



**Defence
Infrastructure
Organisation**

**Gas Safety Management Plan
(Section A)**

Paignton ARC ACF SCC

17/04/2025

**Produced to meet the requirements of the Gas Safety
(Installation and Use) Regulations 1998**

Unique Document Reference:
WX59-A-20220218
Issued by DIO TS PGE

Establishment: Paignton ARC ACF SCC

ESTABLISHMENT KEY PERSONALITIES (GAS) CONTACTS

Role	Name	Tel No.	Email
Head of Establishment	Lt Col Oliver Bevan	07802 881277	oliver.bevan144@mod.gov.uk
Establishment's SHEF	WO2 S Barnes AFPA 6 RIFLES	01392 492672	Steve.barnes163@mod.gov.uk
Establishments 4C's Coordinator	David Tribble	07807 023397	David.Tribble478@mod.gov.uk
Senior DIO Estate Representative or Equivalent	Mark Cubitt	07955 280440	wx-est-hd@rfca.mod.uk
Site DIO Estate Representative or Equivalent	Kelvin Walker	07508 130359	wx-est-mgr2@rfca.mod.uk
MMO Site Manager or equivalent	Capt M Saunders PSAO 6 Rifles	01392 492429	Michael.Saunders953@mod.gov.uk
Gas Safety Manager (GSM)	Justin Westcott	07793 222820	Justin.Westcott@vivodefence.com
Gas Responsible Person (GRP)	Wayne Ashford	07483 929760	wayne.ashford1@vivodefence.com

The Content of this Gas Safety Management Plan (GSMP) have been Approved by the Gas Safety Manager:

Signature: *JP Westcott*

Date: 17/04/2025

Authorisation for Implementation

The content and format of this GSMP has been agreed and authorised for implementation by Defence Infrastructure Organisation Technical Services Principal Gas Engineer (DIO TS PGE) and a unique reference number has been generated to support this.

Approved – J Obbard PGE – 18th Feb 2022

The Content of this GSMP have been agreed by the Senior DIO Estate Representative or Equivalent and future works following the findings will be supported:

Signature

M Cubitt

Date: 28/04/2025

The content of this GSMP have been agreed by the Head of Establishment and future works following the findings will be supported

Signature

O.Bevan

Date: 04/06/25

REVIEWS AND AMMENDMENTS

GSMPs are 'living documents' that should be subject to continual review and updating as required. Although the level of attention required will vary considerably depending on the size and complexity of each site, GSMPs should be reviewed at least once per quarter by the GRP, unless otherwise agreed by the PGE. Although it is likely that changes are not required at each review, the date of review and any changes made should be indicated on the tables below. The review of the GSMP will include a site visit to ensure that the site and the content of the GSMP remain valid. The reviews and amendments made will be deleted during the DIO TS three yearly review when the GSMP is re-authorised by the PGE.

Date	Page No.	Amendment
20/10/2021	All	Initial Development
16/05/2022	ii & 1	Updated HoE Details
16/05/2022	2	Updated Gas Emergency Number
16/05/2022	3	Updated Additional Gas Contact details
16/05/2022	3	Updated Gas Emergency Centre Number
16/05/2022	3	Added New Gas Supplier Details
16/05/2022	3	Changed Energy Assets Email and Contact Number
16/05/2022	9	Updated Emergency Gas Contact Number
11/11/2022	8 & Annexes	Added CAD Drawn Gas Line Diagram, Details & Icon
16/02/2023	11	Updated Kitchen gas interlock system
10/05/2023	N/A	No Amendments Required
18/08/2023	N/A	No Amendments Required
22/11/2023	N/A	No Amendments Required
29/02/2024	5,10,11	Updated Description, Updated Plantroom Appliances. Added SSOV Details.
15/05/2024	N/A	No Amendments Required
09/08/2024	ii & 1	Added New HoE Details & Updated Estate Manager Details
18/10/2024		GSM re-authorisation (previously authorised 28/01/2022)
14/11/2024	N/A	No Amendments Required
15/04/2025		Amended all key personalities and changed DNV details to VIVO details

