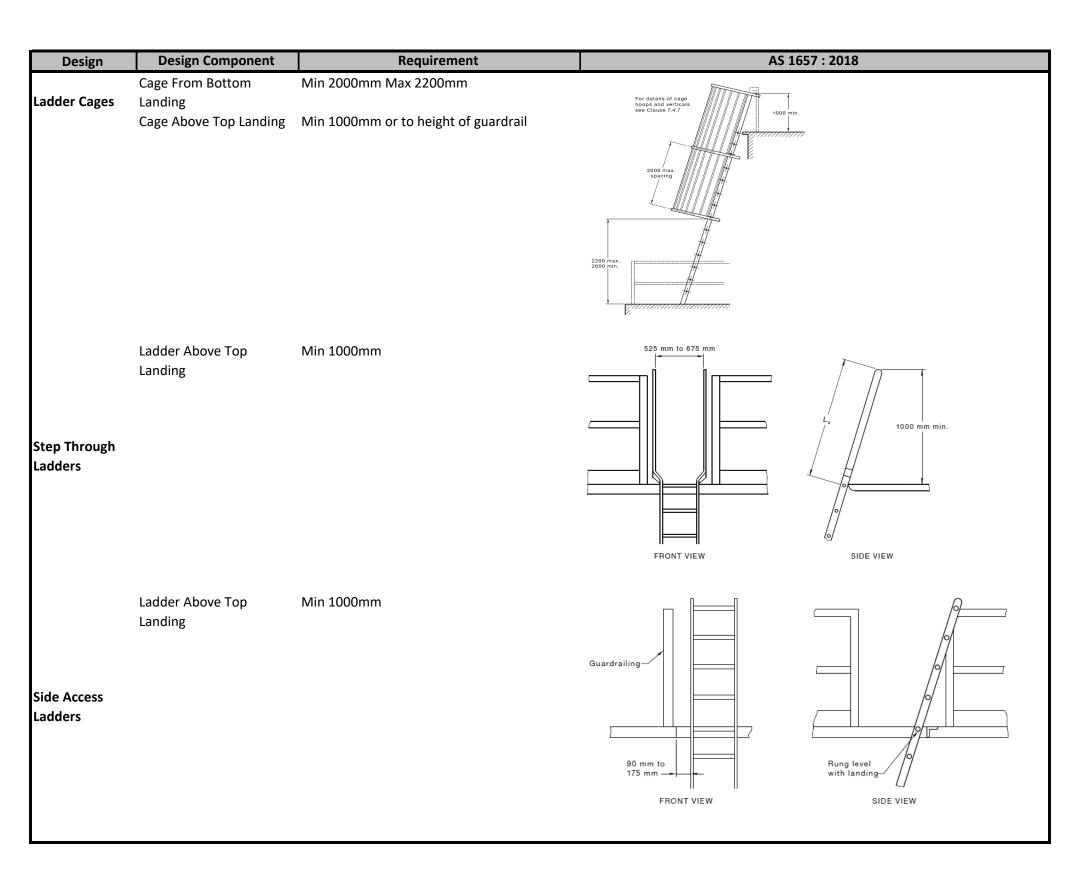


Design	Design Component	Requirement	AS 1657 : 2018
	Head room	2000mm	
	Walkway width	Min 600mm	
Walkway	End of	Clearly visable (Yellow) Non-slip nosing	
,	Height Difference	<300mm	No stairs required.
	between Walkways,	Min 300mm Max 450mm	Minimum of 1 step required.
	Platforms and Landings	>450mm	Access stairs, ladder or sloping walkway required.
	Gap	Max 100mm from structure	
	Gap Gap	Min 25mm Max 50mm between joins	· ·
	Bottom (Start Point)	Max 90mm above landing	· ·
	Height	Min 900mm Max 1100mm	1000mm or more if above 2m floor height
Handrail	Clearance	Min 50mm	2000
	Size Dia	Min 30mm Max 65mm	,
			· ·
	Mid rail	Max 450 from bottom with toe board 100mm,	
		Max 450 from top	
Ct -:	Tuanda	Classic visable (Valley) Non din nosing	35 AS 1657:2018
Stairs	Treads Tread Depth	Clearly visable (Yellow) Non-slip nosing Min 185mm	
	Tread Depth Handrail		Landing —
	Bottom landing	2 or more steps 900mm long	Tread
	Width	Min 600mm	Tread depth (TD)
	Flight	Min 2 Max 18 risers	185 min.
	Riser	Min 130mm Max 225	Combination 540 ≤ (2R + G) ≤ 700
	Going	Min 215mm Max 355	Riser range 130 ≤ R ≤ 225
	Nosing	Clearly visable (Yellow)	Landing
	Landing	Min 600mm from bottom tread	Transf and 20 may
	Landing	Width of stairs	Going range 215 ≤ G ≤ 355
	Slope	Min 20 degrees Max 45 degrees	DIMENSIONS IN MILLIMETRES
	Pungs	Non-slip grip	x ≥ 900 mm
	Rungs Rungs	Min 20mm Max 50mm	
Ladders	Rungs From Bottom	<=150mm of landing	
Ludde. 5	Landing	Vertical above landing	
	Landing bottom	Min 900mm long from bottom rung	
	Landing top	Swing gate at top	
	23 0	• 6 0-1-2	
			→
	Chara Darith (Trood)	Notes 400	
	Step Depth (Tread)	Min 100mm	
	Spacing of Tread Angle	Min 200mm Max 300mm apart 60 Min 70 Max	
	Angle	Min 900mm long from bottom rung	900 min. (1000 pref.)
		Min 600mm width or width of landing which	
	Landing bottom	ever is greater	Toeboard
	Landing top	Swing gate at top	
	Ladder Enclosure (cage,	Fall of >6 metres	
	side screen or other)	Tull 0.75 met. 55	200 min.
Step Type	Jide 30. 33 1. 1 1		1000 min. if 60° 900 min. if 70°
Ladders			
			200 max. If 60° 150 min. If 70°
			Tread
			Rise
			Going
			900 max.
			70° max. 60° min.
			andanahalahanadananananananananananananananananan



			191 - 191 1	1.0	Di Lo				
Reference Date Added	d Site	Issue	Likelihood	Consequence	Risk Score Suggestions	ns Evidence	Date Planned For Completion	Date Completed	Comments
MLV010-1 19/03/2024	All Areas	No design risks identified. Situational/task based risk may exist.			No Action Required.	No reference photo taken.			
MLV144-1 5/03/2024	MLV144 - All Areas	1) Access to Risers and Vents ~1200mm 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. 2) Cable markers / inspection pits pose a trip hazard	C. Unlikely	2. Minor	1) Option A: Install condlanding for platform lad set up on. Option B: Install a purpoplatform and access stalladder that is AS compliance works or build up above works or build up	rpose built tairs or pliant.			
MLV153-1 5/03/2024	MLV153 - All Areas	 Access to Risers and Vents ~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. Cable markers / inspection pits pose a trip hazard. Spare piping is being stored onsite, near the roadside fencing. 	C. Unlikely	3. Severe	1) Option A: Install condlanding for platform lad set up on. Option B: Install a purper platform and access stalladder that is AS compliance. Medium 2) Relocate, accommod above works or build up metal to eliminate the thazard. 3) Consider removing pothat is not being used a onsite near the roadside.	adder to be roose built stairs or pliant. Odation into up blue etrip pipework and stored			
MLV156 / MLV157-1	MLV156 / MLV157 - Water Bath Heater	1) Access to Risers and Vents ~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. 2) The landing for the platform ladder does not meet AS1657 requirements (actual 560mm, requirement min	C. Unlikely	3. Severe	1) Option A: Install condlanding for platform lad set up on. Option B: Install a purpoplatform and access stalladder that is AS compliance of the existing landing.	encrete adder to be repose built stairs or pliant.			
MLV156 / MLV157-2	MLV156 / MLV157 - Mercaptan Tank and Bund	 1.1) Steps provided on two sides of the bunds are loose and can move under your feet and do not meet the sizing requirements in AS1657. 1.2) Step up from the ground, to hop over the bund is 450mm which requires 1-2 stairs (if 2 handrails too) to provide safe access in line with AS1657. 2) Small piping poses a trip hazard if 	C. Unlikely	2. Minor	1) Remove the temporal and provide permanent stairs that comply with 2) Install a hop over or pipes yellow so they stated 3) Consider installing his (yellow) anti slip tread on nosing of the platform vaccess will access.	nt access th AS1657. or paint the stand out. thi vis d on the			
MLV102-1 12/02/2024	MLV102 - All Areas (except CS Pits)	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.	C. Unlikely	3. Severe	1) Option A: Install condlanding for platform lad set up on. Option B: Install a purpoplatform and access stalladder that is AS compli	rpose built tairs or pliant.			
MLV102-2 12/02/2024	MLV102 - 2 x CS Pits (1 inside fenced compound, 1 outside adjacent to compound)	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	ensuring it extends 1m top landing, with suffici locations to hold onto v mounting / dismounting ladder. 2) Modified or replacen	m past the icient o when ing the			

Reference	Date Added	Site	Issue	Likelihood	Consequence	Risk Score	Suggestions	Evidence	Date Planned For Completion	Date Completed	Comments
MLV095-1	16/07/707/	MLV095 and Eneabba Meter Station - Multiple Risers	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.	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.				23/04/2024 Raised with Robert Van Der Wilk and requested the recommended actions are incorporated into the Eneabba Meter Station Re-Lifing Project, during the Design Review Meeting. 05/06/2024 Robert advised Paul Reilly he will address this action item.
MLV095-2	16/02/2024	MLV095 and Eneabba Meter Station - Inspection Pit	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.				23/04/2024 Raised with Robert Van Der Wilk and requested the recommended actions are incorporated into the Eneabba Meter Station Re-Lifing Project, during the Design Review Meeting. 05/06/2024 Robert has requested this item to be covered by Paul Reilly's W@H Improvement Project.
MLV095-3	16/07/707/	MLV095 and Eneabba Meter Station - Pav Hut	 The landing for the stairs does not meet AS1657 requirements of 900mm. Stair riser exceeds AS1657 requirement of 130-225mm (actual 300mmm). No hi vis (yellow) tread installed onto the nosing of each stair. 	C. Unlikely	2. Minor	Low	 Pour a new landing. Replace stair with AS1657 compliant stairs. Install hi vis (yellow) tread onto the nosing of each stair. 				23/04/2024 Raised with Robert Van Der Wilk and requested the recommended actions are incorporated into the Eneabba Meter Station Re-Lifing Project, during the Design Review Meeting. 05/06/2024 Robert has requested this item to be covered by Paul Reilly's W@H Improvement Project.
MLV095-4	16/02/202/	MLV095 and Eneabba Meter Station - Metering Skid	 No non-slip tread on the edge of skid and nosing of stairs. Requirement for handrail and stair risers in AS1657 not met. Landing does not meet the AS1657 requirements and is currently blue metal. 	C. Unlikely	2. Minor	Low	 Install hi vis (yellow) non-slip tread installed on the edge of the skid and nosing of all stairs. Replace stairs and install handrail that meets AS1657 requirements. Pour a landing that meets AS requirements. 				23/04/2024 Raised with Robert Van Der Wilk and requested the recommended actions are incorporated into the Eneabba Meter Station Re-Lifing Project, during the Design Review Meeting. 05/06/2024 Robert has requested this item to be covered by Paul Reilly's W@H Improvement Project.
MLV114-1	13/12/2023 N	MLV114 - All Areas	1) Access to Risers and Vents ~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.				

Reference Date Added	Site	Issue	Likelihood	Consequence	Risk Score	Suggestions	Evidence	Date Planned For Completion	Date Completed	Comments
	Station - Multiple Risers	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.	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.				
	Station - Metering Skid	1) No non-slip tread on the edge of skid and nosing of stairs. 2) Landing does not meet the AS requirements and is currently blue metal.	C. Unlikely	2. Minor	Low	1) Install hi vis (yellow) non-slip tread installed on the edge of the skid and nosing of all stairs. 2) Pour a landing that meets AS requirements.				
MLV091-3 2/10/2023	Station - Mercantan Skid and Bund	1) No access stairs for personnel to use to enter / exit bund (height 400mm). Small concerete block sighted that may being used as a step.	D. Occasional	2. Minor	Medium	 1.1) Install access stairs on two sides of the bund. If 2 or more steps are in place, then handrails are required. 1.2) Install hi vis (yellow) non-slip strip on the nosing of each stair. 1.3) Pour a landing for each access stairs, that meet AS requirements. 				

