



Environmental Agency

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Permit with introductory note

Pollution Prevention and Control Regulations 2013

Gasnor
Gibraltar LNG Storage facility
Mons Calpe Road
Gibraltar
GX11 1AA

Permit number PPC 005

Gibraltar LNG Storage facility

Permit number PPC 005

Introductory note

This introductory note does not form a part of the permit

The main features of the permit are as follows.

This is a small-scale onshore Liquefied Natural Gas (LNG) receiving and regasification terminal (the LNG Storage Facility), which will supply natural gas to the new North Mole Power Station. The facility is located on the North Mole Reclamation Area. The site is approximately 0.01km². The main access is located to the south and the gate house is shared with the Power Station, who manage the gate house.

LNG will be offloaded from a ship and stored in five horizontal storage tanks of 1,000m³ capacity. They will be double-walled and of stainless steel construction for protection and insulation. The tanks will be positioned side-by-side at a spacing of 3m in a bunded area surrounded by a 0.3m bund wall. Five emergency vent stacks of a height of approximately 13m above ground level, and will be installed between the tanks.

The loading line from the ship to the tanks is purged with nitrogen prior to disconnection of the loading arm from the ship. The only operational vent will be the purging vent to this loading line, which will vent nitrogen and residual methane.

Stored LNG will be pumped to the LNG vaporizers. The use of waste heat from the power station avoids the need to use seawater to provide heat to vaporize the LNG so there are no discharges to the environment during normal operations. The facility provides the vaporized natural gas to the Power Station via a pipeline to the southeast of the site, which is contained within the LNG Storage Facility site area up to the connection with the Power Station. There is an office building and storage container for priority parts at the south east corner.

The LNG facility is not an activity listed in Schedule 1 of the Pollution Prevention and Control Regulations 2013, however is defined as a directly associated activity to the Power Station as it provides the gas to operate the Power Station. As the LNG facility is operated by a separate company to the Power Station, it requires a separate permit issued to the operator of the LNG facility.

The facility will also operate under Control of Major Accident Hazards (COMAH) Regulations. The status log of the permit sets out the permitting history, including any changes to the permit reference number.

Status log of the permit		
Description	Date	Comments
Application EPR/MP3338JL/A001	Duly made 21/11/18	Application for Liquefied Natural Gas receiving and regasification terminal.
Additional information received	13/03/18	Response to email questions, including details of vents, drainage points, handover point to Power plant operator, description of recovered heat use for vaporization.
Additional information received	11/04/18	Response to email questions, including details of tank venting and water / glycol system risk assessment.
Permit determined PPC 005	20/07/18	Permit issued to Gasnor.

Other installation permits relating to this installation		
Operator	Permit number	Date of issue
Bouygues Energies & Services	PPC 004	27/06/18

End of introductory note

Permit

Pollution Prevention and Control Regulations 2013

Permit number

PPC 005

The Environmental Agency hereby authorises, under regulation 14 of the Pollution Prevention and Control

Regulations 2013

Gasnor (“the operator”),
whose registered office is

Mons Calpe Road

Gibraltar

GX11 1AA

Business Licence Number BL 160487

to operate part of an installation at

Gibraltar LNG Storage facility

Mons Calpe Road

Gibraltar

GX11 1AA

to the extent authorised by and subject to the conditions of this permit.

Name	Date
Glen Banda	24/07/2018

Authorised on behalf of the Gibraltar Environmental Agency

Conditions

1 Management

1.1 General management

1.1.1 The operator shall manage and operate the activities:

- (a) in accordance with a written management system that identifies and minimises risks of pollution, including those arising from operations, maintenance, accidents, incidents, non-conformances, closure and those drawn to the attention of the operator as a result of complaints; and
- (b) using sufficient competent persons and resources.

1.1.2 Records demonstrating compliance with condition 1.1.1 shall be maintained.

1.1.3 Any person having duties that are or may be affected by the matters set out in this permit shall have convenient access to a copy of it kept at or near the place where those duties are carried out.

1.2 Energy efficiency

1.2.1 The operator shall:

- (a) take appropriate measures to ensure that energy is used efficiently in the activities;
- (b) review and record at least every four years whether there are suitable opportunities to improve the energy efficiency of the activities; and
- (c) take any further appropriate measures identified by a review.

