	/a
Study\Underground Pip 10.36 kg/s Release Rate 3E Study\Underground Pip 10.36 kg/s Release Rate 1F	TOWNGAS	0	35.3571 42.2946	74.6737 Parameter value 62.7422 Parameter value	Parameter value	Parameter value Parameter value		38.344 25.3383 n/a	6.52047 n/a		2532.04 1301.48 n/a	76.3373 n/a		28.1879 20.5499 n/a	4.56909 n/a		28.593 20.1593 n/a	5.3181 n/a		10.1561 4.78837 n/a	1.95138 n/	(a (a
Study\Underground Pip 41.4 kg/s Release rate 1D	TOWNGAS	0	81.1461	63.9429 Parameter value	Parameter value	Parameter value		82.6538 n/a	n/a		5029.85 n/a	n/a		38.184 n/a			41.9299 n/a	n/a		44.4698 n/a	n/	
Study\Underground Pip 41.4 kg/s Release rate 4D Study\Underground Pip 41.4 kg/s Release rate 7.5D	TOWNGAS TOWNGAS	0	62.4982 54.3218	90.5888 Parameter value 103.154 Parameter value	Parameter value Parameter value	Parameter value Parameter value		78.642 78.7259	42.3067 n/a 50.1323 n/a		6471.72 7741.64	720.938 n/a 1651.04 n/a		39.913 44.7308	17.8855 n/a 24.0283 n/a		51.6125 55.0904	12.8306 n/a 21.8718 n/a		38.7289 33.9951	24.4213 n/ 26.104 n/	
Study\Underground Pip 41.4 kg/s Release rate 3E	TOWNGAS TOWNGAS	0	67.8358	81.7367 Parameter value	Parameter value	Parameter value		80.3609	31.348 n/a		6101.1	167.198 n/a		39.4161	10.2675 n/a		49.2702	5.18343 n/a		40.9448	21.0806 n/	a
Study\Underground Pip 41.4 kg/s Release rate 1F Study\Underground Pip 0.41 kg/s Release Rate 1D	TOWNGAS	0	81.1461 13.6968	63.9429 Parameter value 26.061 Parameter value	Parameter value Parameter value	Parameter value Parameter value		82.6538 n/a 9.49007 n/a	n/a n/a		5029.85 n/a 37.4149 n/a	n/a n/a		38.184 n/a 4.0801 n/a	n/a n/a		41.9299 n/a 2.91893 n/a	n/a n/a		44.4698 n/a 5.40997 n/a	n/ n/	(a (a
Study\Underground Pip 0.41 kg/s Release Rate 4D Study\Underground Pip 0.41 kg/s Release Rate 7.5D	TOWNGAS TOWNGAS	0	10.5492 9.1691	34.8734 Parameter value 43.5453 Parameter value	Parameter value Parameter value	Parameter value Parameter value		11.5398 12.9334	1.95603 n/a 9.01405 n/a		113.613 145.608	0.112773 n/a 35.9254 n/a		5.74867 6.47585	0.404057 n/a 4.29874 n/a		6.29085 7.15711	0.0888408 n/a 2.66018 n/a		5.79111 6.45753	1.55197 n/ 4.71531 n/	
Study\Underground Pip 0.41 kg/s Release Rate 3E	TOWNGAS	0	11.4502	31.0788 Parameter value	Parameter value	Parameter value		11.244 n/a	5.01405 Il/a n/a		93.3114 n/a	53.5234 ii/a n/a		5.53137 n/a			5.36973 n/a	2.00018 II/a n/a		5.71261 n/a	n/	/a
Study\Underground Pip 0.41 kg/s Release Rate 1F Study\Underground Pip 2.59 kg/s Release Rate 1D	TOWNGAS TOWNGAS	0	13.6968 28.9767	26.061 Parameter value 36.8208 Parameter value	Parameter value Parameter value	Parameter value Parameter value		9.49007 n/a 25.1172 n/a	n/a n/a		37.4149 n/a 378.832 n/a	n/a n/a		4.0801 n/a 11.4618 n/a	n/a n/a		2.91893 n/a 10.5207 n/a	n/a		5.40997 n/a 13.6554 n/a	n/ n/	