Reference Date Added Site	lssue L	ikelihood Consequence	Risk Score Suggestions	Evidence	Date Planned For Completion Date	ate Completed	Comments
MLV009-1 26/07/2023 All Areas	No design risks identified. Situational/task based risk may exist.			No reference photo taken.			
MLV066-1 22/05/2023 MLV066 - All Areas excluding the Inspection Pit	1) Access to Risers up to 2900mm and Vents up to 3340mm 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.	. Unlikely 3. Severe	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.				
MLV066-2 22/05/2023 MLV066 - Inspection Pit	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.	. Remote 3. Severe	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) nonslip tread installed on the rungs.				
MLV071-1 22/05/2023 MLV071 - All Areas	1) Access to Risers up to 2200mm and Vents up to 2500mm 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.	. Unlikely 3. Severe	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 Site	Issue Likelihood Consequence	Risk Score Suggestions	Evidence Date Planned For Completion Date Completed Comments
	No design risks identified. Situational/task based risk may exist.	No Action Required.	
MLV042-1 21/04/2023 MLV042 - All Areas	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. C. Unlikely 3. Severe	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.	
MLV047-1 21/04/2023 MLV047 - All Areas	No design risks identified. Situational/task based risk may exist.	No Action Required.	
MLV054-1 21/04/2023 MLV054 - All Areas	No design risks identified. Situational/task based risk may exist.	No Action Required.	
MLV142-1 13/04/2023 MLV142 - Pav Hut (Cream Colour) - North Side	1) The Step Up is 330mm and does not meet AS requirements (=<300mm) slightly. C. Unlikely 2. Minor 2) No hi vis (yellow) strip on the nosing (ends) of the stairs.	1) No action required as only minimum exceedance of AS requirements. 2) Install hi vis (yellow) non-slip strip on the nosing of each stair.	
MLV142-2 13/04/2023 MLV142 - Pav Hut (Cream Colour) - West Side (north side pictured)	1) The Step Up is 310mm and does not meet AS requirements (=<300mm) slightly. C. Unlikely 2. Minor (ends) of the stairs.	1) No action required as only minimum exceedance of AS requirements. 2) Install hi vis (yellow) non-slip strip on the nosing of each stair.	
MLV142-3 13/04/2023 MLV142 - Green Hut - East Side	1.1) The stair risers are 100mm and 250mm and therefore do not meet the AS requirements (130-225mm). 1.2) The current state of the ground conditions has created a trip / fall hazard when using the door (e.g. concrete pad is not width to act as the landing).	Low 1) Install additional blue metal to create level ground and eliminate the trip / fall hazard when entering / exiting the hut.	
MLV142-4 13/04/2023 MLV142 - Green Hut - South Side	1.1) The stair risers are 100mm and 250mm and therefore do not meet the AS requirements (130-225mm). 1.2) The current state of the ground conditions has created a trip / fall hazard when using the door (e.g. concrete pad is not width to act as the landing). C. Unlikely 2. Minor	1) Install additional blue metal to create level ground and eliminate the trip / fall hazard when entering / exiting the hut.	
MLVXXX-1 2/02/2023 Example - TEG unit	1) Landing does not meet AS requirement of 900mm long	1.1) Remove old landing and install new precast one 1.2) Pour new landing	

Reference Date Added Site Issue Likelihood Consequence Risk Score Suggestions Evidence Date Planned For Completion Date Completed	Comments
MLVXXX-1	
MLVXXX-1	
MLVXXX-1	
MLVXXX-1	
MLVXXX-1	
MLVXXX-1	

Reference	e Date Added Site Issue	Likelihood	Consequence	Risk Score	Suggestions Evidence	Date Planned For Completion	Date Completed	Comments
MLVXXX-1								
MLVXXX-1								
MLVXXX-1								
MLVXXX-1								
MLVXXX-1								
MLVXXX-1								
MLVXXX-1								
MLVXXX-1								

Reference	Date Added Site Issue	Likelihood	Consequence	Risk Score	Suggestions Evidence	Date Planned For Completion	Date Completed	Comments
MLVXXX-1								
MLVXXX-1								
MLVXXX-1								
MLVXXX-1								
MLVXXX-1								
MLVXXX-1								
MLVXXX-1								
MLVXXX-1								
MLVXXX-1								
MLVXXX-1								
MLVXXX-1								
MLVXXX-1								
MLVXXX-1								
MLVXXX-1								
MLVXXX-1								

Reference	Date Added Site	Issue	Likelihood	Consequence	Risk Score	Suggestions	Evidence	Date Planned For Completion	Date Completed	Comments
MLVXXX-1										
MLVXXX-1										
MLVXXX-1										
MLVXXX-1										
MLVXXX-1										
MLVXXX-1										
MLVXXX-1										
MLVXXX-1										

Reference	Date Added	l Site	Issue	Likelihood	Consequence	Risk Score	Suggestions	Evidence	Date Planned For Completion	Date Completed	Comments
Ashburton	16/07/2024	Ashburton Port Meter Station - Controls Shelter	 No landing has been installed beneath where the step and handrails will be (once installed). Notes: Step pictured at the Solar Skid is actually for the Controls Shelter according to the Construction Crew. Handrails are inside the Controls Shelter, awaiting installation. 16/07/2024 Raised with Jeromie Gasper as construction project is still in progress. 	C. Unlikely	2. Minor	Low	1) Pour a landing. Notes: - The landing needs to be at least the width of the stairs (step is 1800mm wide) The depth of landing will need to be 600mm from the bottom stair.				
Ashburton Port Meter Station - 2	116/07/2024	Ashburton Port Meter Station - Solar Skid x 2	 No concrete landing for personnel to step on / off when accessing the panel side of the solar skid. Step up from ground onto the skid exceeds the step up requirements under AS1657 (actual 320mm, 200-449mm needs 1 step). No handrails to stop personnel falling or stepping off the skid and insufficient room when opening the panel door. Potential fall is 320mm. Distance from the panel to edge of skid is 710mm (minimum distance for platform and walkway is 600mm). Notes: Pictured step is for the Controls Shelter according to the Construction Crew. Raised with Jeromie Gasper as construction project is still in progress. 		2. Minor	Low	1) Pour a landing for access point(s). 2.1) Option A: Have the landing site 50mm above ground level to eliminate the need of a intermediate step for access. 2.2) Option B: Install a intermediate step. 3) Consider installing handrails around the skid, taking into account distance of panel door opening.				
Pluto Interconnec Compressor / Metering Station - 15		Oil IBC	 If personnel stand on the bund, they are exposed to a fall. If personnel use a ladder, they are exposed to a fall if the ladder slips on blue metal. Note: INX-19744 raised by Ben Riddle. The oil spear has to be put into the top of the oil pod, so you have to stand on the side of the bund or work from a ladder. Access frequency is every 15 days. 	C. Unlikely	3. Severe	Medium	1) Redesign the job to use a pump permanently set up on the bund with a relief in it and feed the pump from the bottom of the IBC. This eliminates the risk of a fall from height and reduces the risk of oil spills on blue metal during transfer of oil. Suggestions from Ben Riddle in INX-19744.				
Spur 1 - 1	22/04/2024	Spur 1 - Hut	Assessed using surveillance photo. Additional photos requested to confirm accuracy of assessment. 1) No handrails are installed and therefore the AS requirement (2 or more stairs) is not being met. 2) The stairs do not run the full length until the landing and entrance of hut. However the Step Up does currently meet	D. Occasional	3. Severe	Medium	1) Install handralls that run the full length of stairs and meet AS requirements. 2) Redesign the stairs to run from the landing to the entrance to the hut and meet the AS requirements and provide safe access. 3) Ensure hi vis (yellow) anti-slip troad is installed on the posing of				
Spur 1 - 2	22/04/2024	Spur 1 - Tower	No ladder access on tower is visible from surveillance photos. Scaffolding, EWP or other means of access would be required.				N.A.				

Spur 2 - 1 22/04/2024 Spur 2 - Hut Spur 2 - 2 22/04/2024 Spur 2 - Tower Spur 3 - 1 22/04/2024 Spur 3 - Hut	1) No handrails are installed and therefore			Risk Score	Suggestions Evidence	Date Planned For Completion Date Complete	d Comments
Spur 2 - 2 22/04/2024 Spur 2 - Tower	the AS requirement (2 or more stairs) is				1) Install handrails that run the full length of stairs and meet AS		
Spur 2 - 2 22/04/2024 Spur 2 - Tower	not being met.				requirements.		
	2) The stairs do not run the full length	D. Occasional	3. Severe		2) Redesign the stairs to run from		
	until the landing and entrance of hut. However the Step Up does currently meet				the landing to the entrance to the hut and meet the AS		
	the AS requirement (300mm)				requirements and provide safe		
					access.		
	No ladder access on tower is visible from						
Spur 3 - 1 22/04/2024 Spur 3 - Hut	surveillance photos. Scaffolding, EWP or other means of access would be required.				N.A.		
Spur 3 - 1 22/04/2024 Spur 3 - Hut	·						
Spur 3 - 1 22/04/2024 Spur 3 - Hut							
Spur 3 - 1 22/04/2024 Spur 3 - Hut	1) No handrails are installed and therefore the AS requirement (2 or more stairs) is				1) Install handrails that run the		
Spur 3 - 1 22/04/2024 Spur 3 - Hut	not being met.				full length of stairs and meet AS requirements.		
Spur 3 - 1 22/04/2024 Spur 3 - Hut	2) The stairs do not run the full length				2) Redesign the stairs to run from		
Spur 3 - 1 22/04/2024 Spur 3 - Hut	until the landing and entrance of hut. However the Step Up does currently meet				the landing to the entrance to the		
Spur 3 - 1 22/04/2024 Spur 3 - Hut	the AS requirement (300mm)				hut and meet the AS requirements and provide safe		
	3) No hi vis (yellow) anti-slip tread	D. Occasional	3. Severe	Medium	access.		
	installed on the nosing of the stairs.				3) Ensure hi vis (yellow) anti-slip		
	4) The landing is smaller then the size				tread is installed on the nosing of all stairs (width 840mm).		
	required in the AS (minimum 600mm depth from bottom stair).				4) Remove the existing landing		
	Note: Assessed using surveillance photos.				and pour a new landing that		
	Onsite verification and measures required				meets AS requirements.		
Spur 3 - 2 22/04/2024 Spur 3 - Tower	No ladder access on tower is visible from surveillance photos. Scaffolding, EWP or other means of access would be required.				N.A.		
Spur 4 - 1 22/04/2024 Spur 4 - Hut	1) No handrails are installed and therefore the AS requirement (2 or more stairs) is not being met. 2) The stairs do not run the full length until the landing and entrance of hut. However the Step Up does currently meet the AS requirement (300mm) 3) No hi vis (yellow) anti-slip tread installed on the nosing of the stairs. 4) The landing is smaller then the size required in the AS (minimum 600mm depth from bottom stair). Note: Assessed using surveillance photos. Onsite verification and measures required	D. Occasional	3. Severe	Medium	1) Install handrails that run the full length of stairs and meet AS requirements. 2) Redesign the stairs to run from the landing to the entrance to the hut and meet the AS requirements and provide safe access. 3) Ensure hi vis (yellow) anti-slip tread is installed on the nosing of all stairs (width 840mm). 4) Remove the existing landing and pour a new landing that meets AS requirements.		

	o:-				l 5: 1 6					
Reference Date Added	Site	lssue 1) No access platform provided for ease of	Likelihood	Consequence	Risk Score	Suggestions 1) Install a access stairs/ladder	Evidence	Date Planned For Completion	Date Completed	Comments
Spur 4 - 2 22/04/2024 Spur 4 - To	ower	access to the ladder. Note: This may have not be provided for the purpose of preventing unauthorised access. 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.	C. Unlikely	4. Major	High	and platform to enable access to the ladder. Ensure 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) Assess if the installation a side				
Spur 5 - 1 22/04/2024 Spur 5 - Ho	ut	 No handrails are installed and therefore the AS requirement (2 or more stairs) is not being met. The stairs do not run the full length until the landing and entrance of hut. However the Step Up does currently meet the AS requirement (300mm) No hi vis (yellow) anti-slip tread installed on the nosing of the stairs. The landing is smaller then the size required in the AS (minimum 600mm depth from bottom stair). Note: Assessed using surveillance photos. Onsite verification and measures required 	D. Occasional	3. Severe	Medium	 Install handrails that run the full length of stairs and meet AS requirements. Redesign the stairs to run from the landing to the entrance to the hut and meet the AS requirements and provide safe access. Ensure hi vis (yellow) anti-slip tread is installed on the nosing of all stairs (width 840mm). Remove the existing landing and pour a new landing that meets AS requirements. 				
Spur 5 - 2 22/04/2024 Spur 5 - TE	G	1) No hi vis (yellow) anti-slip tread installed on the nosing of the stairs. 2) No handrails are installed and therefore the AS requirement (2 or more stairs) is not being met. Note: Non-compliance identified but not action is recommended as minimal risk of a fall from height and low usage. Assessed using surveillance photo. Additional photos requested to confirm accuracy of assessment.	B. Remote	2. Minor	Low	1) Ensure hi vis (yellow) anti-slip tread is installed on the nosing of all stairs (width top step 870mm, bottom step 770mm). 2) No action required.				
Spur 5 - 3 22/04/2024 Spur 5 - To	ower	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) The width of the ladder appears it does not meet the AS requirements (375mm to 525mm) and may create a hazard to personnel using the ladder. 4) No hi vis (yellow) anti-slip tread installed on the ladder rungs. They are currently smooth metal rungs. Note: Assessed using surveillance photo. Additional photos requested to confirm	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) Replace the ladder with a AS compliant ladder. 4) Install hi vis (yellow) anti-slip tread on the ladder rungs.				

