Revised Final Plan
Attachment 9.12

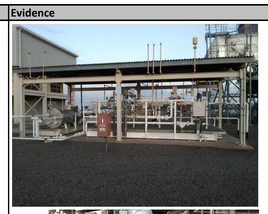
Structures & Operational Sites - Working at Heights - Appendix B

August 2025

PUBLIC

Dampier Bunbury Pipeline

Reference	Date added	Location on Site	Issue	Likelihood	Consequence	Risk Score	Suggestions	Evidence	What is being completed	Date planned for completion	Date completed	Comments
CS05-8	23/05/2023	Compressor Unit 1 - After Cooler Fans - Ground Level Ladders x 2	1) The concrete landing (depth 230-250mm) does not meet the AS requirements (depth min 900mm from bottom rung). 2) The concrete landing that is being used as an additional stair to allow access to the ladder (360mm and 470mm) does not meet the AS requirements.	D. Occasional	2. Minor	Low	1) Pour a new landing. 2) Modify the ladder to run the full length to the landing and ensure the step up requirements for the ladder meets AS requirements (e.g. 300-450mm requires at least 1 stair).	 				
CS05-9	23/05/2023	Compressor Unit 1 - After Cooler Fans - Middle Platform (East Side)	1) No handrails on the side of the platform that faces the structure. Gap between the kick plate and structure is 630mm and the AS requirement is max 100mm. Potential fall of ~5m.	B. Remote	3. Severe	Low	1) Install handrails between the existing platform and structure to eliminate or reduce the gaps to meet AS requirements.	 				
CS05-10	23/05/2023	Compressor Unit 1 - After Cooler Fans - Middle Platform (West Side)	1) No handrails on the side of the platform that faces the structure. Gap between the kick plate and structure is 670mm and the AS requirement is max 100mm. Potential fall of ~5m.	B. Remote	3. Severe	Low	1) Install handrails between the existing platform and structure to eliminate or reduce the gaps to meet AS requirements.	 				
CS05-11	23/05/2023	Compressor Unit 1 - After Cooler Fans - Top Platform	1) No handrail on the western end of the top platform. Personnel at risk of a fall ~5m when performing maintenance activities on the piping.	C. Unlikely	3. Severe	High		No photos available. Refer to CS08.				

Reference	Date added	Location on Site	Issue	Likelihood	Consequence	Risk Score	Suggestions	Evidence	What is being completed	Date planned for completion	Date completed	Comments
CS05-12	23/05/2023	Compressor Unit 1 Fuel Gas Skid	1) The Step Up for the four access points for the platform is 420mm and therefore the AS requirements state at least 1 step be provided for safe access.	C. Unlikely	2. Minor	Low	1) Install a stair with hi vis (yellow) tread on the nosing, at each access point to to enable safe access and compliance with the AS requirements.	 				
CS05-13	23/05/2023	Compressor Unit 1 Washdown Waste Tank	1) The existing stairs are not sufficiently sized to provide easy access to the inspection hatch. This will encourage personnel to over-reach to utilise the hatches.	C. Unlikely	3. Severe	Medium	1) Replace the stairs with purpose fit and AS compliant platform and access stairs.					
CS05-14	21/06/2023	Unit 1 Air Inlet System - Bottom Platform	1) The landing for the ladder does not meet AS1657 requirements of 900mm. 2) The angle of the slope (58.40 degrees) exceeds AS1657 requirements of Min 20 degrees and Max 45 degrees. Calculation Notes: 3.8m Rise (height), 2.2m Run (length), 16 Runs (steps). 3) The steps nosing do not have no hi vis non-slip tread fitted and posings a slip/fall risk. 4) Handrail does not meet AS requirements by beginning within a max of 900mm of the landing. 5) Greater potential to fall if facing away from the stairs when descending.	C. Unlikely	3. Severe	Medium	1) Pour a new landing. 2) Install a new stairwell that complies with AS1657. The new stairwell will need to be installed with a different orientation to avoid head height hazards (e.g. cross beams). 3) Hi vis non-slip tread is also to be fitted to the nosing of each stair. 4) Modify the handrail to meet the AS requirements. 5) Install signage on both sides of the gate to instruct personnel to only descend the stairs whilst facing towards the stair. Check AS requirement for when the handrail can stop. Check AS requirement for the tread depth for this type of staircase. May differ.					
CS05-15	21/06/2023	Unit 1 Air Inlet System - Middle Platform	1) The steps nosing do not have no hi vis non-slip tread fitted and posings a slip/fall risk. 2) Handrail does not meet AS requirements by not extending the full length of the stairs.	B. Remote	2. Minor	Low	1) Hi vis non-slip tread is also to be fitted to the nosing of each stair. 2) Extend the handrail the full length of the stairs.	 				
CS05-16	21/06/2023	Unit 1 Air Inlet System - Middle Platform	1) ~230mm Gap between the structure and the handrail is not compliant with AS requirements (max 100mm). 2) No kick plate installed on the end of the grid mesh facing the ducting. This creates a slip/fall and dropped object risk.	B. Remote	2. Minor	Low	1) Modify the handrail to extend within 100mm of the structure. 2) Install a kick plate along the open edge of the grid mesh.					

Reference	Date added	Location on Site	Issue	Likelihood	Consequence	Risk Score	Suggestions	Evidence	What is being completed	Date planned for completion	Date completed	Comments
CS05-17	21/06/2023	Unit 1 Air Inlet System - Top Platform	1) The landing for the ladder does not meet AS1657 requirements of 900mm. 2) The steps are small in size (~110mm), have no hi vis non-slip tread fitted, do not meet AS1657 requirements and posings a slip/fall risk. 3) Handrail does not meet AS requirements by not extending the full length of the stairs.	C. Unlikely	3. Severe	Medium	1) Modify the platform to provide adequate landing or modify the access method. 2) Ensure the new stairwell has suitably sized steps or a access ladder that meet AS1657 requirements. Hi vis non-slip tread is also to be fitted to the nosing of each stair. 3) Extend the handrail the full length of the stairs.					
CS05-18	21/06/2023	Unit 1 Air Inlet System - Exhaust System Platform	1) The landing for the ladder does not meet AS1657 requirements of 900mm.	B. Remote	2. Minor	Low	1) Pour a new landing.					
CS05-19	21/06/2023	Unit 1 - Access Doors (Multiple)	1) The landing for the stairs does not meet AS1657 requirements of 900mm (actual 400mm). 2) No hi vis (yellow) tread installed onto the nosing of each stair.	C. Unlikely	2. Minor	Low	1) Pour a new landing. 2) Install hi vis (yellow) tread onto the nosing of each stair.	 				
CS05-20	21/06/2023	Unit 1 - Mainline Pipework Platform	1) No hi vis (yellow) tread installed onto the nosing of each stair.	C. Unlikely	2. Minor	Low	1) Install hi vis (yellow) tread onto the nosing of each stair.					
CS05-21	21/06/2023	Unit 1 - Mainline Pipework Valves / Bettic Equipment Platforms (2)	1) Chain has been used in lieu of a handrail at the top of the platform, adjacent to the Bettic Equipment or Valves Chain will break in the event of a fall and therefore will not meet AS 1657 requirements for guardrails. 2) No hi vis (yellow) tread installed onto each ladder rung.	C. Unlikely	3. Severe	Medium	1) Replace the chain with a handrail that meets AS 1657 requirement. 2) Hi vis (yellow) non-slip tread to be installed on the ladder rungs.					
CS05-22	21/06/2023	Unit 1 - Utility Gas Skid	1) The landing for the stairs does not meet AS1657 requirements of 900mm. 2) No hi vis (yellow) tread installed onto the nosing of each stair. 3) The Step Up for the two access points for the platform is 410mm and therefore the AS requirements state at least 1 step be provided for safe access.	C. Unlikely	2. Minor	Low	1) Pour a new landing. 2) Install hi vis (yellow) tread onto the nosing of each stair. 3) Install a stair with hi vis (yellow) tread on the nosing, at each access point to to enable safe access and compliance with the AS requirements.	 				
CS05-23	21/06/2023	Unit 1 - Inflow Gas Pipework - Platform	1) The landing for the ladder does not meet AS1657 requirements of 900mm (actual 400mm). 2) No hi vis (yellow) tread installed onto each ladder rung.	C. Unlikely	2. Minor	Low	1) Pour a new landing. 2) Hi vis (yellow) non-slip tread to be installed on the ladder rungs.					

Reference	Date added	Location on Site	Issue	Likelihood	Consequence	Risk Score	Suggestions	Evidence	What is being completed	Date planned for completion	Date completed	Comments
CS05-24	21/06/2023	Unit 1 - Suction Scrubber	1) The gap (450-500mm) between the handrail and structure exceeds the AS requirement (max 100mm). Note: The pipework reduces the potential to fall through the identified gaps, to ground level. 2) The ladder rungs do not have hi vis (yellow) tread installed.	C. Unlikely	2. Minor	Low	1) Consider modifying the handrail to eliminate or reduce the gap to meet the AS requirement. 2) Install hi vis (yellow) tread to all ladder rungs and the nosing of the platform / top rung.	 				
CS05-25	21/06/2023	Unit 1 - Fuel Gas Skid	1) The landing for the stairs does not meet AS1657 requirements of 900mm. 2) No hi vis (yellow) tread installed onto the nosing of each stair and the edge of each access point for the skid. 3) The Step Up for the two access points for the platform is 410mm and therefore the AS requirements state at least 1 step be provided for safe access.	C. Unlikely	2. Minor	Low	1) Pour a new landing. 2) Install hi vis (yellow) tread onto the nosing of each stair and access points for the skid. 3) Install a stair with hi vis (yellow) tread on the nosing, at each access point to to enable safe access and compliance with the AS requirements.	 				
CS05-26	21/06/2023	Unit 2 - Multiple locations	Identical findings as Unit 1.				Identical recommendations as Unit 1.					
CS05-27	21/06/2023	Multiple Stairs Over Pipework	1) The landing for the stairs does not meet AS1657 requirements of 900mm (actual 400mm or landing is blue metal). 2) No hi vis (yellow) tread installed onto the nosing of each stair.	C. Unlikely	2. Minor	Low	1) Pour a new landing. 2) Install hi vis (yellow) tread onto the nosing of each stair.	 				
CS05-28	21/06/2023	Hazardous Substance Area	1) The landing for the stairs does not meet AS1657 requirements of 900mm (landing is blue metal). 2) No hi vis (yellow) tread installed onto the nosing of each stair.	C. Unlikely	2. Minor	Low	1) Pour a new landing. 2) Install hi vis (yellow) tread onto the nosing of each stair.					
CS05-29	21/06/2023	Confined Space - Access Ladder (West Side of Plant)	1) Ladder does not extend 1m past the landing at the top of the ladder and does not have sufficient locations to hold onto when mounting / dismounting. 2) No non-slip tread on ladder rungs.	B. Remote	3. Severe	Medium	1) Modify or replace the ladder, ensuring it extends 1m past the top landing, with sufficient locations to hold onto when mounting / dismounting the ladder. 2) Modified or replacement ladder to have hi vis (yellow) non-slip tread installed on the rungs.	 				
CS05-30	8/08/2023	Aftercooler Fans 1-6 - Middle Platform	1) The landing for the stairs does not meet AS1657 requirements of 900mm.	C. Unlikely	2. Minor	Low	1) Pour a new landing.	 				

Reference	Date added	Location on Site	Issue	Likelihood	Consequence	Risk Score	Suggestions	Evidence	What is being completed	Date planned for completion	Date completed	Comments
CS05-31	8/08/2023	Aftercooler Fans 1-6 - Top Platform - Top Access Way	1) Stairs do not have hi vis (yellow) tread installed onto the nosing of each stair. 2) Open edge adjacent to each set of stairs, running along the platform. This exposes personnel to a fall into the access way.	C. Unlikely	3. Severe	Medium	1) Install hi vis (yellow) tread onto the nosing of each stair. 2) Install handrail along the open edge of the access way, on the top platform.	 				
CS05-32	8/08/2023	Aftercooler Fans 1-6 - Top Platform - Top Platform	1) The top platforms have several areas without handrails installed to prevent access to open edges. This creates the potential for a person to fall from height resulting in a fatality or significant injury due to the total fall distance. 2) Handrails between the fans does not have bottom rail / mount is 600mm from the bottom of platform, this exceed AS1657 requirements of 450mm. No toeboard in place. Potential for personnel to climb under.	C. Unlikely	3. Severe	High	1) Install handrails to eliminate exposure to a unprotected edge. 2) Install toeboard underneath the existing handrails.	 				
CS05-33	8/08/2023	Aftercooler Fans 7-9 - Ladder to Top Platform	1) Step up from the landing to the first ladder rung is 460mm. This exceeds the AS1657 requirements (<=150mm).	C. Unlikely	2. Minor	Low	1) Modify the ladder to ensure it runs full length and risers meet AS requirements.					
CS05-34	8/08/2023	Aftercooler Fans 7-9 - Top Platform	1) Handrails between the fans does not have bottom rail / mount is 580mm from the bottom of platform, this exceed AS1657 requirements of 450mm. No toeboard in place. Potential for personnel to climb under. 2) No guarding has been installed on the top of the fan enclosures, to prevent access during operation. Multiple fans at this location.	C. Unlikely	3. Severe	High	1) Install toeboard underneath the existing handrails. 2) Install a grid mesh hatch or similar and attach it to the existing structure.	 				
CS05-35	7/02/2023	Unit 2 - Lower Access Stairs for First Platform (Crane)	1) No hi vis (yellow) tread installed onto the nosing of stairs (width 550mm). 2) No self closing gate installed at the top of the stairs. 3) Greater potential to fall if facing away from the stairs when descending. Note: Based on CS06 assessment.	D. Occasional	3. Severe	Medium	1) Install hi vis (yellow) tread onto the nosing of the stairs. 2) Install a self closing gate at the top of the stairs. 3) Install signage on both sides of the gate to instruct personnel to only descend the stairs whilst facing towards the stair.	No photos available. Refer to CS06.				
CS05-36	7/02/2023	Unit 2 - Access Stairs from Level 1 Platform (Rail Height) to Level 2 Walkway for Crane Access	1) Handrail does not provide adequate protection to prevent a fall over the stair's handrail. 2) No hi vis (yellow) tread installed onto the nosing of stairs. 3) No self closing gate installed at the top of the stairs. 4) Greater potential to fall if facing away from the stairs when descending. Note: Based on CS06 assessment.	D. Occasional	3. Severe	Medium	1) Install an additional handrail on both sides of the stair to provide protection against falling over handrail. 2) Install hi vis (yellow) tread onto the nosing of the stairs. 3) Install a self closing gate at the top of the stairs. 4) Install signage on both sides of the gate to instruct personnel to only descend the stairs whilst facing towards the stair.	No photos available. Refer to CS06.				

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CS05-37	7/02/2023	Unit 2 - Access Stairs for Level 1 (Rail Height) on Other Side of Crane Platform	1) Handrail does not provide adequate protection to prevent a fall over the stair's handrail. 2) No hi vis (yellow) tread installed onto the nosing of stairs. 3) No self closing gate installed at the top of the stairs. 4) Greater potential to fall if facing away from the stairs when descending. Note: Based on CS06 assessment.	D. Occasional	3. Severe	Medium	1) Install an additional handrail on both sides of the stair to provide protection against falling over handrail. 2) Install hi vis (yellow) tread onto the nosing of the stairs. 3) Install a self closing gate at the top of the stairs. 4) Install signage on both sides of the gate to instruct personnel to only descend the stairs whilst facing towards the stair.	No photos available. Refer to CS06.				
CS05-38	7/02/2023	Unit 2 - Access to Crane Platform (Level 2)	1) Chain has been used in lieu of a self closing gate at the top of the ladder on the portable platform. The chain will break in the event of a fall and therefore will not meet AS 1657 requirements for guardrails. 2) Gap the walkway platform and crane platform is 500mm, exposing personnel to a fall of ~7m. 3) No hi vis (yellow) tread installed onto the nosing of platform (open edge). Note: Based on CS06 assessment.	C. Unlikely	4. Major	High	1) Modify both platforms so the chain can be replaced with a self closing gate or equivalent that meets AS1657 requirements. 2.1) Modify the design to reduce the gap to ALARP (100mm gap between handrails is acceptable under AS1657). 2.2) Determine if FIPS and anchor points are required after the design review has been completed. This is when personnel are moving between platforms. 3) Install hi vis (yellow) tread on the nosing of the platform (open edge).	No photos available. Refer to CS06.				

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CS06-1	2/02/2023	**Example** - Lube oil cooler unit 1	1) Landing does not meet AS requirement of 900mm 2) Stair treads too narrow and no non-slip				1.1) Remove old landing and install new precast one 1.2) Pour new landing 2.1) Replace ladder with new treads and non-slip		Replace ladder and landing. Pour new landing			
CS06-1	29/08/2023	Water Treatment Plant - Pit Inside Building	1) Poor access / egress from ladder. 2) The foot of the ladder does not rest on or terminate above the landing. There is also no clear handgrips to assist the person when mounting and dismounting the ladder. Therefore it does not meet AS 1657 requirements. 3) No non-slip tread on ladder rungs. Note: This inspection pit is considerably smaller than some other Compressor Stations.	C. Unlikely	3. Severe	Medium	1) Consider the position of the ladder when being redesigned, to allow for safe access / egress. 2) Redesign the ladder and hand grips to provide suitable access and meet AS1657 requirements. 3) Replacement ladder to have hi vis (yellow) non-slip tread installed on the rungs.	 				
CS06-2	29/08/2023	Unit 1 - Exhaust Stack Platform	1) The ladder does not meet AS requirements, including the ladder does run full length to the landing and the step up is 3400mm (AS <=150mm). 2) Gap between the handrail and structure (130mm) and does not meet AS requirements (max 100mm). Note: Comment only given the small difference above the AS requirement.	C. Unlikely	3. Severe	Medium	1.1) Install a landing that meets AS requirements. 1.2) Modify the ladder so its runs to the new landing and the first step up meets AS requirements. 2) No action required.	 				
CS06-3	29/08/2023	Compressor Unit 1 Oil Cooler Fans - Access Stairs	1) The landing for the stairs does not meet AS1657 requirements of 600mm minimum. 2) The length of the handrail when compared to the full length of the stairs and landing, is not compliant with the AS requirements. The current design also increases the potential of being unable to arrest a slip / fall. 3) No hi vis (yellow) tread installed onto each stair. 4) 1 x step identified with a bow in it.	C. Unlikely	3. Severe	Medium	1) Pour a new landing. 2) Modify the handrail to run the full length of the stairs. 3) Install hi vis (yellow) tread onto each stair. 4) Repair or replace the damaged step.					
CS06-4	29/08/2023	Compressor Unit 1 Oil Cooler Fans - Platform	1) The existing handrail does not extend around the outside of the fan enclosure on other side. This creates the risk of a fall of ~1.9m.	C. Unlikely	3. Severe	Medium	1) Install additional handrails and supporting structure around both fan enclosures.					
CS06-5	29/08/2023	Steps / Landings For Tank (Removed)	1) Redundant Steps / Landings for a Tank that has since been removed. They pose a trip hazard to personnel walking through this area.	B. Remote	2. Minor	Low	1) Remove the redundant steps / landings.					
CS06-6	29/08/2023	Platform for Piping to Unit 1	1.1) The landing for the ladder does not meet AS1657 requirements of 600mm minimum. 1.2) Small bore piping and concrete landing poses a trip hazard for personnel using the ladder.	C. Unlikely	3. Severe	Medium	1) Option A: Reroute the piping so that it does not pose a risk to personnel accessing the ladder. Option B: Modify the platform so the potential for interaction with the small bore piping is eliminated.	 				

