

Activity: **Turret entry to isolate fuel line** **Be more specific** SWMS #: 201
 Business Name: iEntry Pty LTD ABN: 097 117 934 439
 SWMS Approved by: Tim Little Signature: *Tim Little* Date: **31/01/2020** **Incorrect date**

- Daily Tool Box Talks will be undertaken to identify, control and communicate additional site hazards.
- Work must cease immediately if incident or near miss occurs. SWMS must be amended in consultation with relevant persons.
- SWMS must be made available for inspection or review as required by WHS legislation.
- Record of SWMS must be kept as required by WHS legislation (until job is complete or for 2 years if involved in a notifiable incident).

Job Details

Location: Potts Hill 155 - 157 Rockwood Rd Yagoona, NSW
 Work Area: Forecourt Tank 2
 Work Supervisor: John English Permit Officer (if required): **Who is the permit officer?**
 Equipment Used: **Tripod / Harness / Hand Tools** **More specific - more tools used here**
 Referenced Documents: **iEntry Safe Entry procedure** **Where is this document? Rescue Plan was provided**
 High Risk Work to be performed as per WHS legislation: Confined Space Entry

SWMS must be reviewed on site

SWMS Reviewed by: **Who is reviewing the permit?** Signature: Date:

Likelihood	Consequence			Consequence Description	Risk Score	Action	Hierarchy Of Controls	
	Minor	Moderate	Major					
Very Likely Has happened in last 12 months in company	2 Medium	3 High	4 Extreme	Minor First aid. Injury, On-site spill/release immediately contained, no short-term environmental harm.	4. Extreme	DO NOT PROCEED	1. Elimination	Most Effective ↑ ↓ Least Effective
Likely Has happened in last 12 months in industry	1 Low	2 Medium	3 High	Moderate Medical treated injury <7 days off. On-site spill/release contained, minor remediation, short-term environmental harm.	3. High	Management sign off	2. Substitution	
Unlikely Has not happened in last 12 months	1 Low	1 Low	2 Medium	Major > 7days off , up to death. Off-site spill/release not contained and significant long-term environmental harm	2. Medium	Supervisor sign off	3. Isolation	
					1. Low	Maintain control measures	4. Engineering	
							5. Administration	
							6. PPE	

Personal Protective Equipment (PPE): Ensure all PPE meets relevant Australian Standards. Inspect, and replace PPE as needed.

