

SAFE WORK AROUND OR NEAR THE ACT GAS NETWORK

THIS WORK INSTRUCTION DESCRIBES THE SAFE SYSTEM OF WORK WHERE TASKS ARE REQUIRED AROUND OR NEAR THE ACT GAS NETWORK

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SAFE WORK AROUND OR NEAR THE ACT GAS NETWORK

1. SCOPE

This work instruction applies to tasks that are required around or near the ACT Gas Network. Work cannot commence unless Contact with Zinfra/Jemena has been made as indicated in this work instruction.

2. PURPOSE

This work instruction describes the safe system of work where tasks are undertaken around or near the ACT Gas Network.

3. ZINFRA CONTACTS

Planned works

During business hours 8:30am to 3:00pm

Zinfra Standby/Location Marking Contact Planned Works (3 weeks minimum lead-time required for planned works): <u>Canberra.planner@zinfra.com.au</u> and **1300 503 237**

Unplanned works

Out of hours only Zinfra Standby Contact Unplanned Works: **1300 717 209**

Emergencies

Reporting gas leaks (or emergencies on the Gas Network): 131 909

4. QUICK REFERENCE GUIDE

TRANSMISSION AND	SECONDARY MAINS	MEDIUM PRESSURE	MEDIUM PRESSURE					
	1050kpA – 50mm to 450mm	MAINS	MAINS					
15000kPa/7000kPa – 250mm	steel with a polyethylene	210kPa – 75, 110 and	210kPa – 18 to 63mm plastic					
steel with a polyethylene coating	coating	160mm plastic						
All excavation work, whether planned or unplanned must have current Dial Before You Dig (DBYD) drawings onsite prior to								
excavation work commencing. DBYD maps are a guide only, all items outlined below must be adhered to.								
Gas mains/pipes can only be located by Zintra – Zintra does not guarantee or certity/accredit other parties to locate pipes								
	on the ACT Gas Network.							
	<u>POT HOLING</u>	<u>POT HOLING</u>	EXCAVATING					
	NO ZITITA Standby person	NO ZITITA Statudy person	No Zinfro standby neroon					
	vac but pipes must be	vac but pipes must be	required Pipes must be					
	vac, but pipes must be	vac, but pipes must be	leasted and marked first by					
	Zinfra and an Advice Form*	Zinfra and an Advice Form*	Zinfra and an Advice Form*					
	received	zinna and an Advice Form	received Water pressure on					
	Hydro-yac water pressure	Hydro-vac water pressure	hydro-yac must be no greater					
	must be no greater than	must be no greater than 1500	than 1500 psi for fixed pozzle					
	2000Psi for rotating nozzle	nsi for fixed nozzle on nylon	on pylon pipes					
		nines	If in doubt call Zinfra for					
		pipes.	advice on: 1300 717 209					
		HOTWORKS						
	Protection (fireproof mate: form ply and or box coverings) must be in place when any bot works							
	are being undertaken within 300mm of any gas network nines, regardless of the pines being							
	exposed. Protection must also	be in place where ignition source	es are likely to be within 300mm					
	of gas pipes. Where protection cannot be put in place within 300mm of any gas pipes.							
NO Work to occur until an	Zinfra must be called and asked to advise on controls.							
Encroachment Management	Systems of work regarding	hot works near gas pipes can be	found later in this document.					
Study has been received from	EXCAVATING W	VITHIN 1 METRE						
Jemena. Works must not	Zinfra standby person and loca	ation marking <i>is</i> required when						
proceed unless supervised by	any excavation is carried out	within 1 metre – this includes						
Zinfra.	using a hydro-vac truck. No mechanical excavation to occur							
	within 300mm inc	luding Hydro-vac.						
	VIBRATING ROLLERS/MA	XIMUM MACHINE WEIGHT						
	No vibrating roller to be us	ed within 3 metres of pipe.						
	Maximum ma	achine weight:						
	>1200mm pipe dept	h – 10 tonne per axle						
	500mm-1200mm pipe o	depth – 8 tonne per axle						
	<500mm pipe depth – whacker packer only							
	ELECTRICITY NETWORK	ELECTRICITY NETWORK						
	No Electricity will be laid	No Electricity will be laid						
	within 500mm of the gas	within 300mm of the gas						
	main. Approval is required	main. Standby person will						
	before any work proceeds	advise as well.						
	around the steel network.							
	Standby person will advise							
	AS Well.							
	any stool gas main							
	any steel gas main.							