Study\Underground Pip 2.59 kg/s Release Rate 4D	TOWNGAS	0	22.3177	48.1861 Parameter value	Parameter value	Parameter value		25.3955	8.99969 n/a		629.738	25.192 n/a		13.1162	3.67435 n/a		15.2827	2.18239 n/a		12.2792	5.32535 n/	a
Study\Underground Pip 2.59 kg/s Release Rate 7.5D Study\Underground Pip 2.59 kg/s Release Rate 3E	TOWNGAS TOWNGAS	0	19.3979 24.2237	59.9011 Parameter value 44.0815 Parameter value	Parameter value Parameter value	Parameter value Parameter value		27.4907 25.3887 n/a	18.4018 n/a n/a		734.643 557.822 n/a	176.451 n/a n/a		13.8475 12.7835 n/a	8.85314 n/a n/a		16.887 13.8898 n/a	6.34421 n/a n/a		13.6431 12.6052 n/a	9.54865 n/	
Study\Underground Pip 2.59 kg/s Release Rate 1F Study\Underground Pip 10.36 kg/s Release Rate 1D	TOWNGAS TOWNGAS	0	28.9767 52.2037	36.8208 Parameter value 44.5392 Parameter value	Parameter value Parameter value	Parameter value Parameter value		25.1172 n/a 49.7845 n/a	n/a n/a		378.832 n/a 1775.65 n/a	n/a		11.4618 n/a 23.5966 n/a			10.5207 n/a 23.9529 n/a	n/a		13.6554 n/a 26.1879 n/a	n/ n/	/a
Study\Underground Pip 10.36 kg/s Release Rate 4D	TOWNGAS	0	40.207	58.1997 Parameter value	Parameter value	Parameter value		47.6491	21.0762 n/a		2524.4	198.596 n/a		26.3162	9.91374 n/a		30.5341	6.3765 n/a		21.3329	11.1625 n/	/a
Study\Underground Pip 10.36 kg/s Release Rate 7.5D Study\Underground Pip 10.36 kg/s Release Rate 3E	TOWNGAS TOWNGAS	0	34.9468 43.6408	72.6303 Parameter value 53.3412 Parameter value	Parameter value Parameter value	Parameter value Parameter value		49.3837 48.7486	32.2155 n/a 15.2325 n/a		2745.48 2299.3	612.393 n/a 58.0142 n/a		26.4297 25.2673	15.7208 n/a 5.61704 n/a		33.0656 28.9659	12.3995 n/a 3.28759 n/a		22.954 23.4813	16.4947 n/ 9.61549 n/	
Study\Underground Pip 10.36 kg/s Release Rate 1F	TOWNGAS	0	52.2037	44.5392 Parameter value	Parameter value	Parameter value		49.7845 n/a	n/a		1775.65 n/a	n/a		23.5966 n/a	n/a		23.9529 n/a	n/a		26.1879 n/a	n/	a
Study\Underground Pip 41.4 kg/s Release rate 1D Study\Underground Pip 41.4 kg/s Release rate 4D	TOWNGAS TOWNGAS	0	93.7185 72.1814	54.0701 Parameter value 70.6361 Parameter value	Parameter value Parameter value	Parameter value Parameter value		96.605 n/a 90.4381	n/a 49.3399 n/a		7776.42 n/a 10259.1	n/a 1389.95 n/a		47.9855 n/a 52.9066	n/a 24.8058 n/a		51.5846 n/a 61.7235	n/a 17.836 n/a		48.6196 n/a 37.5315	n/ 24.5341 n/	(a (a
Study\Underground Pip 41.4 kg/s Release rate 7.5D Study\Underground Pip 41.4 kg/s Release rate 3F	TOWNGAS	0	62.7381 78.3459	88.1877 Parameter value 64.7932 Parameter value	Parameter value Parameter value	Parameter value Parameter value		89.9496 92.9124	57.5671 n/a 42.2613 n/a		10822.2	2284.78 n/a 789.26 n/a		53.1425 51.1436	29.0258 n/a 19.3136 n/a		64.8224 59.2787	25.056 n/a 13.0079 n/a		36.807 41 7688	28.5413 n/ 22 9477 n/	/a
Study\Underground Pip 41.4 kg/s Release rate 1F	TOWNGAS	0	93.7185	54.0701 Parameter value	Parameter value	Parameter value		92.9124 96.605 n/a	n/a		7776.42 n/a	n/a		47.9855 n/a	n/a		51.5846 n/a	n/a		48.6196 n/a	n/	a
