

# Gas Safety Management Plan (Section A)

**Bath ARC RMR AFCO ACF ATC** 

18/03/2025

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

**ESTABLISHMENT KEY PERSONALITIES (GAS) CONTACTS** 

ESTABLISHMENT KET PERSONALITIES (GAS) CONTACTS				
Role	Name	Tel No.	Email	
Head of	Lt. Col. Lee	07846 820884	Lee.crompton575@mod.gov.uk	
Establishment	Crompton			
Establishment's	Capt J Ledgister	01225 492302	john.ledgister803@mod.gov.uk	
SHEF				
Establishments	Mark Lynn	01225 492302	mark.lynn553@mod.gov.uk	
4C's Coordinator	(Caretaker)	Ext 6		
Senior DIO Estate	Mark Cubitt	07955 280440	wx-est-hd@rfca.mod.uk	
Representative or				
Equivalent				
Site DIO Estate	Rory Simpson	01823 217941	wx-est-mgr2@rfca.mod.uk	
Representative or	(Estates			
Equivalent	Manager)	07957 436139		
MMO Site Manager or	Paul Wakeford	07356 101565	paul.wakeford@vivodefence.com	
equivalent				
Gas Safety Manager	Justin Westcott	07793 222820	justin.westcott@vivodefence.com	
(GSM)				
Gas Responsible	Ian Bradley	07793 222771	ian.bradley1@vivodefence.com	
Person (GRP)				

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

Signature: JP Westcott	Date: 18/03/2025
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#### **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 – 15 January 2024

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:	23/04/2025

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

Signature: L Crompton	Date23 Apr 25	

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#### **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	Amendment
00/44/0000	No.	
30/11/2022	All	Initial development
25/02/2023	N/A	No amendment or update required.
25/05/2023	N/A	No amendment or update required.
25/08/2023	N/A	No amendment or update required.
24/11/2023	N/A	No amendment or update required.
23/02/2024	N/A	No amendment or update required.
10/05/2024	N/A	No amendment or update required.
27/09/2024	ii & 2	Updated Head of Estates details
17/10/2024		GSM re-authorisation (previously authorised 31/03/2023)
11/12/2024	10 (6.1)	Updated appliance list to show replacement water heater.
17/02/2025	Various	Updates due to VIVO taking over the Gas Management Contract

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Date	Reviewed by	Authorised by	Comments
30/11/2022	D. Cooper	Neville King	Initial development
25/02/2023	D. Cooper		Q1 review
25/05/2023	D. Cooper		Q2 review
25/08/2023	D. Cooper		Q3 review
24/11/2023	D. Cooper		Annual review
23/02/2024	D. Cooper		Q1 review
10/05/2024	D. Cooper		Q2 review
27/09/2024	D. Cooper		Q3 review
17/10/2024	Neville King	Neville King	GSM re-authorisation
11/12/2024	D. Cooper		DNV demobilisation review
			(site visit)
17/02/2025	lan Bradley	J Westcott	Initial Review
18/03/2025	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

**2**: 07748 903260

1.3. Establishment Personalities.			
Name of Establishment:	Bath ARC RMR AFCO ACF ATC		
Establishment Address:	Upper Bristol Road, Bath, BA1 3AE.		
Head of Establishment		Lt Col Lee Crompton	
(HoE)	1	Head of Establishment MoD, British Army	
(This is the most senior	Address:	·	
MOD person identified, by	7 tadi 655.	Regimental Headquarters	
the chain of command, as		Horfield Army Reserve Centre	
responsible for the		Dorian Road	
establishment. The HoE		Bristol	
holds accountability for		BS7 0XL	
ensuring site compliance with the requirements of	<b>≘</b> : ⊠:	07846 820884 Lee.crompton575@mod.gov.uk	
GSMR and the MOD GSC, including this GSMP.)	Δ.	Lee.cromptono/o(@mod.gov.dk	

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

1.4. Maintenance Manage	ation (MMO).	
The MMO for this establishment is:		VIVO
Gas Emergency Helpdesk (24 Hours)	Organisation:	VIVO Helpdesk 25 Goodlass Road Hunts Cross Liverpool L24 9HJ 0800 030 9320 helpdesk@vivodefence.com
Gas Safety Manager (GSM)	Name: Organisation: Address:	Justin Westcott VIVO Building 002, CTCRM Lympstone Nr Exmouth Devon, EX8 5AR 07793 222820 justin.westcott@vivodefence.com
Gas Responsible Person (GRP)	Name: Organisation: Address:	lan Bradley VIVO Trenchard Lines, Upavon, Pewsey, Wiltshire. SN9 6BE 07793 222771 lan.bradley1@vivodefence.com

1.5. Additional Gas Contacts.		
External Gas Distribution	Organisation:	Wales & West Utilities Ltd
Network (EGDN)	Address:	Wales & West House
		Spooner Close
		Celtic Springs
		Coedkernew
	☎:	Newport, NP10 8FZ
	⊠:	0800 912 2999
		Steve.harding@wwutilities.co.uk