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CS06-7	29/08/2023	Unit 1 Suction Scrubber	1) The gap between the handrail and structure exceeds the AS requirement (max 100mm, actual 370mm).	B. Remote	2. Minor	Low	1) Consider modifying the handrail to eliminate or reduce the gap to meet the AS requirement.	 				
CS06-8	29/08/2023	Unit 1 Fuel Gas Skid	1) The landing for the ladder does not meet AS1657 requirements of 600mm minimum.	C. Unlikely	2. Minor	Low	1) Extend the landing.					
CS06-9	29/08/2023	Unit 1 Pressure Reduction Skid	1) Landing and step up / down is impacted by a existing pipework. Therefore the AS requirements are not being met and a trip hazard is present. 2) No hi vis (yellow) strip on the nosing (ends) of the grid mesh platform.	B. Remote	2. Minor	Low	1) Install a step and platform over the pipework, that meet AS requirements (e.g. hi vis nosing, step riser height). 2) Install hi vis (yellow) non-slip strip on the nosing of the skid's access point.					
CS06-10	29/08/2023	GEA 3	1) No hi vis (yellow) tread installed onto the nosing of each stair. 2) Landing for the doors on one side of the GEA does not meet AS1657 requirements of 600mm minimum.	C. Unlikely	3. Severe	Medium	1) Install hi vis (yellow) tread onto the nosing of each stair. 2) Extend the landing.	 				
CS06-11	29/08/2023	GEA 3 After Cooler Fans	1) No hi vis (yellow) tread installed onto the ladder rungs.	C. Unlikely	2. Minor	Low	1) Install hi vis (yellow) tread onto the ladder rungs.					
CS06-12	29/08/2023	GEA 1 (Modra 06-01)	1) Landing for the doors on one side of the GEA does not meet AS1657 requirements of 600mm minimum.	C. Unlikely	3. Severe	Medium	1) Extend the landing.					
CS06-13	29/08/2023	GEA 1 (Modra 06-01) - After Cooler Fans	1) No hi vis (yellow) tread installed onto each ladder rung. This applies to both the portable platform's ladder and the fixed ladder. 2) Chain has been used in lieu of a self closing gate at the top of the ladder on the portable platform. The chain will break in the event of a fall and therefore will not meet AS 1657 requirements for guardrails.	C. Unlikely	4. Major	High	1) Install hi vis (yellow) tread onto each ladder rung. This applies to both the portable platform's ladder and the fixed ladder. 2) Modify the platform so the chain can be replaced with a self closing gate.	 				

Reference	Date added	Location on Site	Issue	Likelihood	Consequence	Risk Score	Suggestions	Evidence	What is being completed	Date planned for completion	Date completed	Comments
CS06-14	29/08/2023	GEA 2 (Modra 06-02)	1) Landing for the doors on one side of the GEA does not meet AS1657 requirements of 600mm minimum. 2) The landing for the doors on one side of the GEA have a section of small bore piping that poses a trip hazard.	C. Unlikely	3. Severe	Medium	1) Extend the landing. 2) Option A: Reroute the piping to outside of the walkway. Option B: Install a step over it to eliminate potential interaction with the piping at the access door. Spray paint (yellow) the remaining section of pipe to highlight the hazard.	 				
CS06-15	29/08/2023	GEA 2 (Modra 06-02) - After Cooler Fans	1) No hi vis (yellow) tread installed onto the ladder rungs. 2) The landing for the ladder does not meet AS1657 requirements of 600mm minimum.	C. Unlikely	2. Minor	Low	1) Install hi vis (yellow) tread onto the ladder rungs. 2) Extend the landing.					
CS06-16	29/08/2023	DEA Substation	1) No hi vis (yellow) tread installed onto the nosing of each stair.	C. Unlikely	2. Minor	Low	1) Install hi vis (yellow) tread onto the nosing of each stair.					
CS06-17	29/08/2023	Unit 2 Access Stairs	1) No hi vis (yellow) tread installed onto the nosing of each stair.	C. Unlikely	2. Minor	Low	1) Install hi vis (yellow) tread onto the nosing of each stair.					
CS06-18	29/08/2023	Bettis Equipment Platform #1 - East of Unit 2 (closest to Unit 2)	1) No hi vis (yellow) tread installed onto the ladder rungs. 2) The landing for the ladder does not meet AS1657 requirements of 600mm minimum. 3) Open edge on one side of platform and exposes a person to a fall of ~1.6m	C. Unlikely	3. Severe	High	1) Install hi vis (yellow) tread onto the ladder rungs. 2) Extend the landing. 3) Install handrails and kick plate onto the open side of the platform.	 				
CS06-19	29/08/2023	Bettis Equipment Platform #2 - East of Unit 2	1) No hi vis (yellow) tread installed onto the ladder rungs. 2) The landing for the ladder does not meet AS1657 requirements of 600mm minimum. 3) Open edge on one side of platform and exposes a person to a fall of ~1.6m	C. Unlikely	3. Severe	High	1) Install hi vis (yellow) tread onto the ladder rungs. 2) Extend the landing. 3) Modify the platform to allow personnel to access both sides of the equipment, whilst having edge protection in place. Ensure the new / modified platform meets AS1657 requirements.	 				

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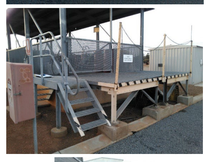
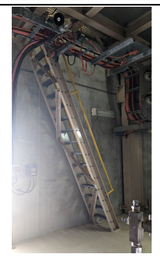
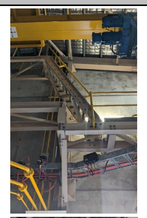
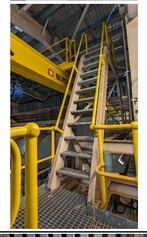
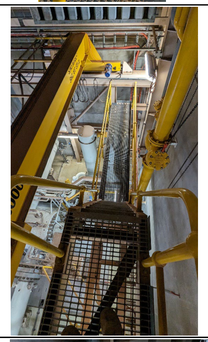
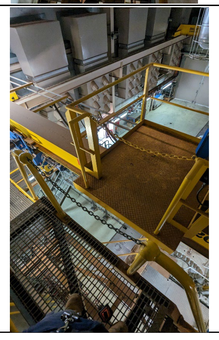
CS06-20	30/08/2023	Unit 2 Turbine Fuel Gas Skid	1) No hi vis (yellow) tread installed onto the nosing of each stair. 2) The landing on one side of the skid does not meet AS1657 requirements of 600mm minimum.	C. Unlikely	2. Minor	Low	1) Install hi vis (yellow) tread onto the nosing of each stair. 2) Extend the landing.	 				
CS06-21	30/08/2023	Middle Platform (Access Way) For After Cooler Fans	1) No hi vis (yellow) tread installed onto the ladder rungs. 2) The landing for the ladders (from ground to first platform) does not meet AS1657 requirements of 600mm minimum.	C. Unlikely	2. Minor	Low	1) Install hi vis (yellow) tread onto the ladder rungs. 2) Extend the landing.	 				
CS06-22	30/08/2023	Top Platform for each After Cooler Fan	1.1) There is no method for accessing this platform from the below walkway without climbing onto structural steel and being exposed to a fall. 1.2) Gap between the existing handrail and the structure on both sides of the platform. This poses a potential of a slip / trip. 2) No hi vis (yellow) tread installed onto the ladder rungs.	C. Unlikely	4. Major	High	1.1) Install signage to highlight the fall from height risk until a suitable means of access is installed. 1.2) Modify the platform to - allow for safe access to the top of the fans; - eliminate or reduce the gap between the existing handrail and floor / structure. 2) Install hi vis (yellow) tread onto the ladder rungs.	 				
CS06-23	30/08/2023	Unit 2 After Cooler Fans	1) No hi vis (yellow) tread installed onto the ladder rungs. 2) The landing for the ladders (from ground to first platform) does not meet AS1657 requirements of 600mm minimum. 3) The step up from the landing to the first ladder rung exceeds AS requirements. 4) There is no method for accessing the top of the after cooler fans without climbing onto structural steel and being exposed to a fall.	C. Unlikely	4. Major	High	1) Install hi vis (yellow) tread onto the ladder rungs. 2) Extend the landing. 3) Modify the ladder or install a intermediate step to ensure the step up distances in AS1657 are met. 4) Consider installing a platform to enable access to the top of the after cooler fans.	 				
CS06-24	30/08/2023	Mobile Scaffold - Inside of Unit 2 After Cooler Fans Enclosure	1) No hi vis (yellow) tread installed onto the ladder rungs. 2) No handrail and self closing gate around the ladder opening. 3) The mid rail on one side of the mobilise scaffold is missing.	C. Unlikely	3. Severe	Medium	1) Install hi vis (yellow) tread onto the ladder rungs. 2) Install handrail and self closing gate (or equivalent) around the ladder opening. 3) Install a mid rail on the missing side of the mobile scaffold.					

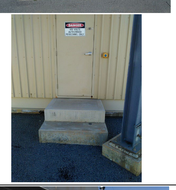
Reference	Date added	Location on Site	Issue	Likelihood	Consequence	Risk Score	Suggestions	Evidence	What is being completed	Date planned for completion	Date completed	Comments
CS06-25	30/08/2023	Unit 2 Access Stairs	1) No hi vis (yellow) tread installed onto the nosing of each stair.	C. Unlikely	2. Minor	Low	1) Install hi vis (yellow) tread onto the nosing of each stair.					
CS06-26	30/08/2023	Dangerous Good Storage Shed - Access Road Side	Stairs - Closest to Access Road 1) The landing is obstructed from the kerb which is a curved surface. This poses a trip hazard and the landing does not meet AS1657 requirements of 600mm minimum. 2) The stairs do not run the full length to the landing as it is obstructed by concrete support and kerbing. The landing does not meet AS1657 requirements of 600mm minimum. 3) No hi vis (yellow) tread installed onto the nosing of the stairs. Stairs - Furthest from Access Road 4) The stairs do not run the full length to the landing. 5) The landing does not meet AS1657 requirements of 600mm minimum. 6) No hi vis (yellow) tread installed onto the nosing of the stairs. Platform 7) Chain has been used in lieu of a self closing gate at the top of the ladder on	C. Unlikely	3. Severe	Medium	1) Redesign and orientate the stairs to run parallel with the road. 2) Pour a new landing for the new stairs. Remove the redundant landing. 3) Install hi vis (yellow) tread onto the nosing of the stairs. 4) As per action #1 and #2. 5) As per action #1 and #2. 6) As per action #3. 7) Modify the platform so the chain can be replaced with handrails and/or self closing gate. The gate will need to support the loading and unloading of drums / etc. onto the platform.	  				
CS06-27	30/08/2023	Dangerous Good Storage Shed - Fencing Side	1) Only 1 handrail has been installed and no kick plate has been installed. This provides potential to climb through.	B. Remote	3. Severe	Low	1) Install kick plate and handrail. If access is required then install a self closing gate on one side.					
CS06-28	30/08/2023	Substation near Unit 3	1) No hi vis (yellow) tread installed onto the nosing of the stairs.	C. Unlikely	2. Minor	Low	1) Install hi vis (yellow) tread onto the nosing of the stairs.	  				
CS06-29	30/08/2023	Desiccant Dryers x 2	1) The landing (260mm) does not meet AS requirement of 600mm (Depth). 2) No hi vis (yellow) tread installed on the nosing of the platform. 3) Cable tray adjacent to step up is a trip hazard.	B. Remote	2. Minor	Low	1) Remove old landing and pour a new landing. 2) Install hi vis (yellow) tread onto the nosing of the two access points. 3.1) Relocate the cable tray to eliminate the trip hazard if practically possible. 3.2) If the cable tray can not be relocated then place a step over it to protect it or apply hi vis tape to highlight the hazard.	 				

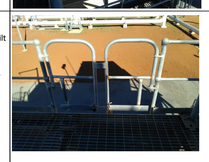
Reference	Date added	Location on Site	Issue	Likelihood	Consequence	Risk Score	Suggestions	Evidence	What is being completed	Date planned for completion	Date completed	Comments
CS06-30	30/08/2023	Unit 3 - Multiple Access Stairs	1) No hi vis (yellow) tread installed onto the nosing of the stairs.	C. Unlikely	2. Minor	Low	1) Install hi vis (yellow) tread onto the nosing of the stairs.	 				
CS06-31	30/08/2023	Multiple Access Stairs For Hoping Over Piping (e.g. near Unit 3, After Cooler Fans)	1) No hi vis (yellow) tread installed onto the nosing of the stairs.	C. Unlikely	2. Minor	Low	1) Install hi vis (yellow) tread onto the nosing of the stairs.	  				
CS06-32	6/10/2023	2 x Bettis Equipment / Actuated Valves Near Unit 3	1) No hi vis (yellow) tread installed onto the ladder rungs. 2) The landings for one of the ladders does not meet AS1657 requirements of 600mm depth minimum. 3) Open edge on one side of platform and exposes a person to a fall of ~1.6m	C. Unlikely	3. Severe	High	1) Install hi vis (yellow) tread onto the ladder rungs. 2) Extend the landing. 3) Modify the platform to allow personnel to access both sides of the equipment, whilst having edge protection in place. Ensure the new / modified platform meets AS1657 requirements.	 				
CS06-33	6/10/2023	Unit 3 Turbine Fuel Gas Skid	1) No hi vis (yellow) tread installed onto the nosing of each stair. 2) The landing on one side of the skid does not meet AS1657 requirements of 600mm minimum.	C. Unlikely	2. Minor	Low	1) Install hi vis (yellow) tread onto the nosing of each stair. 2) Extend the landing.	 				

Reference	Date added	Location on Site	Issue	Likelihood	Consequence	Risk Score	Suggestions	Evidence	What is being completed	Date planned for completion	Date completed	Comments
CS06-34	6/10/2023	Bettis Equipment / Actuated Valve Near After Coolers	1) No hi vis (yellow) tread installed onto the ladder rungs. 2) The landing for the ladder does not meet AS1657 requirements of 600mm depth minimum. 3) Open edge on one side of platform and exposes a person to a fall,	C. Unlikely	3. Severe	High	1) Install hi vis (yellow) tread onto the ladder rungs. 2) Extend the landing. 3) Modify the platform to allow personnel to access both sides of the equipment, whilst having edge protection in place. Ensure the new / modified platform meets AS1657 requirements.	 				
CS06-35	6/10/2023	Diesel Fuel Tank / Bowser	1.1) Handrail does not meet AS requirement of 900mm. 2) No gate at the top of the work platform. 3) Landing does not meet AS requirements. Obstructed by bunding. 4) No platform to access for the purpose of conducting dip stick tests on the oppsite end of the tank.	D. Occasional	3. Severe	Medium	1) Replace the access ladder and platform with access stairs and platform, with handrails and hi vis tread. 2) Self closing gate to be installed at the top of the platform. 3) Ensure the landing on the redesigned access stairs and platform meet the AS requirements. Modifying the bund if required. 4) Install a platform to enable access for dip stick tests.	 				
CS06-36	6/10/2023	Combustible Liquid Tank Near Unit 3	1) Access stairs do not provide safe access to the 2 x hatches. Currently personnel have to over-reach.	D. Occasional	2. Minor	Low	1) Remove the existing access stairs and install with AS compliant stairs, platform and landing.					
CS06-37	7/02/2023	Unit 2 - Lower Access Stairs for First Platform (Crane)	1) No hi vis (yellow) tread installed onto the nosing of stairs (width 550mm). 2) No self closing gate installed at the top of the stairs. 3) Greater potential to fall if facing away from the stairs when descending. Note: Reported by Craig Hastie.	D. Occasional	3. Severe	Medium	1) Install hi vis (yellow) tread onto the nosing of the stairs. 2) Install a self closing gate at the top of the stairs. 3) Install signage on both sides of the gate to instruct personnel to only descend the stairs whilst facing towards the stair.	 				

Reference	Date added	Location on Site	Issue	Likelihood	Consequence	Risk Score	Suggestions	Evidence	What is being completed	Date planned for completion	Date completed	Comments
CS06-38	7/02/2023	Unit 2 - Access Stairs from Level 1 Platform (Rail Height) to Level 2 Walkway for Crane Access	1) Handrail does not provide adequate protection to prevent a fall over the stair's handrail. 2) No hi vis (yellow) tread installed onto the nosing of stairs. 3) No self closing gate installed at the top of the stairs. 4) Greater potential to fall if facing away from the stairs when descending. Note: Reported by Craig Hastie.	D. Occasional	3. Severe	Medium	1) Install an additional handrail on both sides of the stair to provide protection against falling over handrail. 2) Install hi vis (yellow) tread onto the nosing of the stairs. 3) Install a self closing gate at the top of the stairs. 4) Install signage on both sides of the gate to instruct personnel to only descend the stairs whilst facing towards the stair.	 				
CS06-39	7/02/2023	Unit 2 - Access Stairs for Level 1 (Rail Height) on Other Side of Crane Platform	1) Handrail does not provide adequate protection to prevent a fall over the stair's handrail. 2) No hi vis (yellow) tread installed onto the nosing of stairs. 3) No self closing gate installed at the top of the stairs. 4) Greater potential to fall if facing away from the stairs when descending. Note: Reported by Craig Hastie.	D. Occasional	3. Severe	Medium	1) Install an additional handrail on both sides of the stair to provide protection against falling over handrail. 2) Install hi vis (yellow) tread onto the nosing of the stairs. 3) Install a self closing gate at the top of the stairs. 4) Install signage on both sides of the gate to instruct personnel to only descend the stairs whilst facing towards the stair.					
CS06-40	7/02/2023	Unit 2 - Access to Crane Platform (Level 2)	1) Chain has been used in lieu of a self closing gate at the top of the ladder on the portable platform. The chain will break in the event of a fall and therefore will not meet AS 1657 requirements for guardrails. 2) Gap the walkway platform and crane platform is 500mm, exposing personnel to a fall of ~7m. 3) No hi vis (yellow) tread installed onto the nosing of platform (open edge). Note: Reported by Craig Hastie.	C. Unlikely	4. Major	High	1) Modify both platforms so the chain can be replaced with a self closing gate or equivalent that meets AS1657 requirements. 2.1) Modify the design to reduce the gap to ALARP (100mm gap between handrails is acceptable under AS1657). 2.2) Determine if FIPS and anchor points are required after the design review has been completed. This is when personnel are moving between platforms. 3) Install hi vis (yellow) tread on the nosing of the platform (open edge).					