Study\Underground Pip 10mm leak (Jet Fire) - Je 1D Study\Underground Pip 10mm leak (Jet Fire) - Je 4D	TOWNGAS TOWNGAS		8.5438	58.5882 Parameter value 82.3902 Parameter value	Parameter value Parameter value	Parameter value Parameter value	n/a	n/a 6.07276 n/a	n/a n/a	n/a	a n/a 53.8178 n/a	n/a n/a		n/a n/a 4.05792 n/a	n/a n/a	n/a	n/a 4.22155 n/a	n/a n/a	n/a	n/a 2.01484 n/a	n/- n/-	/a /a
Study/Underground Pip 10mm leak (Jet Fire) - Je 7.5D Study/Underground Pip 10mm leak (Jet Fire) - Je 3.5D	TOWNGAS		6.58038 5.71949 7.14237	93.5868 Parameter value 74.4795 Parameter value	Parameter value Parameter value	Parameter value Parameter value		7.38039	3.25131 n/a		69.3055	5.45973 n/a		3.99731	1.5515 n/a		5.51887 3.00661 n/a	1.12013 n/a		3.37864	1.69981 n/	
Study\Underground Pip 10mm leak (Jet Fire) - Je 1F	TOWNGAS		8.5438	58.5882 Parameter value	Parameter value	Parameter value	n/a	4.86288 n/a n/a	n/a	n/a		n/a n/a		2.42995 n/a n/a n/a	n/a n/a	n/a	n/a	n/a n/a			n/ n/	/a
Study\Underground Pip 25mm leak (Jet Fire) - Je 1D Study\Underground Pip 25mm leak (Jet Fire) - Je 4D	TOWNGAS TOWNGAS		19.1278	71.3883 Parameter value 100.563 Parameter value	Parameter value Parameter value	Parameter value Parameter value		6.5114 n/a 14.736 n/a	n/a n/a		32.8859 n/a 395.196 n/a	n/a n/a		2.38245 n/a 11.2651 n/a			4.39377 n/a 11.1667 n/a	n/a n/a		4.03774 n/a 3.47082 n/a	n/-	la la
Study\Underground Pip 25mm leak (Jet Fire) - Je 7.5D	TOWNGAS		14.7321 12.8048	114.211 Parameter value	Parameter value	Parameter value		17.361	n/a 7.70273 n/a		529.017	n/a 42.1771 n/a		12.237	3.93582 n/a		13.7608	3.41108 n/a		5.12403	3.76691 n/	
Study\Underground Pip 25mm leak (Jet Fire) - Je 3E Study\Underground Pip 25mm leak (Jet Fire) - Je 1F	TOWNGAS TOWNGAS		15.9903 19.1278	90.8895 Parameter value 71.3883 Parameter value	Parameter value Parameter value	Parameter value Parameter value		12.5677 n/a 6.5114 n/a	n/a n/a		298.397 n/a 32.8859 n/a	n/a n/a		9.83078 n/a 2.38245 n/a			9.66176 n/a 4.39377 n/a	n/a n/a		2.73691 n/a 4.03774 n/a	n/- n/-	ra fa
Study\Underground Pip 50mm leak (Jet Fire) - Je 1D	TOWNGAS TOWNGAS		34.9994	83.7527 Parameter value	Parameter value	Parameter value		16.0767 n/a	n/a		617.507 n/a	n/a		13.8626 n/a			14.1791 n/a	n/a		2.21415 n/a	n/	(a (-
Study\Underground Pip 50mm leak (Jet Fire) - Je 4D Study\Underground Pip 50mm leak (Jet Fire) - Je 7.5D	TOWNGAS		26.9563 23.4297	118.01 Parameter value 134.011 Parameter value	Parameter value Parameter value	Parameter value Parameter value		28.8752 n/a 33.2363	n/a 15.1648 n/a		1707.98 n/a 2152.44	n/a 202.899 n/a		23.4835 n/a 25.2054	n/a 8.25469 n/a		23.1511 n/a 27.1823	n/a 7.82401 n/a		5.39167 n/a 8.03087	n/ 6.9101 n/	
Study/Underground Pip 50mm leak (Jet Fire) - Je 3E	TOWNGAS		29.2585	106.66 Parameter value	Parameter value	Parameter value		25.4848 n/a	n/a		1395.05 n/a	n/a		21.2373 n/a			20.9094 n/a	n/a		4.24751 n/a	n/	