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Gas Supplier	Organisation:	TotalEnergies Gas & Power
''	Address:	
	7 (441 000)	Redhill,
		· ·
		Surrey,
		RH1 1RX.
	₽:	01737 275 746
	⊠:	gp.redhill.ccs@totalenergies.com
LPG Supplier	Organisation:	Not applicable - no bulk LPG on site.
	Address:	
	<b>≘</b> :	
	⊠:	
Meter Asset Manager	Organisation:	Energy Assets Ltd
(MAM)	Address:	6 Almondvale Business Park,
		Almondvale Way,
		Livingston
		EH54 6GA
	<b>≘</b> :	
	⊠:	info@energyassetsnetworks.co.uk
National Gas Emergency	☎:	0800 111 999
Centre (24 Hours)		
\ /	l	

#### 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.

Bath ARC has two buildings on site, plus a Caretaker's flat within the main building which are supplied with gas from the low-pressure EGDN. There are individual EGDN supplies on this site for two gas meters.

Building (1) is used for Office Space, Kitchen, Drill Hall a plantroom and Caretaker's flat.

Building (2) is used as a workshop/garage.

During the working week there is up to 70 members of staff on site.

The Army Cadets attend on Mondays from 19:00 until 21:00 hrs for parade.

#### 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.

The gas supplied to Bath ARC is fed from an EGDN single feed low pressure network which supplies three primary meters (one disconnected) all of which are in a plant room on the western side of the building.

Main Building BFPM

Feeds the main building and workshop from the MoD Low pressure installation. The gas is used for catering, heating and hot water.

Primary Meter 1: BK-G40 (65m3/hr)

Location: Meter Room

Serial No: M065 K11550 14 D6

MPRN: 3479902 Pressure Tier: LP

The MoD is responsible from the meter outlet valve of the meter (demarcation point) up to and including the appliances in the main building and workshop.

**Plant Room** - From the meter 3" steel enters the plant room that has an AECV and drop valve at low level before rising to high level. At high level the pipework reduces to 2" steel to feed two 150kw boilers and at another tee from the 3" installation pipework it reduces to  $1\frac{1}{4}$ " steel to supply a 58.3 kw gas water heater.

**Kitchen** - From the meter a 1½" steel installation pipe travels within the building to the kitchen AECV and then reduces to 28mm copper at a solenoid valve before continuing in copper to supply a 47kw range, 30kw Bullseye range and 22kw fryer. The fryer disconnected by supply chain contractor (Boden) on 30/9/2024.

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**Workshop** - From the BFPM a 1½" steel installation pipe from high level exits the building travels along a boundary wall before dropping to low level to enter the workshop.

On entering the workshop there is a 1½" AECV and purge valve. After the AECV the installation pipework rises to high level to feed a 54kw air heater.

#### Caretaker's Meter

The meter for the caretaker's flat is fed from an EGDN low pressure network (21mb) from the meter outlet a 28mm copper pipe travels within the main building to the caretakers flat, before transitioning to 22mm copper under the 30kw boiler.

Primary Meter 2: BK-G4 (6m3/hr)

**Location:** Meter Room

Serial No: G4 K0124792 01 01

MPRN: 4224401603 Pressure Tier: LP

The MoD is responsible from the meter outlet valve of both meters (demarcation point) up to and including the appliances in the two buildings.

Meter 3 does not have a gas supply connected with the ECV being capped.

The meter is fed from an EGDN low pressure network (21mb)

Model: E6S - Serial number SOO31262 98 11 - MPRN: TBC

This meter previously fed Harding House, which is now outside of the wire and not used by the MoD and is now known as Sterling House. The meter has been disconnected at its inlet and is not required.

#### 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 installation on this site.

#### 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.

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11/4" Steel pipe exits the plantroom and travels for 33m externally at high level to feed a heater in the workshop. The pipe is correctly supported is in good condition but has insufficient gas indicator tape on it.

#### 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	Offices, kitchen and	EGDN	Heating, hot water and
		workshop		catering.
2	Caretaker's flat	Accommodation	EGDN	Heating and hot water.
3	3	Offices	EGDN	Disconnected and
				Capped at ECV
4				
5				

