

To all concerned parties

We act for PowerGas Ltd.

Requirements for Distribution Gas Pipe Diversion Works

Planning Phase

1. Prior to any excavation works, the project owner / contractor shall request for gas services returns and acquire the gas plans.
2. Where any gas pipe is affected, the project owner / contractor shall liaise with Gas Distribution Planning section for diversion of pipes. As far as possible, no gas pipes shall be within the hoarding area of the work site.
3. The project owner / contractor shall provide a feasible corridor free from other underground services and away from semi-rigid / rigid pavements to facilitate the diversion work. If there are other underground services along the proposed corridor, the project owner / contractor shall consult and obtain the necessary clearances from the relevant agencies for the new gas pipe to be laid.
4. Depending on the extent and complexity of the diversion, a long lead time may be required. Hence, the project owner is advised to consult the planning team early.

Construction Phase

1. The project owner / contractor shall coordinate all diversion activities with Gas Distribution Projects section.
2. The consultant / contractor shall arrange a site walk with the SPPG Officer-in-Charge prior to the commencement of pipe laying works.
3. The project owner / contractor shall peg the confirmed pipe corridor.
4. A minimum clearance of 300mm shall be maintained between our gas pipes and all other services or structure.
5. Wherever possible, valves shall be installed to enable quick isolation of pipeline within the work site (e.g., crossing of bored tunnels, cut-and-cover tunnels). These isolation valves should not be located inside the work site.
6. Where the cut-and-cover tunnel runs parallel to the gas pipes, there shall be a minimum clearance of 5 metres from the diaphragm wall.
7. Once laying of gas pipeline is completed, pipe cleaning and pressure test will be conducted.
8. For works within third party worksites, a site inspection with the SPPG Officer-in-Charge shall be conducted prior to commissioning of the gas pipe to check that the site is in order.

Gas Pipeline Safety and Integrity

1. All vent shafts to the tunnels shall be at least 20 metres away from the gas pipes.
2. All piles shall be at least 5 metres away from the gas pipes, which shall be determined by trial holes.

3. All crossings over cut-and-cover tunnels shall be replaced temporarily with steel pipes for suspension and subsequently replaced with polyethylene pipes upon the completion of the construction work. The steel pipe supports shall be endorsed by a Professional Engineer (Civil) and submitted to SPPG Gas Operations. The support system shall allow access to the pipe for inspection and for fire-fighting purposes in the event of an emergency.
4. No air intake / outlet shall be located near the gas pipes.
5. Valve chambers which are still located within the work site due to site constraints, shall be raised 0.5 metres above ground level and kept visible and accessible at all times for emergency.
6. The project owner / contractor shall be aware of all gas pipes within the work site and shall ensure that all parties working within the site are also aware of the locations of the gas pipes. Where possible, prominent markers indicating the pipe route shall be displayed.
7. The project owner / contractor shall be responsible to maintain the integrity of the gas pipes, protection slabs, warning markers and gas chambers within the work site, and to comply with the following:
 - a) No permanent structure is to be constructed over any gas pipe,
 - b) No Electronic Parking System (EPS) is to be constructed over any gas pipe,
 - c) No heavy machinery / equipment is allowed to be placed over any gas pipe,
 - d) All gas chambers or standpipes must be barricaded prominently with "Danger" sign,
 - e) Access shall be provided for gas inspection and maintenance to be conducted regularly along the pipe route within the work site.
8. Wherever possible, no hot work is allowed in the vicinity of the gas pipes. If hot work is unavoidable, the project owner / contractor shall take all necessary measures, including but not limited to the following:
 - a) The site shall be certified gas-free by a qualified Safety Officer,
 - b) Gas-free checks shall be conducted regularly before and throughout the work,
 - c) All necessary precautions to prevent damage to the gas pipes shall be taken,
 - d) All possible occurrence of fire hazards shall be eliminated and, if necessary, consult SPPG on other precautionary actions to be taken.
9. The project owner / contractor shall notify SPPG Gas Operations of any works directly or indirectly affecting the gas pipes.
10. The project owner / contractor shall monitor possible ground movements / soil subsidence in the vicinity of their work sites and inform SPPG Gas Operations immediately if any such movements / subsidence is observed / detected and where gas pipes are present.
11. In the event that any gas leak is detected, all works shall cease immediately and SPPG Gas Operations 24 hrs Gas Service Operation Centre shall be contacted at Tel: 1800-752-1800 for assistance.

Acknowledged by:

Project Name: _____

Signature & Stamp of Principal / Consultant

Name : _____

Designation : _____

Signature & Stamp of Main Contractor

Name : _____

Designation : _____