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Date	Reviewed by	Authorised by	Comments
28/01/2022	M Fenwick	N King	Initial Review
16/05/2022	M Fenwick	M Fenwick	Quarterly Review
04/08/2022	M Fenwick	M Fenwick	Quarterly Review
11/11/2022	M Fenwick	M Fenwick	Quarterly Review
16/02/2023	M Fenwick	N King	Annual Review
10/05/2023	M Fenwick	M Fenwick	Quarterly Review
18/08/2023	M Fenwick	M Fenwick	Quarterly Review
22/11/2023	M Fenwick	M Fenwick	Quarterly Review
29/02/2024	M Fenwick	N King	Annual Review
15/05/2024	M Fenwick	M Fenwick	Quarterly Review
09/08/2024	M Fenwick	M Fenwick	Quarterly Review
18/10/2024	Neville King	Neville King	GSM re-authorisation
14/11/2024	M Fenwick	M Fenwick	Quarterly Review
28/01/2025	M Fenwick	M Fenwick	DNV De-Mobilisation Review / Handover
15/04/2025	W Ashford	J Westcott	Initial Quarterly review
17/04/2025	J Westcott	J Westcott	Initial review/approval

FORWARD

MOD, as a gas conveyor within Great Britain, has submitted an Exemplar Gas Safety Case (MOD GSC) to demonstrate compliance with the Gas Safety (Management) Regulations 1996 (GS(M)R). Maintenance Management Organisations (MMO's) are engaged who have the overall contractual responsibility to operate and maintain the gas network assets under their Contract, including the management of the safe flow of gas within the system and the provision of an emergency service. The MOD delegate specific duties to the MMO but accountability for gas safety on each site rests with the Head of Establishment.

Whilst gas downstream of the Emergency Control Valve (ECV) fall outside of the scope of (GS(M)R) similar criteria as those referred to above must be accommodated within an appropriate management system. The specific criteria required to adequately manage gas infrastructure downstream of the ECV are described in the Gas Safety (Installation and Use) Regulations 1998 (GS(IU)R).

The MOD GSC considers all parts of the MOD estates gas supply system that forms part of the gas supply network. This includes all parts of the MOD gas network from the Bulk Primary Meter Installation to the individual gas appliances and the safe release of the products of combustion. The MOD GSC considers primarily those matters that relate to the management of the safe flow of gas within the system and the provision of an emergency service for all aspects of the gas system.

Following initial approval of the Gas Safety Management Plans (GSMPs) by the DIO Principal Gas Engineer (PGE), the Gas Safety Manager (GSM) is required to reapprove this GSMP annually. GSMPs must be submitted to DIO PGE every three years for authorisation.

GSMP Section A document contains site specific details of the establishments utilisation infrastructure to assist with measures to ensure compliance with the GS(IU)R for installation pipework and associated components.

GSMP Section B documents contain site specific details and arrangements as a direct annex to the MOD GSC in line with the Gas Safety (Management) Regulations 1996 (GS(M)R).

GSMP Section C document contains site specific details and requirements of the establishment's LPG networks.

Although the legal status of this document applies in the UK only, the MOD apply the same requirements to the management of gas on its overseas estate, in accordance with the currently published Secretary of State's Health and Safety policy statement.

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1 THE DUTY HOLDER AND ESTABLISHMENT LEVEL KEY PERSONALITIES

1.1. Gas Safety Case Duty Holder.

The duty holder for the MOD Gas Safety Case is the Permanent Under Secretary for Defence (PUS). However, day to day responsibility for the preparation and maintenance of the document is delegated to the DIO TS Head of Engineering and Construction, who also has the responsibility for managing the system in accordance with the Safety Case. PUS delegates maintenance responsibility to the Top-Level Budget Holders (TLB's), to manage safety of the gas network. The TLB's utilise MOD Contracts i.e. MMOs who have responsibility for maintaining the gas network on behalf of the MOD.

Name:	Permanent Under Secretary
Address:	Main Building Horse Guards Parade Whitehall London SW1A 2HB

1.2. DIO Technical Services Principal Gas Engineer (PGE).

The PGE assumes the role of Senior Authorising Authority which is a term used within the MOD to recognise the authority of the person responsible for overseeing the appointment of, and auditing Authorising Engineers (AEs). For Gas the AEs are replaced by Gas Safety Managers (GSMs).