1.3 Efficient use of raw materials

1.3.1 The operator shall:

- (a) take appropriate measures to ensure that raw materials and water are used efficiently in the activities;
- (b) maintain records of raw materials and water used in the activities;
- (c) review and record at least every four years whether there are suitable alternative materials that could reduce environmental impact or opportunities to improve the efficiency of raw material and water use; and
- (d) take any further appropriate measures identified by a review.

1.4 Avoidance, recovery and disposal of wastes produced by the activities

1.4.1 The operator shall take appropriate measures to ensure that:

- (a) the waste hierarchy referred to in Article 4 of the Waste Framework Directive is applied to the generation of waste by the activities; and
- (b) any waste generated by the activities is treated in accordance with the waste hierarchy referred to in Article 4 of the Waste Framework Directive; and
- (c) where disposal is necessary, this is undertaken in a manner which minimises its impact on the environment.

1.4.2 The operator shall review and record at least every four years whether changes to those measures should be made and take any further appropriate measures identified by a review.

1.5 Multiple operator installations

1.5.1 Where the operator notifies the Environmental Agency under condition 4.3.1 (a) or 4.3.1 (c), the operator shall also notify without delay the other operator of the installation of the same information.

2 Operations

2.1 Permitted activities

2.1.1 The operator is only authorised to carry out the activities specified in schedule 1 table S1.1 (the “activities”).

2.2 The site

2.2.1 The activities shall not extend beyond the site, being the land shown edged in green on the site plan at schedule 7 to this permit, which is within the area edged in red on the site plan that represents the extent of the installation covered by this permit and that of the other operator of the installation.

2.3 Operating techniques

2.3.1 The activities shall, subject to the conditions of this permit, be operated using the techniques and in the manner described in the documentation specified in schedule 1, table S1.2, unless otherwise agreed in writing by the Environmental Agency.

2.3.2 If notified by the Environmental Agency that the activities are giving rise to pollution, the operator shall submit to the Environmental Agency for approval within the period specified, a revision of any plan or other documentation (“plan”) specified in schedule 1, table S1.2 or otherwise required under this permit which identifies and minimises the risks of pollution relevant to that plan, and shall implement the approved revised plan in place of the original from the date of approval, unless otherwise agreed in writing by the Environmental Agency.

- 2.3.3 Any raw materials or fuels listed in schedule 2 table S2.1 shall conform to the specifications set out in that table.
- 2.3.4 The operator shall ensure that where waste produced by the activities is sent to a relevant waste operation, that operation is provided with the following information, prior to the receipt of the waste:
- (a) the nature of the process producing the waste;
 - (b) the composition of the waste;
 - (c) the handling requirements of the waste;
 - (d) the hazardous property associated with the waste, if applicable; and
 - (e) the waste code of the waste.
- 2.3.5 The operator shall ensure that where waste produced by the activities is sent to a landfill site, it meets the waste acceptance criteria for that landfill.

3 Emissions and monitoring

3.1 Emissions to water, air or land

- 3.1.1 There shall be no point source emissions to water, air or land except from the sources and emission points listed in schedule 3 tables S3.1 and S3.2.
- 3.1.2 The limits given in schedule 3 shall not be exceeded.
- 3.1.3 Periodic monitoring shall be carried out at least once every 5 years for groundwater and 10 years for soil, unless such monitoring is based on a systematic appraisal of the risk of contamination.

3.2 Emissions of substances not controlled by emission limits

- 3.2.1 Emissions of substances not controlled by emission limits (excluding odour) shall not cause pollution. The operator shall not be taken to have breached this condition if appropriate measures, including, but not limited to, those specified in any approved emissions management plan, have been taken to prevent or where that is not practicable, to minimise, those emissions.
- 3.2.2 The operator shall:
- (a) if notified by the Environmental Agency that the activities are giving rise to pollution, submit to the Environmental Agency for approval within the period specified, an emissions management plan which identifies and minimises the risks of pollution from emissions of substances not controlled by emission limits;
 - (b) implement the approved emissions management plan, from the date of approval, unless otherwise agreed in writing by the Environmental Agency.