Foot Protection	Hearing Protection	High Visibility	Head Protection	Eye Protection	Face Protection	Hand Protection	Protective Clothing	Breathing Protection	Sun Protection	Fall Arrest	Other
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Task	Hazard	Control Measures to Reduce Risk	Responsible Person
1. Planning & preparation	Lack of consultation	<ul style="list-style-type: none"> • Sign into site on arrival and discuss work with the Site Manager and Permit Officer • Site induction • Perform site walk with Permit Officer and Site Manager if on site • Issue Work Clearance • Review SWMS with work crew 	<p>All workers</p> <p>Which specific people are responsible?</p>
	Untrained workers	<ul style="list-style-type: none"> • Complete training record to ensure all workers have undertaken required training and/or received instruction in the use of control measures. 	
	Interaction with other works	<ul style="list-style-type: none"> • Identify other work taking place and discuss with other contractors if there is a possibility of either party impacting the other • All work to stop whilst tanker delivers fuel products. Recommence after tanker has departed 	
	Unauthorised work being performed	<ul style="list-style-type: none"> • Permit Officer prepare Work Permit • Site staff to be advised of the activity • Pre Start meeting with all workers 	
2. Set Up	Needles, spiders & insects	<ul style="list-style-type: none"> • Use gloves when removing lids and covers • Remove the needles using sharps removal kit if trained to do so. Otherwise request site staff to remove 	<p>All workers</p>
	Fire Not a hazard	<ul style="list-style-type: none"> • Gas test equipment bump tested with challenge gas in date • Continuous gas monitoring while hot work is being performed 	
	Pedestrian and vehicle traffic	<ul style="list-style-type: none"> • Spotter to watch for vehicle movement during set up. • Use own vehicles with hazard lights on as barriers until barricades are in place • Barricades (bollards & rails) to be used around work area. Use vehicle as hard barrier on ingress side of manway 	
	Heavy equipment	<ul style="list-style-type: none"> • Manual handling training Statement of attainment for manual handling? • 	
	Slips, trips, falls	<ul style="list-style-type: none"> • Take care Not a control measure • 	
3. Confined Space preparation	Heavy turret lid	<ul style="list-style-type: none"> • Use mechanical lifting tools 	<p>All workers</p>
	Open Turret Unauthorised access	<ul style="list-style-type: none"> • Workers to use caution when working near the open turret. More specific controls • Create second barricaded work area for confined space work. • Only the Confined Space Entry team allowed in confined space work area • Confined Space signage < 5% reqd for entry 	
	Contaminated atmosphere Control - ventilation?	<ul style="list-style-type: none"> • Atmosphere of confined space to be gas tested prior to entry. LEL to be less than 10 %, Hydrogen Sulphide less than 10%, Carbon monoxide less than 30% and Oxygen to be between 19.5 and 23.5 % before entry. • Standby to monitor atmosphere from manway • Any vehicles in the work area must have engines turned off during entry 	
	Live electrical circuit	<ul style="list-style-type: none"> • Isolate turbine at main DB. Lock & tag out circuit breaker. Confirm isolation by confirming STP does not run when dispenser is authorised 	
	Sharp edges of turret lid	<ul style="list-style-type: none"> • Use PPE More specific - what PPE? 	

Task	Hazard	Control Measures to Reduce Risk	Responsible Person
4. Working in Confined Space what ignition sources?	Fall from one level to another	<ul style="list-style-type: none"> Entrant to be in harness attached to tripod during entry Tripod to be set up as per manufacturers specifications Where are specs? 	All workers
	Working in confined space What are the hazards in a CS?	<ul style="list-style-type: none"> All personnel to be trained and competent All work to be undertaken in accordance with AS 2865 Entrant to remain connected to tripod at all times in confined space Entrant to be wearing a personal gas detector during entry. Exit immediately if LEL >= 5 % Standby person is to be in constant contact with the person in the confined space. Any change of behaviour to be acted on immediately Standby person to monitor any change to conditions inside or outside the confined space Standby person to keep a log of entry to / exit from the confined space 	
	Product residue / spills	<ul style="list-style-type: none"> Soak up with spill kit mats Wear nitrile gloves Capture spills in receptacle 	
	Ignition source	<ul style="list-style-type: none"> Hand tools (non powered) only in confined space correct tools for the work (rubber mallet?) 	
	Pressurised fuel line	<ul style="list-style-type: none"> Close isolation valve at STP Verifying isolation? 	
	Use of tools in restricted space	<ul style="list-style-type: none"> Take care More specific 	
	Emergency in confined space	<ul style="list-style-type: none"> Standby person is NOT to enter confined space under any circumstances Implement Emergency Rescue Plan Communication method in the event of an emergency to be agreed on before work commences 	
	Fatigue	<ul style="list-style-type: none"> 1 hour maximum duration of entry with minimum 30 minute break between entries terminology 	
5. Entry Completion/ Pack up	Person /equipment left behind	<ul style="list-style-type: none"> Ensure that everyone leaves the space and the competent person must sign the permit confirming this. Tools equipment and material are removed from the space All access points are closed and secure 	All workers
	Equipment in work area / Slippery surfaces	<ul style="list-style-type: none"> Clean up tools and any waste ensuring the site is left in clean and tidy condition 	
	Equipment not working	<ul style="list-style-type: none"> Remove isolations and check equipment is working before leaving site Update isolation record 	
	Heavy equipment	<ul style="list-style-type: none"> 2 person lift using correct lifting techniques or mechanical lifting tools what tools would these be? 	
	Pedestrian and vehicle traffic	<ul style="list-style-type: none"> Use own vehicles as barriers when barricades are removed Spotter to watch for vehicle movement during pack up. 	
	Status of work unknown	<ul style="list-style-type: none"> Close out permits and advise site staff of any residual hazards 	