Study\Underground Pip 50mm leak (Jet Fire) - Je 1F Study\Underground Pip 100mm leak (Jet Fire) - J 1D	TOWNGAS TOWNGAS		34.9994 63.7365	83.7527 Parameter value 98.977 Parameter value	Parameter value Parameter value	Parameter value Parameter value		16.0767 n/a 36.5398 n/a	n/a n/a		617.507 n/a 3501.78 n/a	n/a n/a		13.8626 n/a 33.2722 n/a	n/a		14.1791 n/a 33.501 n/a	n/a n/a		2.21415 n/a 3.2676 n/a	n/ n/	/a
Study\Underground Pip 100mm leak (Jet Fire) - 1 4D Study\Underground Pip 100mm leak (Jet Fire) - 1 7.5D	TOWNGAS TOWNGAS		49.0894 42.6672	139.373 Parameter value 158.345 Parameter value	Parameter value Parameter value	Parameter value Parameter value		56.4911 63.6415	12.1432 n/a 29.9985 n/a		7166.51 8591.63	139.825 n/a 966.517 n/a		48.1044 51.0444	5.24659 n/a 17.5617 n/a		47.4213 53.5769	8.48315 n/a 17.5184 n/a		8.38667 12.5971	6.82764 n/ 12.4369 n/	
Study\Underground Pip 100mm leak (Jet Fire) - 1 3E	TOWNGAS		53.2818	125.984 Parameter value	Parameter value	Parameter value		51.1878 n/a	n/a		6160.53 n/a	n/a		44.5541 n/a	n/a		44.013 n/a	n/a		6.63376 n/a	n/	a
Study\Underground Pip 100mm leak (Jet Fire) - J 1F Study\Underground Pip 10mm leak (Jet Fire) - Je 1D	TOWNGAS TOWNGAS		63.7365 10.8775	98.977 Parameter value 37.413 Parameter value	Parameter value Parameter value	Parameter value Parameter value		36.5398 n/a 8.98343 n/a	n/a n/a		3501.78 n/a 34.744 n/a	n/a n/a		33.2722 n/a 3.62835 n/a			33.501 n/a 3.04804 n/a	n/a n/a		3.2676 n/a 5.35508 n/a	n/- n/-	
Study\Underground Pip 10mm leak (Jet Fire) - Je 4D	TOWNGAS		8.37781	53.0249 Parameter value	Parameter value	Parameter value		9.40533 n/a	n/a		74.6361 n/a	n/a		4.49748 n/a	n/a		5.28238 n/a	n/a		4.90785 n/a	n/	a
Study\Underground Pip 10mm leak (Jet Fire) - Je 7.5D Study\Underground Pip 10mm leak (Jet Fire) - Je 3E	TOWNGAS TOWNGAS		7.28177 9.09331	60.5274 Parameter value 47.8138 Parameter value	Parameter value Parameter value	Parameter value Parameter value		10.1523 9.50918 n/a	6.86577 n/a n/a		94.8593 66.1422 n/a	20.8355 n/a n/a		5.09756 4.40396 n/a			5.92335 4.78063 n/a	2.19567 n/a n/a		5.05472 5.10522 n/a	3.84521 n/ n/	a
Study\Underground Pip 10mm leak (Jet Fire) - Je 1F Study\Underground Pip 25mm leak (Jet Fire) - Je 1D	TOWNGAS TOWNGAS		10.8775 24.3526	37.413 Parameter value 45.7893 Parameter value	Parameter value Parameter value	Parameter value Parameter value		8.98343 n/a 22.0398 n/a	n/a n/a		34.744 n/a 273.197 n/a	n/a n/a		3.62835 n/a 9.56301 n/a			3.04804 n/a 9.09352 n/a	n/a		5.35508 n/a 12.4768 n/a	n/	
Study\Underground Pip 25mm leak (Jet Fire) - Je 4D	TOWNGAS		18.7562	64.9432 Parameter value	Parameter value	Parameter value		21.8702	n/a 7.76109 n/a		437.87	n/a 4.02822 n/a		10.6312	2.12342 n/a		13.1103	n/a 0.603847 n/a		11.239	5.63767 n/	'a