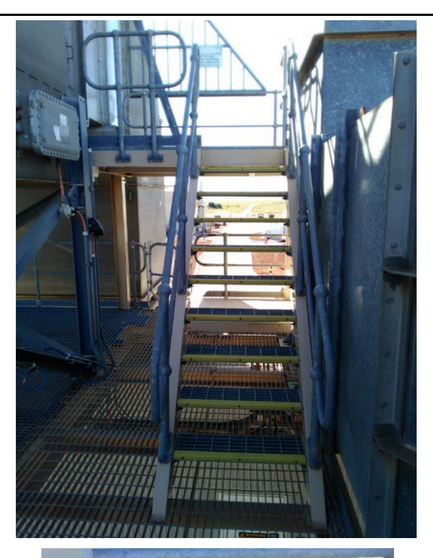
Reference	Date added	Location on Site	Issue	Likelihood	Consequence	Risk Score	Suggestions	Evidence	What is being completed	Date planned for completion	Date completed	Comments

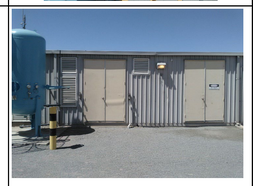
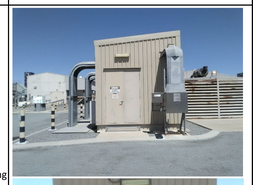
Reference	Date added	Location on Site	Issue	Likelihood	Consequence	Risk Score	Suggestions	Evidence	What is being completed	Date planned for completion	Date completed
CS07-1	2/02/2023	Example - Lube oil cooler unit 1	1) Landing does not meet AS requirement of 900mm 2) Stair treads too narrow and no non-slip				1.1) Remove old landing and install new precast one 1.2) Pour new landing 2.1) Replace ladder with new treads and non-slip		Replace ladder and landing. Pour new landing		
CS07-1	2/11/2023	Water Treatment Plant - Access Door and Pit Inside Building	1) Poor access / egress from ladder. 2) The foot of the ladder does not rest on or terminate above the landing. There is also no clear handgrips to assist the person when mounting and dismounting the ladder. Therefore it does not meet AS 1657 requirements. 3) No non-slip tread on ladder rungs. 4) The steps to the access door has anti-slip tape previously installed but this shows signs of excessive wear.	C. Unlikely	3. Severe	Medium	1) Consider the position of the ladder when being redesigned, to allow for safe access / egress. 2) Redesign the ladder and hand grips to provide suitable access and meet AS1657 requirements. 3) Replacement ladder to have hi vis (yellow) non-slip tread installed on the rungs. 4) Re-install the anti-slip tape if warranted.	  			
CS07-2	2/11/2023	Laundry - Demountable Building	1) Landing is gravel and can be slippery under your foot. 2) Stair risers are inconsistent and do not meet AS 1657 requirements.	C. Unlikely	2. Minor	Low	1) Install a landing that meets AS requirements. 2) Replace the stairs with AS compliant stairs.				
CS07-3	2/11/2023	Primary Switch Room (next to Control Room)	1) North and South side's stair dimensions are not consistent and do not meet AS 1657 requirements. 2) The landing for the south side stairs is partially obstructed by structural beam and concrete landing.	C. Unlikely	2. Minor	Low	1) Replace both the north and south stairs with AS compliant stairs. 2) Consider using hi vis paint to highlight the hazard.	 			
CS07-4	2/11/2023	GEA 3 - All access doors	1) No hi vis (yellow) tread installed onto each stair.	C. Unlikely	2. Minor	Low	1) Install hi vis (yellow) tread onto each stair.	 			
CS07-5	2/11/2023	GEA 3 - Platform on South Side	1) Identified the potential for personnel to have to over-reach or use a safety when refilling the oil from the top platform. This exposes personnel to a potential fall. 2) No hi vis (yellow) tread installed onto each ladder rung. 3) The first ladder rung is 290mm above the landing. This exceeds the AS1657 requirement of <=150mm.	C. Unlikely	3. Severe	Medium	1) In consultation with FMO, redesign the platform to allow access to refill the oil. 2) Install hi vis (yellow) tread onto each ladder rung. 3) Modify or replace the ladder to ensure it meets the AS requirements (including step up from landing to the first ladder rung).	 			
CS07-6	2/11/2023	GEA 4 - All access doors	1) No hi vis (yellow) tread installed onto each stair. 2) The landing for some stairs does not meet AS 1657 requirements.	C. Unlikely	2. Minor	Low	1) Install hi vis (yellow) tread onto each stair. 2) Extend the landing for stairs where the existing landing does not meet AS 1657.	  			
CS07-7	2/11/2023	GEA 4 - Platform on West Side	1) Identified the potential for personnel to have to over-reach or use a safety when refilling the oil from the top platform. This exposes personnel to a potential fall. 2) No hi vis (yellow) tread installed onto each ladder rung. 3) The first ladder rung is 290mm above the landing. This exceeds the AS1657 requirement of <=150mm.	C. Unlikely	3. Severe	Medium	1) In consultation with FMO, redesign the platform to allow access to refill the oil. 2) Install hi vis (yellow) tread onto each ladder rung. 3) Modify or replace the ladder to ensure it meets the AS requirements (including step up from landing to the first ladder rung).	 			
CS07-8	2/11/2023	Load Bank 3	1) No hi vis (yellow) tread installed onto each stair. 2) The landing for some stairs does not meet AS 1657 requirements. 3) No handrair has been installed on the right handside of stairs. Potential of a fall of 650mm.	C. Unlikely	3. Severe	Medium	1) Install hi vis (yellow) tread onto each stair. 2) Extend the landing for stairs where the existing landing does not meet AS 1657. 3) Install the missing handrail for the access tairs.	 			
CS07-9	2/11/2023	GEA 1 - All access doors	1) No hi vis (yellow) tread installed onto each stair. 2) The landing for some stairs does not meet AS 1657 requirements.	C. Unlikely	2. Minor	Low	1) Install hi vis (yellow) tread onto each stair. 2) Extend the landing for stairs where the existing landing does not meet AS 1657.	 			
CS07-10	2/11/2023	UPS Room	1) Landing is gravel and can be slippery under your foot. 2) The landing for the north access door is off centred and has sloping sides for the middle step.	C. Unlikely	3. Severe	Medium	1) Install a landing that meets AS requirements. 2) Recommend replacing the stairs and modify the kerbing (if required) to ensure safe access and compliance with AS 1657. Consider the need for handrails.	 			

CS07-11	2/11/2023	GEA 2 - West Access Doors	1) The access stairs and top landing do not have handrails as required by AS 1657. 2) Ground used as landing. This has potential to be detoriated by weather conditions and be slippery. 3) No hi vis (yellow) anti-slip tread installed on the nosing of the stairs. *Note: Potential for a fall of 980mm.*	C. Unlikely	3. Severe	Medium	1) Install handrails for the access stairs. 2) Ensure hi vis (yellow) anti-slip tread is installed on the nosing of all stairs (width 1680mm / 2 x 960mm). 3) Consider pouring a landing that meets AS requirements.				
CS07-12	2/11/2023	GEA 2 - South Access Doors	1) The access stairs and top landing do not have handrails installed as required by AS 1657. 2) Ground used as landing. This has potential to be detoriated by weather conditions and be slippery. 3) No hi vis (yellow) anti-slip tread installed on the nosing of the stairs. *Note: Potential for a fall of 1110mm.*	D. Occasional	3. Severe	Medium	1) Install handrails for the access stairs. 2) Ensure hi vis (yellow) anti-slip tread is installed on the nosing of all stairs (width 2800mm / 2 x 1400mm). 3) Consider pouring a landing that meets AS requirements.				
CS07-13	2/11/2023	GEA 2 - East Access Door	1) The access stairs do not meet AS 1657 requirements, including no handrails available and the stairs do not run to the landing. 2) Ground used as landing. This has potential to be detoriated by weather conditions and be slippery. 3) No hi vis (yellow) anti-slip tread installed on the nosing of the stairs. *Note: Potential for a fall of 920mm.*	D. Occasional	3. Severe	Medium	1) Install handrails for the access stairs. 2) Ensure hi vis (yellow) anti-slip tread is installed on the nosing of all stairs (width 800mm). 3) Consider pouring a landing that meets AS requirements.				
CS07-14	2/11/2023	Unit 2 - Access Ladders for Lowest Platforms	1) The landing for the two access ladders do not meet AS 1657 requirements. 2) No hi vis (yellow) tread installed on the ladder rungs.	C. Unlikely	2. Minor	Low	1) Pour a landing for each ladder that meets AS requirements. 2) Install hi vis (yellow) tread to all ladder rungs and the nosing of the platform / top rung.	 			
CS07-15	2/11/2023	Unit 2 - Lowest Platforms	1) Chain has been used in lieu of a handrail for two sides of this platform. Chain will break in the event of a fall. 2) There is no method for accessing this platform from the below walkway without climbing onto structural steel and being exposed to a fall. Additionally no top rail has been installed on the interior sides of the platform (closest side to the fans). 3) Gaps (~270mm) between the handrail for the walkaway and adjacent platform exceeds AS requirements (100mm max).	C. Unlikely	4. Major	High	1) Replace the chains with a handrail with a lockable gate for access. 2.1) Install signage to highlight the fall from height risk until a suitable means of access is installed. 2.2) Modify the platform to allow for safe access ladder or stairs from the adjacent walkway or ground level. 3) Modify the handrail to eliminate or reduce the gaps to below the AS requirements.	 			
CS07-16	2/11/2023	Unit 2 - Middle Platform (South Side)	1) When the existing gate is opened to allow mobile plant lifting loads onto/off the platform, it creates the potential for a person fall from height. A fall from this location would likely result in a fatality or significant injury.	C. Unlikely	4. Major	High	1.1) Recommend replacing the existing gate with a purpose built safety gate (i.e. UMZ18 Mezzanine Safety Gate). This type of gate eliminates the risk. It should be painted a hi vis colour (i.e. yellow) and have pinch point stickers or similar installed on the safety gate. 1.2) Install signage to highlight the fall from height risk until an alternative safety gate is installed.				
CS07-17	2/11/2023	Unit 2 - Middle Platform (North Side)	1) Self closing gate leads onto a section of roof with no edge protection in place. This exposes personnel on the roof, to a potential for a fall from height resulting in a fatality or significant injury.	C. Unlikely	4. Major	High	1.1) Install edge protection along the exposed edges of the roof. 1.2) Install signage to highlight the fall from height risk until edge protection is installed.				
CS07-18	2/11/2023	Unit 2 - Top Platform and Access to the Top of the Exhaust System	1) No access to the top of the exhaust system or the riser is provided.	B. Remote	3. Severe	Medium	1) Provide a work platform and access stairs / ladders, to allow safe access for maintenance tasks.	 			
CS07-19	2/11/2023	Unit 2 - Second From The Top Platform (East Side)	1) No hi vis (yellow) tread installed on the ladder rungs.	C. Unlikely	2. Minor	Low	1) Install hi vis (yellow) tread to all ladder rungs and the nosing of the platform / top rung.				
CS07-20	2/11/2023	Unit 2 - Second From The Top Platform (West Side)	1) Gap between the kickboard and the exhaust ducting is 410mm high and 2040mm wide. Potential for a person to fall if it was accessed.	B. Remote	3. Severe	Medium	1) Consider installing a handrail or similar, between the exhaust system and the kick plate.				
CS07-21	2/11/2023	Unit 2 - Second From The Top Platform (North Side)	1) No hi vis (yellow) tread installed on the ladder rungs.	C. Unlikely	2. Minor	Low	1) Install hi vis (yellow) tread to all ladder rungs and the nosing of the platform / top rung.				
CS07-22	2/11/2023	Unit 2 - Ground Level Access Doors	1) Lip at each of the doors pose a trip / slip hazard and is not easily identifiable. 2) Conduit in walkway poses a trip hazard.	D. Occasional	2. Minor	Low	1) Either remove the lip or extend the landing to meet AS 1657. 2) Consider rerouting the cable if possible. Alternatively consider painting it in hi vis yellow to make it easily identifiable.	  			
CS07-23	2/11/2023	Multiple Walkways over Pipework near Unit 2	1) Some access stairs landings are too small and/or pose a trip / slip hazard. 2) Some access stairs do not have hi vis (yellow) tread installed on the nosing of each stair.	D. Occasional	2. Minor	Low	1) Extend the landing for the required stairs. 2) Install hi vis (yellow) tread on the nosing on the stairs.	   			

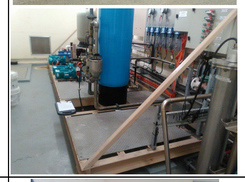
CS07-24	2/11/2023	Bettis Equipment Platforms	1) Chain has been used in lieu of a handrail at the top of the platform, adjacent to the Bettic Equipment or Valves Chain will break in the event of a fall and therefore will not meet AS 1657 requirements for guardrails. 2) No hi vis (yellow) tread installed onto each ladder rung.	C. Unlikely	3. Severe	Medium	1) Replace the chain with a handrail that meets AS 1657 requirement. 2) Hi vis (yellow) non-slip tread to be installed on the ladder rungs.				
CS07-25	2/11/2023	Platforms for Mainline Pipework / Valves	1) Open edge on one side of platform and exposes a person to a fall into or between pipework. Potential fall of 800mm.	C. Unlikely	3. Severe	Medium	1) Modify the platform to allow personnel to access the equipment, whilst having edge protection in place. Ensure the new / modified platform meets AS1657 requirements.	 			
CS07-26	27/11/2023	Equipment Room / Electrical Substation	1) No hi vis (yellow) tread installed onto the nosing of each stair.	D. Occasional	2. Minor	Low	1) Hi vis (yellow) non-slip tread to be installed on the nosing of each stair.	 			
CS07-27	27/11/2023	Desiccant Dryers x 2	1) The landing (310mm) does not meet AS requirement of 600mm (Depth). 2) No hi vis (yellow) tread installed on the nosing of the platform.	B. Remote	2. Minor	Low	1) Remove old landing and pour a new landing. 2) Install hi vis (yellow) tread onto the nosing of the two access points.				
CS07-28	27/11/2023	Unit 3 - Multiple Access Stairs and Platforms (Hop Ups)	1) No hi vis (yellow) tread installed onto the nosing of each stair. Note: Some stairs have existing hazard tape installed.	D. Occasional	2. Minor	Low	1) Hi vis (yellow) non-slip tread to be installed on the nosing of each stair.	   			
CS07-29	27/11/2023	Pipework on the South Side of Unit 3	1) Access to Risers and Vents for maintenance tasks currently completed using a platform ladder on blue metal. This creates the potential for the ladder to be unstable and cause a fall from height. Alternative personne may choose to sit on the pipe itself. *Note: Potential for a fall of 1.5-2.5m.*	C. Unlikely	3. Severe	Medium	1) Option A: Install concrete landing for platform ladder to be set up on. Option B: Install a purpose built platform and access stairs or ladder that is AS compliant.	 			
CS07-30	27/11/2023	Combustible Liquids Tank Near Unit 3	1) Access stairs do not provide safe access to the 2 x hatches. Currently personnel have to over-reach.	D. Occasional	2. Minor	Low	1) Remove the existing access stairs and install with AS compliant stairs, platform and landing.				
CS07-31	27/11/2023	Unit 3 - Fuel Gas Skid	1) Access to Risers and Vents for maintenance tasks currently completed using a platform ladder on blue metal. This creates the potential for the ladder to be unstable and cause a fall from height. Alternative personnel may choose to sit on the pipe itself. *Note: Potential for a fall of up to 3m.*	C. Unlikely	3. Severe	Medium	1) Option A: Install concrete landing for platform ladder to be set up on. Option B: Install a purpose built platform and access stairs or ladder that is AS compliant.				
CS07-32	27/11/2023	Platform for Vent / Riser near Unit 3	1) Existing design of the platform does not permit personnel to access the top vent without the use of a large platform ladder at ground level or using a safety step (or similar) on the platform. Both means of access exposes personnel of a fall ~3m.	C. Unlikely	3. Severe	Medium	1) Modify the platform and handrail to provide safe access to the top vent.				
CS07-33	5/12/2023	Aftercooler Fans 7-9 - Top Platform	1) Handrails between the fans does not have bottom rail / mount is 580mm from the bottom of platform, this exceed AS1657 requirements of 450mm. No toeboard in place. Potential for personnel to climb under. 2) No guarding has been installed on the top of the fan enclosures, to prevent access during operation. Multiple fans at this location.	C. Unlikely	3. Severe	High	1) Install toeboard underneath the existing handrails. 2) Install a grid mesh hatch or similar and attach it to the existing structure.	 			
CS07-34	5/12/2023	Aftercooler Fans 1-6 - Top Platform - Top Platform	1) The top platforms have several areas without handrails installed to prevent access to open edges. This creates the potential for a person to fall from height resulting in a fatality or significant injury due to the total fall distance. 2) Handrails between the fans does not have bottom rail / mount is 600mm from the bottom of platform, this exceed AS1657 requirements of 450mm. No toeboard in place. Potential for personnel to climb under.	C. Unlikely	3. Severe	High	1) Install handrails to eliminate exposure to a unprotected edge. 2) Install toeboard underneath the existing handrails.	 			
CS07-35	5/12/2023	Aftercooler Fans 1-6 - Top Platform - Middle Platform	1) No access to Riser on the East side of the Aftercool Fans 1-6. 2) No 'back scratcher' installed for personnel using the ladders to the top platform, on the West side.	C. Unlikely	3. Severe	High	1) Install platform or equivalent, to provide access to the Riser. 2) Install 'back scratchers' for all ladders on the West side.	 			
CS07-36	28/11/2023	Bettis Equipment	1) Chain has been used in lieu of a handrail at the top of the platform, adjacent to the Bettic Equipment or Valves Chain will break in the event of a fall and therefore will not meet AS 1657 requirements for guardrails.	C. Unlikely	3. Severe	Medium	1) Replace the chain with a handrail that meets AS 1657 requirement.				

CS07-37	28/11/2023	Vent on Pipework for Pigging	1) Access to Vens for maintenance tasks currently completed using a platform ladder on blue metal. This creates the potential for the ladder to be unstable and cause a fall from height. Alternative personnel may choose to sit on the pipe itself. *Note: Potential for a fall of ~3m.*	C. Unlikely	3. Severe	Medium	1) Option A: Install concrete landing for platform ladder to be set up on. Option B: Install a purpose built platform and access stairs or ladder that is AS compliant.				
CS07-38	5/12/2023	Confined Space - Access Ladder	1) Design of the ladder and hold points does not allow for easy access to / from and creates the potential for a fall. 2) No non-slip tread on ladder rungs.	B. Remote	3. Severe	Medium	1) Modify or replace the ladder, ensuring it extends 1m past the top landing, with sufficient locations to hold onto when mounting / dismounting the ladder and provides easy access to personnel. 2) Modified or replacement ladder to have hi vis (yellow) non-slip tread installed on the rungs.	 			
CS07-39	5/12/2023	Unit 1 Pressure Reduction Skid	1) Landing and step up / down is impacted by existing pipework. Therefore the AS requirements are not being met and a trip hazard is present. 2) No hi vis (yellow) strip on the nosing (ends) of the grid mesh platform.	B. Remote	2. Minor	Low	1) Install a step and platform over the pipework, that meet AS requirements (e.g. hi vis nosing, step riser height). 2) Install hi vis (yellow) non-slip strip on the nosing of the skid's access point.	 			
CS07-40	5/12/2023	Unit 1 - Exhaust Stack Platform	1) The ladder does not meet AS requirements, including the ladder does run full length to the landing and the step up is 3400mm (AS <=150mm). 2) Gap between the handrail and structure (130mm) and does not meet AS requirements (max 100mm). Note: Comment only given the small difference above the AS requirement.	C. Unlikely	3. Severe	Medium	1.1) Install a landing that meets AS requirements. 1.2) Modify the ladder so its runs to the new landing and the first step up meets AS requirements. 2) No action required.	  			
CS07-41	5/12/2023	Unit 1 Oil Cooler Fans - Access Stairs	1) The landing for the stairs does not meet AS1657 requirements of 600mm minimum. 2) The length of the handrail when compared to the full length of the stairs and landing, is not compliant with the AS requirements. The current design also increases the potential of being unable to arrest a slip / fall. 3) No hi vis (yellow) tread installed onto each stair. 4) 1 x step identified with a bow in it.	C. Unlikely	3. Severe	Medium	1) Pour a new landing. 2) Modify the handrail to run the full length of the stairs. 3) Install hi vis (yellow) tread onto each stair. 4) Repair or replace the damaged step.	  			
CS07-42	5/12/2023	Unit 1 Oil Cooler Fans - Platform	1) The existing handrail does not extend around the outside of the fan enclosure on other side. This creates the risk of a fall of ~1.9m.	C. Unlikely	3. Severe	Medium	1) Install additional handrails and supporting structure around both fan enclosures.				
CS07-43	5/12/2023	Steps / Landings For Tank (Removed)	1) Redundant Steps / Landings for a Tank that has since been removed. They pose a trip hazard to personnel walking through this area.	B. Remote	2. Minor	Low	1) Remove the redundant steps / landings.				
CS07-44	5/12/2023	Confined Space Pit for HV110	1) Design of the ladder and hold points does not allow for easy access to / from and creates the potential for a fall. 2) No non-slip tread on ladder rungs.	B. Remote	3. Severe	Medium	1) Modify or replace the ladder, ensuring it extends 1m past the top landing, with sufficient locations to hold onto when mounting / dismounting the ladder and provides easy access to personnel. 2) Modified or replacement ladder to have hi vis (yellow) non-slip tread installed on the rungs.				
CS07-45	5/12/2023	Unit 2 - Ladders at Ground Level	1) Landings for multiple ladders at ground level do not meet AS requirement of 900mm. 2) No non-slip tread on ladder rungs.	B. Remote	2. Minor	Low	1.1) Remove old landing and install new precast one 1.2) Pour new landing 2) Modified or replacement ladder to have hi vis (yellow) non-slip tread installed on the rungs.				
CS07-46	5/12/2023	Unit 2 - Lowest Platforms	1) Chain has been used in lieu of a handrail for two sides of this platform. Chain will break in the event of a fall. 2) There is no method for accessing this platform from the below walkway without climbing onto structural steel and being exposed to a fall. Additionally no top rail has been installed on the interior sides of the platform (closest side to the fans). 3) Gaps (~270mm) between the handrail for the walkaway and adjacent platform exceeds AS requirements (100mm max).	C. Unlikely	4. Major	High	1) Replace the chains with a handrail with a lockable gate for access. 2.1) Install signage to highlight the fall from height risk until a suitable means of access is installed. 2.2) Modify the platform to allow for safe access ladder or stairs from the adjacent walkway or ground level. 3) Modify the handrail to eliminate or reduce the gaps to below the AS requirements.	 			
CS07-47	5/12/2023	Unit 2 - Middle Platform (North Side)	1) Self closing gate leads onto a section of roof with no edge protection in place. This exposes personnel on the roof, to a potential for a fall from height resulting in a fatality or significant injury.	C. Unlikely	4. Major	High	1.1) Install edge protection along the exposed edges of the roof. 1.2) Install signage to highlight the fall from height risk until edge protection is installed.				
CS07-48	5/12/2023	Unit 2 - Middle Platform (South Side)	1) When the existing gate is opened to allow mobile plant lifting loads onto/off the platform, it creates the potential for a person fall from height. A fall from this location would likely result in a fatality or significant injury.	C. Unlikely	4. Major	High	1.1) Recommend replacing the existing gate with a purpose built safety gate (i.e. UMZ18 Mezzanine Safety Gate). This type of gate eliminates the risk. It should be painted a hi vis colour (i.e. yellow) and have pinch point stickers or similar installed on the safety gate. 1.2) Install signage to highlight the fall from height risk until an alternative safety gate is installed.	 			
CS07-49	5/12/2023	Unit 2 - Second From The Top Platform (East Side)	1) No hi vis (yellow) tread installed on the ladder rungs.	C. Unlikely	2. Minor	Low	1) Install hi vis (yellow) tread to all ladder rungs and the nosing of the platform / top rung.				
CS07-50	5/12/2023	Unit 2 - Second From The Top Platform (West Side)	1) Gap between the kickboard and the exhaust ducting is 410mm high and 2040mm wide. Potential for a person to fall if it was accessed.	B. Remote	3. Severe	Medium	1) Consider installing a handrail or similar, between the exhaust system and the kick plate.				