iEntry Pty LTD Safe Work Method Statement (SWMS) Turret Entry

Sign On

This SWMS has been developed in consultation and cooperation with employee/workers. I have read the above SWMS and I understand its contents. I confirm that I have the skills and training, including relevant certification to conduct the task as described. I agree to comply with safety requirements within this SWMS including risk control measures, safe work instructions and Personal Protective Equipment described.

Employee/Worker Name	Job Role / Position	Training	Signature	Date	Time
John English	Supervisor / Standby	White card WPCG WCF Issuer (JE0068) Confined Space Entry BA Training Gas testing			
Dave Smith	Worker / Entrant	White card WPCG WCF Issuer (DS0195) Confined Space Entry BA Training Gas testing First Aid	None of the workers have signed on		
Scott Williams	Worker	White card WPCG WCF Issuer (SW0165) Confined Space Entry BA Training EWP No statement of attainment			
What about Andrew Lewis?					

Relevant Legislation, Codes of Practice, Australian Standards

<p>State where WH&S applies Work Health and Safety Act Work Health and Safety Regulations Codes of Practice: Relevant to state: Construction Work Confined Space Managing Noise and Preventing Hearing Hazardous Manual Tasks Managing Risks of Hazardous Chemicals Managing Electrical Risks in the Workplace</p>	<p>Victoria: Occupational Health & Safety Act Occupational Health & Safety Regulations Compliance Code: Confined Space Hazardous Manual Handling Hazardous Substances Noise Plant</p>	<p>Western Australia Occupational Safety & Health Act Occupational Safety & Health Regulations Codes of Practice: Managing noise at workplaces Confined Space Manual tasks Control of workplace hazardous substances</p>
--	---	--

AS 2865 Safe Working in a Confined Space; **AS 1940** The storage and handling of flammable and combustible liquids;
AS/NZS 1269 Occupational noise management; **AS/NZS 1891.4** Industrial fall-arrest systems and devices Selection, use and maintenance

EMERGENCY RESCUE PROCEDURE FOR CONFINED SPACE

General

Prior to every confined space entry, confirm the emergency rescue procedure that will be used and the roles of the rescue team. Where the circumstances require a different rescue procedure than listed here, it must be documented prior to commencing work in the confined space and tested. Where the site is out of the metropolitan area, confirm available response from local emergency services.

Pre-work Preparation

- Identify the nearest cross streets to the turret.
.....
- Identify nearest medical facilities (hospital, medical centre).
.....
- Site Operator is to be briefed and advised
.....
- Confirm site first aid capabilities.
- Check entry and rescue equipment is operable and current in accordance with AS/NZS AS/NZS 1716-2012 and AS/NZS 1891.4-2009

Initiation of Procedure

The emergency procedure will be initiated immediately by the Standby and Rescue person if the entrant tugs twice on the safety line, asks for assistance or uses the agreed hand signal.

The Standby will initiate the emergency procedure immediately if they do not get a response from the entrant or the confined space environment changes i.e. gas detector alarms.

Emergency Procedure

- The entrant is to remain connected to tripod and winch at all times
- The worker raises the alarm with the site and contact 000
- The standby person winches the entrant out of tank to the point the entrant's thighs are level with the manway
- The worker assists the standby person by pulling the entrant to the side of the manway whilst the standby person lowers the cable
- Both the standby and worker will then drag the entrant to the agreed safe place
- The worker commences first aid whilst waiting for the emergency services to attend

<u>Equipment:</u>		Checked
Entrant:	Harness	
	Tripod	
	Lifeline	
General:	First Aid Kit	