Department of **Local Government, Industry Regulation and Safety**
Dangerous Goods Safety

GOVERNMENT OF WESTERN AUSTRALIA

Application to register a dangerous goods pipeline

Dangerous Goods Safety Act 2004
Dangerous Goods Safety (Storage and Handling of Non-explosives) Regulations 2007

ABN:69 410 335 356

Applying for registration

Under Regulation 88(1) of the Dangerous Goods Safety (Storage and Handling on Non-explosives) Regulations 2007 (the Regulations), a person must not operate a dangerous goods pipeline to carry dangerous goods unless the pipeline is registered.

A pipeline *does not* have to be registered if:

- it is on, and does not leave a licensed dangerous goods site; or
- transverses two adjacent licensed dangerous goods sites, and is wholly contained within the two licences; or
- has an internal diameter of less than 60 mm, or
- the *Petroleum Pipelines Act 1969, Petroleum (Submerged Lands) Act 1982, or Gas Standards Act 1972* applies to the pipeline

The pipeline registration application consists of:

- the completed application
- a written report – if required, see information below
- geographical information on the pipelines (plan and data)

The pipeline registration is valid for five years.

Fees: There are no fees associated with the lodgement of this application.

The completed and signed application form must be accompanied with the required information, and:

Emailed to: cso@lgirs.wa.gov.au or

Mailed to:
Dangerous Goods Licensing
Department of Local Government, Industry Regulation and Safety
Locked Bag 14
Cloisters Square
PERTH WA 6850

Location plan, alignment sheets and spatial data

As part of the registration process, applicants are required to supply the surveyed as-built plan of the pipeline location in its entirety and detailed alignment sheets. If as-built plans are not available at the time of registration, design plans are required to be submitted initially, and replaced with surveyed as-built plans when available.

The spatial data of the pipeline is also required in either CAD (dwg, dxf or dgn) or GIS (Esri shapefile or geodatabase) formats. This should provide detail of the entire pipeline from the start to end points (typically emergency shutdown valves or pig launcher / receivers).

The specifics of these requirements are included in section 5 of the application

Written report requirement

Under regulation 89(2), an application to register a dangerous goods pipeline must be in an approved form and be accompanied by a written report. The written report must demonstrate the dangerous goods pipeline can be operated with minimal risk to people, property and the environment and in accordance with the Regulations. The report will reviewed by the Department as part of the registration process.

The risk that will be generated by a dangerous goods pipeline dictates the manner in which the written report needs to be prepared and submitted. There must be sufficient information to demonstrate that the hazards generating the risk are identified and the necessary controls in place to adequately reduce the risk to so far as reasonably practicable.

Where there are multiple pipelines at a site that will be operated by the same entity, one written report may be used, provided sufficient information is given to readily identify all of the pipelines to be registered individually.

The written report should summarise and reference to the items identified in section 6 of this form. It is not necessary for the application to include the full referenced reports. A description, providing the pertinent summary of the various studies and reports is more appropriate.

A Dangerous Goods Officer may request copies of plans and procedures at a later time if required (e.g. for validation or during a pipeline inspection).

When a written report is not required

A written report is not required under regulation 89(2)(b) if the application relates to a dangerous goods pipeline that is wholly within a major hazard facility (MHF) for which there is an approved safety report under the Dangerous Goods Safety (Major Hazard Facilities) Regulations 2007.

Further, where the dangerous goods pipeline is attached to an MHF and operated by the MHF operator, a written report is not required to be separately submitted. In this instance, there is a requirement on the MHF operator to ensure the content of the pipeline written report is included within the MHF safety report.

Department of **Local Government, Industry Regulation and Safety**
Dangerous Goods Safety
GOVERNMENT OF WESTERN AUSTRALIA

Application no. **(office use only)**

Application to register a dangerous goods pipeline

Dangerous Goods Safety Act 2004
Dangerous Goods Safety (Storage and Handling of Non-explosives) Regulations 2007

ABN:69 410 335 356

The owner of a dangerous goods pipeline is required to register a dangerous goods pipeline.

A pipeline is not required to be registered if it is on, and does not leave a licensed dangerous goods site, has an internal diameter of less than 60 mm, or is licensed under the *Petroleum Pipelines Act 1969, Petroleum (Submerged Lands) Act 1982, or Gas Standards Act 1972*

A person must not operate a dangerous goods pipeline unless it has been registered.