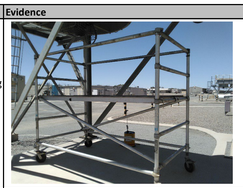
CS07-51	5/12/2023	Unit 2 - Second From The Top Platform (North Side)	1) No hi vis (yellow) tread installed on the ladder rungs.	C. Unlikely	2. Minor	Low	1) Install hi vis (yellow) tread to all ladder rungs and the nosing of the platform / top rung.	 			
CS07-52	5/12/2023	Unit 2 - Top Platform and Access to the Top of the Exhaust System	1) No access to the top of the exhaust system or the riser is provided.	B. Remote	3. Severe	Medium	1) Provide a work platform and access stairs / ladders, to allow safe access for maintenance tasks.				

Reference	Date added	Location on Site	Issue	Likelihood	Consequence	Risk Score	Suggestions	Evidence	What is being completed	Date planned for completion	Date completed
	2/02/2023	**Example** - Lube oil cooler unit 1	1) Landing does not meet AS requirement of 900mm 2) Stair treads too narrow and no non-slip				1.1) Remove old landing and install new precast one 1.2) Pour new landing 2.1) Replace ladder with new treads and non-slip		Replace ladder and landing. Pour new landing		
CS08-1	12/02/2024	Compressed Air Unit For Battery Rooms	1) No non-slip tread on ladder runs. 2) Landing does not meet the AS requirements. 3) ~200mm Gap between the vessel and the handrail is not compliant with AS requirements (max 100mm).	B. Remote	2. Minor	Low	1) Install hi vis (yellow) non-slip tread installed on the rungs. 2) Pour a landing to meet AS requirements. 3) Extend the handrail to within 100mm of the vessel.	 			
CS08-2	13/02/2024	Control Room - North Access Doors	1) Landing is too small. Concrete lip poses a slip / trip / fall hazard.	C. Unlikely	2. Minor	Low	1) Extend the concrete landing.				
CS08-3	13/02/2024	Primary Switch Room (2 Access Doors)	1) The existing anti-slip tread is significantly worn.	B. Remote	2. Minor	Low	1) Consider replacing the existing anti-slip tread.	 			
CS08-4	13/02/2024	DEA Junction Box (CS000-5249-3001-03)	1) The landing when accessing the DEA Junction Box is concrete kerbing. This uneven surface poses a slip / fall (same level) risk.	C. Unlikely	2. Minor	Low	1) Extend the concrete landing and modify the kerbing to suit.				

Reference	Date added	Location on Site	Issue	Likelihood	Consequence	Risk Score	Suggestions	Evidence	What is being completed	Date planned for completion	Date completed
CS08-5	13/02/2024	GEA 1 - Access Doors	1) The side door has blue metal as the landing surface.	C. Unlikely	2. Minor	Low	1) Pour a landing to meet AS requirements.	 			
CS08-6	13/02/2024	GEA 1 - Platform For Oil / Hydraulic Fluid Tank and Exhaust Fan	1) Temporary access stairs are also used as a work platform for the Oil / Hydraulic Fluid Tank. Requirements for work platform not met. 2) No hi vis (yellow) tread installed onto each stair. 3) No access provided to exhaust fan. Personnel required to set up a platform ladder on blue metal. This creates the potential for the ladder to be unstable and cause a fall from height.	C. Unlikely	3. Severe	Medium	1) Install a platform with stair access to replace the temporary stairs. Note: If 3 stairs will be required so handrails will also be required. 2) Install hi vis (yellow) tread onto each stair. 3) Option A: Install concrete landing for platform ladder to be set up on. Option B: Install a purpose built platform and access stairs or ladder that is AS compliant.	 			
CS08-7	13/02/2024	GEA 2 - Access Doors	1) No hi vis (yellow) tread installed onto each stair. 2) The landing for some stairs does not meet AS 1657 requirements.	C. Unlikely	2. Minor	Low	1) Install hi vis (yellow) tread onto each stair. 2) Extend the landing for stairs where the existing landing does not meet AS 1657.	  			
CS08-8	13/02/2024	GEA 2 - Ground Level Platform	1) No hi vis (yellow) tread installed onto the nosing of stairs and platform. 2) The landing does not meet AS 1657 requirements.	C. Unlikely	2. Minor	Low	1) Install hi vis (yellow) tread onto each stair. 2) Pour a landing to meet AS requirements.				

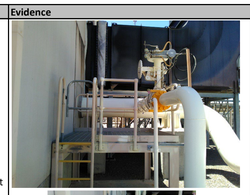
Reference	Date added	Location on Site	Issue	Likelihood	Consequence	Risk Score	Suggestions	Evidence	What is being completed	Date planned for completion	Date completed
CS08-9	13/02/2024	GEA 3 - Platform on South Side	1) Identified the potential for personnel to have to over-reach or use a safety when refilling the oil from the top platform. This exposes personnel to a potential fall. 2) No hi vis (yellow) tread installed onto each ladder rung. 3) The first ladder rung is 290mm above the landing. This exceeds the AS1657 requirement of <=150mm. 4) Landing is 840mm depth where as AS requirement is 900mm.	C. Unlikely	3. Severe	Medium	1) In consultation with FMO, redesign the platform to allow access to refill the oil. 2) Install hi vis (yellow) tread onto each ladder rung. 3) Modify or replace the ladder to ensure it meets the AS requirements (including step up from landing to the first ladder rung). 4) Modify or replace the landing to suite the modified / new ladder and be AS compliant.	 			
CS08-10	13/02/2024	GEA Fresh Oil and Waste Oil Tank	1) Temporary access stairs are also used as a work platform. Requirements for work platform not met. 2) No hi vis (yellow) tread installed onto each stair. 3) Two pipes adjacent to the stairs pose a trip hazard.	C. Unlikely	2. Minor	Low	1) Install a platform with stair access to replace the temporary stairs. Note: If 3 stairs or stairs are <=1m wide, then handrails will also be required. 2) Install hi vis (yellow) tread onto each stair. 3) Consider installing a handrail to prevent access or a hopover to provide safe access.				
CS08-11	13/02/2024	Water Treatment Plant - Access Doors	1) No hi vis (yellow) tread installed onto each stair. 2) Step up for the accessing the door from the inside exceed AS requirements (actual 400mm).	C. Unlikely	2. Minor	Low	1) Install hi vis (yellow) tread onto each stair. 2) Consider installing an interim stair on the inside of the building.	 			
CS08-12	13/02/2024	Water Treatment Plant - Pit Inside Building	1) Poor access / egress from ladder. 2) The foot of the ladder does not rest on or terminate above the landing. There is also no clear handgrips to assist the person when mounting and dismounting the ladder. Therefore it does not meet AS 1657 requirements. 3) No non-slip tread on ladder rungs.	C. Unlikely	3. Severe	Medium	1) Consider the position of the ladder when being redesigned, to allow for safe access / egress. 2) Redesign the ladder and hand grips to provide suitable access and meet AS1657 requirements. 3) Replacement ladder to have hi vis (yellow) non-slip tread installed on the rungs.				
CS08-13	13/02/2024	Water Treatment Plant - 2 x Tanks	1) 1 Tank has no means of access provided. 2) 1 x Tank has temporary steps used for access and as a work platform. These do not meet AS requirements	C. Unlikely	3. Severe	Medium	1) Install a landing, access stairs and platform. Note: If 3 stairs or stairs are <=1m wide, then handrails will also be required. 2) Option A: Install hi vis (yellow) tread onto each stair. Also consider install handrail for the work platform. Option B: Install a access ladder and platform that meets AS requirements (preferred option). Option C: Implement a 1500 x 1500 precast concrete for ladder to sit on to access the tank.	 			

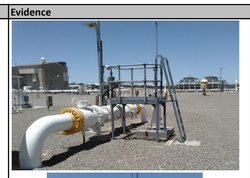
Reference	Date added	Location on Site	Issue	Likelihood	Consequence	Risk Score	Suggestions	Evidence	What is being completed	Date planned for completion	Date completed
CS08-14	13/02/2024	GEA Fuel Gas Skid	1) Accessing the skid requires a step up that exceeds AS requirements (actual 400mm, AS requirement 300mm). 2) No hi vis (yellow) tread installed onto nosing of the access ends of the platform. 3) No hi vis (yellow) tread installed onto each stair of the access stairs / platform. 4) Landing is too small and poses a slip / trip hazard.	C. Unlikely	2. Minor	Low	1) Install stairs for accessing the skid, including hoping over the existing piping. Note: If 3 stairs or stairs are <=1m wide, then handrails will also be required. 2) Install hi vis (yellow) tread onto the nosing on the platform (access edges). 3) Install hi vis (yellow) tread onto each stair. 4) Pour a landing to meet AS requirements.	  			
CS08-15	13/02/2024	GEA Waste Oil Tank	1) Temporary access stairs are also used as a work platform. Requirements for work platform not met. 2) No hi vis (yellow) tread installed onto each stair.	C. Unlikely	2. Minor	Low	1) Install a platform with stair access to replace the temporary stairs. Note: If 3 stairs or stairs are <=1m wide, then handrails will also be required. 2) Install hi vis (yellow) tread onto each stair.				
CS08-16	13/02/2024	Compressor Unit 1 - After Cooler Fans - Ground Level Ladders x 2	1) The concrete landing (depth 230-250mm) does not meet the AS requirements (depth min 900mm from bottom rung). 2) The concrete landing that is being used as an additional stair to allow access to the ladder (350mm - south side / 300mm west side) does not meet the AS requirements.	D. Occasional	2. Minor	Low	1) Pour a new landing. 2) Modify the ladder to run the full length to the landing and ensure the step up requirements for the ladder meets AS requirements (e.g. 300-450mm requires at least 1 stair).	 			
CS08-17	13/02/2024	Stage 1 Compressor Unit 1 - After Cooler Fans - Middle Platform (East Side)	1) No handrails on the side of the platform that faces the structure. Gap between the kick plate and structure is 630mm and the AS requirement is max 100mm. Potential fall of ~5m.	B. Remote	3. Severe	Low	1) Install handrails between the existing platform and structure to eliminate or reduce the gaps to meet AS requirements.				
CS08-18	13/02/2024	Compressor Unit 1 - After Cooler Fans - Middle Platform (West Side)	1) No handrails on the side of the platform that faces the structure. Gap between the kick plate and structure is 670mm and the AS requirement is max 100mm. Potential fall of ~5m.	B. Remote	3. Severe	Low	1) Install handrails between the existing platform and structure to eliminate or reduce the gaps to meet AS requirements.				
CS08-19	13/02/2024	Compressor Unit 1 - After Cooler Fans - Top Platform	1) No handrail on the western end of the top platform. Personnel at risk of a fall ~5m when performing maintenance activities on the piping.	C. Unlikely	3. Severe	High	1) Modify the platform and handrails to provide access for maintenance tasks without being exposed to the risk of a fall.	 			

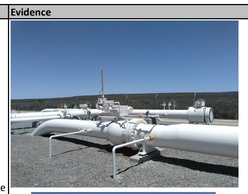
Reference	Date added	Location on Site	Issue	Likelihood	Consequence	Risk Score	Suggestions	Evidence	What is being completed	Date planned for completion	Date completed
CS08-20	13/02/2024	Mobile Scaffold - Beneath Unit 1 After Cooler Fans	1) No hi vis (yellow) tread installed onto the ladder rungs. 2) No handrail and self closing gate around the ladder opening. 3) The mid rail on one side of the mobilise scaffold is missing.	C. Unlikely	3. Severe	Medium	1) Install hi vis (yellow) tread onto the ladder rungs. 2) Install handrail and self closing gate (or equivalent) at access point. 3) Install a mid rail on the missing side of the mobile scaffold.				
CS08-21	13/02/2024	Unit 1 Access Stairs - Multiple Locations	1) The landing for some stairs do not meet AS1657 requirements of 900mm (actual 400mm). 2) No hi vis (yellow) tread installed onto the nosing of each stair.	C. Unlikely	2. Minor	Low	1) Pour a new landing. 2) Install hi vis (yellow) tread onto the nosing of each stair (600mm to 750mm width).	 			
CS08-22	13/02/2024	Unit 1 Access Stairs - East Side	1) Concrete block used as a stair does not meet the AS requirement for consistent risers in stairways. 2) No hi vis (yellow) tread installed onto the nosing of each stair.	C. Unlikely	2. Minor	Low	1) Modify or replace the strairs to be AS compliant. 2) Install hi vis (yellow) tread onto the nosing of each stair.				
CS08-23	13/02/2024	Unit 1 North Access Stairs / Platform	1) FMOs required to climb onto the the Vent Fans structure to access the shaft ontop of it. FMOs access this shaft as part of scheduled inspections of the fire suppression system. Note: Reported by Jeramie Di Mascia (FMO LH).	C. Unlikely	3. Severe	High	1.1) Modification to be made to enable the installation of access stairs / ladder onto the structure and additional handrails to prevent a fall over the handrails. 1.2) Hi vis (yellow) tread to be installed on the access stairs / ladder. 1.3) Kick plates and handrails to be installed on the top of the structure to prevent a fall. 1.4) Review the means of accessing the hatch ontop of the structure, to ensure no additional risks are created when entering / exiting the hatch.	 			
CS08-24	13/02/2024	Unit 1 Air Inlet System - Bottom Platform	1) The landing for the ladder does not meet AS1657 requirements of 900mm. 2) The angle of the slope (58.40 degrees) exceeds AS1657 requirements of Min 20 degrees and Max 45 degrees. Calculation Notes: 3.8m Rise (height), 2.2m Run (length), 16 Runs (steps). 3) The steps nosing do not have no hi vis non-slip tread fitted and posings a slip/fall risk. 4) Handrail does not meet AS requirements by beginning within a max of 900mm of the landing. 5) Greater potential to fall if facing away from the stairs when descending.	C. Unlikely	3. Severe	Medium	1) Pour a new landing. 2) install a new stairwell that complies with AS1657. The new stairwell will need to be installed with a different orientation to avoid head height hazards (e.g. cross beams). 3) Hi vis non-slip tread is also to be fitted to the nosing of each stair. 4) Modify the handrail to meet the AS requirements. 5) Install signage on both sides of the gate to instruct personnel to only descend the stairs whilst facing towards the stair. Check AS requirement for when the handrail can stop. Check AS requirement for the tread depth for this type of staircase. May differ.				

Reference	Date added	Location on Site	Issue	Likelihood	Consequence	Risk Score	Suggestions	Evidence	What is being completed	Date planned for completion	Date completed
CS08-25	13/02/2024	Unit 1 Air Inlet System - Middle Platform	1) The steps nosing do not have no hi vis non-slip tread fitted and posings a slip/fall risk. 2) Handrail does not meet AS requirements by not extending the full length of the stairs. 3) ~230mm Gap between the structure and the handrail is not compliant with AS requirements (max 100mm). 4) No kick plate installed on the end of the grid mesh facing the ducting. This creates a slip/fall and dropped object risk.	B. Remote	2. Minor	Low	1) Hi vis non-slip tread is also to be fitted to the nosing of each stair. 2) Extend the handrail the full length of the stairs. 3) Modify the handrail to extend within 100mm of the structure. 4) Install a kick plate along the open edge of the grid mesh.	  			
CS08-26	13/02/2024	Unit 1 Air Inlet System - Third Level Platform	1) The landing for the ladder does not meet AS1657 requirements of 900mm. 2) The steps are small in size (~110mm), have no hi vis non-slip tread fitted, do not meet AS1657 requirements and posings a slip/fall risk. 3) Handrail does not meet AS requirements by not extending the full length of the stairs.	C. Unlikely	3. Severe	Medium	1) Modify the platform to provide adequate landing or modify the access method. 2) Ensure the new stairwell has suitably sized steps or a access ladder that meet AS1657 requirements. Hi vis non-slip tread is also to be fitted to the nosing of each stair. 3) Extend the handrail the full length of the stairs.				
CS08-27	13/02/2024	Unit 1 Air Inlet System - Top Platform	1) The landing for the ladder does not meet AS1657 requirements of 900mm. 2) The steps are small in size (~110mm), have no hi vis non-slip tread fitted, do not meet AS1657 requirements and posings a slip/fall risk. 3) Handrail does not meet AS requirements by not extending the full length of the stairs.	C. Unlikely	3. Severe	Medium	1) Modify the platform to provide adequate landing or modify the access method. 2) Ensure the new stairwell has suitably sized steps or a access ladder that meet AS1657 requirements. Hi vis non-slip tread is also to be fitted to the nosing of each stair. 3) Extend the handrail the full length of the stairs.	 			
CS08-28	13/02/2024	Unit 1 Air Inlet System - Exhaust System Platform	1) The landing for the ladder does not meet AS1657 requirements of 900mm.	B. Remote	2. Minor	Low	1) Pour a new landing.				
CS08-29	13/02/2024	Unit 1 - Multiple Stairs Over Pipework	1) The landing for the stairs does not meet AS1657 requirements of 900mm (actual 400mm or landing is blue metal). 2) No hi vis (yellow) tread installed onto the nosing of each stair.	C. Unlikely	2. Minor	Low	1) Pour a new landing. 2) Install hi vis (yellow) tread onto the nosing of each stair (750mm width).	 			

Reference	Date added	Location on Site	Issue	Likelihood	Consequence	Risk Score	Suggestions	Evidence	What is being completed	Date planned for completion	Date completed
CS08-30	13/02/2024	Unit 1 - North Platform for Actuated Valve	1) No hi vis (yellow) tread installed onto the nosing of each stair. 2) The landing for the ladder does not meet AS1657 requirements of 900mm (actual 340mm)	C. Unlikely	2. Minor	Low	1) Install hi vis (yellow) tread onto the nosing of each stair. 2) Pour a new landing.	 			
CS08-31	13/02/2024	Anti-Surge Valves (ZSL1311 / UCV1351) - 2 x Platforms	1) Chain has been used in lieu of a handrail. The chain will likely break in the event of a fall (~1.5m).	C. Unlikely	3. Severe	Medium	1) Replace the chains with handrails.	 			
CS08-32	13/02/2024	Unit 1 - South Platform for Actuated Valve (1315)	1) Mid and top handrail has been cut, leaving a gap of 260mm which exceeds AS requirements (max 100mm). 2) The landing does not meet AS requirements (actual 700mm, required minimum 900mm). 3) No hi vis (yellow) tread installed onto the ladder rungs or nosing of platform.	B. Remote	3. Severe	Low	1) Modify the handrail to eliminate the gap. 2) Pour a new landing. 3) Install hi vis (yellow) tread onto each ladder rungs and nosing of platform.	 			
CS08-33	13/02/2024	Unit 1 - PSV1316A	1) Access to PSV for maintenance tasks currently completed using a platform ladder on blue metal. This creates the potential for the ladder to be unstable and cause a fall from height (~2m).	C. Unlikely	3. Severe	Medium	1) Option A: Install concrete landing for platform ladder to be set up on. Option B: Install a purpose built platform and access stairs or ladder that is AS compliant.				