- 3.2.3 All liquids in containers, whose emission to water or land could cause pollution, shall be provided with secondary containment, unless the operator has used other appropriate measures to prevent or where that is not practicable, to minimise, leakage and spillage from the primary container.

3.3 Odour

- 3.3.1 Emissions from the activities shall be free from odour at levels likely to cause pollution outside the site, as perceived by an authorised officer of the Environmental Agency, unless the operator has used appropriate measures, including, but not limited to, those specified in any approved odour management plan, to prevent or where that is not practicable to minimise the odour.
- 3.3.2 The operator shall:
- (a) if notified by the Environmental Agency that the activities are giving rise to pollution outside the site due to odour, submit to the Environmental Agency for approval within the period specified, an odour management plan which identifies and minimises the risks of pollution from odour;
 - (b) implement the approved odour management plan, from the date of approval, unless otherwise agreed in writing by the Environmental Agency.

3.4 Noise and vibration

- 3.4.1 Emissions from the activities shall be free from noise and vibration at levels likely to cause pollution outside the site, as perceived by an authorised officer of the Environmental Agency, unless the operator has used appropriate measures, including, but not limited to, those specified in any approved noise and vibration management plan to prevent or where that is not practicable to minimise the noise and vibration.
- 3.4.2 The operator shall:
- (a) if notified by the Environmental Agency that the activities are giving rise to pollution outside the site due to noise and vibration, submit to the Environmental Agency for approval within the period specified, a noise and vibration management plan which identifies and minimises the risks of pollution from noise and vibration;
 - (b) implement the approved noise and vibration management plan, from the date of approval, unless otherwise agreed in writing by the Environmental Agency.

3.5 Monitoring

- 3.5.1 The operator shall, unless otherwise agreed in writing by the Environmental Agency, undertake the monitoring specified in the following tables in schedule 3 to this permit:
- (a) point source emissions specified in tables S3.1 and S3.2;
- 3.5.2 The operator shall maintain records of all monitoring required by this permit including records of the taking and analysis of samples, instrument measurements (periodic and continual), calibrations, examinations, tests and surveys and any assessment or evaluation made on the basis of such data.

4 Information

4.1 Records

4.1.1 All records required to be made by this permit shall:

- (a) be legible;
- (b) be made as soon as reasonably practicable;
- (c) if amended, be amended in such a way that the original and any subsequent amendments remain legible, or are capable of retrieval; and
- (d) be retained, unless otherwise agreed in writing by the Environmental Agency, for at least 6 years from the date when the records were made, or in the case of the following records until permit surrender:
 - (i) off-site environmental effects; and
 - (ii) matters which affect the condition of the land and groundwater.

4.1.2 The operator shall keep on site all records, plans and the management system required to be maintained by this permit, unless otherwise agreed in writing by the Environmental Agency.

4.2 Reporting

4.2.1 The operator shall send all reports and notifications required by the permit to the Environmental Agency using the contact details supplied in writing by the Environmental Agency.

4.2.2 A report or reports on the performance of the activities over the previous year shall be submitted to the Environmental Agency by 31 January (or other date agreed in writing by the Environmental Agency) each year. The report(s) shall include as a minimum:

- (a) a review of the results of the monitoring and assessment carried out in accordance with the permit including an interpretive review of that data; and
- (b) the performance parameters set out in schedule 4 table S4.1 using the forms specified in table S4.2 of that schedule.

4.2.3 The operator shall, unless notice under this condition has been served within the preceding four years, submit to the Environmental Agency, within six months of receipt of a written notice, a report assessing whether there are other appropriate measures that could be taken to prevent, or where that is not practicable, to minimise pollution.

4.3 Notifications

4.3.1 In the event:

- (a) that the operation of the activities gives rise to an incident or accident which significantly affects or may significantly affect the environment, the operator must immediately—
 - (i) inform the Environmental Agency,
 - (ii) take the measures necessary to limit the environmental consequences of such an incident or accident, and
 - (iii) take the measures necessary to prevent further possible incidents or accidents;
- (b) of a breach of any permit condition the operator must immediately—
 - (i) inform the Environmental Agency, and
 - (ii) take the measures necessary to ensure that compliance is restored within the shortest possible time;
- (c) of a breach of permit condition which poses an immediate danger to human health or threatens to cause an immediate significant adverse effect on the environment, the operator must immediately suspend the operation of the activities or the relevant part of it until compliance with the permit conditions has been restored.

