

Technical Standard 2607.2 CONDITIONS FOR WORKS NEAR GAS TRANSMISSION PIPELINES

This information is provided by AusNet Services, the Gas Distribution Company whose assets may be affected by the proposed works.

Damage to a Transmission Pipeline could result in:

- **Gas escaping at pressures up to 2800 kPa**
- **Loss of gas to thousands of consumers**
- **Possible explosion and fire**
- **Substantial damage repair, gas restoration and legal liability costs to the authority or principal responsible**
- **Injury to persons and damage to property**

It is the responsibility of the person(s) carrying out the works to have the utmost regard for the safety of property and life. AusNet Services provides these minimum Conditions for Works which must be complied with by the person(s) carrying out works.

NOTE 1

Transmission Pipelines are cathodically protected by various corrosion mitigation equipment. The cathodic protection of these pipelines may cause interference to any proponents' metallic buried assets.

It is important that the proponents' of any development take this into consideration and undertake their own due diligence in the design of any buildings or metallic assets to account for any existing Cathodic Protection Systems (CPS) to validate their assets are not adversely impacted.

NOTE 2

Under no circumstances will AusNet Services accept liability for the acts or omissions of person(s) carrying out works. If in doubt contact Downer Group, AusNet Services's Principal Service Provider on **(03) 7379 8877** or email tppermits@downergroup.com.

If damage occurs to any property that is owned by AusNet Services, AusNet Services will assert its legal rights. These legal rights include, but are not limited to:

- Seeking compensation for tortious damage to property; and
- Asserting statutory entitlements, including prosecution under the Gas Industry Act (Vic) 2001, as amended.

NOTE 3

Pursuant to the Gas Safety Act 1997 and Pipelines Act 2005, large penalties can be imposed for unauthorised works in the vicinity of AusNet Services owned gas assets and interference with:

- Gas company pipelines (other than transmission).
- Transmission pipelines.
- Any other gas company installation or facility.

NOTE 4

For After Hours Contact:

- Gas Emergencies - telephone **13 67 07**

During Business Hours (7.30am – 3:30pm, Monday to Friday) contact:

- Downer Group on **(03) 7379 8872**

Minimum Conditions for Work Near Transmission Pipelines

1. It is essential that prior to any work being carried out, detailed design plans of the proposed construction work in the vicinity of a gas transmission pipeline are forwarded to the Engineering Team of Downer Group, (tppermits@downergroup.com) for impact assessment. Only after Downer Group have considered and approved the proposal will a work permit be issued.

2. In cases where further assessment is required, AusNet Services may require the responsible proponent of works to carry out a Safety Management Study (aka Risk Assessment) in compliance to the requirements of AS 2885.6 and AusNet Services Technical Standards. All recommendations of the study will need to be completed to AusNet Services satisfaction prior to the development.
3. If the depth of cover above gas mains is to be reduced, traffic loading calculations shall be completed by AusNet approved suppliers before heavy vehicles is permitted to cross over. Based on proposed calculations a specific crossing (crushed rock ramp or steel road plate) shall be installed for heavy vehicle traffic.
4. Upon receiving a work permit, Downer Group Pipeline Security is to be contacted on **(03) 7379 8872 (7:00am- 3:30 pm, Monday to Friday)** prior to any excavation and/or construction work in the vicinity of a **transmission pipeline**.
5. For all planned works the acknowledgement on the requirement of a Pipeline Inspector to be on site during the proposed works will be made by Downer within **2 working days** - best endeavours will be used to allocate a pipeline inspector to site as soon as possible however the timeframe may vary depending on resources at the time of the request. **Usually no fee is charged for this service.**
6. Final construction plans approved by Downer Group, together with any relevant gas plans supplied by them are only to be used for the proposed works. Updated gas plans must again be obtained for any further works in the future.
7. To determine the exact location of a pipeline prior to commencement of design and/or construction work, **HAND EXCAVATED** provings **must** be carried out, under permit to works and the supervision of a Pipeline Inspector. This will require making a booking through Downer Group on **(03) 7379 8872** during business hours.
8. **MECHANICAL EQUIPMENT** must not be used within 1 metre of the pipeline even after the pipeline has been proven, except under explicit direction of the Pipeline Inspector. Under no circumstances is mechanical equipment to be used within 300 mm of the pipeline.
9. **HYDRO EXCAVATION EQUIPMENT** must be fitted with a "Rubber Sleeve Adaptor" to vacuum suction hose or "Safety Guide" to Water Lance before excavating 400mm above the top of transmission pipeline and will be inspected by Pipeline Inspector. Contact tppermits@downergroup.com for copy of drawing GS-0330472-001 Hydro Vacuum NDD Attachment.
10. When a bore is to pass under or over a pipeline, the position of the pipeline must be proven by excavation. All or part of this excavation must be by hand as directed by the Pipeline Inspector. The excavation must be extended 1 metre from the pipeline on the side from which the bore will approach. The position and direction of the bore head must be checked when it reaches this excavation to ensure the required minimum clearance of 500mm between the bore and the pipeline will be maintained. Progressive measurement of the bore length must be made to ensure that the bore head has not missed the excavation.
11. Any alteration to the surface level over the pipeline must only be carried out with the prior written approval of the Engineering Team, Downer Group.
12. Blasting must be in accordance with Australian Standard, AS 2187, and TS 2607.3 - "Conditions for the Use of Explosives near Gas Mains and Transmission Pipelines", and only in the presence of a Pipeline Inspector. Restrictions must only be modified upon the explicit approval from the Engineering Team, Downer Group.
13. Under Section 120 of the Pipelines Act 2005, you are advised that no temporary or permanent structures e.g. fence posts, power poles or buildings is permitted within three (3) metres of a transmission pipeline without Ministerial Consent. This condition must be complied with. Structures placed outside this zone but within the remainder of gas easement may be permitted if both approved by the Engineering Team, Downer Group and if in accordance with AusNet Services Technical Standard TS 4078 Management of Transmission Pipeline Easements.
14. No auger drilling is allowed within 3.0m transmission pipeline exclusion zone.
15. No vibration compaction is allowed within 3.0m transmission pipeline exclusion zone.
16. Proposed works more than 3.0m from the pipeline but which may cause earth movement, or vibration, e.g. earthworks, pile driving, etc. must also be referred for advice and/or approval.

Minimum Clearances (guide only) for Design or Construction Purposes

As an aid to your design and / or construction, the following minimum clearances from AusNet Services Transmission Pipelines are necessary and must be observed:

The prescribed clearances shall only be used as a guide as there may be some instances where greater clearances are required.

- 500 mm from the top of the pipeline to the underside of road pavement boxing.
- 500 mm between the pipeline and installations crossing the pipeline.
- 500 mm between the pipeline and installations laid parallel to the pipeline.
- 3000 mm between the pipeline and a structure (pit, pole, footing etc.).
- 3000 mm between the pipelines and an installation that could require underpinning should the need to expose the pipeline arise.
- AusNet Services may require the contractor, authority or principal to install protective concrete slabbing over or between the pipeline and new installation.

NOTE: The above minimum clearances (guide only) shall not be used as design basis for designing/constructing other utilities and structures in the vicinity of AusNet Services assets unless all other possible design alternatives have been considered and deemed unreasonable. AusNet Services may seek validation on what process has been undertaken to proposed clearances between AusNet Services assets and the proposed development.