Reference	Date added	Location on Site	Issue	Likelihood	Consequence	Risk Score	Suggestions	Evidence	What is being completed	Date planned for completion	Date completed
CS08-34	13/02/2024	Unit 1 - South Side Platform	1) Landing is too small. Concrete drainage poses a slip / trip hazard. 2) Gap in handrail exceeds AS requirements (max 100mm).	C. Unlikely	2. Minor	Low	1.1) Pour a new landing. 1.2) Consider the drainage design into the landing modification and engineer it out if possible. If no, highlight the drainage in yellow so it stands out. 2) Consider modifying the handrail design for the platform to eliminate the gap.	 			
CS08-35	13/02/2024	Unit 1 Pressure Skid - 2 x Stairway Platforms	1) Landings are too small and do not meet AS requirements. They also pose a slip / trip / fall (same level) hazard. 2) No hi vis (yellow) tread installed on the nosing of the stairs and platform.	C. Unlikely	2. Minor	Low	1) Pour a new landing. 2) Install hi vis (yellow) tread onto the nosing of the platform and each stair (400mm width).	 			
CS08-36	13/02/2024	Unit 1 Pressure Skid - Access / Work Platform	1) The step up / down onto the platform exceeds AS requirements (=<300mm, actual 400mm). 2) Existing pipework at the end of the platform poses a trip hazard. 3) No kick plate or handrails are install on the platform. Potential to stair off.	C. Unlikely	2. Minor	Low	1) Install a platform with stair access, with hi vis (yellow tread) on the nosing of each stair and platform. Note: If 3 stairs or stairs are <=1m wide, then handrails will also be required. 2) Incorporate a hopover into the access stair design. 3) Install kick plates and handrail along the platform edges where practical.	 			
CS08-37	13/02/2024	Platform for Scrubber and adjacent Pipework	1) No access to Riser / Vent from platform without having to use a ladder on the platform. This will expose personnel to a fall over the existing handrail. 2) No access to the valves onto the top of the pipework.	C. Unlikely	2. Minor	Low	1) Modify platform and handrails to provide access to vent. 2) Install a access platform that complies with AS1567 requirements. Note: Discuss with FMOs on frequency to access both locations and methodology. This will help determine priority and suitability.	 			

Reference	Date added	Location on Site	Issue	Likelihood	Consequence	Risk Score	Suggestions	Evidence	What is being completed	Date planned for completion	Date completed
CS08-38	13/02/2024	Platform Adjacent to PSV125	1) Landings are too small and do not meet AS requirements. They also pose a slip / trip / fall (same level) hazard. 2) No hi vis (yellow) tread installed on the nosing of the stairs and platform.	C. Unlikely	2. Minor	Low	1) Pour a new landing. 2) Install hi vis (yellow) tread onto the nosing of the platform and each stair (450mm width).	 			
CS08-39	13/02/2024	PIC-181 / PIC-182 Skid - Access Platforms	1) Landings are too small and do not meet AS requirements. They also pose a slip / trip / fall (same level) hazard. 2) No hi vis (yellow) tread installed on the nosing of the stairs and	C. Unlikely	2. Minor	Low	1) Pour a new landing. 2) Install hi vis (yellow) tread onto the nosing of the platform and each stair (750mm width).	 			
CS08-40	13/02/2024	PIC-181 / PIC-182 Skid	1) Step up is 380mm which exceeds AS requirements (300mm-450mm requires minimum of 1 stair).	C. Unlikely	2. Minor	Low	1.1) Install a interim stair to assist with access and meet AS1657 requirements. Note: If 3 stairs or stairs are <=1m wide, then handrails will also be required. 1.2) Install hi vis (yellow) tread onto each stair.	 			
CS08-41	13/02/2024	Confined Space - Access Ladder (West Side of Plant)	1) Ladder does not extend 1m past the landing at the top of the ladder and does not have sufficient locations to hold onto when mounting / dismounting. 2) No non-slip tread on ladder rungs. 3) Confined Space signage has faded significantly.	B. Remote	3. Severe	Medium	1) Modify or replace the ladder, ensuring it extends 1m past the top landing, with sufficient locations to hold onto when mounting / dismounting the ladder. 2) Modified or replacement ladder to have hi vis (yellow) non-slip tread installed on the rungs. 3) Replace the confined space signage as part of the improvement works.				

Reference	Date added	Location on Site	Issue	Likelihood	Consequence	Risk Score	Suggestions	Evidence	What is being completed	Date planned for completion	Date completed
CS08-42	13/02/2024	Pigging Area / Pipework	1) Access to Risers / Vents up to ~2000mm for maintenance tasks currently completed using a platform ladder on blue metal. This creates the potential for the ladder to be unstable and cause a fall from height.	C. Unlikely	3. Severe	Medium	1) Option A: Install concrete landing for platform ladder to be set up on. Option B: Install a purpose built platform and access stairs or ladder that is AS compliant.	 			
CS08-43	13/02/2024	LP-124 / LP-146 Station Control Valves - Instrument Gas Supply	1) The landing is too small on the south side of the skid.	C. Unlikely	2. Minor	Low	1) No action required. Platform ladders are set up on the opposite side of skid to accent the risers / vents.				
CS08-44	13/02/2024	Unit 1 - Fuel Gas Skid	1) Step up is 380mm which exceeds AS requirements (300mm-450mm requires minimum of 1 stair). 2) Pipework routed at ground level, pose a trip / fall (same level) hazard.	C. Unlikely	2. Minor	Low	1.1) Install a interim stair to assist with access and meet AS1657 requirements. Note: If 3 stairs or stairs are <=1m wide, then handrails will also be required. 1.2) Install hi vis (yellow) tread onto each stair. 2) Install a hopover to provide safe access.	 			
CS08-45	13/02/2024	Compressor Unit 2 - After Cooler Fans - Ground Level Ladders x 2	1) The concrete landing (depth 230-250mm) does not meet the AS requirements (depth min 900mm from bottom rung). 2) The concrete landing that is being used as an additional stair to allow access to the ladder (350mm - south side / 300mm west side) does not meet the AS requirements.	D. Occasional	2. Minor	Low	1) Pour a new landing. 2) Modify the ladder to run the full length to the landing and ensure the step up requirements for the ladder meets AS requirements (e.g. 300-450mm requires at least 1 stair).	 			
CS08-46	13/02/2024	Compressor Unit 2 - After Cooler Fans - Middle Platform (East Side)	1) No handrails on the side of the platform that faces the structure. Gap between the kick plate and structure is 630mm and the AS requirement is max 100mm. Potential fall of ~5m.	B. Remote	3. Severe	Low	1) Install handrails between the existing platform and structure to eliminate or reduce the gaps to meet AS requirements.				

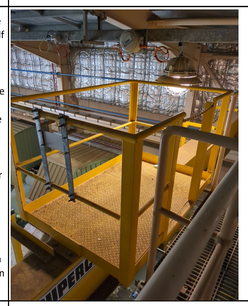
Reference	Date added	Location on Site	Issue	Likelihood	Consequence	Risk Score	Suggestions	Evidence	What is being completed	Date planned for completion	Date completed
CS08-47	13/02/2024	Compressor Unit 2 - After Cooler Fans - Middle Platform (West Side)	1) No handrails on the side of the platform that faces the structure. Gap between the kick plate and structure is 670mm and the AS requirement is max 100mm. Potential fall of ~5m.	B. Remote	3. Severe	Low	1) Install handrails between the existing platform and structure to eliminate or reduce the gaps to meet AS requirements.				
CS08-48	13/02/2024	Compressor Unit 2 - After Cooler Fans - Top Platform	1) No handrail on the western end of the top platform. Personnel at risk of a fall ~5m when performing maintenance activities on the piping.	C. Unlikely	3. Severe	High	1) Modify the platform and handrails to provide access for maintenance tasks without being exposed to the risk of a fall.	 			
CS08-49	13/02/2024	Unit 2 Access Stairs - Multiple Locations	1) The landing for some stairs do not meet AS1657 requirements of 900mm (actual 400mm). 2) No hi vis (yellow) tread installed onto the nosing of each stair.	C. Unlikely	2. Minor	Low	1) Pour a new landing. 2) Install hi vis (yellow) tread onto the nosing of each stair (600mm to 750mm width).	 			
CS08-50	13/02/2024	Unit 2 North Access Stairs / Platform	1) FMOs required to climb onto the structure to access the shaft ontop of it. FMOs access this shaft as part of scheduled inspections of the fire suppression system. Note: Reported by Jeramie Di Mascia (FMO LH).	C. Unlikely	3. Severe	High	1.1) Modification to be made to enable the installation of access stairs / ladder onto the structure and additional handrails to prevent a fall over the handrails. 1.2) Hi vis (yellow) tread to be installed on the access stairs / ladder. 1.3) Kick plates and handrails to be installed on the top of the structure to prevent a fall. 1.4) Review the means of accessing the hatch ontop of the structure, to ensure no additional risks are created when entering / exiting the hatch.	 			
CS08-51	13/02/2024	Unit 2 Air Inlet System - Bottom Platform	1) The landing for the ladder does not meet AS1657 requirements of 900mm. 2) The angle of the slope (58.40 degrees) exceeds AS1657 requirements of Min 20 degrees and Max 45 degrees. Calculation Notes: 3.8m Rise (height), 2.2m Run (length), 16 Runs (steps). 3) The steps nosing do not have no hi vis non-slip tread fitted and posings a slip/fall risk. 4) Handrail does not meet AS requirements by beginning within a max of 900mm of the landing. 5) Greater potential to fall if facing away from the stairs when descending.	C. Unlikely	3. Severe	Medium	1) Pour a new landing. 2) Install a new stairwell that complies with AS1657. The new stairwell will need to be installed with a different orientation to avoid head height hazards (e.g. cross beams). 3) Hi vis non-slip tread is also to be fitted to the nosing of each stair. 4) Modify the handrail to meet the AS requirements. 5) Install signage on both sides of the gate to instruct personnel to only descend the stairs whilst facing towards the stair. Check AS requirement for when the handrail can stop. Check AS requirement for the tread depth for this type of staircase. May differ.				

Reference	Date added	Location on Site	Issue	Likelihood	Consequence	Risk Score	Suggestions	Evidence	What is being completed	Date planned for completion	Date completed
CS08-52	13/02/2024	Unit 2 Air Inlet System - Middle Platform	1) The steps nosing do not have no hi vis non-slip tread fitted and posings a slip/fall risk. 2) Handrail does not meet AS requirements by not extending the full length of the stairs. 3) ~230mm Gap between the structure and the handrail is not compliant with AS requirements (max 100mm). 4) No kick plate installed on the end of the grid mesh facing the ducting. This creates a slip/fall and dropped object risk.	B. Remote	2. Minor	Low	1) Hi vis non-slip tread is also to be fitted to the nosing of each stair. 2) Extend the handrail the full length of the stairs. 3) Modify the handrail to extend within 100mm of the structure. 4) Install a kick plate along the open edge of the grid mesh.				
CS08-53	13/02/2024	Unit 2 Air Inlet System - Third Level Platform	1) The landing for the ladder does not meet AS1657 requirements of 900mm. 2) The steps are small in size (~110mm), have no hi vis non-slip tread fitted, do not meet AS1657 requirements and posings a slip/fall risk. 3) Handrail does not meet AS requirements by not extending the full length of the stairs.	C. Unlikely	3. Severe	Medium	1) Modify the platform to provide adequate landing or modify the access method. 2) Ensure the new stairwell has suitably sized steps or a access ladder that meet AS1657 requirements. Hi vis non-slip tread is also to be fitted to the nosing of each stair. 3) Extend the handrail the full length of the stairs.	 			
CS08-54	13/02/2024	Unit 2 - Fuel Gas Skid	1) Step up is 380mm which exceeds AS requirements (300mm-450mm requires minimum of 1 stair). 2) Pipework routed at ground level, pose a trip / fall (same level) hazard.	C. Unlikely	2. Minor	Low	1.1) Install a interim stair to assist with access and meet AS1657 requirements. Note: If 3 stairs or stairs are <=1m wide, then handrails will also be required. 1.2) Install hi vis (yellow) tread onto each stair. 2) Install a hopover to provide safe access.	 			
CS08-55	13/02/2024	Unit 2 Air Inlet System - Exhaust System Platform	1) The landing for the ladder does not meet AS1657 requirements of 900mm.	B. Remote	2. Minor	Low	1) Pour a new landing.				
CS08-56	13/02/2024	Unit 2 - North Platform for Actuated Valve	1) No hi vis (yellow) tread installed onto the nosing of each stair. 2) The landing for the ladder does not meet AS1657 requirements of 900mm (actual 340mm) 3) Instrument Box in close proximity of the landing. FMOs reported making contact with this box, usually when stepping back off the ladder.	C. Unlikely	2. Minor	Low	1) Install hi vis (yellow) tread onto the nosing of each stair. 2) Pour a new landing. 3) Review if Instrument Box can be relocated or if engineering options are available (e.g. padded handrail).	 			
CS08-57	13/02/2024	Unit 2 - South Side Platform	1) Landing is too small. Concrete drainage poses a slip / trip hazard. 2) Gap in handrail exceeds AS requirements (max 100mm).	C. Unlikely	2. Minor	Low	1.1) Pour a new landing. 1.2) Consider the drainage design into the landing modification and engineer it out if possible. If no, highlight the drainage in yellow so it stands out. 2) Consider modifying the handrail design for the platform to eliminate the gap.				

Reference	Date added	Location on Site	Issue	Likelihood	Consequence	Risk Score	Suggestions	Evidence	What is being completed	Date planned for completion	Date completed
CS08-58	13/02/2024	Unit 2 Access Stairs - Multiple Locations	1) The landing for some stairs do not meet AS1657 requirements of 900mm (actual 400mm). 2) No hi vis (yellow) tread installed onto the nosing of each stair.	C. Unlikely	2. Minor	Low	1) Pour a new landing. 2) Install hi vis (yellow) tread onto the nosing of each stair (600mm to 750mm width).	 			
CS08-59	13/02/2024	Unit 2 Access Stairs - East Side	1) Concrete block used as a stair does not meet the AS requirement for consistent risers in stairways. 2) No hi vis (yellow) tread installed onto the nosing of each stair.	C. Unlikely	2. Minor	Low	1) Modify or replace the strairs to be AS compliant. 2) Install hi vis (yellow) tread onto the nosing of each stair.				
CS08-60	13/02/2024	Anti-Surge Valves - 2 x Platforms	1) Chain has been used in lieu of a handrail. The chain will likely break in the event of a fall (~1.5m).	C. Unlikely	3. Severe	Medium	1) Replace the chains with handrails.	 			
CS08-61	13/02/2024	Unit 2 - North Platform for Actuated Valve	1) No hi vis (yellow) tread installed onto the nosing of each stair. 2) The landing for the ladder does not meet AS1657 requirements of 900mm (actual 340mm)	C. Unlikely	2. Minor	Low	1) Install hi vis (yellow) tread onto the nosing of each stair. 2) Pour a new landing.				
CS08-62	13/02/2024	After Cooler Fans 1-6 - Lower Platform (North Side)	1) The landing for the ladder does not meet AS1657 requirements of 900mm. It also poses a trip / slip hazard.	C. Unlikely	2. Minor	Low	1) Pour a new landing.	 			

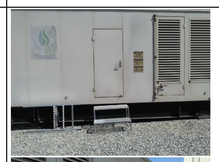
Reference	Date added	Location on Site	Issue	Likelihood	Consequence	Risk Score	Suggestions	Evidence	What is being completed	Date planned for completion	Date completed
CS08-63	13/02/2024	After Cooler Fans 1-6 - Lower Platform (South Side)	1) The landing for the ladder does not meet AS1657 requirements of 900mm. It also poses a trip / slip hazard. 2) Top handrail does not run the length of the platform, creating a gap above the AS1657 requirements (max 100mm).	C. Unlikely	3. Severe	Medium	1) Pour a new landing. 2) Install handrails between the existing platform and structure to eliminate or reduce the gaps to meet AS requirements.	 			
CS08-64	13/02/2024	After Cooler Fans 1-6 - Middle and Top Platform	1) Stairs do not have hi vis (yellow) tread installed onto the nosing of each stair. 2) Open edge adjacent to each set of stairs, running along the platform. This exposes personnel to a fall into the access way. 3) The top platforms have several areas without handrails installed to prevent access to open edges. This creates the potential for a person to fall from height resulting in a fatality or significant injury due to the total fall distance.	C. Unlikely	3. Severe	High	1) Install hi vis (yellow) tread onto the nosing of each stair. 2) Install handrail along the open edge of the access way, on the top platform. 3) Install handrails to eliminate exposure to a unprotected edge.	 			
CS08-65	13/02/2024	After Cooler Fans 7-8 - Lower Platform	1) Top handrail does not run the length of the platform, creating a gap above the AS1657 requirements (max 100mm).	C. Unlikely	3. Severe	Medium	1) Install handrails between the existing platform and structure to eliminate or reduce the gaps to meet AS requirements.	 			
CS08-66	13/02/2024	After Cooler Fans 7-8 - Top Platform	1) The ladder does not run the full length to the landing at ground level (ground to first rung is 440mm) and is therefore does not meet AS requirements. 2) Handrails between the fans does not have bottom rail / mount is 580mm from the bottom of platform, this exceed AS1657 requirements of 450mm. No toeboard in place. Potential for personnel to climb under. 3) No guarding has been installed on the top of the fan enclosures, to prevent access during operation. Multiple fans at this location.	C. Unlikely	3. Severe	High	1) Modify the ladder to ensure it runs full length and risers meet AS requirements. 2) Install toeboard underneath the existing handrails. 3) Install a grid mesh hatch or similar and attach it to the existing structure.	 			

Reference	Date added	Location on Site	Issue	Likelihood	Consequence	Risk Score	Suggestions	Evidence	What is being completed	Date planned for completion	Date completed
CS08-67	13/02/2024	After Cooler Fans 7-8 - Mobile Scaffold	1) No hi vis (yellow) tread installed onto the ladder rungs. 2) No handrail and self closing gate around the ladder opening. 3) The mid rail on one side of the mobilise scaffold is missing.	C. Unlikely	3. Severe	Medium	1) Install hi vis (yellow) tread onto the ladder rungs. 2) Install handrail and self closing gate (or equivalent) at access point. 3) Install a mid rail on the missing side of the mobile scaffold.				
CS08-68	13/02/2024	Hazardous Substance Area	1) The landing for the stairs does not meet AS1657 requirements of 900mm (landing is blue metal). 2) No hi vis (yellow) tread installed onto the nosing of each stair.	C. Unlikely	2. Minor	Low	1) Pour a new landing. 2) Install hi vis (yellow) tread onto the nosing of each stair.	 			
CS08-69	13/02/2024	Truck Loading / Unloading Area	1) Chain has been used in lieu of a handrail. The chain will likely break in the event of a fall (~1.5m). 2) The landing for the stairs does not meet AS1657 requirements of 900mm (landing is blue metal). 3) No hi vis (yellow) tread installed onto the nosing of each stair.	C. Unlikely	3. Severe	Medium	1) Consider replacing the chain with an alternative barrier (e.g. boom gate or spring loaded gate). 2) Pour a new landing. 3) Install hi vis (yellow) tread onto the nosing of each stair.	 			
CS08-70	13/02/2024	Diesel Fuel Tank	1.1) Handrail does not meet AS requirement of 900mm. 2) No gate at the top of the work platform. 3) Landing does not meet AS requirements. Obstructed by bunding.	D. Occasional	3. Severe	Medium	1) Replace the access ladder and platform with access stairs and platform, with handrails and hi vis tread. 2) Self closing gate to be installed at the top of the platform. 3) Ensure the landing on the redesigned access stairs and platform meet the AS requirements. Modifying the bund if required.	 			
CS08-71	13/02/2024	Gym	1) No hi vis (yellow) tread installed onto the nosing of each stair. 2) 180mm gap between the building and handrail. Minimal risk of a injury in this situation.	C. Unlikely	2. Minor	Low	1) Hi vis (yellow) non-slip tread to be installed on the nosing of each stair. 2) No action required.	 			