Reference Date Added Site	Issue	Likelihood Consequence	Risk Score Suggestions	Evidence	Date Planned For Completion	Date Completed	C	omments
Spur 6 - 1 22/04/2024 Spur 5 - Hut	 No handrails are installed and therefore the AS requirement (2 or more stairs) is not being met. The stairs do not run the full length until the landing and entrance of hut. However the Step Up does currently meet the AS requirement (300mm) No hi vis (yellow) anti-slip tread installed on the nosing of the stairs. The landing is smaller then the size required in the AS (minimum 600mm depth from bottom stair). Note: Assessed using surveillance photos. Onsite verification and measures required. 	D. Occasional 3. Severe	1) Install handrails that run the full length of stairs and meet AS requirements. 2) Redesign the stairs to run from the landing to the entrance to the hut and meet the AS requirements and provide safe access. 3) Ensure hi vis (yellow) anti-slip tread is installed on the nosing of all stairs (width 840mm). 4) Remove the existing landing and pour a new landing that meets AS requirements.					
Spur 6 - 2 22/04/2024 Spur 5 - Tower	 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. 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. 	C. Unlikely 4. Major	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) Replace the ladder with a AS compliant ladder. 4) Install hi vis (vellow) anti-slip	d d				
Solomon Meter 8/04/2024 Hut Station - 1	Double Doors 1) No landing installed and personnel are landing on dirt. Single Door 2) Height for step up appears to exceed AS1657 requirements. Note: Assessed using surveillance photos. Onsite verification and measures required.	C. Unlikely 2. Minor	Double Doors 1.1) Pour a landing. Low Single Door 2) Take measurements onsite to verify step up height. Install stairs and pour new landing if required	s				
Solomon Meter 8/04/2024 Risers / Vents Station - 2	1) Access to some risers / vents for maintenance activities either requires a platform ladder set up on blue metal (slip risk) or use of a EWP (crush risk). Note: Assessed using surveillance photos. Onsite verification and measures required.	C. Unlikely 3. Severe	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.					
Solomon Meter Station - 3 8/04/2024 Passure Control Skid - External Edges with Equipment (e.g. Instrument Panels, Valves, PSV, Gauges)	1) Personnel performing maintenance activities are required to stand on blue metal or concrete blocks and/or over stretch to access equipment on external sides of the skid. Height up to ~2200mm above ground level. Note: Photos and measurements provided by Kelvin Logan (FMO - Offline Crew).	D. Occasional 2. Minor	1.1) Install a purpose built platform and access stairs that is AS compliant. 1.2) Pour a landing.	PI-303 PI				
Solomon Meter 8/04/2024 Metering Skid Station - 4	 1) Has blue metal as the landing surface. 2.1) Step up from ground level to the first stair appears to exceeds AS1657 requirements (300-450mm requires a step). 2.2) The stair riser appears exceeds the AS1657 requirements (130-225mm). 3) No hi vis (yellow) tread installed onto the nosing of each stair. 	C. Unlikely 2. Minor	1) Pour a landing to meet AS requirements. 2) Verify step up and riser of stairs and if require, replace the stairs with AS1657 compliant stairs. If 2 or more stairs are required, then handrails must be installed. 3) Install hi vis (yellow) tread onto the nosing of each stair.					

Reference Date Added	d Site	Issue	Likelihood	Consequence	Risk Score	Suggestions	Evidence	Date Planned For Completion	Date Completed	Comments
Solomon Meter 8/04/2024	Water Both Heaters x 2	Additional photos requested from Kelvin Logan/ Matthew Ware to complete	<u> </u>	Consequence	THISK GGGTG	0.0000000000000000000000000000000000000		Dute Francis Completion	Date completed	
Station - 5	Water both neaters x 2	assessment.								
Ashburton West 27/03/2024 Facility - 1	All Areas	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.	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.				
Ashburton West 27/03/2024 Facility - 2	and Bund	 No hop over on opposite side of the bund to where the concrete step is located. It is a common access path. No hi vis nosing on stairs (width 1790mm). No edge protection installed around platform. Potential fall of 400mm. 	C. Unlikely	2. Minor	Low	 Install a hop over. Install hi vis (yellow) anti slip tread on the nosing of all stairs. Consider installing handrails around the platform. 				
Kwinana Nickel 5/03/2024 Refinery - 1	Kwinana Nickel Refinery (KNR) - Hut Access Door	: 1) No hi vis (yellow) anti-slip tread installed on the nosing of the stairs.	C. Unlikely	2. Minor	Low	1) Install hi vis (yellow) anti-slip tread on the nosing of all stairs.	ATCO			
Kwinana Nickel 5/03/2024 Refinery - 2	Kwinana Nickel Refinery (KNR) - Metering / Pressure Control Skid	 East side of skid does not have a landing. Personnel land onto blue metal currently. Step up from the blue metal to the east side of the skid (380mm), does not meet AS requirements (300mm requirements). No handrails installed to provide edge protection and prevent a fall from skid (300-380mm). 	C. Unlikely	3. Severe		 Pour a landing. Install a interim step between the new landing and skid, if required to meet AS1657 requirements. Consider installing handrails around open edges of skid, with designated access points that meet AS1657 requirements. 				
Kwinana Nickel 5/03/2024 Refinery - 3	Kwinana Nickel Refinery (KNR) - Risers / Vents adjacent to Metering / Pressure Control Skid	1) Access to Risers and Vents ~1500mm 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.				

Reference	Date Added	Site	Issue	Likelihood	Consequence	Risk Score	Suggestions	Evidence	Date Planned For Completion	Date Completed	Comments
Kwinana Nickel Refinery - 4	5/03/2024	Kwinana Nickel Refinery (KNR) - Platform adjacent to Metering / Pressure Control Skid	 1.1) No concrete landing in place. Personnel landing onto blue metal on one side. 1.2) Step up from from blue metal to first ladder rung (370mm) exceeds AS requirements (<=150mm). 2) No hi vis anti slip tread on ladder rungs. 3) No self closing gate installed at top of platform ladder x 2. 4) Chain used in lieu of handrails. These would liikely break in the event of a fall. 		3. Severe	Medium	 Pouring a landing that meets AS1657 requirements. Extend the ladder to landing if required, to comply with AS1657 requirements. Install hi vis (yellow) anti slip tread onto the ladder rungs. Install self closing gate that meets AS1657 requirements. Replace chains with handrails that meet AS1657 requirements. 				
Rockingham Meter Station - 1	5/03/2024	Rockingham Meter Station - Mercaptain Bund	 Kerbing on the east side of the Mercaptain Bund poses a trip / slip hazard and does not meet the AS1657 requirements for landings. No hi vis nosing on stairs. Step up from blue metal into bund (where stairs not available) exceeds (430mm) AS1657 requirements (300mm). 	C. Unlikely	2. Minor	Low	1) Extend landing to meet AS1657 requirements. 2) Install hi vis (yellow) anti slip tread on the nosing of all stairs. 3) Install access stairs and landing that meets AS1657 requirements.				
Rockingham Meter Station - 2	5/03/2024	Rockingham Meter Station - Pressure Control / Metering Skid - x Access Points	West Side (Smaller Step) 1) No concrete landing. Currently stepping onto blue metal which was found to be slippery. 2 2) No hi vis nosing on stairs (730mm width). 3) Stair design does not meet AS1657 Side Access Along Skid 1) Stair design does not meet AS1657 requirements 2) No hi vis nosing on stairs (730mm	C. Unlikely	2. Minor	Low	1) Pour a landing for each set of access stairs. 2) Install hi vis (yellow) anti slip tread on the nosing of all stairs. 3) Replace step. 1) Replace stairs. 2) Install hi vis (yellow) anti slip tread on the nosing of all stairs.				
Rockingham Meter Station - 3	5/03/2024	Rockingham Meter Station - Pressure Control / Metering Skid - Walkway / Equipment Access	width). 3) No concrete landing. Currently stepping onto blue metal which was found to be slippery. 4) Potential for personnel to knock body parts on equipment protruding into access points. Skid Walkway Access 5) Walkway width changes without warning, giving potential for personnel to fall ~500mm and cause injury.	C. Unlikely	2. Minor	Low	3) Pour a landing for each set of access stairs. 4) Eliminate access points or install padding (e.g. scaff pad) or paint protruding equipment to reduce risk of injuries. 5.1) Option A: Widen walkway to eliminate change or reduce to ALARP. Option B: Install handrail, gates and kick plates to eliminate potential to fall.				
Rockingham Meter Station - 4	5/03/2024	Rockingham Meter Station -Access Platform	 Ladder rungs are smooth and does not have anti slip tread. Ladder is not install on centre of landing. The landing does not meet AS1657 requirements (e.g. actual 580mm vs required 900mm depth). 				 Install hi vis (yellow) anti slip tread onto all ladder rungs. Replace the landing. 				

Reference Date Added Site	Issue Likelihood Consequence	Risk Score Suggestions Evidence	Date Planned For Completion Date Completed Comments
Rockingham Meter Station - 5 Station - 5	1) Step up from stair into Hut exceeds AS1657 requirements (430mm requires at least 1 interim step). 2) No hi vis nosing on stairs (730mm width). 3) No concrete landing. Currently stepping onto blue metal which was found to be slippery.	1) Remove the existing concrete step and replace with AS1657 compliant stairs. 2) Install hi vis (yellow) anti slip tread on the nosing of all stairs. 3) Pour a landing.	Succession But completed Comments
Wagerup West - 1 5/03/2024 All Areas	1) Access to Risers and Vents ~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.	
Wagerup West - 2 S/03/2024 Redundant Equipment / Pipes Onsite	1) Redundant equipment and concrete footingss found in two areas of site. B. Remote 2) Spare piping is being stored onsite, near the roadside fencing. Potential theft risk?	1) Conside removal of redundant equipment onsite or barricade area. Low 2) Consider removing pipework that is not being used and stored onsite near the roadside fencing.	
Wellesley Meter Station - 2 5/03/2024 Platform Adjacent to Metering / Pressure Control Skid	1) No top handrail for section facing the riser. 2) No hi vis (yellow) tread installed on of each ladder rung. 3) No landing for the ladder and ladder is suspended above the ground. C. Unlikely 3. Severe	1) Install the missing top handrall. 2) Install hi vis (yellow) tread onto each ladder rung. Medium 3.1) Pour a landing. 3.2) Extend the ladder to the landing, ensuring AS1657 requirements are met (e.g. step un)	
Wellesley Meter Station - 3 Vents on the West Side of the Metering / Pressure Control Skid	1.1) Access to Risers and Vents ~2500mm 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 1.2) Existing landing impacts access to Vents and Hand Valves. Trip / slip off landing is possible with potential sprains / strain type injuries	Medium 1.1) 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. 1.2) Extend the landing to accommodation the above and accessing hand valves.	

Reference Date Added Site	Issue	Likelihood Consequence	Risk Score Suggestions	Evidence	Date Planned For Completion	Date Completed	Comments
Wellesley Meter Station - 4 Battery Room - Double Doors	 No handrails have been installed and AS1657 require them (2 or more stairs). No concrete landing. Currently stepping onto blue metal which was found to be slippery. 	C. Unlikely 2. Minor	1) Install handrails on both sides of the stairs, in line with AS1657 requirements. Low 2) Consider pouring a landing in line with the access stairs and that meets the AS requirements.				
Wellesley Meter Station - 5 Station - 5 Electrical Hut - Access Door and Rear Platform	 No handrails have been installed and AS1657 require them (2 or more stairs). Side access door only. No concrete landing for side access doors and rear platform. Currently stepping onto blue metal which was found to be slippery. 	C. Unlikely 2. Minor	1) Install handrails on both sides of the stairs, in line with AS1657 requirements. Low 2) Consider pouring a landing in line with the access stairs and that meets the AS requirements.				
Clifton Road Meter Station-1 1/03/2024 Metering Skid	 Has blue metal as the landing surface. Step up from ground level to the first stair (340mm) exceeds AS1657 requirements (300-450mm requires a step). The stair riser (240mm) exceeds the AS1657 requirements (130-225mm). No hi vis (yellow) tread installed onto the nosing of each stair. 	C. Unlikely 2. Minor	1) Pour a landing to meet AS requirements. 2) Replace the stairs with AS1657 compliant stairs. If 2 or more stairs are required, then handrail must be installed. 3) Install hi vis (yellow) tread onto the nosing of each stair.				
Clifton Road Meter Station-2 Pav Hut - Access Doors	1) The landing does meet AS requirements (e.g. 600mm depth).	D. Occasional 2. Minor	1.1) Extend the landing. 1.2) Install a step to assist with access and agress, if the AS requirement for step ups require it (300mm to 450mm requires 1 step).	S			
Clifton Road Meter Station-3 Pav Hut - Roof	1) Roof access periodically required for maintenance work. Currently peformed with personnel working in FIPS. Note: Same Hazard / Design issue as raised for another Facilities Site by Andrew Hynes. 1) No access platform provided for ease of	C. Unlikely 4. Major	1) Consider installing a platform and access stairs / ladder. This will prevent a fall and reliance or PPE. 1) Install a access stairs/ladder				
Clifton Road Meter 1/03/2024 Repeater Tower Station-4	access to the ladder. Note: This may have not be provided for the purpose of preventing unauthorised access. 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 ladder enclosure has been installed	C. Unlikely 4. Major	and platform to enable access to the ladder. Ensure a lockable gate or similar and signage is provided to prevent unauthorised access. High 2) Install a certified fall restraint/arrest system that is suitable for the end users. 3) Assess if the installation a side screen, ladder cage or other type of enclosure to prevent a				

Deference Date Added Cite	lanua.	Likelihand Cananyanan	Diek Coops Coggostions	Fridance	Date Dispused For Completion	Data Commisted	Commonts
Wellesley Meter Station - 1 Melesley 1/03/2024 Access Stairs for Metering / Pressure Control Skid and Hand Valves	Issue 1) No hi vis (yellow) anti-slip tread installed on the nosing of the several stairs or does not cover the full length of the stair. 2) No concrete landing. Currently stepping onto blue metal which was found to be slippery. 3) Several gaps where people can fall (250-300mm) or take shortcuts and potential knock into equipment (injury / equipment damage).	C. Unlikely 2. Minor	1) Ensure hi vis (yellow) anti-slip tread is installed on the nosing of all stairs (full width). 2) Consider pouring a landing in line with the access stairs and that meets the AS requirements. 3) Consider installing handrail and kick plates to eliminate them from being used as a shortcut.		Date Planned For Completion	Date Completed	Comments
Eneabba Meter Station - 1 6/02/2024 Station - All Areas	Refer to MLV Sites tab > MLV095 and Eneabba Meter Station						
Kwinana Junction Meter Station - 1 Meter Station - 1	 The gap between the stairs and the structure exceeds the AS requirements (max 100mm) and thus a second handrail is required. The gap between the existing handrail and structure on the top landing exceeds AS requirements (max 100mm). No landing is available at the bottom of stairs. No hi vis (yellow) anti-slip tread installed on the nosing of the stairs. 	B. Remote 3. Severe	1) Install a handrail on the open side of the staircase. 2) Modify the platform and handrail to eliminate the gap or reduce until it meets the AS requirement (max 100mm) Low 3) Pour a new landing that meets AS requirements (including step up distance). 4) Ensure hi vis (yellow) anti-slip tread is installed on the nosing of all stairs.				
Worsley Meter Station - 1 19/12/2023 Pav Hut - Roof	1) Roof access periodically required for maintenance work. Currently peformed with personnel working in FIPS. Note: Hazard / Design issue raised by Andrew Hynes. Advised this same issue appears on a number of other sites.	C. Unlikely 4. Major	1) Consider installing a platform and access stairs / ladder. This will prevent a fall and reliance on PPE.				

