

Excavation near underground assets - JSA - B

en-AU - Technical failure review

Site: | Item ID: | Work area:

Approval	Work supervisor	Technical reviewer	Release / handover authority

1. Job details and team signatures

Date / time	Location / area			Assessor		Supervisor	
Team signatures							

2. Conditions and hold points

Stage	Time	Location / area	Environment / readings	Item / condition	Controls	Plant / tools	Approval / signature
HP-0 Start							
HP-1 Prove services							
HP-2 Install protection							
HP-3 Control entry							
HP-4 Backfill and hand over							

Complete after actual checks. Recheck after changes, defects or shift handover.

3. JSA risk assessment

Job stage	Hazards and effects	Failure factors	Technical and procedural controls	Site verification	P	S	R	A
1. Check plant	1. Attachment falls 2. Slew impact 3. Plant overturns	1. Coupler fault 2. Person in work zone 3. Weak standing area	1. Test attachment lock 2. Exclude people 3. Check standing area	1. Coupler test 2. Agreed signals 3. Ground capacity				
2. Prove services	1. Gas release 2. Water release 3. Asset damage	1. Unclear detection 2. Unsuitable method 3. Wrong asset identity	1. Trace asset route 2. Expose appropriately 3. Confirm with owner	1. Position and depth 2. Method limits 3. Released work area				
3. Excavate in stages	1. Edge failure 2. Falling material 3. Utility contact	1. Water in ground 2. Loose wall material 3. Work limit crossed	1. Control edge loads 2. Manage loose material 3. Respect asset limits	1. Loads and setbacks 2. Ground changes 3. Asset alignment				
4. Install protection	1. Support failure 2. Shield displacement 3. Crushing during lift	1. Incorrect installation 2. Unsuitable system 3. Person under load	1. Advance protection 2. Use suitable system 3. Clear lifting zone	1. Installed condition 2. Protected area 3. Installation sequence				
5. Control entry	1. Worker buried 2. Hazardous air 3. Delayed rescue	1. Outside protection 2. Air risk unassessed 3. No escape route	1. Stay in protected zone 2. Assess atmosphere 3. Prepare emergency plan	1. Effective protection 2. Air risk assessment 3. Escape arrangements				
6. Review changes	1. Wall collapse 2. Flooding 3. Support distortion	1. New edge loading 2. Water ingress 3. Missed inspection	1. Control water 2. Reassess protection 3. Record changes	1. Cracks and movement 2. Support condition 3. New release decision				

P/S/R/A: Complete after actual checks. Recheck after changes, defects or shift handover.

4. Pre-work checklist

☐ Coupler test	☐ Position and depth	☐ Loads and setbacks
☐ Installed condition	☐ Effective protection	☐ Cracks and movement
☐ Ground capacity	☐ Installation sequence	☐ New release decision

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