4.3.2 Any information provided under condition 4.3.1(a)(i), or 4.3.1 (b)(i) shall be confirmed by sending the information listed in schedule 5 to this permit within the time period specified in that schedule.

4.3.3 Where the Environmental Agency has requested in writing that it shall be notified when the operator is to undertake monitoring and/or spot sampling, the operator shall inform the Environmental Agency when the relevant monitoring and/or spot sampling is to take place. The operator shall provide this information to the Environmental Agency at least 14 days before the date the monitoring is to be undertaken.

4.3.4 The Environmental Agency shall be notified within 14 days of the occurrence of the following matters, except where such disclosure is prohibited by Stock Exchange rules:

Where the operator is a registered company:

- (a) any change in the operator's trading name, registered name or registered office address; and
- (b) any steps taken with a view to the operator going into administration, entering into a company voluntary arrangement or being wound up.

Where the operator is a corporate body other than a registered company:

- (a) any change in the operator's name or address; and
- (b) any steps taken with a view to the dissolution of the operator.

In any other case:

- (a) the death of any of the named operators (where the operator consists of more than one named individual);
- (b) any change in the operator's name(s) or address(es); and
- (c) any steps taken with a view to the operator, or any one of them, going into bankruptcy, entering into a composition or arrangement with creditors, or, in the case of them being in a partnership, dissolving the partnership.

- 4.3.5 Where the operator proposes to make a change in the nature or functioning, or an extension of the activities, which may have consequences for the environment and the change is not otherwise the subject of an application for approval under the Regulations or this permit:
- (a) the Environmental Agency shall be notified at least 14 days before making the change; and
 - (b) the notification shall contain a description of the proposed change in operation.
- 4.3.6 The Environmental Agency shall be given at least 14 days' notice before implementation of any part of the site closure plan.

4.4 Interpretation

- 4.4.1 In this permit the expressions listed in schedule 6 shall have the meaning given in that schedule.
- 4.4.2 In this permit references to reports and notifications mean written reports and notifications, except where reference is made to notification being made "immediately" or "without delay", in which case it may be provided by telephone.

Schedule 1 – Operations

Table S1.1 activities			
Activity reference	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity	Limits of specified activity and waste types
	Directly Associated Activity		
AR1	Natural Gas Supply to North Mole Power Station	Storage and vaporisation of Liquefied Natural Gas	Includes receipt, storage and vaporisation of Liquefied Natural Gas, and supply of subsequent Natural Gas to North Mole Power Station

Table S1.2 Operating techniques		
Description	Parts	Date Received
Application	Section B2.5c Non-technical Summary, section B2.3d Management System, Section B2.6 Environmental Risk Assessment, Section B3.3a Operating Techniques, Section B3.3b Emissions Control and Abatement, EIA Sections 3, Project Description. Part B3 of the application form. Technical standards in relation to Best available techniques.	Duly Made 21/11/17
Application EIA	Section 7.6.2 Operational Noise	21/11/17
Additional information	Response to questions 3 to 7 detailing process control.	13/03/18
Additional information	Response to question detailing potential discharge to groundwater and detailing process control	11/04/18

Schedule 2 – Waste types, raw materials and fuels

Table S2.1 Raw materials and fuels	
Raw materials and fuel description	Specification
-	

Schedule 3 – Emissions and monitoring

Table S3.1 Point source emissions to air – emission limits and monitoring requirements						
Emission point ref. & location	Source	Parameter	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
V1 on site plan in schedule 7	Pressure relief vent on Vaporisers	Natural Gas	No limit set	-	-	-
V2 on site plan in schedule 7	Pressure relief vent on Regasification station	Natural Gas	No limit set	-	-	-
V3 on site plan in schedule 7	Over pressurisation vents on LNG storage tanks	Natural Gas	No limit set	-	-	-
V4 on site plan in schedule 7	Loading Line	Natural Gas	No limit set	-	-	-

Table S3.2 Point Source emissions to water (other than sewer) and land – emission limits and monitoring requirements						
Emission point ref. & location	Source	Parameter	Limit (incl. unit)	Reference Period	Monitoring frequency	Monitoring standard or method
W1 on site plan in schedule 7 emission to Sea	Surface rain water	No Parameters set	No limit set	-	-	-

Schedule 4 – Reporting

Parameters, for which reports shall be made, in accordance with conditions of this permit, are listed below.