Reference	Date Added	Site	Issue Likelihood	Consequence	Risk Score	Suggestions 1) Neuesign the stans to run nome	Evidence	Date Planned For Completion	Date Completed	Comments
Worsley Meter Station - 2	19/12/2023	Pav Hut - Access Doors	until the landing and entrance of hut. This has resulted in the Step Up not meeting the AS requirement. 2) No hi vis (yellow) anti-slip tread installed on the nosing of the stairs. 3) No landing available on South side. Personnel stepping onto / off blue metal which can be slippery 4) Landing and Concrete Step on the East side do not meet AS requirements and poses a trip / slip fall.	l 3. Severe	Medium	the landing to the entrance to the hut and meet the AS requirements and provide safe access. This includes handrails if two steps or more are required. 2) Ensure hi vis (yellow) anti-slip tread is installed on the nosing of all stairs (width 850mm). 3) Pour a landing that meets AS requirements. 4) Modify the step and landing to				
Worsley Meter Station - 3	19/12/2023	Riser - Filter	No hi vis (yellow) anti-slip tread installed on the nosing of the stairs. Note: Hazard / Design issue raised by Andrew Hynes. Advised this same issue appears on a number of other sites. C. Unlikely	2. Minor	Low	1) Ensure hi vis (yellow) anti-slip tread is installed on the nosing of all stairs.				
Worsley Meter Station - 4	19/12/2023	SWC Run 1 and Run 2	 1.1) Step up appears to exceed AS requirements. Measurements required to confirm. 1.2) No hi vis (yellow) anti-slip tread installed on the nosing of the stairs. 2) No concrete landing. Currently stepping onto blue metal which was found to be slippery. Note: Hazard / Design issue raised by Andrew Hynes. Advised this same issue appears on a number of other sites. 	3. Severe	Medium	 1.1) If measurements confirm step up / riser heights exceed AS requirements, then modify the stair(s) to meet them. 1.2) Ensure hi vis (yellow) antislip tread is installed on the nosing of all stairs. 2) Consider pouring a landing in line with the access stairs and that meets the AS requirements. 				
Worsley Meter Station - 5	19/12/2023	THEATER PLATFORM	No hi vis anti-slip tread has been installed on ladder rungs. C. Unlikely	2. Minor	Low	1) Replacement ladder to have hi vis (yellow) non-slip tread installed on the rungs.				
Pluto Interconnect Compressor / Metering Station - 14		Platforms for Hand Valves	1) The step up from the ground to the first stair exceeds AS requirements. 2) No concrete landing. Currently stepping onto blue metal which was found to be slippery. Note: Raised by FMOs during Monthly Workgroup Meeting.	2. Minor	Low	1) Modify the stairs to include 1 or more stairs and associated handrails, to ensure AS requirements are met. 2) Pour a landing for each set of access stairs.				
Cockburn Cement Meter Station - 1	15/10/2023		No design risks identified. Situational/task based risk may exist.			N.A.				
Mondarra Meter Station - 1	15/10/2023	Mondarra Meter Station - Metering Skid	1) Concrete slab used for stairs but do not meet AS requirements. 2) Landing on one side does not meet AS requirements. The other side has blue metal as landing which can be slippery. C. Unlikely 3) No hi vis nosing on stairs and edge of platform. Note: Height of fall 600mm.	3. Severe	Medium	 Redesign the stairs to meet AS requirements (e.g. implement a 3rd step). If 2 or more steps are in place, then handrails are required. Landing to be poured to suit new stair design and AS requirements. Install hi vis (yellow) non-slip tread installed on the nosing of all stairs. 				
Mondarra Meter Station - 2	15/10/2022	Mondarra Meter Station - Metering Skid - Platform Landed on Skid	1) No hi vis nosing on stairs and edge of platform. 2) No edge protection on the platform. Depending on the side, there is potential for a fall through the pipework onto ground below or grid mesh deck.	3. Severe	Medium	1) Install hi vis (yellow) non-slip tread installed on the nosing of all stairs. 2) Install edge protection on platform.				

Reference	Date Added	Site	Issue	Likelihood	Consequence	Risk Score	Suggestions	Evidence	Date Planned For Completion	Date Completed	Comments
1.516761166	_ utc /tudeu	Site	1) Chain has been used in lieu of a self		- Consequence		1) Replace the chains with a self			2000 Completed	Comments
			closing gate at the entrance of the two platforms. Chain will break in the event of				closing gate.				
Mondarra Meter	5/10/2023	Mondarra Meter Station - Metering	a fall and self closing gates are a AS	C. Unlikely	3. Severe	Medium	2) Install hi vis (yellow) anti-slip				
Station - 3	3/10/2023	Skid - 2 x Platforms For Risers	requirement.	C. Offlikely	J. Jevere	Mediaiii	tread to all ladder rungs.				
			2) No hi vis (yellow) anti-slip tread				3) Pour a new landing for each				
			installed on the ladder rungs				nlatform				
			1) Ladder does not extend 1m (~800mm)				1) Modify or replace the ladder, ensuring it extends 1m past the				
Mondarra		Mondarra Meter Station - Confined	past the landing at the top of the ladder and does not have sufficient locations to				top landing, with sufficient				
Meter Station - 4	5/10/2023	Space Pit - Access Ladder For Hand Valve	hold onto when mounting / dismounting.	B. Remote	3. Severe		locations to hold onto when mounting / dismounting the				
Station - 4		Valve	2) No non clip trood on ladder rungs				ladder.				
			2) No non-slip tread on ladder rungs.								
Mondarra			1) Landing does not meet the AS				1) Pour a landing that meets AS				
Meter Station - 5	5/10/2023	Mondarra Meter Station - Pav Hut	requirements and is currently blue metal.	B. Remote	2. Minor	Low	requirements.				
Mondarra			No design risks identified. Situational/task								
Storage - 1	5/10/2023	Mondarra Storage - All Areas	based risk may exist.				N.A.				
			1) Access stairs for platform used to				1) Consider installing a handrail				
			access HV-106D is missing one handrail				on the left hand side of the stairs,				
Waitsia Inle		Waitsia Inlet Meter Station - Filter	(left hand side). Holes already drilled into support.		2		that matches the existing handrail on the right hand side.				
Meter Station - 1	5/10/2023	Skid		C. Unlikely	2. Minor	LOW					
			2) No concrete landing. Currently stepping onto blue metal which was found to be				2) Consider pouring a landing in line with the access stairs and	£			
			slippery.				that meets the AS requirements.				
							1) Ensure hi vis (yellow) anti-slip				
			1) No hi vis (yellow) anti-slip tread				tread is installed on the nosing of				
Waitsia Inle		Waitsia Inlet Meter Station -	installed on the nosing of the stairs.				all stairs.				
Meter Station - 2	5/10/2023	Metering Skid	2) No concrete landing. Currently stepping	C. Unlikely	2. Minor	Low	2) Consider pouring a landing in				
Station 2			onto blue metal which was found to be				line with the access stairs and	52			
			slippery.				that meets the AS requirements.				
Waitsia Inle		Waitsia Inlet Meter Station -	No design risks identified. Situational/task				NI A				
Meter Station - 3	5/10/2023	Shelters For Cyclinders and Electrical Distribution Boards	based risk may exist.				N.A.				
Dampier	20/09/2022	Mant Adiacont to Main Cata	1) No method for accessing the vent for	D. Domesto	2 Covers	1	1) Install a platform and landing				
Facilities - 1	29/08/2023	Vent Adjacent to Main Gate	maintenance / inspection purposes. Potential fall of ~5m	B. Remote	3. Severe	Low	that complies with AS1657.				
			1) Chain has been used in lieu of a								
			handrail at the top of the platform, adjacent to the Bettic Equipment or				1) Replace the chain with a				
Dammiar			Valves Chain will break in the event of a				handrail that meets AS 1657				Review of Gorgon Meter Station identified that Chevron has similar platforms with a different
Dampier Facilities - 2	29/08/2023	Platforms for HV211 and HV237	fall and therefore will not meet AS 1657	C. Unlikely	3. Severe	Medium	requirement.				design for the handrail that enables access to equipment. They curve the handrail below or above the equipment so you have unrestricted access but still have edge protection to protect
			requirements for guardrails.				2) Hi vis (yellow) non-slip tread to				against a fall. Photos are available for reference.
			2) No hi vis (yellow) tread installed onto				be installed on the ladder rungs.				
			each ladder rung (450mm).1) The landing for the stairs does not meet								
			AS1657 requirements of 900mm.								
			2) No hi vis (yellow) tread installed onto				1) Pour a new landing.				
			the nosing of each stair (1000mm).				2) Inetall hi vie (valles) to 1				
Dampier	29/08/2023	Platforms for HV242 and HV243		C. Unlikely	2. Minor		2) Install hi vis (yellow) tread onto the nosing of each stair.				
Facilities - 3			3) No edge protection to prevent a fall from platform.	,			, and the second				
							Install edge protection for platform.				
			Note: Step up from landing (currently blue metal) is 300mm so no intermediate step				,				
			is required.								
Dampier Facilities - 4	29/08/2023	Platforms for HV220 and HV241	1) No hi vis (yellow) tread installed onto each ladder rung (450mm).	C. Unlikely	2. Minor	Low	1) Hi vis (yellow) non-slip tread to be installed on the ladder rungs.				
acinties - 4			cach ladder rang (450mm).				The mistance on the lauder ruligs.				
L	<u> </u>		1	<u>. </u>			1	1			

Reference	Date Added	Site	Issue	Likelihood	Consequence	Risk Score	Suggestions	Evidence	Date Planned For Completion	Date Completed	Comments
	29/08/2023		 The Step Up from the ground to the step / door is 410mm which exceeds AS1657 requirements. No hi vis (yellow) anti-slip tread installed on the nosing of the lip of the stair at one access door. 	D. Occasional	3. Severe	Medium	1) Install 1 intermediate step between the landing and doorway at each of the 3 doors. 2) Ensure hi vis (yellow) anti-slip tread is installed on the nosing of stairs.	GEA 1			
Dampier Facilities - 6	29/08/2023	GEA 1 After Cooler Fans	1) No hi vis (yellow) tread installed onto each ladder rung (500mm width).	C. Unlikely	2. Minor	Low	1) Hi vis (yellow) non-slip tread to be installed on the ladder rungs (500mm).				
Dampier Facilities - 7		Access Stairs Between GEA 1 and After Cooler Fans	1) The existing hi vis (yellow) anti-slip tread installed on some of the stairs are significantly worn and may impact their effectiveness.	C. Unlikely	2. Minor	Low	1) Replace the hi vis (yellow) non- slip tread on each stair (1000mm width).				
Dampier Facilities - 8		Middle Platform (Access Way) For After Cooler Fans	1) No hi vis (yellow) tread installed onto each ladder rung.	C. Unlikely	2. Minor	Low	1) Hi vis (yellow) non-slip tread to be installed on the ladder rungs (500mm).				
Dampier Facilities - 9	29/08/2023	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. 	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. 				
Maitland Estate Meter Station - 1	29/08/2023	Access Ladder / Platform For Riser	1) The depth landing (e.g. 460mm) does not meet AS requirement (e.g. 600mm). 2) No hi vis (yellow) anti-slip tread installed on the ladder rungs.	C. Unlikely	2. Minor	Low	1) Pour a new landing. 2) Ensure hi vis (yellow) anti-slip tread is installed on the rungs.				

Reference Date Added Site	Issue Likelihood Consequence	Risk Score Suggestions	Evidence Date Planned For Completion Date Completed Comments
Pluto Interconnect Compressor / Metering Station - 11 Battery Room / Hut - 3 x Access Doors	1) 1 Set of Stairs (centre are not centred and small concrete blocks have potential to move. C. Unlikely 2. Minor	1) Remove the existing steps and landing. Pour a new landing and install a new step that are centred with the access door.	
Pluto Interconnect Compressor / Metering Station - 8 Access Platform For Compressor Package	No hi vis (yellow) anti-slip tread installed on the ladder rungs. C. Unlikely 2. Minor	Low 1) Install hi vis (yellow) anti-slip tread to all ladder rungs.	
Della Road Meter 11/08/2023 Pav Huts Station	1) The landing does meet AS requirements (e.g. 600mm depth). Employees also reported historical events where personnel have tripped over / on the landing when entering / exiting Pav Huts. Note: FMOs - Facilities reported this same hazard / design issue exists on multiple sites including Forestdale and Whelshpool Meter Stations. 2. Minor 2. Minor 2. Minor 3. M	1.1) Extend the landing. 1.2) Install a step to assist with access and agress, if the AS requirement for step ups require it (300mm to 400mm requires 1 step). Medium 2) 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.	
Pluto Interconnect Compressor / Metering Station - 10 Actuated Valve - ZV101	No hi vis (yellow) anti-slip tread installed on the ladder rungs. C. Unlikely 2. Minor	1) Install hi vis (yellow) anti-slip tread to all ladder rungs	
Pluto Interconnect Compressor / Metering Station - 12 Shelby Power Gas Engine Alternators (x 2)	Non-Grid Mesh Steps Side 1) The landing on this side of both alternators does not meet AS1657 requirements, nor does it provide a stable platform to work from. It also poses a trip hazard when accessing the emergency stop button and cabinets. Grid Mesh Steps Side 2) Step up from ground level to grid mesh steps does not meet AS1657 requirements. Step up is 360mm and therefore an additional step is required. 3) The Grid Mesh Steps are being used as a work platform but their design pose a risk (e.g. small size, no handrails). 4) No hi vis tread on the nosing of the stairs.	Non-Grid Mesh Steps Side 1) Pour a new landing. Grid Mesh Steps Side 2) 3.1) Option A: Replace the access step with a purpose build access stairs and platform, with edge protection. 3.2) Option B: Install additional step and retrofit handrails. 4) Install hi vis tread on the nosing of all stairs.	