Section A Applicant details

1. Application type (you must tick one of the boxes)

☐ New registration ☐ Amendments to an existing application ☐ Transfer of a registration

Indicate a registration number

2. Owner details

Please tick one of the following boxes and complete the relevant sections below:

Owner details:

☐ Body corporate ☐ Partnership ☐ Trust ☐ Individual

Proof of entity documents are required to be lodged with the application.

Full legal name (as shown on the proof of entity document)

ABN and/or ACN

Registered business (trading name) (if different to the legal name)

Contact details:

Business street address (mandatory)

Unit no. Street no. Lot no. Street Type

Town/suburb State Postcode

Phone Email

Postal address

Same as business address: Yes ☐ No ☐

Street Address or PO Box Number

Town/suburb State Postcode

Operator details:

The following boxes need to be ticked and relevant section completed if the owner intends to transfer the registration to a third party or entity to operate the pipeline.

Note: The transfer of registration to a third party operator is only permissible for existing registrations. This section cannot be filled in for an initial registration.

☐ Body corporate ☐ Partnership ☐ Trust ☐ Individual

Proof of entity documents are required to be lodged with the application.

Full legal name (as shown on the proof of entity document)

ABN and/or ACN

Registered business (trading name) (if different to the legal name)

Contact details:

Business street address (mandatory)

Unit no. Street no. Lot no. Street Type

Town/suburb State Postcode

Phone Email

Postal address

Same as business address: Yes ☐ No ☐

Street Address or PO Box Number

Town/suburb State Postcode

Section B Technical information and details

3. Pipeline details

Point of origin (and DGS licence number)	
Postcode	
Destination point (and DGS licence number)	
Postcode	
Location	
Primary design/technical standards	
Design Life (years)	
Length of pipeline (m)	
Pipe material	
Terrain description	Land/water/combination
Land use along pipeline route	
Local government zoning along route	
Above ground / below ground / both	
Burial depth of cover (mm)	Cover to top of pipeline
External diameter (mm)	
Wall thickness (mm)	
Corrosion allowance (mm)	
Process control systems	
Maximum allowable operating pressure (kPa)	
Flow phase	Gas/liquid/two-phase flow/slurry/emulsion/other (please specify)
Maximum operating flow rate (tph/scmh)	
Operating temperature range (°C)	
Leak detection system	
Corrosion protection system - Internal	
Corrosion protection system - External above ground	
Cathodic protection system	Impressed current/sacrificial anode/other (please specify)
Date of construction	
Date of commissioning	

4. Dangerous goods carried in the pipeline

This section should be completed by the applicant even if another entity or party would be contracted or engaged to operate the dangerous goods pipeline

Please complete the table below with the details indicated for each kind of dangerous goods that is, or is expected to be carried in the pipeline (subject to multiple use). If any sections are not applicable, please insert N/A.

Proper shipping name	UN No.	Class	Sub-hazard	Packing Group

In the following table:

High Inherent Hazard pipelines are registered to carry Division 2.1, Division 2.2, Division 2.3, Class 3 (PG I and II) or other Class PG I dangerous goods

Low Inherent Hazard pipelines carry Class 8, Class 9 dangerous goods or combustible liquids, with no capability to carry dangerous goods listed for High Inherent Hazard pipelines.

Dangerous goods pipeline classification	High inherent hazard	☐	Low inherent hazard	☐

5. Details of the pipeline route

Attach the pipeline plan, alignment sheets and spatial data with the submission, in accordance with the below.

Plans should:

- be submitted in softcopy, with a preference for PDF digital format, other than as indicated,
- be accurate to within 5 metres, and
- use the Geocentric Datum of Australia 2020 (GDA2020) as the horizontal datum and the Australian Height Datum (AHD) as the vertical datum.

Item	Details to be included
Submit the pipeline plan for the pipeline	The pipeline plan should include: • a map of the pipeline route (from the commencement point to the termination point of the pipeline) For High Inherent Safety, also provide • The consequence distance equivalent to whichever is the furthest on each side along the pipeline route: ➢ AEGL 2 (1 hour exposure period) for toxic gas impact, ➢ 4.7 kW/m2 for radiation impact, or ➢ 7 kPa for overpressure, whichever is farthest. Within the consequence distance, identify the: • land use classification / local government zoning along the route of the pipeline or pipelines within the consequence distance, • Identify any sensitive area, (involving environmental and public impacts) such as schools, hospitals, and • Identify areas of significance, such as railways, ports, airports, public gathering areas, roads, tunnels, electrical substations, other pipelines, explosives or dangerous goods sites, and processing facilities.
Submit the alignment sheets for the pipeline	The alignment sheets should include: • centreline of the pipeline or pipelines, • location class in accordance with the pipeline code, • pipeline specifications, including depth of cover, material specification, coating type, • locations or points of interaction with other infrastructures like ports, roads, bridges, tunnels, etc, • location of all custody transfer, delivery, and intermediate structures or stations, e.g. scraper traps, major valves (i.e. relief valves, isolation valves, mainline valves, loading arms, etc) - the type and identifier associated with these facilities should be included, • points where the pipeline or pipelines changes alignment and rating dependent on the type or grade of material used, • points of intersection or interaction with other pipelines, • route topography and pipeline profiles and levels (i.e. places where pipeline goes underground or returns to surface, depths or heights below or above ground level), and • sufficient reference information to easily locate the pipeline