Name:	Jeremy Obbard
Address:	DIO HQ Whittington Barracks Lichfield WS14 9TJ
☎:	07748 903260
✉:	Jeremy.obbard100@mod.gov.uk

1.3. Establishment Personalities.

Name of Establishment:	Paignton ARC ACF SCC	
Establishment Address:	Paignton ARC ACF SCC York Road Paignton TQ4 5NJ	
Head of Establishment (HoE) (This is the most senior MOD person identified, by the chain of command, as responsible for the establishment. The HoE holds accountability for ensuring site compliance with the requirements of GSCMR and the MOD GSC, including this GSMP.)	Name:	Lt Col Oliver Bevan 6 RIFLES
	Position:	CO
	Organisation:	MOD
	Address:	BN HQ 6 RIFLES Block 7 Wyvern Bks Exeter Devon EX2 6AR
	☎:	07802 881277
	✉:	oliver.bevan144@mod.gov.uk

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Senior DIO representative or equivalent (This may be the SEFM, but will vary depending on the contract this establishment falls under)	Name: Mark Cubitt Position: Head of Estates Organisation: Wessex Reserve Forces' & Cadets' Association Address: Mount House Mount Street Taunton Somerset TA1 3QE ☎: 07955 280440 ✉: wx-est-hd@rfca.mod.uk
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1.4. Maintenance Management Organisation (MMO).






The MMO for this establishment is: VIVO	
Gas Emergency Helpdesk (Typically, MMO Helpdesk) (24 Hours) Note: Please do not contact the general public National Gas Emergency Service for suspected gas escapes on RFCA infrastructure.	Organisation: VIVO Helpdesk Helpdesk 25 Goodlass Road Hunts Cross Liverpool L24 9HJ ☎: 0800 030 9320
Gas Safety Manager (GSM)	Name: Justin Westcott Organisation: VIVO Address: Bld 003 CTCRM Lympstone Nr Exmouth Devon EX8 5AR ☎: 07793 222820 ✉: Justin.Westcott@vivodefence.com
Gas Responsible Person (GRP)	Name: Wayne Ashford Organisation: VIVO Address: Building 147 Defence Munitions Ernesettle Lane Plymouth Devon PL5 2TX ☎: 07483 929760 ✉: Wayne.ashford1@vivodefence.com

1.5. Additional Gas Contacts.

Gas Supplier	Organisation: Total Energies Gas & Power Address: 55-57 High Street Redhill Surrey RH1 1RX ☎: 01737 275 746 ✉: gp.redhill.ccs@totalenergies.com
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LPG Supplier	Organisation: Address:  :  :	Not Applicable, no bulk LPG on site.
Meter Asset Manager (MAM)	Organisation: Address:  :  :	Energy Assets Ltd 6 Almondvale Business Park Almondvale Way Livingston Scotland. EH54 6GA 0800 001 4310 box.ngm.meteringdataenquiries@nationalgrid.com
National Gas Emergency Centre (24 Hours) Note: Please do not contact the general public National Gas Emergency Service for suspected gas escapes on RFCA infrastructure	 :	0800 111 999

2 SITE SPECIFIC DETAILS

2.1 Site Overview.

A brief description of the establishment and its current use. This should include how many separate sites are present and the number of buildings being supplied by gas.

Paignton ARC ACF SCC is a single site establishment with 1 building and this building is supplied with gas direct from the EGDN Network. The gas meter for this building is situated externally on the North side of the building.
On entry into the meter box the gas passes through the EGDN network ECV and feeds a MAM owned and operated gas meter and regulator.
The reserve centre is occupied by HQ Company 6 Rifles, Devon ACF D Company (Paignton Detachment) and the Torbay Sea Cadets.
The main building is used for office space, meeting/conference rooms, stores, catering, drills and a lounge/bar. There is also a Caretakers flat on site which is in use.
Day to Day there are around 10 people on site and there can be up to 100 people on site when there are functions, events or parades.

2.2 Natural Gas.

A brief description of the natural gas installations, including how many MOD networks are present, the number of buildings each MOD network supplies and how many buildings are supplied direct from the EGDN. This should also include any demarcations in place between stakeholders and responsibilities.

Main Building

The main building is fed at 36.8 mbar by a single low pressure natural gas supply from the EGDN network.