Reference	Date added	Location on Site	Issue	Likelihood	Consequence	Risk Score	Suggestions	Evidence	What is being completed	Date planned for completion	Date completed
CS08-72	13/02/2024	External Accommodation Rooms	1) No hi vis (yellow) tread installed onto the nosing of each stair. 2) Risk of personnel stepping off the top stair due to no edge protection. Potential fall of 420mm.	C. Unlikely	2. Minor	Low	1) Hi vis (yellow) non-slip tread to be installed on the nosing of each stair. 2) Consider installing handrails for stairs.	 			
CS08-73	10/05/2023	Unit 2 - Lower Access Stairs for First Platform (Crane)	1) No hi vis (yellow) tread installed onto the nosing of stairs (width 550mm). 2) No self closing gate installed at the top of the stairs. 3) Greater potential to fall if facing away from the stairs when descending. Note: Based on CS06 assessment.	D. Occasional	3. Severe	Medium	1) Install hi vis (yellow) tread onto the nosing of the stairs. 2) Install a self closing gate at the top of the stairs. 3) Install signage on both sides of the gate to instruct personnel to only descend the stairs whilst facing towards the stair.	No photos available. Refer to CS06.			
CS08-74	10/05/2023	Unit 2 - Access Stairs from Level 1 Platform (Rail Height) to Level 2 Walkway for Crane Access	1) Handrail does not provide adequate protection to prevent a fall over the stair's handrail. 2) No hi vis (yellow) tread installed onto the nosing of stairs. 3) No self closing gate installed at the top of the stairs. 4) Greater potential to fall if facing away from the stairs when descending. Note: Based on CS06 assessment.	D. Occasional	3. Severe	Medium	1) Install an additional handrail on both sides of the stair to provide protection against falling over handrail. 2) Install hi vis (yellow) tread onto the nosing of the stairs. 3) Install a self closing gate at the top of the stairs. 4) Install signage on both sides of the gate to instruct personnel to only descend the stairs whilst facing towards the stair.	No photos available. Refer to CS06.			
CS08-75	10/05/2023	Unit 2 - Access Stairs for Level 1 (Rail Height) on Other Side of Crane Platform	1) Handrail does not provide adequate protection to prevent a fall over the stair's handrail. 2) No hi vis (yellow) tread installed onto the nosing of stairs. 3) No self closing gate installed at the top of the stairs. 4) Greater potential to fall if facing away from the stairs when descending. Note: Based on CS06 assessment.	D. Occasional	3. Severe	Medium	1) Install an additional handrail on both sides of the stair to provide protection against falling over handrail. 2) Install hi vis (yellow) tread onto the nosing of the stairs. 3) Install a self closing gate at the top of the stairs. 4) Install signage on both sides of the gate to instruct personnel to only descend the stairs whilst facing towards the stair.	No photos available. Refer to CS06.			
CS08-76	10/05/2023	Unit 2 - Access to Crane Platform (Level 2)	1) Chain has been used in lieu of a self closing gate at the top of the ladder on the portable platform. The chain will break in the event of a fall and therefore will not meet AS 1657 requirements for guardrails. 2) Gap the walkway platform and crane platform is 500mm, exposing personnel to a fall of ~7m. 3) No hi vis (yellow) tread installed onto the nosing of platform (open edge). Note: Based on CS06 assessment. Photos provided by Keryn Morrison.	C. Unlikely	4. Major	High	1) Modify both platforms so the chain can be replaced with a self closing gate or equivalent that meets AS1657 requirements. 2.1) Modify the design to reduce the gap to ALARP (100mm gap between handrails is acceptable under AS1657). 2.2) Determine if FIPS and anchor points are required after the design review has been completed. This is when personnel are moving between platforms. 3) Install hi vis (yellow) tread on the nosing of the platform (open edge).				

Reference	Date added	Location on Site	Issue	Likelihood	Consequence	Risk Score	Suggestions	Evidence	What is being completed	Date planned for completion	Date completed

Reference	Date added	Location on Site	Issue	Likelihood	Consequence	Risk Score	Suggestions	Evidence	What is being completed	Date planned for completion	Date completed
	2/02/2023	**Example** - Lube oil cooler unit 1	1) Landing does not meet AS requirement of 900mm 2) Stair treads too narrow and no non-slip				1.1) Remove old landing and install new precast one 1.2) Pour new landing 2.1) Replace ladder with new treads and non-slip		Replace ladder and landing. Pour new landing		
CS09-01	16/11/2023	Unit 1 - Fuel Gas Skid	1) No hi vis (yellow) tread installed onto the nosing of each stair. 2.1) The landing on one side of the skid does not meet AS1657 requirements of 600mm minimum. 2.2) On narrow concrete landing side, the height difference between the landing and blue metal allows potential for trip / slip. Note: INX-19141 Near Miss: Rolled Ankle when the FMO's foot landed on the narrow concrete landing on the narrow side.	C. Unlikely	2. Minor	Low	1) Install hi vis (yellow) tread onto the nosing of each stair. 2.1) Extend the landing. 2.2) Consider placing additional blue metal adjacent to landing.	  			
CS09-02	13/12/2023	External Accommodation Rooms	1) No hi vis (yellow) tread installed onto the nosing of each stair. 2) Minor different in stair risers identified but considered a minor risk in this situation.	C. Unlikely	2. Minor	Low	1) Hi vis (yellow) non-slip tread to be installed on the nosing of each stair. 2) No action required.				
CS09-03	13/12/2023	Gym	1) No hi vis (yellow) tread installed onto the nosing of each stair. 2) 180mm gap between the building and handrail. Minimal risk of a injury in this situation.	C. Unlikely	2. Minor	Low	1) Hi vis (yellow) non-slip tread to be installed on the nosing of each stair. 2) No action required.	 			
CS09-04	13/12/2023	Non-Potable Water Storage Tank	1) No purpose built landing is available. Personnel land on uneven rocks / surface. 2) No hi vis (yellow) tread installed onto the nosing of each stair. 3.1) Top of the stairs is used as a work platform. 3.2) No self closing gate has been installed for the work platform. 3.3) No top handrail has been installed on the right handside of the stairs.	C. Unlikely	3. Severe	Medium	1) Clear the ground and pour a concrete landing. 2) Install hi vis (yellow) tread onto the nosing of each stair. 3) Redesign the stairs or replace the stairs, so that AS requirements are met (e.g. self closing gate, adequate size landing, edge protection).				
CS09-05	13/12/2023	Potable Water Storage Tank	1) Portable stairs are being used for both access and as a work platform, for the inspection hatch and fitting on the top of the tank. 2) No hi vis (yellow) tread installed onto the nosing of each stair. 3) No purpose built landing is available. Personnel land on uneven rocks / surface.	C. Unlikely	2. Minor	Low	1) Option A: Install concrete landing for platform ladder to be set up on. Option B: Install a purpose built platform and access stairs or ladder that is AS compliant. 2) Install hi vis (yellow) tread onto the nosing of each stair. 3) Clear the ground and pour a concrete landing.				
CS09-06	13/12/2023	Dangerous Good Storage Shed - Access Road Side	1) No landing for personnel is available, but concrete pads were installed for landing the stairs on. This poses a trip hazard and the uneven ground does not meet best practice or AS1657 requirements of 600mm minimum. 2) No hi vis (yellow) tread installed onto the nosing of the stairs.	C. Unlikely	2. Minor	Low	1) Pour a landing that meets AS requirements and eliminates the trip hazard. 2) Install hi vis (yellow) tread onto the nosing of the stairs.	 			

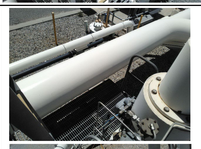
Reference	Date added	Location on Site	Issue	Likelihood	Consequence	Risk Score	Suggestions	Evidence	What is being completed	Date planned for completion	Date completed
CS09-07	13/12/2023	Dangerous Good Storage Shed - Storage Tank Side	1) Only 1 handrail has been installed and no kick plate has been installed. This provides potential to climb through.	B. Remote	3. Severe	Low	1) Install kick plate and handrail. If access is required then install a self closing gate on one side.				
CS09-08	13/12/2023	Dangerous Good Storage Shed - GEA Lub Oil Storage Tank	1.1) Handrail does not meet AS requirement of 900mm. 1.2) No gate at the top of the work platform. 1.3) Work platform is not fit for purpose, including is missing top handrail and handrails on the front face. 2.1) Gap between structure and tank (~400mm). 2.2) Gap in floor where personnel can access and floor.	D. Occasional	3. Severe	Medium	1) Replace the access ladder and platform with access ladder and platform, with handrails, self closing gate and hi vis tread that meets AS requirements. 2) Modify the design of the flooring and install handrail to prevent a fall into the bund. Consider access means for removal of waste and cleaning of the bund.				
CS09-09	13/12/2023	Diesel Powered Generator (Energen) - Multiple Access Doors	1.1) Portable stairs being used for both access and to work from. 1.2) No hi vis (yellow) tread installed onto the nosing of each stair. 2) No designated landing available. Personnel step onto loose blue metal.	D. Occasional	2. Minor	Low	1) Replace the portable stairs with permanent access stairs (with work platform if required) that is AS compliant. 2) Pour a landing that meets AS requirements.	 			
CS09-10	13/12/2023	Diesel Powered Generator (Energen) - Double Doors	1) No access stairs or platform identified during inspection. Anticipate the portable stairs are used for access and as a work platform.	D. Occasional	2. Minor	Low	1) Install a permanent access stairs (with work platform if required) that is AS compliant. 2) Pour a landing that meets AS requirements.				
CS09-11	13/12/2023	Electrical Substation - East Side	1) No hi vis (yellow) tread installed onto the nosing of each stair.	B. Remote	2. Minor	Low	1) Install hi vis (yellow) tread onto the nosing of the stairs.				
CS09-12	13/12/2023	Electrical Substation - West Side	1) No hi vis (yellow) tread installed onto the nosing of each stair.	B. Remote	2. Minor	Low	1) Install hi vis (yellow) tread onto the nosing of the stairs.				
CS09-13	13/12/2023	Load Bank 3	1) The landing does not meet AS1657 requirements of 600mm minimum.	C. Unlikely	2. Minor	Low	1) Extend the landing.				
CS09-14	13/12/2023	Element A / Element B	1) The landing does not meet AS1657 requirements of 600mm minimum.	C. Unlikely	2. Minor	Low	1) Extend the landing.				
CS09-15	13/12/2023	Unknown Pit adjacent to the Storeroom	1) No signage on the pit lids and no cable markers or other indicator / signage was identified.	B. Remote	2. Minor	Low	1) Identify the purpose of the pit and install signage or other means if warranted.				

Reference	Date added	Location on Site	Issue	Likelihood	Consequence	Risk Score	Suggestions	Evidence	What is being completed	Date planned for completion	Date completed
CS09-16	13/12/2023	Storeroom	1) No hi vis (yellow) tread installed onto the nosing of each stair. 2) No designated landing available. Personnel step onto loose blue metal.	B. Remote	2. Minor	Low	1) Install hi vis (yellow) tread onto the nosing of the stairs. 2) Pour a landing that meets AS requirements.				
CS09-17	13/12/2023	GEA 1 (Modra 09-01)	1) Landing for the doors on one side of the GEA does not meet AS1657 requirements of 600mm minimum. 2) The landing for the doors on one side of the GEA have a section of small bore piping that poses a trip hazard.	C. Unlikely	3. Severe	Medium	1) Extend the landing. 2) Option A: Reroute the piping to outside of the walkway. Option B: Install a step over it to eliminate potential interaction with the piping at the access door. Spray paint (yellow) the remaining section of pipe to highlight the hazard.	 			
CS09-18	13/12/2023	GEA 2 (Modra 09-02)	1) Landing for the doors on one side of the GEA does not meet AS1657 requirements of 600mm minimum. 2) The landing for the doors on one side of the GEA have a section of small bore piping that poses a trip hazard.	C. Unlikely	3. Severe	Medium	1) Extend the landing. 2) Option A: Reroute the piping to outside of the walkway. Option B: Install a step over it to eliminate potential interaction with the piping at the access door. Spray paint (yellow) the remaining section of pipe to highlight the hazard.	 			
CS09-19	13/12/2023	GEA 1 / GEA 2 - After Cooler Fans	1) No hi vis (yellow) tread installed onto the ladder rungs. 2) The landing for the ladder does not meet AS1657 requirements of 600mm minimum.	C. Unlikely	2. Minor	Low	1) Install hi vis (yellow) tread onto the ladder rungs. 2) Extend the landing.	 			
CS09-20	13/12/2023	Energen DEA - 2 x Sides	1) Temporary steps (width 1000mm, depth 300mm) have been provided on both sides to enable access to the work platform. The temporary steps complies with the AS requirement with the excemption of: - Step up from the ground to first step (300mm) and from the last stair onto the work platform (380mm) (AS requirement is 300-450mm requires a minimum of 1 step be provided); - Riser is 300mm (AS requirement is 130-225mm). 2) No handrails have been installed for the access stairs. 3) The work platform has no edge protection installed (width 2500mm, depth 290mm). This creates a fall risk of 1000mm. Note: Conversations with FMOs confirmed that the black work platform is used during inspection and maintenance tasks and when refuelling. 4) No hi vis (yellow) tread installed on the nosing of the stairs and work platform.	D. Occasional	3. Severe	High	1) Remove the temporary stairs with a purpose built access stairs that complies with the AS requirements. 2) The replacement access stairs are designed and installed with both handrails in place. Note: Relocating the existing equipment on south side may be required. 3) Redesign or replace the work platform with a purpose build platform that complies with the AS requirements including adequate edge protection. 4) Install hi vis (yellow) non-slip tread installed on the nosing of the stairs and work platform.	 			

Reference	Date added	Location on Site	Issue	Likelihood	Consequence	Risk Score	Suggestions	Evidence	What is being completed	Date planned for completion	Date completed
CS09-21	13/12/2023	Unit 1 - After Cooler Fans	1) No hi vis (yellow) tread installed onto the ladder rungs. 2) The landing for the ladders (from ground to first platform) does not meet AS1657 requirements of 600mm minimum. 3) The step up from the landing to the first ladder rung exceeds AS requirements. 4) There is no method for accessing the top of the after cooler fans without climbing onto structural steel and being exposed to a fall.	C. Unlikely	4. Major	High	1) Install hi vis (yellow) tread onto the ladder rungs. 2) Extend the landing. 3) Modify the ladder or install a intermediate step to ensure the step up distances in AS1657 are met. 4) Consider installing a platform to enable access to the top of the after cooler fans.	 			
CS09-22	13/12/2023	Mobile Scaffold - Inside of Unit 1 After Cooler Fans Enclosure	1) No hi vis (yellow) tread installed onto the ladder rungs. 2) No handrail and self closing gate around the ladder opening. 3) The mid rail on one side of the mobilise scaffold is missing.	C. Unlikely	3. Severe	Medium	1) Install hi vis (yellow) tread onto the ladder rungs. 2) Install handrail and self closing gate (or equivalent) around the ladder opening. 3) Install a mid rail on the missing side of the mobile scaffold.	 			
CS09-23	13/12/2023	Unit 1 - Access doors	1) No designated landing available. Personnel step onto loose blue metal.	B. Remote	2. Minor	Low	1) Pour a landing that meets AS requirements.				
CS09-24	13/12/2023	Unit 1 - Access Stairs	1) No hi vis (yellow) tread installed onto the nosing of each stair.	C. Unlikely	2. Minor	Low	1) Install hi vis (yellow) tread onto the nosing of each stair.	 			
CS09-25	13/12/2023	Unit 1 - Suction Valve (Middle Platform)	1) No self closing gate has been installed. This leaves an open edge when working on the platform. 2) No handrail or kick plate on the south side of platform (where pipe is positioned)	C. Unlikely	2. Minor	Low	1) Install a self closing gate at the top of the ladder. 2) Consider installing handrail and kick plate so edge protection is provided on all side of the platform.	 			
CS09-26	13/12/2023	Unit 1 - Bettis Equipment	1) No hi vis (yellow) tread installed onto the nosing of each stair.	C. Unlikely	2. Minor	Low	1) Install hi vis (yellow) tread onto the nosing of each stair.	 			

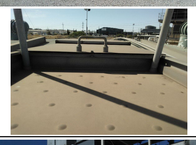
Reference	Date added	Location on Site	Issue	Likelihood	Consequence	Risk Score	Suggestions	Evidence	What is being completed	Date planned for completion	Date completed
CS09-27	13/12/2023	Bettis Equipment Near After Coolers (UV1316)	1) Accessing the ladder and the landing is obstructed by FMB 6 Cabinet. ~350mm usable of landing. 2) No hi vis (yellow) tread installed onto the nosing of each stair. 3) No handrail install on side where Bettis Equipment is installed. Potential to lose balance and fall.	C. Unlikely	3. Severe	Medium	1) Move FMB6 Cabinet if feasible. If not feasible, consider using hi vis paint and/or padding to reduce risk of injury. 2) Install hi vis (yellow) tread onto the nosing of each stair. 3) Consider installing handrails that provide edge protection without impacting access for operation / maintenance tasks.	 			
CS09-28	13/12/2023	After Cooler Fans - Mobile Scaffold on Ground Level	1) No hi vis (yellow) tread installed onto the ladder rungs. 2) No handrail and self closing gate around the ladder opening. 3) The mid rail on one side of the mobilise scaffold is missing.	C. Unlikely	3. Severe	Medium	1) Install hi vis (yellow) tread onto the ladder rungs. 2) Install handrail and self closing gate (or equivalent) around the ladder opening. 3) Install a mid rail on the missing side of the mobile scaffold.				
CS09-29	13/12/2023	Middle Platform (Access Way) For After Cooler Fans	1) No hi vis (yellow) tread installed onto the ladder rungs. 2) The landing for the ladders (from ground to first platform) does not meet AS1657 requirements of 600mm minimum.	C. Unlikely	2. Minor	Low	1) Install hi vis (yellow) tread onto the ladder rungs. 2) Extend the landing.	 			
CS09-30	13/12/2023	Top Platform for each After Cooler Fan	1.1) There is no method for accessing this platform from the below walkway without climbing onto structural steel and being exposed to a fall. 1.2) Gap between the existing handrail and the structure on both sides of the platform. This poses a potential of a slip / trip. 2) No hi vis (yellow) tread installed onto the ladder rungs.	C. Unlikely	4. Major	High	1.1) Install signage to highlight the fall from height risk until a suitable means of access is installed. 1.2) Modify the platform to - allow for safe access to the top of the fans; - eliminate or reduce the gap between the existing handrail and floor / structure. 2) Install hi vis (yellow) tread onto the ladder rungs.				
CS09-31	13/12/2023	Access Stairs Between Compressor Station Plant and Ordorant Storage Facilities	1) Some stairs only one handrail installed. 2) Some stairs do not have a designated landing at the top and/or bottom. In some cases it is dirt or blue metal. 3) One landing does not meet AS requirements. 4) No hi vis (yellow) tread installed onto the nosing of each stair.	C. Unlikely	2. Minor	Low	1) Install a handrails for the stairs without a handrail on both sides. 2) Pour a landing that meets AS requirements, where one does not already exist. 3) Extend the landing to meet AS requirements. 4) Install hi vis (yellow) tread onto the nosing of each stair.	  			

Reference	Date added	Location on Site	Issue	Likelihood	Consequence	Risk Score	Suggestions	Evidence	What is being completed	Date planned for completion	Date completed
CS09-32	13/12/2023	2 x Mercaptain Vessels	1) No non-slip tread on the access ladder rungs.	B. Remote	2. Minor	Low	1) Install hi vis (yellow) non-slip tread on the ladder rungs.	 			
CS09-33	13/12/2023	Mercaptain Storage Vessel and Frame	1) Ladder does not meet AS requirements (e.g. full length, no handrails, no gate). Note: Unclear if this structure is mothballed. FMOs / Superintendent to advised.	C. Unlikely	3. Severe	Medium	1) Modify or replace the access stairs that meet AS requirements.	 			
CS09-34	13/12/2023	Platform for HV2318	1) Landing does not meet AS requirement of 900mm	C. Unlikely	2. Minor	Low	1) Extend the landing.				
CS09-35	13/12/2023	Platform for PS2316	1) Landing does not meet AS requirement of 900mm	C. Unlikely	2. Minor	Low	1) Extend the landing.				
CS09-36	13/12/2023	Platform above UV2306	1) Landing does not meet AS requirement of 900mm	C. Unlikely	2. Minor	Low	1) Extend the landing.	 			
CS09-37	13/12/2023	Multiple Risers and Vents around Site	1) Access to Risers and Vents up to maintenance tasks are currently completed using a platform ladder on blue metal. This creates the potential for the ladder to be unstable and cause a fall from height.	C. Unlikely	3. Severe	Medium	Option A: Install concrete landing for platform ladder to be set up on. Option B: Install a purpose built platform and access stairs or ladder that is AS compliant.	  			