Reference	e Date Added Site Issue	Likelihood	Consequence	Risk Score	Suggestions Evidence	Date Planned For Completion	Date Completed	Comments
Pluto Interconnec Compressor / Metering Station - 13	11/08/2023 Inspection Pit For Main Tapping - DBNGP 1) No access ladder has been installed.	B. Remote	3. Severe	Low	1) Install a ladder that is AS1657 compliant.			
Pluto Interconnec Compressor / Metering Station - 3	vr 11/08/2023 Vent Stack identified. Note: Potential fall of ~5m.	C. Unlikely	3. Severe	Medium	1) Install a purpose built platform and access stairs or ladder that is AS compliant.			
Pluto Interconnec Compressor / Metering Station - 4	or 11/08/2023 - HV100B - HV124 - No hi vis (vellow) anti-slip tread	C. Unlikely	2. Minor	Low	1) Replace the chains with a handrail with a lockable gate for access. 2) Install hi vis (yellow) anti-slip tread to all ladder rungs.			
Pluto Interconnec Compressor / Metering Station - 5	Multiple Hand Valves ladder or safety step, to access the hand	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 Site	Issue	Likelihood Consequen	nce Risk Score Suggestions	Evidence	Date Planned For Completion Date Completed	Comments
Pluto Interconnect Compressor / Metering Station - 6 Hand Valve 107 Platform	1) No hi vis (yellow) anti-slip tread installed on the ladder rungs.	C. Unlikely 2. Minor	1) Install hi vis (vellow) anti-slin			
Pluto Interconnect Compressor / Metering Station - 7 Pluto Interconnect Compressor Compressor North Ladder	1) No hi vis (yellow) anti-slip tread installed on the ladder rungs.	C. Unlikely 2. Minor	Low 1) Install hi vis (yellow) anti-slip tread to all ladder rungs			
Pluto Interconnect Compressor / Metering Station - 9 Access Platform for Flange	 No hi vis (yellow) anti-slip tread installed on the ladder rungs. Self closing gate is no longer self closing and therefore does not meet AS1657 requirements. 	C. Unlikely 2. Minor	1) Install hi vis (yellow) anti-slip tread to all ladder rungs. 2) Repair or replace the gate to ensure it is self closing using gravity, sping or other means.			
Cape Preston Meter Station - 1 All Areas	No design risks identified. Situational/task based risk may exist.		No Action Required.	No reference photo taken.		
AGR Meter Station - 1 25/07/2023 Mercaptain Tanks (Style 1 x 2)	 1.1) The Step Up from the ground to the higher stair is 440mm and therefore the AS requirement requires a minimum of 1 step be provided. 1.2) The upper stair is being utilised as a landing to work from. This upper stair does not meet the AS requirements for a landing (e.g. depth is 400mm, requirement is 600mm minimum, no handrail). 2) No hi vis (yellow) anti-slip tread installed on the nosing of the stairs. 1) The Step Up from the ground to the 	C. Unlikely 3. Severe	1) Redesign the access method and landing / work platform to meet AS requirements (including edge protection). 2) Ensure hi vis (yellow) anti-slip tread is installed on the nosing of stairs (2 sides' width >1000mm, side's width x >1900mm) or ladder rungs (if replaced). 1) Install a intermediate step	f		
AGR Meter Station - 2 25/07/2023 Mercaptain Tank (Style 2)	landing / work platform (grid mesh) is 370mm and therefore the AS requirement (300-450mm) requires a minimum of 1 step be provided.	B. Remote 3. Severe	between the ground and landing			
AGR Meter Station - 3 Access Stairs from Side Gate to Mercaptain Vessels Bund	 The depth landing (e.g. 300mm) does not meet AS requirement (e.g. 600mm). The edge of the landing (blue metal side) also has a curved edge posing an additional risk of a rolled ankle. No hi vis (yellow) anti-slip tread installed on the nosing of the stairs. 	C. Unlikely 2. Minor	1) Pour a new landing.			

Reference Date Added Site	Issue	Likelihood	Consequence	Risk Score	Suggestions	Evidence	Date Planned For Completion	Date Completed	Comments
AGR Meter Station - 4 25/07/2023 2 x Mercaptain Vessels	1) Gate no longer self closes. 2) No non-slip tread on the access ladder rungs.	B. Remote	2. Minor	1) Re ensui AS re 2) Ins	pair or replace the gate to re it is self closing and meets quirements. stall hi vis (yellow) non-slip on the ladder rungs.				
AGR Meter Station - 5 25/07/2023 Multiple Risers	1) Access to Risers and Vents up to 2800mm 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 1.2) 0 x 150	Option 2: Implement a 1500 Oprecast concrete for er to sit on to access the				
AGR Meter Station - 6 25/07/2023 2 x Inspection Pits	 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. No non-slip tread on ladder rungs. 	B. Remote	3. Severe	Medium ensur top la locati mour ladde 2) Mo	odify or replace the ladder, ring it extends 1m past the anding, with sufficient ions to hold onto when nting / dismounting the er. odified or replacement er to have hi vis (yellow) non-read installed on the rungs.				
Pluto Interconnect Compressor / Metering Station - 1 Pluto Compressor Package - Step Over Platform	 1.1) The platform feet have been fastened with silicone adhesive only, which has failed and the platform is therefore free to move. 1.2) The only thing restraint movement of the platform is a loop of instrument tubing which is live. This tubing also obstructs the landing (trip hazard). 2) There is no handrails or kickboards fitted. Note: Raised by Andrew Stanwix. 		3. Severe	a info award strap place 1.2) F Medium Fabric soluti requi 2) En	Temporary solution - Install primation tag to raise eness and then install rachet (s) to hold the platform in Done. Permanent solution - cate and install a permanent ion that meets AS rements. Sure handrails and kick is are installed in line with as requirements applicable the permanent solution.				
Pluto Interconnect Compressor / Metering Station - 2 Reofitted Platform On The South Side of the Compressor Package (Package Exhaust)	 No edge protection for platform. Potential for fall ~1m and onto potentially hot equipment. Structural cross beam adjacent to walkway that personal must duck under to access this platform. These pose a hazard for bumping their head (previous MTI at TGS). Faded hi vis tape currently in place. 	D. Occasional	3. Severe	Medium 2.2) (provi	ctall handrails and gate to de 360 edge protection. Option A: Eliminate the cross as if engineering allows for it. Option B: Install padding to ect people if contact is made. uple product is Scaff Pads.				
Pinjar Metering Station 20/06/2023 Heaters - Top Platform (Power Station) - 1	1) No non-slip tread on ladder runs. 2) Landing does not meet the AS requirements and is currently blue metal. Note: - Findings are based on photo and feedback from Adrian Taylor.	B. Remote	2. Minor	Low tread 2) Po	stall hi vis (yellow) non-slip installed on the rungs. ur a landing that meets AS rements.				
Mandurah Gate Meter Station - 1 Station - 1	1) The step up (riser) does not meet the AS requirements (130-225mm).			Low assist	mplement a interim step to with access and egress. Modify the landing to mmodate the new step.				

Reference Date Added	Site	Issue	Likelihood Consequence	Risk Score Suggestions	Evidence	Date Planned For Completion	Date Completed	Comments
Example - 1 2/02/2023	Example - TEG unit	1) Landing does not meet AS requirement of 900mm long		1.1) Remove old landing and install new precast one 1.2) Pour new landing				
Example - 1 2/02/2023	TEG Unit	1) Top step does not meet AS 2) Gap on top handrail is too big as per AS		1) Raise top step to match floor 2) Handrail modifications will require floor modifications to close gap left. Future design must be the correct width to close this gap				
Worsley Meter Station - 6	Meter Hut	 1.1) Step up appears to exceed AS requirements. Measurements required to confirm. 1.2) No hi vis (yellow) anti-slip tread installed on the nosing of the stairs. 2) Concrete landing may need modification to suit any installation of stairs. Note: Hazard / Design issue raised by Andrew Hynes. Advised this same issue appears on a number of other sites. 	C. Unlikely 2. Minor	1.1) If measurements confirm step up / riser heights exceed AS requirements, then modify the stair(s) to meet them. Low 1.2) Ensure hi vis (yellow) antislip tread is installed on the nosing of all stairs. 2) Consider modifying the landing to meet the 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	Comments
R013-4	Repeater Station 13 - Communications Tower	 No access platform provided for ease of access to the ladder. Note: This may have not be provided for the purpose of preventing unauthorised access. 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. No ladder enclosure has been installed for the ladder to meet AS requirements (where a fall of more than 6m). No hi vis (yellow) anti-slip tread installed on the ladder rungs. Findings on hold pending discussion with Dane. Refer to comments. 		3. Severe	High	1) Install a access stairs/ladder and platform to enable access to the ladder. Ensure 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) Assess if the installation a side screen, ladder cage or other type of enclosure to prevent a sideways fall from the ladder, if practical for the end users. 4) Install hi vis (yellow) anti-slip tread on the ladder rungs.					
R017-4	21/04/2023 Repeater Station 17 - Communications Tower	 No access platform provided for ease of access to the ladder. Note: This may have not be provided for the purpose of preventing unauthorised access. 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. No ladder enclosure has been installed for the ladder to meet AS requirements (where a fall of more than 6m). No hi vis (yellow) anti-slip tread installed on the ladder rungs. Findings on hold pending discussion with Dane. Refer to comments. 	C. Unlikely	4. Major	High	1) Install a access stairs/ladder and platform to enable access to the ladder. Ensure 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) Assess if the installation a side screen, ladder cage or other type of enclosure to prevent a sideways fall from the ladder, if practical for the end users. 4) Install hi vis (yellow) anti-slip tread on the ladder rungs.					Discuss with Dane. The suggested solutions may not be value add as the Contractor using double lanyard to be hooked up.
R025-4	22/05/2023 Repeater Station 25 - Smaller Communications Tower	 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. 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. The width of the ladder (250mm) does not meet the AS requirements (375mm to 525mm) and may create a hazard to personnel using the ladder. No hi vis (yellow) anti-slip tread installed on the ladder rungs. They are currently smooth metal rungs. Note: Discuss findings and actions with Dane. 	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) Replace the ladder with a AS compliant ladder. 4) Install hi vis (yellow) anti-slip tread on the ladder rungs.					Discuss with Dane to find out if this asset is live or redundant.
R025-5	22/05/2023 Repeater Station 25 - Larger Communications 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) The Step Up to access the first ladder rung (520mm) exceeds the AS requirements (=<150mm). 3) 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. 4) No hi vis (yellow) anti-slip tread installed on the ladder rungs. They are currently smooth metal rungs. Note: Discuss findings and actions with Dane.	C. Unlikely	4. Major	High	1) Consider installing a lockable gate or similar and signage is provided to prevent unauthorised access. 2) Extend the ladder to the landing. 3) Install a certified fall restraint/arrest system that is suitable for the end users. 4) Install hi vis (yellow) anti-slip tread on the ladder rungs.					

								 	 	_
R039-5	13/12/2023	Repeater Station 39 - Communications 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) The Step Up to access the first ladder rung (520mm) exceeds the AS requirements (=<150mm). 3) 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. 4) No hi vis (yellow) anti-slip tread installed on the ladder rungs. They are currently smooth metal rungs. 5) The landing for the ladder does not meet AS1657 requirements of 900mm from the bottom lung. Note: Discuss findings and actions with Dane.		4. Major	High	1) Consider installing a lockable gate or similar and signage is provided to prevent unauthorised access. 2) Extend the ladder to the landing. 3) Install a certified fall restraint/arrest system that is suitable for the end users. 4) Install hi vis (yellow) anti-slip tread on the ladder rungs. 5) Pour a new landing.			
R034-5	12/02/2024	Repeater Station 34 - Communications Tower	 No access platform provided for ease of access to the ladder. Note: This may have not be provided for the purpose of preventing unauthorised access. 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. No ladder enclosure has been installed for the ladder to meet AS requirements (where a fall of more than 6m). No hi vis (yellow) anti-slip tread installed on the ladder rungs. Findings on hold pending discussion with Dane. Refer to comments. 	C. Unlikely	4. Major	High	1) Install a access stairs/ladder and platform to enable access to the ladder. Ensure 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) Assess if the installation a side screen, ladder cage or other type of enclosure to prevent a sideways fall from the ladder, if practical for the end users. 4) Install hi vis (yellow) anti-slip tread on the ladder rungs.			
Wagerup Repeater Station - 3	5/03/2024	Wagerup Repeater Station - Yellov Hut Roof Access	1) Roof access periodically required for maintenance work. Currently peformed with personnel working in FIPS. Note: Same Hazard / Design issue as raised for another Facilities Site by Andrew Hynes.	C. Unlikely	4. Major	High	1) Consider installing a platform and access stairs / ladder. This will prevent a fall and reliance on PPE.			
R001-7	4/04/2024	Repeater Station 1 - Communications Tower	Assessed using surveillance photo. Site visit required to obtain additional photos and measurements. 1) No access platform provided for ease of access to the ladder. Note: This may have not be provided for the purpose of preventing unauthorised access. 2) No fall restraint/arrest system in place for personnel using the ladder. This exposes personnel to a significant fall that	C. Unlikely	3. Severe	High	and platform to enable access to the ladder. Ensure 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) Assess if the installation a side screen, ladder cage or other type			
R004-4	4/04/2024	Repeater Station 4 - Communications Tower	Assessed using surveillance photo. Additional photos requested to confirm accuracy of assessment. 1) No access platform provided for ease of access to the ladder. Note: This may have not be provided for the purpose of preventing unauthorised access. Assessed using surveillance photo. Site	C. Unlikely	3. Severe	High	1) Install a access stairs/ladder and platform to enable access to the ladder. Ensure 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.			
R010-7	4/04/2024	Repeater Station 10 - Communications Tower	visit required to obtain additional photos and measurements. 1) No access platform provided for ease of access to the ladder. Note: This may have not be provided for the purpose of preventing unauthorised access. 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. Severe	High	and platform to enable access to the ladder. Ensure 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) Assess if the installation a side screen, ladder cage or other type of enclosure to prevent a sideways fall from the ladder, if practical for the end users.			