Table S4.1 Performance parameters		
Parameter	Frequency of assessment	Units
Emergency Vents (V1-3) Operation	Annual	Hours
Purging Vent (V4) Operation	Annual	Hours

Table S4.2 Reporting forms		
Media/parameter	Reporting format	Date of form
Venting	Form Venting 1 or other form as agreed in writing by the Environmental Agency	01/04/18

Schedule 5 – Notification

These pages outline the information that the operator must provide.

Units of measurement used in information supplied under Part A and B requirements shall be appropriate to the circumstances of the emission. Where appropriate, a comparison should be made of actual emissions and authorised emission limits.

If any information is considered commercially confidential, it should be separated from non-confidential information, supplied on a separate sheet and accompanied by an application for commercial confidentiality under the provisions of the EP Regulations.

Part A

Permit Number	
Name of operator	
Location of Facility	
Time and date of the detection	

(a) Notification requirements for any malfunction, breakdown or failure of equipment or techniques, accident, or emission of a substance not controlled by an emission limit which has caused, is causing or may cause significant pollution	
To be notified within 24 hours of detection	
Date and time of the event	
Reference or description of the location of the event	
Description of where any release into the environment took place	
Substances(s) potentially released	
Best estimate of the quantity or rate of release of substances	
Measures taken, or intended to be taken, to stop any emission	
Description of the failure or accident.	

(b) Notification requirements for the breach of a limit	
To be notified within 24 hours of detection unless otherwise specified below	
Emission point reference/ source	
Parameter(s)	
Limit	
Measured value and uncertainty	
Date and time of monitoring	
Measures taken, or intended to be taken, to stop the emission	

Time periods for notification following detection of a breach of a limit	
Parameter	Notification period

(c) Notification requirements for the detection of any significant adverse environmental effect	
To be notified within 24 hours of detection	
Description of where the effect on the environment was detected	
Substances(s) detected	
Concentrations of substances detected	
Date of monitoring/sampling	

Part B – to be submitted as soon as practicable

Any more accurate information on the matters for notification under Part A.	
Measures taken, or intended to be taken, to prevent a recurrence of the incident	
Measures taken, or intended to be taken, to rectify, limit or prevent any pollution of the environment which has been or may be caused by the emission	
The dates of any unauthorised emissions from the facility in the preceding 24 months.	

Name*	
Post	
Signature	
Date	

* authorised to sign on behalf of the operator

Schedule 6 – Interpretation

“accident” means an accident that may result in pollution.

“application” means the application for this permit, together with any additional information supplied by the operator as part of the application

“authorised officer” means any person authorised by the Environmental Agency

“PPC Regulations” means Pollution Prevention and Control Regulations 2013 (LN. 2013/042) and words and expressions used in this permit which are also used in the Regulations have the same meanings as in those Regulations.

“emissions of substances not controlled by emission limits” means emissions of substances to air, water or land from the activities, either from the emission points specified in schedule 3 or from other localised or diffuse sources, which are not controlled by an emission limit.

“groundwater” means all water, which is below the surface of the ground in the saturation zone and in direct contact with the ground or subsoil.