Submit a geo-referenced digital vector dataset of the pipelines (lines) and valves (points). For further information on GIS or CAD specifications, please contact the GIS Analyst on rsdspatial@lgirs.wa.gov.au	The preferred format is ESRI shapefile or geodatabase. AutoCAD dwg/dxf or MicroStation dgn are also accepted. In the case of CAD formats, all cells or blocks should be exploded or dropped. Where possible, pipelines should be named and attributed, tagged or symbolised with the type of material they carry, and valves should be named and attributed, tagged or symbolised according to their type.

Application lodgement

If you intend to apply for registration, it is recommended that you contact an accredited dangerous goods consultant and work with them to have your submission developed. The processing time for applications not submitted through an accredited dangerous goods consultant may take up to 90 business days.

Your consultant will normally complete the application form on your behalf, however the intended licensee must actually sign the application. The licensee is responsible for all matters associated with the day-to-day storage and handling of the dangerous goods, and will be held accountable for any breaches of the Regulations.

Lodgement

The completed application form, together with relevant documents is to be emailed to: cso@lgirs.wa.gov.au

Or by mail to:

Department of Local Govenrment, Industry Regulation and Safety
Dangerous Goods Licensing
Locked Bag 14
Cloisters Square
Perth WA 6850

or handed in person at:

Level 1, 303 Sevenoaks Street
Cannington WA 6107

Business hours: 8.30 am to 4.30 pm

Contact Details

Tel: (08)6251 2300 Option 2
Email: cso@lgirs.wa.gov.au
Website www.lgirs.wa.gov.au

The written report is required as part of the submission. The following table provides guidance on the expected coverage of the written report, to be submitted with the application. The content for high inherent hazard pipelines is more detailed due to the elevated risk associated with operating these pipelines.

Where the pipeline is controlled and managed by an MHF operator, the written report is not required, provided the information below has been included in the MHF safety report.

Include a detailed summary and reference to	**Application**	
	Low inherent hazard	**High inherent hazard**
Design Basis *(signed off by a competent and qualified person)*	☒	☒
Design, operations and maintenance codes of practice applied	☒	☒
Design drawings *(eg Process Block Diagrams, P&IDs, Station Layout Plans)*	☒	☒
Pipeline Plan *(inclusive of consequence distances for high inherent hazard pipelines)*	☒	☒
Alignment sheets	☒	☒
Design and description of placards, labels and signpost locations	☒	☒
Systems in place for security and control of third party interference.	☒	☒
Fracture control plan	☐	☒
Isolation plan	☐	☒
Safety Management System *(refer to the guide – Development and submission of a safety report for details on safety management systems)*	☐	☒
Hazard Identification Reports *(eg HAZOP, HAZID, Hazard Register etc)*	☒	☒
Semi Quantitative / Qualitative Risk Assessment Reports – *(eg LOPA, Qualitative Risk Assessment, AS61511 etc)*	☒	☒
Consequence Modelling Studies *(A QRA may also be required in certain circumstances, for example where the consequence zones indicate significant impact on the general public, property or environment)*	☐	☒
ALARP / SFARP Studies	☒	☒
Processes to ensure SDSs are readily accessible to personnel involved in the pipeline, DFES and dangerous goods officers.	☒	☒
Signed by the Owner/Operator's representative, as the accountable and responsible person for the implementation of the written report	☒	☒

Section C

Owner's declaration

Must be signed by the owner of the pipeline.

I certify that the details contained in this application are true and correct and I have enclosed the necessary documentation.*

Name | Position

Applicant's signature | Date

Operator's declaration

If applicable, this section must be signed by the intended operator of the pipeline if the owner intends to transfer the registration to a third party operator. The operator will become the holder of the registration once approved.

If the owner will be operating the pipeline and retain the pipeline registration, this sections does not need to be completed.

I certify that the details contained in this application are true and correct and I have enclosed the necessary documentation.*

Name | Position

Applicant's signature | Date