



Government of **Western Australia**
Department of **Mines and Petroleum**
Resources Safety

Applying to register a dangerous goods pipeline

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Introduction

Under Regulation 88(1) of the Dangerous Goods Safety (Storage and Handling of Non-explosives) Regulations 2007, a person must not operate a dangerous goods pipeline to transfer 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 site
- goes from one licensed dangerous goods site to another adjoining (contiguous) licensed dangerous goods site and goes no farther, or
- has an internal diameter of less than 60 mm.

The pipeline registration application consists of:

- the completed application form (available from the Resources Safety website)
- a written report that addresses the requirements of Part 5 of the regulations
- geographical information on the pipelines (plan and data).

The pipeline registration is valid for five years.

Note: If the dangerous goods pipeline is regulated by an approved safety report in accordance with the Dangerous Goods Safety (Major Hazard Facilities) Regulations 2007, there is no need to provide a written report to accompany the registration application.

Written report

The application to register a dangerous goods pipeline must be in an approved form and accompanied by a written report. Regulation 89(2) of the Dangerous Goods Safety (Storage and Handling of Non-explosives) Regulations 2007 requires the written report to show the pipeline can be operated in accordance with Part 5 of the regulations. The written report must demonstrate that the dangerous goods pipeline can be operated with minimal risk to people, property and the environment.

The report is reviewed by Resources Safety as part of the registration process. There must be sufficient information to ensure that each item has been considered and that actions or procedures are implemented. It is not necessary to provide copies of such procedures but they should be referenced, and may be requested at a later date for validation or when Resources Safety staff audit the pipeline's operation.

A template is available on the Resources Safety website. Use of this template is *not mandatory* but will ensure consistency and streamline the review process.

Location plan

Requirements

As part of the registration process, applicants must supply a plan of the pipeline or pipelines to be registered showing:

- centreline of the pipeline or pipelines to be registered
- location of all major valves (e.g. relief valves, isolation valves or mainline valves) – the type and identifier associated with the valve should be included
- points of intersection with other pipelines – the identifier for each pipeline should be included, preferably indicating registration status (i.e. pending or existing)
- pipeline profiles and levels (i.e. places where pipeline goes underground or returns to surface, depths or heights below or above ground level)
- pipeline access routes, including terrain description (e.g. if route passes through water)

- sufficient reference information to easily locate the pipeline (e.g. property boundaries, road names, suburb or locality names, petroleum titles, mining tenements, dangerous goods site licence numbers).

In addition, the following information should be included on the plan:

- north arrow
- scale bar
- map scale
- horizontal and vertical datum (e.g. GDA94, AHD)
- projection information with MGA zone clearly indicated
- grid
- date of plan
- legend.

Coordinate system

Plans should use the Geocentric Datum of Australia 1994 (GDA94) as the horizontal datum and the Australian Height Datum (AHD) as the vertical datum. Plans should be projected to the appropriate Map Grid of Australia 1994 (MGA94) zone. Local or mine grids should not be used.

Accuracy

All depicted locations of pipelines should be accurate to within 5 metres.

Output format

Plans should be submitted in hardcopy and softcopy. In the case of softcopy, a PDF digital format is preferred.

Printed plans should ideally be A4 or A3 size, but larger sized plans are acceptable to ensure clarity when depicting long or complex pipeline systems. Hardcopies should be of high quality (i.e. not facsimile or photocopies) and are to be printed at the size they were drafted (i.e. do not shrink an A0 plan to A4).

Submission of as-built plans and data

When a pipeline is surveyed after construction, as-built plans and data (same requirements as above) should be submitted to Resources Safety.

Geographic information system (GIS) data

In addition to the plan, a geo-referenced digital vector dataset of the pipelines (lines) and valves (points) should be submitted. The preferred format is ESRI shape file. AutoCAD dxf, MicroStation dgn and MapInfo tab, mid or mif formats are also accepted. In the case of dxf or dgn files, all cells or blocks should be exploded or dropped.

Where possible, pipelines should be attributed, tagged or symbolised with the type of material they carry, and valves should be attributed, tagged or symbolised according to their type.

For further information on GIS or CAD specifications, please contact the Resources Safety GIS Analyst on (08) 9358 8115 or spatial@dmp.wa.gov.au