This feeds an individual regulated MAM owned meter and regulator which supplies gas to the plant room, Caretakers Flat and the Galley with a total of 8 appliances at 21.4 mbar.

Meter – Elster BK - G25E
S/N – E040 K03066 15 D6
40m³/hr
MPRN – 3801409

The gas meter is located on the North side of the building in a wooden built external meter house. The meter inlet supplied by the EGDN is 2" steel and the meter outlet pipework is 2" steel. After the meter outlet valve there is a 2nd isolation valve and the pipework size increases to 3" on the outlet of the 2nd valve. The pipework then travels directly into the building at the back of the meter house.

Once inside the pipework runs through a corridor at high level and then rises above the ceiling tiles and tees off in 2 directions. One outlet reduces to 1 ½" towards the Galley.

Galley – The supply enters the Galley in 1 ½" steel in the Galley store cupboard to a manual isolation valve. After this there is a tee with a 28mm copper supply running to the opposite end of the Galley and is capped. The 1 ½" steel pipework continues to low level and enters the Galley through the store wall. It then continues through an interlocking Solenoid valve and transitions to 28mm copper and feeds 3 gas catering appliances. (Moffat GT 46 Deep Fat Fryer 25 KW, Falcon G2532 Grill 6.65 KW, Falcon 6 Burner Range with Oven 38.9 KW).

The other tee outlet continues in 3" steel before reducing to 2". This section runs at high level in the roof space towards the plant room. There is another tee section that splits off towards a wall hung external secondary meter. The 2" steel reduces to 1" steel before entering the back of the meter box. The meter outlet is run in 28mm copper and re enters the building through the back of the meter box. This supply runs up to the caretakers flat and reduces to 22mm copper before entering the flat.

Caretakers Flat – The gas pipe enters the flat and runs a 22mm supply to the combi boiler with a 15mm tee off for the Hob.

(1 x Baxi Platinum Combi 28 HE A at 27.4 KW and 1 x New World Hob at 10 KW).

The 2" section continues to the plant room entry point through the ceiling void.

Plant Room – The gas pipe enters in 2" steel and there is a manual isolation valve and interlocking SSOV on entry. The 2" steel continues up to the boiler module rig whereupon it reduces to the rigs 1" steel riser.

(2 x Worcester GB162 V2 at 100 KW each)

The total load on this meter is 317.95 KW, 30.14 m3/hr.

There is a mix of steel and copper pipe within the installation.

2.3 LPG Gas.

A brief description of the LPG installations, including how many compounds are at the establishment, condition and make up of each compound, the number and size (kg) of vessels in each compound, the number of LPG MOD networks, the number of buildings supplied from the LPG MOD networks, how many buildings are supplied direct and not from an LPG MOD network. Details of the LPG pipework after the first stage regulator up to the building(s).

Note: The demarcation agreement between the LPG supplier and the MOD has been agreed and the MOD take responsibility from the outlet of the first stage regulator. The LPG supplier is responsible for the vessel, vessel associated components (excluding any earth bonding) pipework up to and including the first stage regulator.

No LPG on this establishment

2.4 External Installation Pipework.

A brief description of the external installation pipework (above or below ground) on each building. This is from the ECV to where it enters the building(s), the material, diameter, lengths, supports, conditions etc.

There is no external installation pipework.

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2.5 Details of buildings served.

A list of the buildings being supplied by gas via an MOD network, LPG compound or directly from the EGDN and the usage of the gas (catering, hot water, heating, fire training, etc) at the building.

Ser	Building Number	Building description	Supplied by	Gas usage
1	Main Building	Office space, meeting/conference rooms, stores, catering, drill hall and a lounge/bar.	EGDN	Heating, Hot water, Catering

2.6 Additional details of buildings being served.

Any additional detail about a building that may be required or useful in an emergency or requires more details than captured above.

NOTE: This section is to be used to capture the Service Family Accommodation (SFA) properties where it is not practical to fit above.

N/A

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3 METER DETAILS

3.1 Primary Meter Details.

The following table describes the basic arrangement of the primary meter installation(s). (These are the responsibility of the MAM)

NOTE: More detail on the primary meters that supply MOD networks can be seen in the GSMP part B.