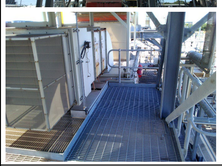
Reference	Date added	Location on Site	Issue	Likelihood	Consequence	Risk Score	Suggestions	Evidence	What is being completed	Date planned for completion	Date completed
CS09-38	13/12/2023	Multiple Walkways over Pipework	1) Some access stairs do not have hi vis (yellow) tread installed on the nosing of each stair.	D. Occasional	2. Minor	Low	1) Install hi vis (yellow) tread on the nosing on the stairs.				
CS09-39	13/12/2023	Unit 3 Pipework (South Side) - Access Ladder For Valtek Flowserve Platform	1) Gate is not self closing (manual drop bar) and therefore is not AS compliant. It is also reliant on human behaviour to close the gate after each use. 2) No hi vis (yellow) tread is installed on the nosing of top platform / top ladder rung.	C. Unlikely	2. Minor	Low	1) Replace the existing gate with a self closing gate. 2) Install hi vis (yellow) tread on the nosing top platform / top ladder rung.				
CS09-40	13/12/2023	Unit 3 Pipework (South Side) - Platform For Valtek Flowserve	1) Gap (200mm) between the grid mesh and adjacent pipework does not meet AS requirements. 2) Gap (260mm) between the handrails and adjacent pipework does not meet AS requirements.	C. Unlikely	1. Trivial	Low	1) Modify the platform and install kick plates to reduce the risk of a trip / fall through the open edges. 2) Modify the handrail to eliminate or reduce the gap between the handrail and adjacent pipework.	 			
CS09-41	13/12/2023	Combustible Liquid Tank - South of Unit 3	1) Portable stairs are being used for both access and as a work platform. The riser also exceeds AS requirements. 2) No hi vis (yellow) tread installed onto the nosing of each stair.	C. Unlikely	3. Severe	Medium	1) Replace the temporary stairs with purpose built access stairs and platform that meets AS requirements.				
CS09-42	13/12/2023	Unit 3 Fuel Gas Skid	1) Access to Risers and Vents up to maintenance tasks are currently completed using a platform ladder on blue metal. This creates the potential for the ladder to be unstable and cause a fall from height.	C. Unlikely	3. Severe	Medium	Option A: Extend the concrete landing to provide room for a platform ladder to be set up on it. Option B: Install a purpose built platform and access stairs or ladder that is AS compliant.	 			
CS09-43	13/12/2023	Bettis Equipment Platform	1) No hi vis (yellow) tread installed onto each ladder rung. 2) No handrail install on side where Bettis Equipment is installed. Potential to lose balance and fall.	C. Unlikely	3. Severe	Medium	1) Install hi vis (yellow) tread onto the ladder rungs. 2) Consider installing handrails that provide edge protection without impacting access for operation / maintenance tasks.				
CS09-44	13/12/2023	Equipment Room Near Unit 2	1) Two sets of access stairs do not have hi vis (yellow) tread installed on the nosing of each stair.	D. Occasional	2. Minor	Low	1) Install hi vis (yellow) tread on the nosing on the stairs.	 			
CS09-45	13/12/2023	Desiccant Dryers x 2	1) No hi vis (yellow) tread installed on the nosing of the platform.	B. Remote	2. Minor	Low	1) Install hi vis (yellow) tread onto the nosing of the two access points.				

Reference	Date added	Location on Site	Issue	Likelihood	Consequence	Risk Score	Suggestions	Evidence	What is being completed	Date planned for completion	Date completed
CS09-46	13/12/2023	Platform for HV1318	1) Landing does not meet AS requirement of 900mm	C. Unlikely	2. Minor	Low	1) Extend the landing.				
CS09-47	13/12/2023	Unit 1 Building adjacent to the Exhaust Stack	1) The landing does not meet AS1657 requirements of 600mm minimum and poses a trip hazard to personnel entering / exiting these doors.	C. Unlikely	2. Minor	Low	1) Extend the landing.				
CS09-48	13/12/2023	Unit 1 Exhaust Stack - Platform	1) Landing does not meet AS requirement of 900mm. 2) No hi vis (yellow) tread installed onto each ladder rung.	C. Unlikely	2. Minor	Low	1) Extend the landing. Install hi vis (yellow) tread onto the ladder rungs.	 			

Reference	Date added	Location on Site	Issue	Likelihood	Consequence	Risk Score	Suggestions	Evidence	What is being completed	Date planned for completion	Date completed
	2/02/2023	**Example** - Lube oil cooler unit 1	1) Landing does not meet AS requirement of 900mm 2) Stair treads too narrow and no non-slip				1.1) Remove old landing and install new precast one 1.2) Pour new landing 2.1) Replace ladder with new treads and non-slip		Replace ladder and landing. Pour new landing		
CS10-01	16/11/2023	Unit 3 Fire Suppression System Cabinet	1) Insufficient head room for personnel to walk under the cross bracing without having to duck down. This is a accesss route between the Unit 3 stairs and the Fire Suppression System Cabinet. Note: INX-19106 FMO struck head on the steel bracing. FAI Injury.	D. Occasional	2. Minor	Low	1) Option A: Install a handrail to prevent personnel using this as a access route (shortcut). Option B: Install hi vis tape and/or scaff pad (or similar) to highlight the hazard and protect personnel if contact is made.	 			
CS10-02	15/12/2023	Office / Crib Room - Access Doors	1) Concrete steps do not have hi vis installed on nosing.	C. Unlikely	2. Minor	Low	1) Install hi vis tape or similar onto the nosing of the concrete steps.	 			
CS10-03	15/12/2023	Breezeway between Office / Crib Room and Control Room	1) No hi vis (yellow) tread installed on the nosing of the stairs / platform.	C. Unlikely	2. Minor	Low	1) Install hi vis (yellow) non-slip tread installed on the nosing of the stairs / platform.				
CS10-04	15/12/2023	Equipment Room A	1) No hi vis (yellow) tread installed on the nosing of the stairs.	C. Unlikely	2. Minor	Low	1) Install hi vis (yellow) non-slip tread installed on the nosing of the stairs.	 			
CS10-05	15/12/2023	Control Room / Substation - Rear Doors	1) Concrete steps do not have hi vis installed on nosing.	C. Unlikely	2. Minor	Low	1) Install hi vis tape or similar onto the nosing of the concrete steps.				

Reference	Date added	Location on Site	Issue	Likelihood	Consequence	Risk Score	Suggestions	Evidence	What is being completed	Date planned for completion	Date completed
CS10-06	15/12/2023	Cummins Power Generator	1.1) No landing for accessing Emergency Stop (E-Stop) button. Personnel required to step / stand on blue metal in event of an emergency (slip hazard). 1.2) No landing for for two access doors.	C. Unlikely	2. Minor	Low	1) Pour new landings at the E-Stop button and access doors.	 			
CS10-07	15/12/2023	Load Bank	1) No landing installed for personnel to stand on.	C. Unlikely	2. Minor	Low	1) Pour a new landing.				
CS10-08	15/12/2023	Equipment Room B	1) No hi vis (yellow) tread installed on the nosing of the stairs.	C. Unlikely	2. Minor	Low	1) Install hi vis (yellow) non-slip tread installed on the nosing of the stairs.				
CS10-09	15/12/2023	5000L Green Tank	1) Access to the inspection hatch on the top of the tank is current by only possible by setting up a platform ladder on blue metal. This creates the potential for the ladder to be unstable and cause a fall from height. *Note: Potential for a fall of ~2m.*	C. Unlikely	3. Severe	Medium	1) Option A: Install concrete landing for platform ladder to be set up on. Option B: Install a purpose built platform and access stairs or ladder that is AS compliant.				
CS10-10	15/12/2023	Potable Water Tank (Larger Green Tank)	1) No purpose built landing is available. Personnel land on uneven blue metal / surface. 2) No hi vis (yellow) tread installed onto the nosing of each ladder rung. 3.1) Top of the ladder is used as a work platform. 3.2) No self closing gate has been installed for the work platform. 3.3) Handrails do not meet AS requirements	C. Unlikely	3. Severe	Medium	1) Clear the ground and pour a concrete landing. 2) Redesign the ladder and work platform or replace the stairs and work platform, so that AS requirements are met (e.g. self closing gate, adequate size landing, edge protection, hi vis tread on ladder rungs).	 			
CS10-11	15/12/2023	Unit 1 Access Stairs - East and West Sides	1) No hi vis (yellow) tread installed on the nosing of the stairs. 2) No landing available at the base of the stairs on the East side of Unit 1. 3) No handrails have been installed on the stairs on the West side of Unit 1.	C. Unlikely	2. Minor	Low	1) Install hi vis (yellow) non-slip tread installed on the nosing of the stairs. 2) Pour a new landing. 3) Install handrails on both sides of each set of stairs on the Wes side of Unit 1.	 			
CS10-12	15/12/2023	Unit 1 Access Stairs - South Side	1) No hi vis (yellow) tread installed on the nosing of the stairs. 2) No handrails have been installed on the stairs on the South side of Unit 1.	C. Unlikely	3. Severe	Medium	1) Install hi vis (yellow) non-slip tread installed on the nosing of the stairs. 2) Pour a new landing. 3) Install handrails on the outer edges and centre of the stair cases on the South side of Unit 1.				

Reference	Date added	Location on Site	Issue	Likelihood	Consequence	Risk Score	Suggestions	Evidence	What is being completed	Date planned for completion	Date completed
CS10-13	15/12/2023	Unit 1 Storage Shed and Access Path Beneath Platform	1) Hi vis tape applied to cross beams that protrude into the access path, commonly used by personnel.	B. Remote	3. Severe	Low	1) Recommend installing Scaff Pads or similar, to protect personnel in the event of contact being made.				
CS10-14	15/12/2023	Unit 1 Middle Platform	1) Chain used as a gate for the platform. Chain would likely break in the event of a fall. 2) No hi vis (yellow) tread installed each ladder rung.	C. Unlikely	4. Major	High	1) Replace the chain with a self closing gate that meets AS1657 requirements. 2) Install hi vis (yellow) tread to each ladder rung.	 			
CS10-15	15/12/2023	Unit 1 Top Platform	1) Chain used as a gate for the platform. Chain would likely break in the event of a fall. 2) No hi vis (yellow) tread installed each ladder rung.	C. Unlikely	4. Major	High	1) Replace the chain with a self closiing gate that meets AS1657 requirements. 2) Install hi vis (yellow) tread to each ladder rung.	 			
CS10-16	15/12/2023	Unit 2 Access Stairs - East and West Sides	1) No hi vis (yellow) tread installed on the nosing of the stairs. 2) No landing available at the base of the stairs on the East side of Unit 2. 3) No handrails have been installed on the stairs on the West side of Unit 2.	C. Unlikely	2. Minor	Low	1) Install hi vis (yellow) non-slip tread installed on the nosing of the stairs. 2) Pour a new landing. 3) Install handrails on both sides of each set of stairs on the Wes side of Unit 2.	 			
CS10-17	15/12/2023	Unit 2 Access Stairs - South Side	1) No hi vis (yellow) tread installed on the nosing of the stairs. 2) No handrails have been installed on the stairs on the South side of Unit 2.	C. Unlikely	2. Minor	Low	1) Install hi vis (yellow) non-slip tread installed on the nosing of the stairs. 2) Pour a new landing. 3) Install handrails on the outer edges and centre of the stair cases on the South side of Unit 2.				
CS10-18	15/12/2023	Unit 2 Storage Shed and Access Path Beneath Platform	1) Hi vis tape applied to cross beams that protrude into the access path, commonly used by personnel.	B. Remote	3. Severe	Low	1) Recommend installing Scaff Pads or similar, to protect personnel in the event of contact being made.				

Reference	Date added	Location on Site	Issue	Likelihood	Consequence	Risk Score	Suggestions	Evidence	What is being completed	Date planned for completion	Date completed
CS10-19	15/12/2023	Unit 2 Middle Platform	1) Chain used as a gate for the platform. Chain would likely break in the event of a fall. 2) No hi vis (yellow) tread installed each ladder rung.	C. Unlikely	4. Major	High	1) Replace the chain with a self closiing gate that meets AS1657 requirements. 2) Install hi vis (yellow) tread to each ladder rung.				
CS10-20	15/12/2023	Unit 2 Top Platform	1) Chain used as a gate for the platform. Chain would likely break in the event of a fall. 2) No hi vis (yellow) tread installed each ladder rung.	C. Unlikely	4. Major	High	1) Replace the chain with a self closing gate that meets AS1657 requirements. 2) Install hi vis (yellow) tread to each ladder rung.				
CS10-21	15/12/2023	Unit 3 Access Stairs	1) No hi vis (yellow) tread installed on the nosing of the stairs. 2) Pipe crosses walkway creating a head high hazard as personnel reported walking under it.	C. Unlikely	2. Minor	Low	1) Install hi vis (yellow) non-slip tread installed on the nosing of the stairs. 2) Consider installing barricading to prevent access below the pipe. Or alternatively install hi vis tap and Scaff Pad (or similar padding) to highlight and protect personnel from the hazard.	 			
CS10-22	15/12/2023	Unit 3 Access Pathway and Access to Cabinets / Controls	1) No hi vis (yellow) tread installed on the nosing of the stairs. 2) Platform poses a head high hazard for tall personnel	C. Unlikely	2. Minor	Low	1) Install hi vis (yellow) non-slip tread installed on the nosing of the stairs. 2) Consider installing hi vis tap and Scaff Pad (or similar padding) to highlight and protect personnel should contact be made.				
CS10-23	15/12/2023	Unit 3 Access Pathway and Fire Suppression Cabinet	Refer to CS10-02.								
CS10-24	15/12/2023	Unit 3 Middle Platform	1) Gaps in handrails and structure were identified. The gaps varied between 150mm and 250mm (AS states maximum of 100mm). Note: Cross beam prevents a fall from occuring.				No Action Required.	 			
CS10-25	15/12/2023	Unit 3 Top Platform	No design risks identified. Situational/task based risk may exist.				No Action Required.				

Reference	Date added	Location on Site	Issue	Likelihood	Consequence	Risk Score	Suggestions	Evidence	What is being completed	Date planned for completion	Date completed
CS10-26	15/12/2023	Unit 3 Air X-Changers	1) Access to the top of the equipment, fans and small bore piping in some locatiions, by setting up a platform ladder on blue metal. This creates the potential for the ladder to be unstable and cause a fall from height. *Note: Potential for a fall of up to ~3m.*	C. Unlikely	3. Severe	Medium	1) Option A: Install concrete landing for platform ladder to be set up on. Option B: Install a purpose built platform and access stairs or ladder that is AS compliant.	 			
CS10-27	15/12/2023	Telecommunications Tower	1) Unlike some other Repeater Stations, the ladder at this location can be access from ground level. No gate or means of accessing the ladder on a platform at height to prevent unauthorised access, has been implemented. 2) No fall restraint/arrest system in place for personnel using the ladder. This exposes personnel to a significant fall that would likely result in a fatality or serious injury. 3) No hi vis (yellow) anti-slip tread installed on the ladder rungs. They are currently smooth metal rungs. 4) No landing is available. Personnel step off / onto blue metal.	C. Unlikely	4. Major	High	1) Consider installing a lockable gate or similar and signage is provided to prevent unauthorised access. 2) Install a certified fall restraint/arrest system that is suitable for the end users. 3) Install hi vis (yellow) anti-slip tread on the ladder rungs. 4) Pour a new landing.				
CS10-28	15/12/2023	Unit 3 Fuel Gas Skid - Platform	1) To access the top vent, a safety step on the platform grid mesh deck is required. This practice puts personnel at risk of a fall, including over the existing handrail.	C. Unlikely	4. Major	High	1) Option A: Modify the platform or install additional platform to provide access. Option B: Install additional handrails to permit a safety step to be used on the platform whilst edge protection is available.	 			
CS10-29	15/12/2023	Unit 3 Fuel Gas Skid - East and West Sides	1) No hi vis tread installed on the edge of skid. 2) No hi vis (yellow) tread installed on the nosing of the stairs. 3) Work platform on the East side does not meet AS requirements for depth (actual 430mm, AS requires >=600mm) and step up (actual 330mm, AS requires 1 stair for 300-450mm). 4) Concrete footings pose a trip hazard.	C. Unlikely	3. Severe	Medium	1) Install hi vis (yellow) non-slip tread installed on the nosing of the skid. 2) Install hi vis (yellow) non-slip tread installed on the nosing of the stairs. 3) Modify the work platform to meet AS requirements (i.e. step up, depth). 4) Option A: Extend the concrete landing to incorporate the whole of the walkway. Optiion B: Install additional blue metal until level with the concrete footing.	 			

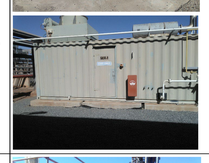
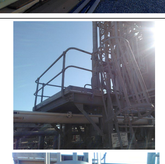
Reference	Date added	Location on Site	Issue	Likelihood	Consequence	Risk Score	Suggestions	Evidence	What is being completed	Date planned for completion	Date completed
CS10-30	15/12/2023	Bettis Equipment Installed on Pipework for Unit 1/2	1) No landing available at the base of the ladders and equipment panels.	C. Unlikely	2. Minor	Low	1) Pour a new landing for access ladders and equipment panels.	  			
CS10-31	15/12/2023	Bettis Equipment Installed on Pipework for Unit 1/2 - Platforms	1) Gap between the pipe / structure and grid mesh and no kick plate, creates the potential for personnel to fall. 2) No handrail to prevent personnel climbing between the platform and pipework at the end the platform. 3) No hi vis tread installed on the nosing of the platform.	C. Unlikely	3. Severe	Medium	1) Modify the platform to eliminate the potential for a fall through the gap. 2) Consider installing handrails at the end of the platform to prevent personnel from climbing betwee the adjacent pipework and the platform. 3) Install hi vis (yellow) non-slip tread installed on the nosing of the platform.				
CS10-32	15/12/2023	Bettis Equipment Installed above Pipework for Unit 1/2 - Platforms	1) Current design requires personnel to work from platform ladders on blue metal. This creates the potential for the ladder to be unstable and cause a fall from height. There is also the potential that some personnel may choose to site on the pipework itself.	C. Unlikely	3. Severe	Medium	1) Option A: Install concrete landing for platform ladder to be set up on. Option B: Install a purpose built platform and access stairs or ladder that is AS compliant.	 			
CS10-33	15/12/2023	Various Valves installed above Ground Level	1) Several actuated and hand valves are installed above ground level and where a platform ladder or safety step is required to access them. Setting these up on blue metal creases the potential for them to be unstable and cause a fall from height.	C. Unlikely	3. Severe	Medium	1) Option A: Install concrete landing for platform ladder or safety step to be set up on. Option B: Install a purpose built platform and access stairs or ladder that is AS compliant.				
CS10-34	15/12/2023	Inspection / Access Pit for Hand Valve - East Side of CS10	1) Design of the ladder and hold points does not allow for easy access to / from and creates the potential for a fall. 2) No non-slip tread on ladder rungs.	B. Remote	3. Severe	Medium	1) Modify or replace the ladder, ensuring it extends 1m past the top landing, with sufficient locations to hold onto when mounting / dismounting the ladder and provides easy access to personnel. 2) Modified or replacement ladder to have hi vis (yellow) non-slip tread installed on the rungs.	 			