“LNG” means liquefied natural gas

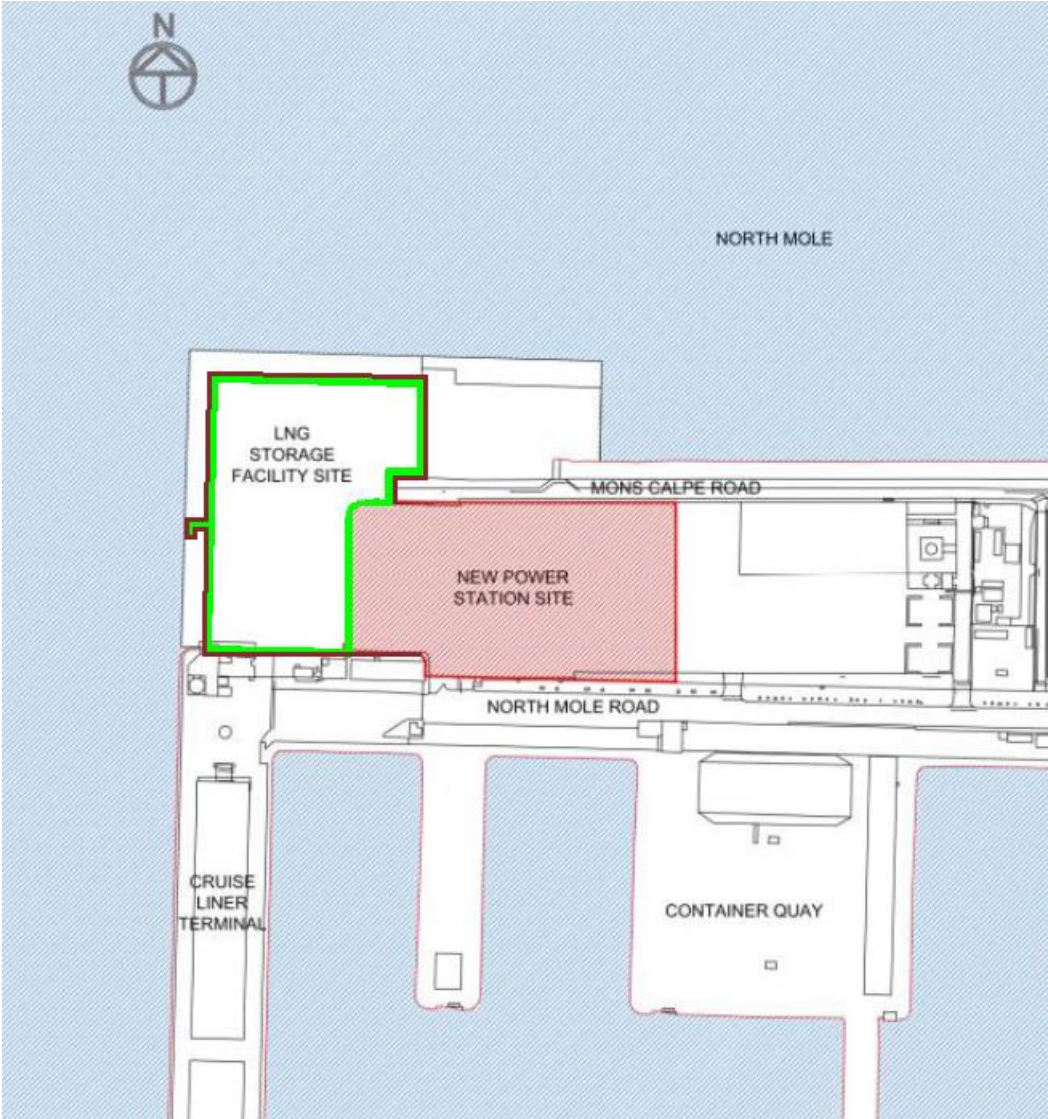
Where a minimum limit is set for any emission parameter, for example pH, reference to exceeding the limit shall mean that the parameter shall not be less than that limit.