Number of primary meter installations:		1 (EGDN Single Supply)							
Meter Name / ID	MPRN	Supplying (MOD network ID or Bldg number)	location	Incoming pressure tier – HP, IP, MP, LP	Outlet pipeline				Max Flow (M ³ hr)
					P tier – HP, IP, MP, LP	Pressure (mbar)	Material	Diameter (mm)	
EGDN Single Supply	3801409	Main Building	External Meter Cupboard – North Side	LP	LP	21.4	Steel	50	40

3.2 Utilisation Meter Details. (meters supplied directly from the MOD gas network)

The following table describes the basic arrangement of the utilisation meter installation(s). (These are the responsibility of the MOD)


Number of utilisation meter installations:		N/A – No MoD Network on Site								
Meter Name / ID	Being supplied from (MOD network ID)	Inlet pipeline				Outlet pipework				Max Flow (M ³ hr)
		P tier – HP, IP, MP, LP	Pressure (mbar)	Material	Diameter (mm)	P tier – HP, IP, MP, LP	Pressure (mbar)	Material	Diameter (mm)	

4 DIAGRAMS AND DRAWINGS

4.1 Line diagrams for building(s) internal gas installation pipework.

This section is to contain line diagrams for building internal installation pipework and associated components. This diagram should be fixed to the building at a practical and accessible location as well as within any associated document centres. It may be embedded as a PDF to this document for online use.

NOTE: Drawings are only required for commercial installations or for installation in commercial settings (non-domestic use). This may mean more installations than listed in IGEM/UP/2 Edition 3 (4.2.14), depending on the installations intended use.

Drawing Number	Building	Comments
WX59-A-A3a	Main Building	Not to Scale Gas Line Drawing
		 WX59-A-A3a.pdf

4.2 Additional drawings.

This section is to contain any additional drawings that may be required or may be of benefit to this GSMP or emergency procedures.

Drawing Number	Building	Comments

5 GAS INCIDENTS

5.1 Site reporting procedures for dealing with gas incidents.

This section is to contain the establishment's site-specific procedure for dealing with reports of gas incidents with regards the external installation pipework, internal installation pipework and equipment. Details of all individuals with responsibilities under this procedure should be included.

Procedure for an incident involving the gas installations on site:

- Call Vivo Helpdesk Team on **0800 030 9320** open 24 hours per day.
- The Helpdesk will in turn call National Grid **0800 111 999** to attend and make safe a gas incident.
- The Vivo Gas Responsible Person shall be informed immediately by the site personnel.

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6 GAS EQUIPMENT

6.1 Equipment List.

This section is to include details of all the gas equipment being used at the establishment.

Building number	Equipment location	Equipment type (make, model)	Serial Number	Appliance kW rating	Flue classification	Comments
Main Building	Plant Room	Worcester GB162 V2	3290-238-000012-7736701037	100	Open Flue	
Main Building	Plant Room	Worcester GB162 V2	3290-238-000012-7736701037	100	Open Flue	
Main Building	Caretakers Flat	Baxi Platinum Combi 28 HE A	PWB184620092EC	27.4	Room Sealed	
Main Building	Caretakers Flat	New World Hob	Not Stated	10 (Assumed)	Flueless	
Main Building	Caretakers Flat	New World 200504055 Built in Oven	3109625	10 (Assumed)	Flueless	
Main Building	Galley	Moffat GT 46 Deep Fat Fryer	303505	25	Flueless – Canopy Extract	
Main Building	Galley	Falcon G2532 Grill	F366047	6.65	Flueless – Canopy Extract	
Main Building	Galley	Falcon G3101 6 Burner Range with Oven	F548054	38.9	Flueless – Canopy Extract	

6.2 Additional equipment information.

This section is to contain any additional equipment information that may be required or may be of benefit to this GSMP or emergency procedures.

Safety shut off valves are required to be frequently checked every year in accordance with CRFCA hard FM task list:
160418-GL-EST-Task2Ser9-GasApplianceandPipework
A list of the checks is captured below.

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160418-GL-EST-Task
2Ser09-GasAppliance

Kitchen Canopy Gas Interlock installed in main building Kitchen, with SSOV and emergency stop button by exit door.



PAIGNTON TA
JB50308 55452 PMV_i

In-line solenoid observed in Main Building plantroom, believed to be fire alarm linked, unable to validate and test.

7 ANNEXES

Gas Line Drawing