		Assessed using surveillance photo. Site	1) Install a access stairs/ladder			
		visit required to obtain additional photos	and platform to enable access to			
		and measurements.	the ladder. Ensure a lockable gate or similar and signage is	429 200		
		1) No access platform provided for ease	provided to prevent			
		of access to the ladder.	unauthorised access.	Contract of the last of the la		
		Note: This may have not be provided for		William Property and the second		
R011-7	4/04/2024 Repeater Station 11 -	the purpose of preventing unauthorised C. Unlikely 3. Severe	2) Install a certified fall	The same of the sa		
	Communications Tower	access.	restraint/arrest system that is suitable for the end users.			
		2) No fall restraint/arrest system in place	suitable for the end users.	The state of the s		
		for personnel using the ladder. This	3) Assess if the installation a side	Marie Company of the		
		exposes personnel to a significant fall that	screen, ladder cage or other type			
		would likely result in a fatality or serious	of enclosure to prevent a	The state of the s		
		injury.	sideways fall from the ladder, if practical for the end users.	The second secon		
		Assessed using surveillance photo. Site	bracheartor the end users.			
		visit required to obtain additional photos				
		and measurements.				
			1) Install a access stairs/ladder			
		1) No access platform provided for ease	and platform to enable access to	A TOTAL OFF		
		of access to the ladder. Note: This may have not be provided for	the ladder. Ensure a lockable gate or similar and signage is			
		the purpose of preventing unauthorised	provided to prevent			
		access.	unauthorised access.			
			2)	THE RESERVE OF THE PARTY OF		
		2) No fall restraint/arrest system in place for personnel using the ladder. This	2) Install a certified fall restraint/arrest system that is			
R012-7	Repeater Station 12 -	exposes personnel to a significant fall that C. Unlikely 3. Severe	High suitable for the end users.	- 44 - 15 - 15 - 15 - 15 - 15 - 15 - 15		
	Communications Tower	would likely result in a fatality or serious				
		injury.	3) Assess if the installation a side	A STATE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS		
		3) No ladder enclosure has been installed	screen, ladder cage or other type			
		for the ladder to meet AS requirements	of enclosure to prevent a sideways fall from the ladder, if	THE RESIDENCE OF THE PARTY OF THE PARTY.		
		(where a fall of more than 6m).	practical for the end users.			
		4) No hi vis (yellow) anti-slip tread	4) Install hi vis (yellow) anti-slip			
		installed on the ladder rungs.	tread on the ladder rungs.	A SALL PARTY OF THE PARTY OF TH		
		Findings on hold pending discussion with				
		Dane. Refer to comments.				
		Assessed using surveillance photo. Site				
		visit required to obtain additional photos				
		and measurements.				
			1) Install a access stairs/ladder			
		1) No access platform provided for ease	and platform to enable access to	The second second		
		of access to the ladder. Note: This may have not be provided for	the ladder. Ensure a lockable gate or similar and signage is	*		
		the purpose of preventing unauthorised	provided to prevent	The state of the s		
		access.	unauthorised access.	A STATE OF THE PARTY OF THE PAR		
		2) No fall restraint/arrest system in place	2) Install a certified fall			
		for personnel using the ladder. This	restraint/arrest system that is	BA		
R014-7	4/04/2024 Repeater Station 14 - Communications Tower	exposes personnel to a significant fall that C. Unlikely 3. Severe	High suitable for the end users.	AND DESCRIPTION OF THE PERSON		
	Communications rower	would likely result in a fatality or serious		The state of the s		
		injury.	3) Assess if the installation a side screen, ladder cage or other type			
		3) No ladder enclosure has been installed	of enclosure to prevent a	THE RESERVE AND THE PERSON NAMED IN		
		for the ladder to meet AS requirements	sideways fall from the ladder, if	The second second		
		(where a fall of more than 6m).	practical for the end users.			
		4) No hi vis (yellow) anti-slip tread	4) Install hi vis (yellow) anti-slip			
		installed on the ladder rungs.	tread on the ladder rungs.			
				The same of the sa		
		Findings on hold pending discussion with Dane. Refer to comments.		The same of the sa		
	1			The state of the s		
		Assessed using surveillance photo. Site visit required to obtain additional photos				
		and measurements.		With the second		
			1) Install a access stairs/ladder			
		1) No access platform provided for ease	and platform to enable access to			
		of access to the ladder. Note: This may have not be provided for	the ladder. Ensure a lockable gate or similar and signage is			
		the purpose of preventing unauthorised	provided to prevent			
		access.	unauthorised access.	THE RESERVE TO A PERSON NAMED IN		
		2) No fall rostraint/arrost system in place	2) Install a certified fall	A DESCRIPTION OF THE PARTY OF T		
		2) No fall restraint/arrest system in place for personnel using the ladder. This	restraint/arrest system that is			
R015-5	4/04/2024 Repeater Station 15 - Communications Tower	exposes personnel to a significant fall that C. Unlikely 3. Severe	High suitable for the end users.			
	Communications Tower	would likely result in a fatality or serious				
		injury.	3) Assess if the installation a side screen, ladder cage or other type			
		3) No ladder enclosure has been installed	of enclosure to prevent a	The same of the sa		
		for the ladder to meet AS requirements	sideways fall from the ladder, if			
		(where a fall of more than 6m).	practical for the end users.			
		4) No hi vis (yellow) anti-slip tread	4) Install hi vis (yellow) anti-slip			
		installed on the ladder rungs.	tread on the ladder rungs.			
		Findings on hold pending discussion with				
<u>l</u>	1	Dane. Refer to comments.				1

R018-8	4/04/2024	Repeater Station 18 - Communications Tower	Assessed using surveillance photo. Site visit required to obtain additional photos and measurements. 1) No access platform provided for ease of access to the ladder. Note: This may have not be provided for the purpose of preventing unauthorised access. 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.	C. Unlikely	4. Major	High	1) Install a access stairs/ladder and platform to enable access to the ladder. Ensure 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) Assess if the installation a side screen, ladder cage or other type of enclosure to prevent a sideways fall from the ladder, if
R019-8	4/04/2024	Repeater Station 19 - Communications Tower	Assessed using surveillance photo. Site visit required to obtain additional photos and measurements. 1) No access platform provided for ease of access to the ladder. Note: This may have not be provided for the purpose of preventing unauthorised access. 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.	C. Unlikely	4. Major	High	Install a ceres statis/ladder and platform to enable access to the ladder. Ensure 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) Assess if the installation a side screen, ladder cage or other type of enclosure to prevent a sideways fall from the ladder, if practical for the end users.
R020-8	4/04/2024	Repeater Station 20 - Communications Tower	Assessed using surveillance photo. Site visit required to obtain additional photos and measurements. 1) No access platform provided for ease of access to the ladder. Note: This may have not be provided for the purpose of preventing unauthorised access. 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.	C. Unlikely	4. Major	High	1) Install a access stairs/ladder and platform to enable access to the ladder. Ensure 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) Assess if the installation a side screen, ladder cage or other type of enclosure to prevent a sideways fall from the ladder, if practical for the end users.
R022-8	4/04/2024	Repeater Station 22 - Communications Tower	Assessed using surveillance photo. Site visit required to obtain additional photos and measurements. 1) No access platform provided for ease of access to the ladder. Note: This may have not be provided for the purpose of preventing unauthorised access. 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 ladder enclosure has been installed for the ladder to meet AS requirements (where a fall of more than 6m). 4) No hi vis (yellow) anti-slip tread installed on the ladder rungs.	C. Unlikely	4. Major	High	1) Install a access stairs/ladder and platform to enable access to the ladder. Enzy 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) Assess if the installation a side screen, ladder cage or other type of enclosure to prevent a sideways fall from the ladder, if practical for the end users. 4) Install hi vis (yellow) anti-slip tread on the ladder rungs.
R023-8	4/04/2024	Repeater Station 23 - Communications Tower	Assessed using surveillance photo. Site visit required to obtain additional photos and measurements. 1) No access platform provided for ease of access to the ladder. Note: This may have not be provided for the purpose of preventing unauthorised access. 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.	C. Unlikely	4. Major	High	1) Install a access stairs/ladder and platform to enable access to the ladder. Ensure 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) Assess if the installation a side screen, ladder cage or other type of enclosure to prevent a signaya fall from the ladder. If the signay fall from the ladder of the signay f
R024-8	4/04/2024	Repeater Station 24 - Communications Tower	Assessed using surveillance photo. Site visit required to obtain additional photos and measurements. 1) No access platform provided for ease of access to the ladder. Note: This may have not be provided for the purpose of preventing unauthorised access. 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.	C. Unlikely	4. Major	High	1) Install a access statis/ladder and platform to enable access to the ladder. Ensure 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) Assess if the installation a side screen, ladder cage or other type of enclosure to prevent a sideways fall from the ladder if

R031-5 4/04/2024 Repeater Station 32 - Communications Tower	Assessed using surveillance photo. Site visit required to obtain additional photos and measurements. 1) No access platform provided for ease of access to the ladder. Note: This may have not be provided for the purpose of preventing unauthorised access. 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 ladder enclosure has been installed for the ladder to meet AS requirements (where a fall of more than 6m). 4) No hi vis (yellow) anti-slip tread installed on the ladder rungs. Findings on hold pending discussion with Dane. Refer to comments.	1) Install a access stairs/ladder and platform to enable access to the ladder. Cnsure a local costs to the ladder. Cnsure a local costs to the ladder costs and signage is provided to prevent unsuthorised access. 2) Install a certified fall restraint/arrest system that is stated for the end users. 3) Assess if the installation a side screen, ladder cage or other type of endosure to prevent a side-ways fall from the ladder, if practical for the end users. 4) Install in lvis (yellow) anti-slip tread on the ladder rungs.
R032-5 4/04/2024 Repeater Station 32 - Communications Tower	Assessed using surveillance photo. Site visit required to obtain additional photos and measurements. 1) No access platform provided for ease of access to the ladder. Note: This may have not be provided for the purpose of preventing unauthorised access. 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 ladder enclosure has been installed for the ladder to meet AS requirements (where a fall of more than 6m). 4) No hi vis (yellow) anti-slip tread installed on the ladder rungs. Findings on hold pending discussion with Dane. Refer to comments.	1] Install a access stalirs/ladder and platform to enable access to the ladder. Ensure a lockable gate or similar and signage is provided to prevent unauthorised access. 2] Install a certified fall restrainfurest system that is suitable for the end users. 3] Assess if the installation a side screen, ladder cage or other type of enclosure to prevent a sideways fall from the ladder, if practical for the end users. 4] Install hi vis (yellow) anti-slip tread on the ladder rungs.
R038-5 4/04/2024 Repeater Station 38 - Communications Tower	Assessed using surveillance photo. Site visit required to obtain additional photos and measurements. 1) No access platform provided for ease of access to the ladder. Note: This may have not be provided for the purpose of preventing unauthorised access. 2) No fall restraint/arrest system in place Assessed using surveillance photo. Site	1) Install a access stairs/ladder and platform to enable access to the ladder. Ensure 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.
R040-5 4/04/2024 Repeater Station 40 - Communications Tower	Assessed using surveinance prioto. Site visit required to obtain additional photos and measurements. 1) No access platform provided for ease of access to the ladder. Note: This may have not be provided for the purpose of preventing unauthorised access. 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 ladder enclosure has been installed for the ladder to meet AS requirements (where a fall of more than 6m). 4) No hi vis (yellow) anti-slip tread installed on the ladder rungs.	1) Install a access stairs/ladder and platform to enable access to the ladder. Ensure 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) Assess if the installation a side screen, ladder cage or other type of enclosure to prevent a sideways fall from the ladder, if practical for the end users. 4) Install hi vis (yellow) anti-slip tread on the ladder rungs.