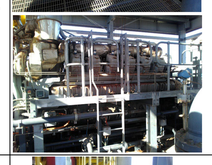
Reference	Date added	Location on Site	Issue	Likelihood	Consequence	Risk Score	Suggestions	Evidence	What is being completed	Date planned for completion	Date completed
CS10-35	15/12/2023	Middle Platform (Access Way) For After Cooler Fans	1) No hi vis (yellow) tread installed onto the ladder rungs. 2) The landing for the ladders (from ground to first platform) does not meet AS1657 requirements of 600mm minimum.	C. Unlikely	2. Minor	Low	1) Install hi vis (yellow) tread onto the ladder rungs. 2) Extend the landing.	  			
CS10-36	15/12/2023	Top Platform for each After Cooler Fan	1.1) There is no method for accessing this platform from the below walkway without climbing onto structural steel and being exposed to a fall. 1.2) Gap between the existing handrail and the structure on both sides of the platform. This poses a potential of a slip / trip. 2) No hi vis (yellow) tread installed onto the ladder rungs.	C. Unlikely	4. Major	High	1.1) Install signage to highlight the fall from height risk until a suitable means of access is installed. 1.2) Modify the platform to - allow for safe access to the top of the fans; - eliminate or reduce the gap between the existing handrail and floor / structure. 2) Install hi vis (yellow) tread onto the ladder rungs.	 			
CS10-37	15/12/2023	Desiccant Dryers x 2	1) No hi vis (yellow) tread installed on the nosing of the platform. 2) Landing does not meet AS requirement of 900mm and poses a trip / slip hazard. 3) No kick plate, grid mesh or other means installed to stop personnel inadverently placing their feet in the gaps. This creates the potential for a slip / trip / fall incident to occur.	C. Unlikely	3. Severe	Medium	1) Install hi vis (yellow) tread onto the nosing of the two access points. 2) Extend the landing 3) Install kick plates, grid mesh or similar means.	 			
CS10-38	15/12/2023	Unit 4 Fuel Gas Skid - Platform	1) To access the top vent, a safety step on the platform grid mesh deck is required. This practice puts personnel at risk of a fall, including over the existing handrail.	C. Unlikely	4. Major	High	1) Option A: Modify the platform or install additional platform to provide access. Option B: Install additional handrails to permit a safety step to be used on the platform whilst edge protection is available.				
CS10-39	15/12/2023	Unit 4 Fuel Gas Skid - East and West Sides	1) No hi vis tread installed on the edge of skid. 2) Work platform on the East side does not meet AS requirements for depth (actual 430mm, AS requires >=600mm) and step up (actual 330mm, AS requires 1 stair for 300-450mm). 3) Concrete footings pose a trip hazard.	C. Unlikely	3. Severe	Medium	1) Install hi vis (yellow) non-slip tread installed on the nosing of the skid. 2) Modify the work platform to meet AS requirements (i.e. step up, depth). 3) Option A: Extend the concrete landing to incorporate the whole of the walkway. Optiion B: Install additional blue metal until level with the concrete footing.	 			

Reference	Date added	Location on Site	Issue	Likelihood	Consequence	Risk Score	Suggestions	Evidence	What is being completed	Date planned for completion	Date completed
CS10-40	15/12/2023	Unit 4 Access Stairs	1) Pipe crosses walkway creating a head high hazard as personnel reported walking under it.	C. Unlikely	2. Minor	Low	1) Consider installing barricading to prevent access below the pipe. Or alternatively install hi vis tap and Scaff Pad (or similar padding) to highlight and protect personnel from the hazard.	 			
CS10-41	15/12/2023	Unit 4 Air X-Changers	1) Access to the top of the equipment, fans and small bore piping in some locatiions, by setting up a platform ladder on blue metal. This creates the potential for the ladder to be unstable and cause a fall from height. *Note: Potential for a fall of up to ~3m.*	C. Unlikely	3. Severe	Medium	1) Option A: Install concrete landing for platform ladder to be set up on. Option B: Install a purpose built platform and access stairs or ladder that is AS compliant.	 			
CS10-42	15/12/2023	Unit 4 Fire Suppression System Cabinet	1) Insufficient head room for personnel to walk under the cross bracing without having to duck down. This is a accesss route between the Unit 4 stairs and the Fire Suppression System Cabinet. Note: INX-19106 FMO struck head on the steel bracing at identical location at Unit 3. FAI Injury.	D. Occasional	2. Minor	Low	1) Option A: Install a handrail to prevent personnel using this as a access route (shortcut). Option B: Install hi vis tape and/or scaff pad (or similar) to highlight the hazard and protect personnel if contact is made.				
CS10-43	15/12/2023	Unit 4 Middle Platform	1) Gaps in handrails and structure were identified. The gaps varied between 150mm and 250mm (AS states maximum of 100mm). Note: Cross beam prevents a fall from occuring.				No Action Required.	 			
CS10-44	15/12/2023	Unit 4 Top Platform	No design risks identified. Situational/task based risk may exist.				No Action Required.				
CS10-45	15/12/2023	Waste Tank T-1404	1) Access stairs and work platform do not meet AS requirements (e.g chain used as gate, steps not deep enough, no hi vis tread on stair nosing).	C. Unlikely	3. Severe	Medium	1) Remove the existing access stairs / work platform and install with AS compliant stairs, platform and landing.	 			

Reference	Date added	Location on Site	Issue	Likelihood	Consequence	Risk Score	Suggestions	Evidence	What is being completed	Date planned for completion	Date completed
CS10-46	15/12/2023	Desiccant Dryers x 2	1) No hi vis (yellow) tread installed on the nosing of the platform. 2) Landing does not meet AS requirement of 900mm and poses a trip / slip hazard.	C. Unlikely	2. Minor	Low	1) Install hi vis (yellow) tread onto the nosing of the two access points. 2) Extend the landing	 			
CS10-47	15/12/2023	Unit 4 Vent	1) Access to Unit 4 Vents up to ~5m for maintenance tasks are currently completed using a platform ladder on blue metal. This creates the potential for the ladder to be unstable and cause a fall from height.	C. Unlikely	3. Severe	Medium	1) Option A: Install concrete landings for platform ladder to be set up on. Option B: Install a purpose built platforms and access stairs or ladders that are AS compliant.				
CS10-48	15/12/2023	Scrubber Skid and Platform	1) Landing for the access ladder does not meet AS requirement of 900mm and poses a trip / slip hazard. 2) Ladder rungs do not have hi vis anti-slip tread installed. The ladder rungs were painted yellow. 3) Access to the Piping / Vents / Valves up to ~5m for maintenance tasks are currently completed using a platform ladder on blue metal. This creates the potential for the ladder to be unstable and cause a fall from height.	C. Unlikely	3. Severe	Medium	1) Extend the landing for the access ladder. 2) Install hi vis (yellow) tread onto all Ladder rungs. 3) Option A: Install concrete landings for platform ladder to be set up on. Option B: Install a purpose built platforms and access stairs or ladders that are AS compliant.	 			
CS10-49	15/12/2023	Scrubber Drain Tank T-0101	1) The work platform (step) has no edge protection installed (width 1830mm, depth 370mm, height 350). This creates a fall risk of 350mm. Note: Conversations with FMOs confirmed that the black work platform is used during inspection and maintenance tasks and when refuelling. 2) Step up of 350mm exceeds AS requirements (300-450mm requires 1 step). 3) No hi vis (yellow) tread installed on the nosing of the platform.	C. Unlikely	3. Severe	Medium	1) Modify or replace the work platform to meet AS1657 requirements. 2) Install the required number of stairs to provide access to the modified / new work platform, in line with AS1657 requirements. 3) Install hi vis (yellow) tread onto the nosing of the work platform.				
CS10-50	15/12/2023	Pipework - Various Rises / Vents / Piping	1) Access to Piping, Risers and Vents up to ~5m for maintenance tasks are currently completed using a platform ladder on blue metal. This creates the potential for the ladder to be unstable and cause a fall from height.	C. Unlikely	3. Severe	Medium	1) Option A: Install concrete landings for platform ladder to be set up on. Option B: Install a purpose built platforms and access stairs or ladders that are AS compliant.	  			

Reference	Date added	Location on Site	Issue	Likelihood	Consequence	Risk Score	Suggestions	Evidence	What is being completed	Date planned for completion	Date completed
CS10-51	15/12/2023	Throughout Site - Multiple Access Stairs and Platforms (Hop Ups)	1) No hi vis (yellow) tread installed onto the nosing of each stair.	D. Occasional	2. Minor	Low	1) Hi vis (yellow) non-slip tread to be installed on the nosing of each stair.	 			
CS10-52	15/12/2023	Throughout Site - Multiple Cable Pits	1) Multiple Cable Pits are located in access paths for personnel and/or vehicle and mobile equipment. This poses a trip hazards and potential for asset damage.	D. Occasional	2. Minor	Low	1) Relocate the Cable Pits to locations outside of access paths, where it is practical to do so. The remaining pits are to be painted with hi vis colour or have hi vis tape applied to highlight them.				

Reference	Date added	Location on Site	Issue	Likelihood	Consequence	Risk Score	Suggestions	Evidence	What is being completed	Date planned for completion	Date completed
TGS-1	27/03/2024	Access Stairs adjacent to the Diesel Fuel Tank	1) No landing for one side of stairs. Blue metal has been built up to bottom stair.	B. Remote	2. Minor	Low	1) Monitor blue metal levels and if difficult to maintain, replace with a concrete landing.	 			
TGS-2	27/03/2024	T-764 Combustible Liquid Tank and Bund	1) Stepping into and out of bund is too high. No hopovers available. 2) The landing around the tank base of the ladder has a lip and is a trip / slip hazard. Step up to first ladder rung further impacted. 3) The ladder rungs do not have hi vis anti slip tread. 4) A chain has been used at the top of the ladder in lieu of a self closing gate. The chain likely break if a person falls onto it.	C. Unlikely	3. Severe	Medium	1) Install stairs to provide hopover access for the bund. 2) Install landing below the access ladder to eliminate lip and excessive step up. 3) Install hi vis (yellow) anti slip tread onto all ladder rungs. 4) Replace the chain with a self closing gate.	 			
TGS-3	27/03/2024	2 x Access Stairs for Electrical Substation	1) The stairs have landings that does not meet the AS1657 requirements. 2) The stairs are installed on top of concrete steps due to being the incorrect size.	C. Unlikely	3. Severe	Medium	1) Pour a new landing for both staircases. 2) Replace both ladders with the correct size, to ensure it runs from the landing to the platform.	 			
TGS-4	3/04/2024	External Bund for Switchboard and G762 Lube Oil Tank (Adjacent to Electrical Substation)	1) No handrails for 2 x concrete stairs for accessing bund. 2) No anti slip nosing on 2 x concrete stairs. 3) No landing for 2 x concrete stairs and 1 x grid mesh stairs.	C. Unlikely	2. Minor	Low	If requipment is not mothballed: 1) Install handrails for stairs. 2) Install hi vis (yellow) anti-slip nosing on all concrete stairs. 3) Install concrete landing at 3 x stairs.	 			
TGS-5	4/04/2024	Able Generator 200 KVA	1) Step up from ground level into bund slightly exceeds AS1657 requirements (actual 310mm, >300mm stairs required). Consult with TGS OPS to determine if the lip prevents safe access to generator for servicing, etc. They may use a safety step.	B. Remote	2. Minor	Low	1) No action required.				
TGS-6	4/04/2024	GEA 1-3	1) The concrete landing for each GEA is too small to be used as step when using the side access doors. 2) No landing for the side access doors. 2) No hi vis anti slip tread on stair nosing.	D. Occasional	2. Minor	Medium	1.1) Extend the exisiting landing so it meets the AS1657 requirements for stairs. 2) Pour a concrete landing 3) Install hi vis (yellow) anti slip tread on nosing of the stairs.	 			
TGS-7	4/04/2024	GEA 2 - Scaffold	Unclear if access and scaffolding is still required. Discuss with TGS OPS. 1) No scaffold tag present. If scaffolding is still required, then install a scaff-tag and discuss permanent access solution with TGS OPS. 2) No scaffold tag present. If scaffold is not required, then dismantle and remove.	B. Remote	3. Severe	Low	1) Discuss solutions with TGS OPS. 2) Remove scaffold				
TGS-8	4/04/2024	Platform adjacent to XY-7506	Mothballed Equipment - If brought back online, assessment to be completed and modifications made to achieve compliance with AS1567.				Mothballed Equipment - Pending assessment if brought back online.	 			
TGS-9	4/04/2024	Platform for Mothballed Tank	Mothballed Equipment - If brought back online, assessment to be completed and modifications made to achieve compliance with AS1567.				Mothballed Equipment - Pending assessment if brought back online.	 			
TGS-10	4/04/2024	Access to Risers / Vents (North Side of Plant)	1) Access to Risers and Vents for maintenance tasks currently completed using a platform ladder on blue metal. This creates the potential for the ladder to be unstable and cause a fall from height.	B. Remote	3. Severe	Medium	1) Option A: Install concrete landing for platform ladder to be set up on. Option B: Install a purpose built platform and access stairs or ladder that is AS compliant.				
TGS-11	4/04/2024	Platform adjacent to XV-7048 - Also means of access over pipework	1) A drop bar has been installed for both ladders. A self closing gate is required by AS1657. 2) The step up from ground level to the first ladder rung exceeds AS1657 requirement of <=150mm). 3) No landing at the base of both ladders. 4) No hi vis anti-slip tread installed on ladder rungs.	C. Unlikely	3. Severe	Medium	1) Replace the drop bar with a self closing gate at the top of each ladder. 2) Modify the ladder to meet step up requirements. 3) Pour a landing at the base of both ladders. 4) Install hi vis (yellow) anti-slip tread on all ladder rungs.	 			

TGS-12	4/04/2024	Multiple Risers / Vents adjacent to K163 Compressor	1) No means of access identified. Confirm means of access with TGS OPS.	C. Unlikely	3. Severe	Medium	1) Option A: Install concrete landing for platform ladder to be set up on. Option B: Install a purpose built platform and access stairs or ladder that is AS compliant.				
TGS-13	4/04/2024	K163 Compressor - Motor Access Platform x 2	1) No hi vis anti-slip tread installed on ladder rungs.	B. Remote	2. Minor	Low	1) Install hi vis (yellow) anti slip tread onto all ladder rungs.	 			
TGS-14	4/04/2024	K163 Compressor - Access Ladder and Platform for Oil Tank (?)	1) Landing does not meet AS requirement of 900mm. Gap between existing concrete also identified. 2) No hi vis anti-slip tread installed on ladder rungs.	C. Unlikely	2. Minor	Medium	1) Pour a new landing. 2) Install hi vis (yellow) anti slip tread onto all ladder rungs.	 			
TGS-15	4/04/2024	K163 After Cooler Fans - North Platform	1) Landing does not meet AS requirement of 900mm. 2) No hi vis anti-slip tread installed on ladder rungs (400mm width).	C. Unlikely	2. Minor	Medium	1) Pour a new landing. 2) Install hi vis (yellow) anti slip tread onto all ladder rungs.	 			
TGS-16	4/04/2024	K163 After Cooler Fans - South Platform	1) Landing does not meet AS requirement of 900mm. 2) No hi vis anti-slip tread installed on ladder rungs (400mm width).	C. Unlikely	2. Minor	Medium	1) Pour a new landing. 2) Install hi vis (yellow) anti slip tread onto all ladder rungs.				
TGS-17	4/04/2024	After Cooler Fans - 2 x Ladders and Platforms adjacent to Workshop	1) Landing does not meet AS requirement of 900mm. 2) No hi vis anti-slip tread installed on ladder rungs.	C. Unlikely	2. Minor	Medium	1) Pour a new landing. 2) Install hi vis (yellow) anti slip tread onto all ladder rungs.	 			
TGS-18	4/04/2024	Process Gas Pipework and Vessel - Ladder and Top Platform	1) A drop bar has been installed at the top of the ladder. A self closing gate is required by AS1657. 2) The ladder does not run to the concrete landing and there the step up to the first ladder rung exceeds AS1657 requirement of <=150mm). 3) No hi vis anti-slip tread installed on ladder rungs.	C. Unlikely	3. Severe	Medium	1) Replace the drop bar with a self closing gate at the top of the ladder. 2) Option A: Modify or replace the ladder, so it runs the full length to the landing, ensuring the step up requirements are also met. Option B: Install a step(s) and landing that is flush with the ladder, to ensure the step up and handrail requirements are met, where applicable). 3) Install hi vis (yellow) anti-slip tread on all ladder rungs.	 			
TGS-19	4/04/2024	Process Gas Pipework and Flange - Ladder and Middle Platform	1) A drop bar has been installed for both ladders. A self closing gate is required by AS1657. 2) The step up from ground level to the first ladder rung exceeds AS1657 requirement of <=150mm). 3) Landing does not meet AS requirement of 900mm. Existing landing is uneven surface as well. 4) No hi vis anti-slip tread installed on ladder rungs.	C. Unlikely	3. Severe	Medium	1) Replace the drop bar with a self closing gate at the top of each ladder. 2) Modify the ladder to meet step up requirements. 3) Pour or modify the existing landing to meet AS1657 requirements. 4) Install hi vis (yellow) anti-slip tread on all ladder rungs.	 			
TGS-20	4/04/2024	K162 Compressor - Access Ladder and Platform for Oil Tank (?)	1) Landing does not meet AS requirement of 900mm. Gap between existing concrete also identified. 2) No hi vis anti-slip tread installed on ladder rungs.	C. Unlikely	2. Minor	Medium	1) Pour a new landing. 2) Install hi vis (yellow) anti slip tread onto all ladder rungs.	No photos taken.			
TGS-21	4/04/2024	K162 After Cooler Fans - North Platform	1) Landing does not meet AS requirement of 900mm. 2) No hi vis anti-slip tread installed on ladder rungs (400mm width).	C. Unlikely	2. Minor	Medium	1) Pour a new landing. 2) Install hi vis (yellow) anti slip tread onto all ladder rungs.	No photos taken.			

TGS-22	4/04/2024	K162 After Cooler Fans - South Platform	1) Landing does not meet AS requirement of 900mm. 2) No hi vis anti-slip tread installed on ladder rungs (400mm width).	C. Unlikely	2. Minor	Medium	1) Pour a new landing. 2) Install hi vis (yellow) anti slip tread onto all ladder rungs.	No photos taken.			
TGS-23	4/04/2024	Multiple Risers / Vents adjacent to K162 Compressor	1) No means of access identified. Confirm means of access with TGS OPS.	C. Unlikely	3. Severe	Medium	1) Option A: Install concrete landing for platform ladder to be set up on. Option B: Install a purpose built platform and access stairs or ladder that is AS compliant.	No photos taken.			
TGS-24	22/05/2024	Slug Catcher - Platform above the Bypass Line	1) Landing does not meet AS1657 requirement (260mm depth / 600mm width measure required to confirm) and has a slight drop off. 2) Gap between the handrail and vessel creates an open edge and exceeds AS requirements (370mm). 3) No hi vis anti slip tread installed on ladder rungs. Notes: -24/05/2024 Discussed and with Rick and follow up email sent. - Measurements requested from Brenan when he returns on 6th June 2024. - Rick to lead the remediation of this as part of the existing expansion project unless agreed upon otherwise. - Measurements and photos requested during KM's site trip 04-05/06.	C. Unlikely	3. Severe	Medium	1) Install additional metal floor or pour concrete to create suitable landing. 2) Extend handrail to vessel (max 100mm gap). 3) Install hi vis (yellow) anti slip tread onto all ladder rungs.				
TGS-25	28/05/2024	Griffin MLV - Platform	1.1) Platform does not have 360 edge protection, just on two sides. 1.2) No mid rail or kick plate. 1.3) No self closing gate on the platform. 1.4) Size of platform unlikely to be large enough to accommodate change and be suitable or end user. 2) No hi vis nosing on ladder rungs. 3) No concrete landing. Landing on soil / weeds. Potential fall ~1m. Notes: - Measurements required to support replacement of platform and make it AS1657 compliant. - Measurements and photos requested during KM's site trip 04-05/06.	C. Unlikely	3. Severe	Medium	1) Replace the platform to make it AS1657 compliant. 2) Install hi vis (yellow) anti slip nosing onto ladder rung. 3) Pour a landing.				
TGS-26	5/06/2024	Evaporation Pond / Oily Water Weir	1) Design does not comply with AS1657 requirements and creates a access and working at height risk. *Notes:* *- Identified and advice provided on redesign in Q1 March 2023.* *- Reraised at TGS HSE Workgroup Meeting, inclusive of erosion / environmental risk identified. Updated photos provided by Kelvin Lambert in June 2024.*	C. Unlikely	3. Severe	Medium	1) Redesign access and work platform to comply with AS1657 requirements. *Notes:* *- Improvement works will be completed seperately to the W@H Project works as budget is already available.* *- Expected completion by end of 2024. PM is Paul.*	 			
TGS-27											
TGS-28											
TGS-29											
TGS-30											
TGS-31											
TGS-32											

TDS-33	TDS-34	TDS-35	TDS-36	TDS-37	TDS-38	TDS-39	TDS-40	TDS-41	TDS-42	TDS-43	TDS-44

TDS-45	TDS-46	TDS-47	TDS-48	TDS-49	TDS-50															

Likelihood	Consequence	Risk Score
A. Hypothetical	1. Trivial	Low
B. Remote	2. Minor	Medium
C. Unlikely	3. Severe	High
D. Occasional	4. Major	
E. Frequent	5. Catastrophic	