*Advice forms must be provided as part of site handover.

5. SITE PROTECTION

5.1 Site Fencing

Excavated work sites must be fenced with appropriate security fencing.

5.2 UV Protection

For gas nylon pipes that are exposed in open trenches, pipes must be covered to limit exposure to ultraviolet (UV) light. Appropriate tarpaulins to protect exposed pipe are available from the Tool Store in Greenway.



For periods of time that exceed two weeks, Zinfra must be notified.



6. HOT WORKS

6.1 Total Fire Ban Days

For any hot works that are proposed on a Total Fire Ban (TFB) Day – refer to Fire Risk Work and Entry Into and Working Within Bushfire Effected Areas.

6.2 Work Site Assessment

Prior to any works commencing the Job risk Assessment (JRA) process must be undertaken in accordance with Job Risk Assessment Procedure – controls as listed within this instruction that are implemented at a work site must be listed on the JRA form.

6.3 Use of Gas Detectors

Ensure that an approved gas detector is located within the excavation work site at all times when work is occurring in close proximity to gas pipes. The gas detector should be located as close as practical to heat/ignition sources (ignition sources include a cable spiking gun).

6.4 Heat Protection

Heat protection (fire proof mats; form ply and or box coverings) must be in place when any hot works are being undertaken within 300mm of any gas network pipes, regardless of the pipes being exposed. Examples of such protection can be found below.

Protection must also be in place where ignition sources are likely to be within 300mm of gas pipes. Where protection cannot be put in place within 300mm of any gas pipes, Zinfra must be called and asked to advise on controls.

FIGURE 1.





"A" - Frame



NOTE: All protection covers must be supported when in use and not placed directly onto unsupported gas pipes.

FIGURE 2. EXAMPLE:



6.5 Temperature at Pipes

When undertaking hot works, the temperature at the gas pipes must not exceed 60°C. This can be achieved by ensuring fire proof mats are attached to/hung on form ply boards if the boards come into direct contact with flames or prolonged heating.

6.6 Emergency Procedures

- Call the Jemena Emergency Response Centre on 131 909 for all gas leaks.
- Keep persons away from the gaseous area.
- Prohibit all sources of ignition including smoking; vehicles; naked flame; cameras; mobile phones and electrical switches.
- If safe to do so, dampen the ground around the escaping gas to prevent static electricity igniting the gas. Note that excessive water may hamper repair work and cause gas supply issues.
- If the gas has caught fire, leave it. Contact ACT Fire and Rescue on 000/112 and the Jemena Emergency Response Centre on 131 909. DO NOT ATTEMPT TO EXTINGUISH THE FIRE. If safe to do so, dampen the surrounding areas to prevent them from also igniting.

7. SUPPORTING THE GAS NETWORK

It is important to note that support may be required for gas pipes due to excavation required in trenches where shared services exist. Examples of how such support can be implemented is found below. *At no time should weight be placed on unsupported gas pipes, this includes protection for hot works.*

Discussions with and advice from Zinfra is required prior to any support of gas network pipes being implemented. Note – depending on the length of pipe requiring support, more than one of the following examples may be required.

FIGURE 3. EXAMPLE:

FIGURE 4. SUPPORT ARRANGEMENTS



VERSION CONTROL

VERSION	DETAILS	APPROVED
1.0	Initial Document	Manager, Works Delivery
1.1	Minor edits to Zinfra contacts	Group Manager Gas Networks
1.2	Correction of Zinfra phone number	Group Manager Gas Networks
1.3	Contact phone numbers during business hours updated	Group Manager Gas Networks
1.4	Addition of section 5 site protection	Group Manager Gas Networks
1.5	Addition of tarpaulins in section 5	Group Manager Gas Networks

DOCUMENT CONTROL

DOCUMENT OWNER	PUBLISH DATE	REVIEW DATE
Group Manager Gas Networks	23/11/2022	23/11/2024