R041-5	Repeater Station 41 - Communications Tower	Assessed using surveillance photo. Site visit required to obtain additional photos and measurements. 1) No access platform provided for ease of access to the ladder. Note: This may have not be provided for the purpose of preventing unauthorised access. 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 ladder enclosure has been installed for the ladder to meet AS requirements (where a fall of more than 6m). 4) No hi vis (yellow) anti-slip tread	1) Consider installing a lockable gate or similar and signage is provided to prevent unauthorised access. 2) Extend the ladder to the landing. High 3) Install a certified fall restraint/arrest system that is suitable for the end users. 4) Install hi vis (yellow) anti-slip tread on the ladder rungs. 5) Pour a new landing.			
R033-5	8/04/2024 Repeater Station 33 - Communications Tower	installed on the ladder rungs. Assessed using surveillance photo. Site visit required to obtain additional photos and measurements. 1) No access platform provided for ease of access to the ladder. Note: This may have not be provided for the purpose of preventing unauthorised access. 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 ladder enclosure has been installed for the ladder to meet AS requirements (where a fall of more than 6m). 4) No hi vis (yellow) anti-slip tread installed on the ladder rungs. Findings on hold pending discussion with Dane. Refer to comments.	1) Install a access stairs/ladder and platform to enable access to the ladder. Ensure 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) Assess if the installation a side screen, ladder cage or other type of enclosure to prevent a sideways fall from the ladder, if practical for the end users. 4) Install hi vis (yellow) anti-slip tread on the ladder rungs.			
R035-5	8/04/2024 Repeater Station 35 - Telecommunications Tower	Assessed using surveillance photo. Site visit required to obtain additional photos and measurements. 1) No access platform provided for ease of access to the ladder. Note: This may have not be provided for the purpose of preventing unauthorised access. 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 ladder enclosure has been installed for the ladder to meet AS requirements (where a fall of more than 6m). 4) No hi vis (yellow) anti-slip tread installed on the ladder rungs. Findings on hold pending discussion with Dane. Refer to comments.	1) Install a access stairs/ladder and platform to enable access to the ladder. Ensure 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) Assess if the installation a side screen, ladder cage or other type of enclosure to prevent a sideways fall from the ladder, if practical for the end users. 4) Install hi vis (yellow) anti-slip tread on the ladder rungs.			

R042-2	8/04/2024 Repeater Station 42 - Communications Tower	Assessed using surveillance photo. Site visit required to obtain additional photos and measurements. 1) No access platform provided for ease of access to the ladder. Note: This may have not be provided for the purpose of preventing unauthorised access. 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 ladder enclosure has been installed for the ladder to meet AS requirements (where a fall of more than 6m). 4) No hi vis (yellow) anti-slip tread installed on the ladder rungs. Findings on hold pending discussion with Dane. Refer to comments.	1) Consider installing a lockable gate or similar and signage is provided to prevent unauthorized access. 2) Extend the ladder to the landing. 3) Install a certified fall restraint/arrest system that is soluble for the end users. 4) Install hi vis (yellow) anti-slip tread on the ladder rungs. 5) Pour a new landing.	
R027-4	Repeater Station 27 - Communications Tower	Assessed using surveillance photo. Site visit required to obtain additional photos and measurements. 1) No access platform provided for ease of access to the ladder. Note: This may have not be provided for the purpose of preventing unauthorised access. 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.	1) Install a access stairs/ladder and platform to enable access to the ladder. Ensure 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) Assess if the installation a side screen, ladder cage or other type of enclosure to prevent a sideways fall from the ladder, if practical for the end users.	
R028-4	Repeater Station 28 - Communications Tower	Assessed using surveillance photo. 1) No access platform provided for ease of access to the ladder. Note: This may have not be provided for the purpose of preventing unauthorised access. 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 ladder enclosure has been installed for the ladder to meet AS requirements (where a fall of more than 6m). 4) No hi vis (yellow) anti-slip tread installed on the ladder rungs. Findings on hold pending discussion with Dane. Refer to comments.	1) Install a access stairs/ladder and platform to enable access to the ladder. Ensure 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) Assess if the installation a side screen, ladder cage or other type of enclosure to prevent a sideways fall from the ladder, if practical for the end users. 4) Install hi vis (yellow) anti-slip tread on the ladder rungs.	
R029-3	12/04/2024 Repeater Station 29 - Communications Tower	Assessed using surveillance photo. Site visit required to obtain additional photos and measurements. 1) No access platform provided for ease of access to the ladder. Note: This may have not be provided for the purpose of preventing unauthorised access. 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 ladder enclosure has been installed for the ladder to meet AS requirements (where a fall of more than 6m). 4) No hi vis (yellow) anti-slip tread installed on the ladder rungs. Findings on hold pending discussion with Dane. Refer to comments.	1) install a access stairs/ladder and platform to enable access to the ladder. Ensure a lockable gator 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) Assess if the installation a side screen, ladder cage or other type of enclosure to prevent a sideways fall from the ladder, if practical for the end users. 4) install hi vis (yellow) anti-slip tread on the ladder rungs.	

		Assessed using surveillance photo. Site	
		visit required to obtain additional photos	
		and measurements.	1) Install a case a string / a did or
		1) No second platforms may ideal for second	1) Install a access stairs/ladder
		No access platform provided for ease of access to the ladder.	and platform to enable access to the ladder. Ensure a lockable
		Note: This may have not be provided for	gate or similar and signage is
		the purpose of preventing unauthorised	provided to prevent
		access.	unauthorised access.
		uccess.	undutionised decess.
		2) No fall restraint/arrest system in place	2) Install a certified fall
		for personnel using the ladder. This	restraint/arrest system that is
R030-5	Repeater Station 30 -	exposes personnel to a significant fall that C. Unlikely 4. Major	High suitable for the end users.
	Communications Tower	would likely result in a fatality or serious	
		injury.	3) Assess if the installation a side
			screen, ladder cage or other type
		3) No ladder enclosure has been installed	of enclosure to prevent a
		for the ladder to meet AS requirements	sideways fall from the ladder, if
		(where a fall of more than 6m).	practical for the end users.
		4) No hi vis (yellow) anti-slip tread	4) Install hi vis (yellow) anti-slip
		installed on the ladder rungs.	tread on the ladder rungs.
		Findings on hold pending discussion with	
	 	Assessed using surveillance photo. Site	1) Install a access stairs/ladder
		visit required to obtain additional photos	and platform to enable access to
		and measurements.	the ladder. Ensure a lockable
			gate or similar and signage is
		1) No access platform provided for ease	provided to prevent
		of access to the ladder.	unauthorised access.
		Note: This may have not be provided for	
		the purpose of preventing unauthorised	2) Install a certified fall
	Repeater Station 36 -	access.	restraint/arrest system that is
R036-5	12/04/2024 Communications Tower	C. Unlikely 4. Major	High suitable for the end users.
		2) No fall restraint/arrest system in place	
		for personnel using the ladder. This	3) Assess if the installation a side screen, ladder cage or other type
		exposes personnel to a significant fall that would likely result in a fatality or serious	
		injury.	of enclosure to prevent a sideways fall from the ladder, if
		injury.	practical for the end users.
		3) No ladder enclosure has been installed	production for the end discrete
		for the ladder to meet AS requirements	4) Install hi vis (yellow) anti-slip
		(where a fall of more than 6m).	tread on the ladder rungs.
		Assessed using surveillance photo. Site	
		visit required to obtain additional photos	1) Install a access stairs/ladder and platform to enable access to
		and measurements.	and placiform to chable access to
			the ladder. Ensure a lockable
		1) No access platform provided for ease	gate or similar and signage is
		of access to the ladder.	provided to prevent
		Note: This may have not be provided for the purpose of preventing unauthorised	unauthorised access.
		access.	2) Install a certified fall
		access.	restraint/arrest system that is
R037-5	Repeater Station 37 -	2) No fall restraint/arrest system in place	High suitable for the and users
11.007.5	Communications Tower	for personnel using the ladder. This	
		exposes personnel to a significant fall that	3) Assess if the installation a side
		would likely result in a fatality or serious	screen, ladder cage or other type
		injury.	of enclosure to prevent a
			sideways fall from the ladder, if
		3) No ladder enclosure has been installed	practical for the end users.
		for the ladder to meet AS requirements	
		(where a fall of more than 6m).	4) Install hi vis (yellow) anti-slip tread on the ladder rungs.
			tread on the ladder rungs.
	 	4) No hi vis (yellow) anti-slip tread Assessed using surveillance photo. Site	
		visit required to obtain additional photos	
		and measurements.	
			1) Install a access stairs/ladder
		1) No access platform provided for ease	and platform to enable access to
		of access to the ladder.	the ladder. Ensure a lockable
		Note: This may have not be provided for	gate or similar and signage is
		the purpose of preventing unauthorised	provided to prevent
		access.	unauthorised access.
		2) No fall restraint/arrest system in place	2) Install a certified fall
	Repeater Station 2 -	for personnel using the ladder. This	restraint/arrest system that is
R002-7	22/04/2024 Communications Tower	exposes personnel to a significant fall that C. Unlikely 3. Severe	High suitable for the end users.
		would likely result in a fatality or serious	2) Assess if the installation a side
		injury.	3) Assess if the installation a side
		3) No ladder enclosure has been installed	screen, ladder cage or other type of enclosure to prevent a
		for the ladder to meet AS requirements	of enclosure to prevent a sideways fall from the ladder, if
		(where a fall of more than 6m).	practical for the end users.
		(where a rail or more dial only.	
		4) No hi vis (yellow) anti-slip tread	4) Install hi vis (yellow) anti-slip
		installed on the ladder rungs.	tread on the ladder rungs.
		Findings on hold pending discussion with	
		Dane. Refer to comments.	

R003-7	Repeater Station 3 - Communications Tower	Assessed using surveillance photo. Site visit required to obtain additional photos and measurements. 1) No access platform provided for ease of access to the ladder. Note: This may have not be provided for the purpose of preventing unauthorised access. 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 ladder enclosure has been installed for the ladder to meet AS requirements (where a fall of more than 6m). 4) No hi vis (yellow) anti-slip tread installed on the ladder rungs. Findings on hold pending discussion with Dane. Refer to comments.	1) Install a occess stairs/ladder and platform to enable access to the ladder. Ensure 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) Assess if the installation a side screen, ladder cage or other type of enclosure to prevent a sideways fall from the ladder, if practical for the end users. 4) Install hi vis (yellow) anti-sip tread on the ladder rungs.
R006-7	Repeater Station 6 - Communications Tower	Assessed using surveillance photo. Site visit required to obtain additional photos and measurements. 1) No access platform provided for ease of access to the ladder. Note: This may have not be provided for the purpose of preventing unauthorised access. 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 ladder enclosure has been installed for the ladder to meet AS requirements (where a fall of more than 6m). 4) No hi vis (yellow) anti-slip tread installed on the ladder rungs. Findings on hold pending discussion with Dane. Refer to comments.	1) Install a access stairs/ladder and platform to enable access to the ladder. Ensure a lockable gate or similar and signage is provided to prevent unauthorised access. 2) Install a certified fall restrainty arrest system that is suitable for the end users. 3) Assess if the installation a side screen, ladder cage or other type of enclosure to prevent a sideways fall from the ladder, if practical for the end users. 4) Install hi vis (yellow) anti-slip tread on the ladder rungs.
R007-7	Repeater Station 7 - Communications Tower	Assessed using surveillance photo. Site visit required to obtain additional photos and measurements. 1) No access platform provided for ease of access to the ladder. Note: This may have not be provided for the purpose of preventing unauthorised access. 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 ladder enclosure has been installed for the ladder to meet AS requirements (where a fall of more than 6m). 4) No hi vis (yellow) anti-slip tread installed on the ladder rungs. Findings on hold pending discussion with Dane. Refer to comments.	1) Install a access stairs/ladder and platform to enable access to the ladder. Ensure 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) Assess if the installation a side screen, ladder cage or other type of enclosure to prevent a sideways fall from the ladder, if practical for the end users. 4) Install hi vis (yellow) anti-slip tread on the ladder rungs.

R008-7	Repeater Station 8 - Communications Tower	Assessed using surveillance photo. Site visit required to obtain additional photos and measurements. 1) No access platform provided for ease of access to the ladder. Note: This may have not be provided for the purpose of preventing unauthorised access. 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 ladder enclosure has been installed for the ladder to meet AS requirements (where a fall of more than 6m). 4) No hi vis (yellow) anti-slip tread installed on the ladder rungs. Findings on hold pending discussion with Dane. Refer to comments.	1) Install a access stairs/ladder and platform to enable access to the ladder. Fisore a locability 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) Assess if the installation a side screen, ladder cage or other type of enclosure to prevent a sideways fall from the ladder, if practical for the end users. 4) Install hi vis (yellow) anti-slip tread on the ladder rungs.
R026-4	12/04/2026 Repeater Station 26 - Communications Tower	Assessed using surveillance photo. Site visit required to obtain additional photos and measurements. 1) No access platform provided for ease of access to the ladder. Note: This may have not be provided for the purpose of preventing unauthorised access. 2) No fall restraint/arrest system in place for personnel using the ladder. This exposes personnel to a significant fall that	1) Install a access stairs/ladder and platform to enable access to the ladder. Ensure a lockable gate or similar and signage is provided to prevent unauthorised access. High 2) Install a certified fall restraint/arrest system that is suitable for the end users. 3) Assess if the installation a side screen, ladder care or other type.