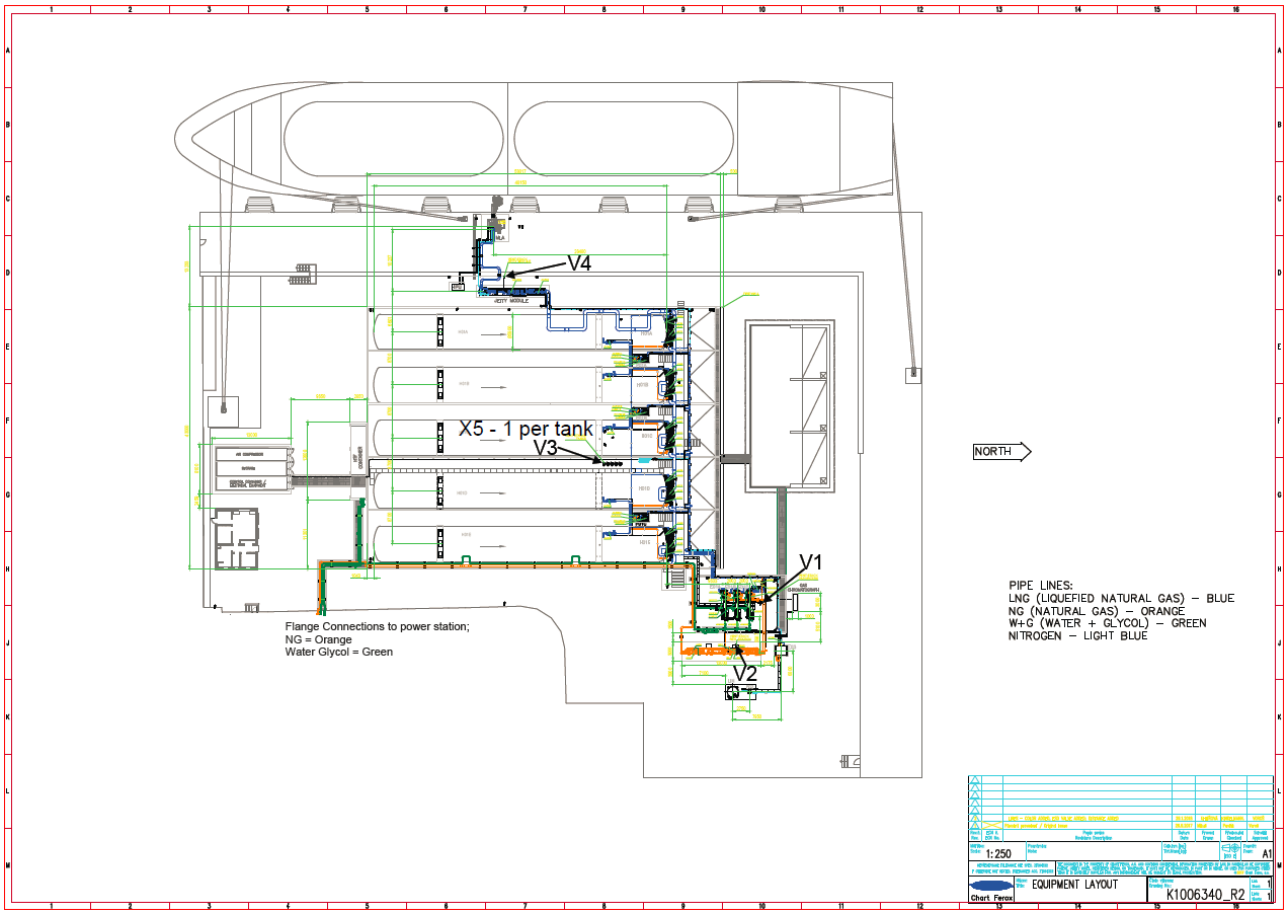
Unless otherwise stated, any references in this permit to concentrations of substances in emissions into air means:

- in relation to emissions from combustion processes, the concentration in dry air at a temperature of 273K, at a pressure of 101.3 kPa and with an oxygen content of 3% dry for liquid and gaseous fuels, 6% dry for solid fuels; and/or
- in relation to emissions from non-combustion sources, the concentration at a temperature of 273K and at a pressure of 101.3 kPa, with no correction for water vapour content.

“year” means calendar year ending 31 December.

Schedule 7 – Site plan





END OF PERMIT

**Permit
Number:**

PPC 005

Operator: Gasnor

Facility: *Gibraltar LNG Storage Facility*

Form Number: *Venting1 / 01/04/18*

Reporting of Venting for the period DD/MM/YYYY to DD/MM/YYYY

Parameter	Total number of vent operations in year	Total hours of venting in year
Emergency Vent, V1, operation		
Emergency Vent, V2, operation		
Emergency Vents, V3, operation		
Purging Vent, V4, operation		

Operator's comments:

Signed

Date.....

(Authorised to sign as representative of Operator)