Study\Underground Pip 25mm leak (Jet Fire) - Je 7.5D Study\Underground Pip 25mm leak (Jet Fire) - Je 3E	TOWNGAS TOWNGAS		16.3024 20.358	74.034 Parameter value 58.5689 Parameter value	Parameter value Parameter value	Parameter value Parameter value		22.7003 22.2446 n/a	14.8253 n/a n/a		517.197 403.033 n/a	99.0965 n/a n/a		11.5046 10.5346 n/a	5.88553 n/a n/a		14.3098 12.1779 n/a	5.35948 n/a n/a		11.1957 11.71 n/a	8.93979 n/	
Study\Underground Pip 25mm leak (Jet Fire) - Je 1F	TOWNGAS		24.3526	45.7893 Parameter value	Parameter value	Parameter value		22.0398 n/a	n/a		273.197 n/a	n/a		9.56301 n/a	n/a		9.09352 n/a	n/a		12.4768 n/a	n/	a
Study\Underground Pip 50mm leak (Jet Fire) - Je 1D Study\Underground Pip 50mm leak (Jet Fire) - Je 4D	TOWNGAS TOWNGAS		44.5603 34.32	53.9071 Parameter value 76.4391 Parameter value	Parameter value Parameter value	Parameter value Parameter value		42.8257 n/a 41.4607	19.8822 n/a		1198.49 n/a 1673.8	n/a 107.06 n/a		19.2485 n/a 20.4533	n/a 7.52335 n/a		19.8193 n/a 26.049	n/a 4.52965 n/a		23.5772 n/a 21.0074	n/ 12.3589 n/	/a
Study\Underground Pip 50mm leak (Jet Fire) - Je 7.5D Study\Underground Pip 50mm leak (Jet Fire) - Je 3E	TOWNGAS TOWNGAS		29.8301	87.0655 Parameter value 68.9507 Parameter value	Parameter value	Parameter value		42.1607 42.3143 n/a	27.0695 n/a		1914.93 1572.18 n/a	423.947 n/a		21.8011 20.3584 n/a	12.674 n/a		27.9592 24.5816 n/a	10.6475 n/a		20.3595	14.3954 n/	
Study\Underground Pip 50mm leak (Jet Fire) - Je 1F	TOWNGAS		37.2511 44.5603	53.9071 Parameter value	Parameter value Parameter value	Parameter value Parameter value		42.8257 n/a	n/a n/a		1198.49 n/a	n/a n/a		19.2485 n/a			19.8193 n/a	n/a n/a		21.9559 n/a 23.5772 n/a	n/ n/	
Study\Underground Pip 100mm leak (Jet Fire) - 1 D Study\Underground Pip 100mm leak (Jet Fire) - 1 4D	TOWNGAS TOWNGAS		81.1461 62.4982	63.9429 Parameter value 90.5888 Parameter value	Parameter value Parameter value	Parameter value Parameter value		82.6538 n/a 78.642	n/a 42.3067 n/a		5029.85 n/a 6471.72	n/a 720.938 n/a		38.184 n/a 39.913	n/a 17.8855 n/a		41.9299 n/a 51.6125	n/a 12.8306 n/a		44.4698 n/a 38.7289	n/ 24.4213 n/	
Study\Underground Pip 100mm leak (Jet Fire) - : 7.5D	TOWNGAS		54.3218	103.154 Parameter value	Parameter value	Parameter value		78.7259	50.1323 n/a		7741.64	1651.04 n/a		44.7308	24.0283 n/a		55.0904	21.8718 n/a		33.9951	26.104 n/	/a
Study\Underground Pip 100mm leak (Jet Fire) - ; 3E Study\Underground Pip 100mm leak (Jet Fire) - ; 1F	TOWNGAS TOWNGAS		67.8358 81.1461	81.7367 Parameter value 63.9429 Parameter value	Parameter value Parameter value	Parameter value Parameter value		80.3609 82.6538 n/a	31.348 n/a n/a		6101.1 5029.85 n/a	167.198 n/a n/a		39.4161 38.184 n/a	10.2675 n/a n/a		49.2702 41.9299 n/a	5.18343 n/a n/a		40.9448 44.4698 n/a	21.0806 n/ n/	

Scenario Weather Material Height of Flame kength (m) Flame ensiste Jet for coduction Jet for coduction Dictance Elipse area at Elipse hards. Elipse hards.