#### 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.

meter install	ations:	2						
Supplying (MOD		location	Incoming	Outlet pipeline				Max Flow
IVII TATA	network ID or Building number)	iocation	– HP, IP, MP, LP	P tier – HP, IP, MP, LP	Pressure (mbar)	Material	Diameter (mm)	(M <sup>3</sup> hr)
3479902	Main building	Boiler room	LP	LP	NOM	Steel	80	65
4224401603	Caretaker's flat	Boiler room	LP	LP	NOM	Copper	22	6
TBC	3	Boiler room	LP	LP	NOM	Copper	22	6
	MPRN 3479902 4224401603	MPRN (MOD network ID or Building number)  3479902 Main building  4224401603 Caretaker's flat	MPRN Supplying (MOD network ID or Building number)  3479902 Main Boiler room building 4224401603 Caretaker's flat  Supplying location Boiler room Boiler room	MPRN (MOD network ID or Building number)  3479902 Main building 4224401603 Caretaker's flat  Supplying (MOD location pressure tier – HP, IP, MP, LP  Boiler room LP  Boiler room LP	MPRN  MPRN  (MOD  network ID or  Building  number)  Main  building  4224401603  Caretaker's  flat  Supplying  (MOD  network ID or  Building  location  location  P tier – HP,  IP, MP, LP  P tier – HP,  IP, MP, LP  P tier – HP,  IP, MP, LP  LP  LP	Supplying (MOD network ID or Building number)   Boiler room building   Boiler room   LP   LP   NOM	Supplying (MOD network ID or Building number)   Boiler room   LP   LP   NOM   Copper	Supplying (MOD network ID or Building number)   Boiler room   LP   LP   NOM   Copper   22   Supplying (MOD network ID or Building number)   Supplying number   P tier – HP, IP, MP, LP   Pressure (mbar)   Material (mm)   Diameter (mm)   Steel   80   Supplying number   P tier – HP, IP, MP, LP   Pressure (mbar)   Supplying number   Supplying nu

# 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

		Inlet pipeline			Outlet pipework					
Meter Name / ID	Being supplied from (MOD network ID)	P tier – HP, IP, MP, LP	Pressure (mbar)	Material	Diameter (mm)	P tier – HP, IP, MP, LP	Pressure (mbar)	Material	Diameter (mm)	Max Flow (M³ hr)
	(MOD Hetwork ID)	IF, IVIF, LF	(IIIbai)		(111111)	IF, IVIF, LF	(IIIDai)		(111111)	(101 111)

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#### 4 DIAGRAMS AND DRAWINGS

#### 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 SW-BATH RFCA-GAS-Main building, SCH-001 workshop and caretaker's

# 4.2 Additional drawings.

flat.

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 External Installation Pipework on site:

- Call VIVO Helpdesk Team on **0800 030 0930** open 24 hours per day.
- Helpdesk will in turn will call National Grid <u>0800 111 999</u> to attend and make safe a gas incident.
- VIVO Helpdesk Team will send a text message to alert the Responsible Person Gas who should attend/discuss the incident with the Site Team/POC.
- Once the 1st Responders have attended and made safe, the Site Team should contact the VIVO Helpdesk and raise a job to repair the reported leak and get the gas reinstated.
- Out of hours is as above.

#### Procedure for an incident involving the Internal Installation Pipework on site:

- Call VIVO Helpdesk Team on **0800 030 9320** open 24 hours per day.
- Helpdesk will in turn will call National Grid <u>0800 111 999</u> to attend and make safe a gas incident.
- VIVO Helpdesk Team will send a text message to alert the Responsible Person Gas who should attend/discuss the incident with the Site Team/POC.
- Once the 1st Responders have attended and made safe, the Site Team should contact the VIVO Helpdesk and raise a job to repair the reported leak and get the gas reinstated.
- Out of hours is as above.

#### **Procedure for Equipment Faults:**

- Call VIVO Helpdesk Team on **0800 030 9320** open 24 hours per day.
- VIVO Helpdesk Team will raise a job for a contractor to attend, repair and reinstate the equipment.
- · Out of hours is as above.

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# **6 GAS EQUIPMENT**

<b>6.1 Equipment List.</b> 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	Plantroom	Ideal Evomax 2 boiler (1)	22082000000239	150	Open Fan flued	New 2021			
Main building	Plantroom	Ideal Evomax boiler (2)	22082000000240	150	Open Fan flued	New 2021			
Main building	Plantroom	Andrews Ecoflo water heater	AD53302452	58.3	Fan flued	New Oct 2024. Installed by MFM. Commissioning paperwork requested 3/1/25.			
Main Building	Kitchen	Blue Seal 6 burner range cooker	N/A	47	Flueless	No record available. Data badge not readable.			
Main Building	Kitchen	Blue Seal 6 bullseye range cooker	N/A	30	Flueless	No record available. Data badge not accessible.			
Main Building	Kitchen	Zanussi fryer	N/A	22	Flueless	No record available. Data badge not accessible. Turned off 30/9/24 by supply chain contractor (Boden)			
Workshop	Garage area	Reznor air heater	N/A	54	Open flue	No record available. Appliance at high level, data badge not accessible.			
Caretaker's flat	Spare room	Ideal Independent 30 combi	21543500002343	30	Fan flued				

#### **VIVO Business**

Unique Document Reference: Establishment: Bath ARC RMR AFCO ACF ATC

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**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.

Kitchen Canopy Gas Interlock is installed in main building kitchen, with SSOV, and emergency stop valve adjacent to kitchen door.

# 7 ANNEXES