Path

Path	Scenario	Weather	Material	Height of interest (coming from parameters) (m)	Actual flammable mass (kg)	Fireball diameter (m)	Flame emissive Fireball radia power (kW/m2) intensity leve			Distance downwind to intensity level 1 (4 kW/m2) (m)	Distance downwind to intensity level 2 (12.5 kW/m2)	Distance downwind to intensity level 3 (37.5 kW/m2)	Ellipse half- length to intensity level 1 (4 kW/m2) (m)	Ellipse half- length to intensity level 2 (12.5 kW/m2)	Ellipse half- length to intensity level 3 (37.5 kW/m2)	Ellipse half-width to intensity level 1 (4 kW/m2) (m)	Ellipse half-width to intensity level 2 (12.5 kW/m2) (m)	Ellipse half-width to intensity level 3 (37.5 kW/m2) (m)	Ellipse centre downwind distance to intensity level 1	Ellipse centre downwind distance to intensity level 2	Ellipse centre downwind distance to intensity level 3
											(m)	(m)		(m)	(m)				(4 kW/m2) (m)	(12.5 kW/m2)	(37.5 kW/m2)
tudy\Underground Pip	20.72 kg/s Release Rate 1	D	CARBON MONOXIDE	0	26403	172.708	36.2276 Parameter value	Parameter value	Parameter value	198.832	95.8477 n/a		198.832	95.8477 n/		198.832	95.8477 n/		0	0 1	/a
tudy\Underground Pip :	20.72 kg/s Release Rate 4	D	CARBON MONOXIDE	0	26403	172.708	36.2276 Parameter value	Parameter value	Parameter value	198.832	95.8477 n/a		198.832	95.8477 n/	a	198.832	95.8477 n/	2	0	0 r	/a
tudy\Underground Pip :	20.72 kg/s Release Rate 7	.5D	CARBON MONOXIDE	0	26403	172.708	36.2276 Parameter value	Parameter value	Parameter value	198.832	95.8477 n/a		198.832	95.8477 n/	a	198.832	95.8477 n/	2	0	0 r	/a
tudy\Underground Pip	20.72 kg/s Release Rate 3	IE	CARBON MONOXIDE	0	26403	172.708	36.2276 Parameter value	Parameter value	Parameter value	198.832	95.8477 n/a		198.832	95.8477 n/	3	198.832	95.8477 n/	3	0	0 1	/a
tudy\Underground Pip	20.72 kg/s Release Rate 1	F	CARBON MONOXIDE	0	26403	172.708	36.2276 Parameter value	Parameter value	Parameter value	198.832	95.8477 n/a		198.832	95.8477 n/	3	198.832	95.8477 n/	2	0	0 1	/a
tudy\Underground Pip	372.95 kg/s Release rate 1	D	TOWNGAS	0	26403	172.708	103.397 Parameter value	Parameter value	Parameter value	341.169	189.797	92.004	341.169	189.797	92.004	341.169	189.797	92.004	0	0	0
tudy\Underground Pip	372.95 kg/s Release rate 4	D	TOWNGAS	0	26403	172.708	103.397 Parameter value	Parameter value	Parameter value	341.169	189.797	92.004	341.169	189.797	92.004	341.169	189.797	92.004	0	0	0
tudy\Underground Pip	372.95 kg/s Release rate 7	.5D	TOWNGAS	0	26403	172.708	103.397 Parameter value	Parameter value	Parameter value	341.169	189.797	92.004	341.169	189.797	92.004	341.169	189.797	92.004	0	0	0
tudy\Underground Pip	372.95 kg/s Release rate 3	E	TOWNGAS	0	26403	172.708	103.397 Parameter value	Parameter value	Parameter value	341.169	189.797	92.004	341.169	189.797	92.004	341.169	189.797	92.004	0	0	0
tudy\Underground Pip	372.95 kg/s Release rate 1	F	TOWNGAS	0	26403	172.708	103.397 Parameter value	Parameter value	Parameter value	341.169	189.797	92.004	341.169	189.797	92.004	341.169	189.797	92.004	0	0	0
tudy\Underground Pip	Fireball 1	D	TOWNGAS			128.991	301.341														
tudy\Underground Pip	Fireball 4	D	TOWNGAS			128.991	301.341														
tudy\Underground Pip	Fireball 7	.5D	TOWNGAS			128.991	301.341														
tudy\Underground Pip	Fireball 3	E	TOWNGAS			128.991	301.341														
tudy\Underground Pip	Fireball 1	F	TOWNGAS			128.991	301.341														