Compressor Station	Total site specific risks identified					
CS1	19					
CS2	13					
CS3	36					
CS4	28					
CS5	37					
CS6	40					
CS7	52					
CS8	76					
CS9	48					
CS10	47					
Total	396					

High risk only
4
4
4
3
5
8
9
7
3
8
55

c Date Added Location on Site	Issue Likelihood	Consequence F	Risk Score	Suggestions	Evidence	What is being completed	Date Planned for Completion	Date Completed	Comments
CS01-1 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 one1.2) Pour new landing2.1) Replace ladder with new treads and non-slip		Replace ladder and landing. Pour new landing			
CS01-17 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. D. Occasional 3) Greater potential to fall if facing away from the stairs when descending. Note: Based on CS06 assessment.	3. Severe	Medium	 Install hi vis (yellow) tread onto the nosing of the stairs. Install a self closing gate at the top of the stairs. 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.				
CS01-18 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.	3. Severe	Medium	 Install an additional handrail on both sides of the stair to provide protection against falling over handrail. Install hi vis (yellow) tread onto the nosing of the stairs. Install a self closing gate at the top of the stairs. Install signage on both sides of the gate to instruct personnel to only descend the stairs whilst facing towards the stair. 					
CS01-19 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.	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.				
CS01-20 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.	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)	No photos available. Refer to CS06.				
CS01-2 22/02/2023 Diesel Fuel Tank / Bowser	1) Handrail does not meet AS1657 requirement of 900mm (~600mm actual recorded). 2) No gate at the top of the work platform. D. Occasional Potential fall of 1.9m	3. Severe	Medium	 1.1) Replace the access ladder and platform with access stairs and platform, with handrails. 1.2) Modify the bund if required to accommodate the new platform and access stairs / ladder. 2) Self closing gate to be installed at the top of the platform. 					
CS01-3 22/02/2023 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 using the ladder. Therefore it does not meet AS 1657 requirements. 3) No non-slip tread on ladder rungs.	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.					
CS01-4 22/02/2023 GEA Fuel Gas Skid	1) Step up / down from grid mesh platform is 450mm and the current design is not compliant with AS 1657 (300-450mm requires a minimum of 1 step). 4 locations of this identified. C. Unlikely 2) No hi vis (yellow) strip on the nosing (ends) of the grid mesh platform. 4 locations of this identified.	2. Minor	Low	1) Install a step between the landing and grid mesh platform to provide safe access at each location. 2) Install hi vis (yellow) non-slip strip on the nosing of each grid mesh platform (4 locations) as well as stairs installed under Action 1.					
CS01-5 22/02/2023 ACS Lube Oil Cooler	1) Two ladders have landings that does not meet the AS1657 requirements. 2) Two ladders are currently installed on top of concrete steps due to being the incorrect size. C. Unlikely incorrect size.	3. Severe	Medium	1) Pour a new landing for each ladder. 2) Replace both ladders with the correct size, to ensure it runs from the landing to the platform.					



С	Date Added	Location on Site	Issue	Likelihood	Consequence	Risk Score	Suggestions	Evidence	What is being completed	Date Planned for Completion	Date Completed	Comments
CS01-6	1 1 1 1 1 1 1 1 1 1 1 1 2	ACS Lube Oil Cooler - Platform (East Side)	1) On the middle platform, there is no mid rail between the existing handrail and the access ladder to the top platform. This has created the potential for a fall from height.	B. Remote	3. Severe		1) On the middle platform, install a handrail between the existing handrail and the ladder to the top platform.					
CS01-7	1//////////	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.	No photos available. Refer to CS08.				
CS01-8	22/02/2023		1) Step up / down from grid mesh platform is 450mm and the current design is not compliant with AS 1657 (300-450mm requires a minimum of 1 step). There is 2 locations of this.	C. Unlikely	2. Minor	Low	1) Install step(s) between the landing and grid mesh platform to provide safe access at each end.					
CS01-9	22/02/2023		1) The landing for the ladder does not meet AS1657 requirements of 900mm from the bottom lung. 2) The angle of the slope (58.40 degrees) below the AS1657 requirements for step type ladders of Min 60 degrees and Max 70 degrees. Calculation Notes: 3.8m Rise (height), 2.2m Run (length), 16 Runs (steps). *To be verified by JW. 3) Handrail does not meet AS requirements by beginning within a max of 900mm of the landing. 4) Nosing of stairs does not have hi vis (yellow) tread installed. 5) Greater potential to fall if facing away from the stairs when descending.	B. Remote	3. Severe	Low	1) Pour a new landing. 2) Install a new staircase 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) Modify the handrail to meet the AS requirements. 4) Ensure the stairs have hi vis (yellow) tread installed on the nosing of each stair. 5) Install signage on both sides of the gate to instruct personnel to only descend the stairs whilst facing towards the stair.					JW to double check calculation is accurate. Calculator used - https://www.calculator.net/stair- calculator.html?run=2.2&rununit=meter&totalrun=5&totalrununit=meter&ctype=one&total height=3.8&totalheightunit=meter&x=83&y=17
CS01-10	22/02/2023		1) The landing for the ladder does not meet the AS1657 requirements of 900mm from the bottom lung.	B. Remote	2. Minor	Low	1) Pour a new landing.					
CS01-11	22/02/2023	Blow Flask Skid	1) Step up / down from grid mesh platform is 450mm and the current design is not compliant with AS 1657 (300-450mm requires a minimum of 1 step). There is 2 locations of this. 2) No hi vis (yellow) strip on the nosing (ends) of the grid mesh platform. There is 2 locations of this.	C. Unlikely	2. Minor	Low	1) Install a step between the landing and grid mesh platform to provide safe access at each end. 2) Install a hi vis (yellow) non-slip strip on the nosing of each end of the platform and installed stairs.					
CS01-12	1/////////		 Step up / down from grid mesh platform is 450mm and the current design is not compliant with AS 1657 (300-450mm requires a minimum of 1 step). There is 2 locations of this. No hi vis (yellow) strip on the nosing (ends) of the grid mesh platform. There is 2 locations of this. 	C. Unlikely	2. Minor	Low	1) Install a step between the landing and grid mesh platform to provide safe access at each end. 2) Install hi vis (yellow) non-slip strip on the nosing of each end of the platform.					
CS01-13		Confined Space - Access Ladder (West Side of Plant)	1) The Control Box adjacent to ladder is partially obstructing access. 2) 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. 3) No non-slip tread on ladder rungs.	C. Unlikely	4. Major	High	1) Consider relocating the control box to provide unobstructed access to the ladder or alternatively relocate the ladder. 2) Replace the ladder, ensuring it extends 1m past the top landing, with sufficient locations to hold onto when mounting / dismounting the ladder. 3) Replacement ladder to have hi vis (yellow) non-slip tread installed on the rungs.					
CS01-14	22/02/2023		 The landing for the ladder does not meet the AS1657 requirements of 900mm from the bottom lung. No handrails have been installed on the 	C. Unlikely	2. Minor	Low	1) Pour a new landing.					
CS01-15	22/02/2023	After Cooler Fans - Top Platform	sloping edges adjacent to the 2 x grid mesh staircases. This is located on the top of the platform. 2) No hi vis (yellow) tread on the nosing of the stairs.	C. Unlikely	3. Severe	Madium	 Install handrails to prevent access to the sloping edges. Install hi vis (yellow) tread on the nosing of the stairs. Re-route the cables to outside 					
			3) Cables installed in the access way between the after cooler fans, creating a trip hazard.1) No guarding has been installed on the				of the walkway.					
CS01-16	22/02/2023	After Cooler Fans - Top Platform	top of the fan enclosures, to prevent access during operation. Multiple fans at this location.	C. Unlikely	4. Major	High	Install a grid mesh hatch or similar and attach it to the existing structure.					

c Date Added Location on Site Issue Likelihood Consequence	Risk Score	Suggestions	Evidence	What is being completed Date Planned for Completion	Date Completed Comments
CS01-21					
CS01-22					
CS01-23					
CS01-24					
CS01-25					
CS01-26					
CS01-27					
CS01-28					
CS01-29					
CS01-30					
CS01-31					
CS01-32					
CS01-33					
CS01-34					
CS01-35					
CS01-36					
CS01-37					
CS01-38					
CS01-39					
CS01-40					
CS01-41					
CS01-42					
CS01-43					
CS01-44					
CS01-45					
CS01-46					

c Date Added Location on Site	Issue	Likelihood	Consequence	Risk Score Suggestions	Evidence	What is being completed	Date Planned for Completion	Date Completed	Comments
CS01-47									
CS01-48									
CS01-49									
CS01-50									
CS01-51									
									<u> </u>

Reference	Date Added	Location on Site	Issue	Likelihood	Consequence Risk	Score Suggestions	Evidence	What is being completed	Date Planned for Completion	Date Completed	Comments
CS02-1	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 one1.2) Pour new landing2.1) Apply non slip to tread nose					
CS02-2	21/02/2023	Diesel Fuel Tank / Bowser	 Handrail does not meet AS 1657 requirement of 900mm (~600mm actual recorded). No gate at the top of the work platform. Potential fall of 1.9m 	D. Occasional	3. Severe Me	1.1) Replace the access ladder and platform with access stairs and platform, with handrails. 1.2) Modify the bund if required to accommodate the new platform and access stairs / ladder. 2) Self closing gate to be installed at the top of the platform.					
CS02-3	21/02/2023	After Cooler Fans - Top Platforms	1) Several locations where there is a gap between the existing handrails and the fan enclosures exceeds the AS 1657 allowance (max 100mm). 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	4. Major H	1) Extend the handrail to the fan enclosures to eliminate exposure to a unprotected edge.					
CS02-4	21/02/2023	After Cooler Fans - Top Platforms	1) No guarding has been installed on the top of the fan enclosures, to prevent access during operation. Multiple fans at this location.	C. Unlikely	4. Major H	1) Install a grid mesh hatch or similar and attach it to the existing structure.					
CS02-5	21/02/2023	After Cooler Fans - Top Platforms	1) 2 x Pins sticking out from the handrail, exposing personnel to injury.	C. Unlikely	2. Minor L	1.1) Hazard raised in InControl (#18423) by DBP Head of Health and Safety - Transmission. 1.2) The protruding pins are to be cut and grinded until flush with the handrail.					
CS02-6	121/02/2022	Unit 2 - Access Platform for Bettic Equipment	1) Chain has been used in lieu of a handrail at the top of the platform, adjacent to the Bettic Equipment. Chain will break in the event of a fall and therefore will not meet AS 1657 requirements for guardrails.	C. Unlikely	3. Severe Me	1) Replace the chains with handrails that meets AS 1657 requirement.					
CS02-7	21/02/2023	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 H	 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. 					
CS02-8	21/02/2023	Unit 2 - Middle Platform (East Sid	1) There is a gap between the existing e) handrail and structure, which exceeds the AS 1657 requirements (=< 100mm).	B. Remote	3. Severe	1) Extend the handrail towards the structure to reduce the gap. Ensure the hatch can still be operated without obstruction.					
CS02-9	21/02/2023	Unit 2 - Middle Platform (East Sid	1) Ladder to access the top platform does e) not have high vis (yellow) non-slip tread fitted to the rungs.		2. Minor L	1) Retrofit the ladder with hi vis (yellow) non-slip tread to the rungs.					
CS02-10	21/02/2023	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. Offlikely	4. Major	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.					



CS02-11 21/02/2023		1) The landing for multiple ladders do not meet AS1657 requirements of 900mm from the bottom lung.		2. Minor		1) Pour a new landing.	Evidence What is being completed Date Planned for Completion Date Completed Comments Date Planned for Completion Date Completed Comments
CS02-12 21/02/2023	ACS Lube Oil Coolers	1) The landing for multiple ladders do not meet AS1657 requirements of 900mm from the bottom lung. 1) No work platform is available to	D. Occasional	2. Minor	Low	1) Pour a new landing.	
CS02-13 18/12/2023	Unit 3 Vent Valve	provide access to the Vent Valve. This results in personnel setting up a platform ladder on blue metal or sitting on the pipework, exposing personnel to a fall of ~2m Note: Hazard Report #18601 highlights this hazard.		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.	
CS02-14 21/05/2024	GEA Freh Oil and Waste Oil Tanks	 1.1) Access stairs being used for access and as a work platform to accesss the fresh oil inspection port. 1.2) No suitable access to the waste oil inspection port. Currently a person may have to over reach or position a portable ladder on uneven blue metal, creating the risk of a fall. 	D. Occasional	2. Minor	Low	1) Replace the stairs with stairs and work platform that meets AS1657 requirements and allow access to both inspection ports. 2) Pour a landing.	
CS02-15							
CS02-16							
CS02-17							
CS02-18							
CS02-19							
CS02-20							
CS02-21							
CS02-22							
CS02-23							
CS02-24							
CS02-25							
CS02-26							
CS02-27							
CS02-28							
CS02-29							

Reference	Date Added Location on Site	Issue	Likelihood	Consequence	Risk Score Suggestions	Evidence What is being completed	Date Planned for Completion	Date Completed	Comments
CS02-30									
CS02-31									
CS02-32									
CS02-33									
CS02-34									
CS02-35									
CS02-36									
5502-50									
CS02-37									
CS02-38									
CS02-39									
CS02-40									
CS02-41									
CS02-42									
CS02-43									
CS02-44									
CS02-45									
CS02-46									
			1						
CS02-47									
			+						
CS02-48									
CS02-49									
CS02-50									
<u>, </u>	· · · · · · · · · · · · · · · · · · ·	•		•		·	+	•	

Refe	ence Date added	Location on Site	Issue	Likelihood	Consequence	Risk Score	Suggestions	Evidence	What is being completed	Date planned for completion	Date completed	Comments
CS03	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 one1.2) Pour new landing2.1) Replace ladder with new treads and non-slip		Replace ladder and landing. Pour new landing			
CS03	1 21/04/2023	Diesel Fuel Tank / Bowser	1) Handrail does not meet AS requirement of 900mm (~570mm). 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	 Replace the access ladder and platform with access stairs and platform, with handrails and hi vis tread. Self closing gate to be installed at the top of the platform. Ensure the landing on the redesigned access stairs and platform meet the AS requirements. Modifying the bund if required. 					100% sanity check of findings, solutions and grammer - up to here.
CS03	2 21/04/2023	Storage Tank Adjacent to Diesel	1) Reo-bar used as ladder runs and this does not meet AS requirement. 2) No handrails have been installed. 3) Landing does not meet AS requirements. Obstructed by bunding. 4) Temporary step up does not meet AS requirement for Riser 130mm to 225mm (~300mm per step).	D. Occasional	3. Severe		 Replace the access ladder and install an platform with access stairs and platform, with handrails and hi vis tread. Self closing gate to be installed at the top of the platform. Ensure the landing on the redesigned access stairs and platform meet the AS requirements. Modify the bund if required. Remove the temporary stairs and tag out of service until they can be modified to meet AS requirements or is disposed of. 					
CS03	3 21/04/2023	Exterior Tanks	1) No platform available to access the inspection hatch on the top of the two tanks. Likely platform ladder on blue metal or standing on the concrete pad the tank sits on is used for access. Potential fall of 2080mm.	C. Unlikely	2. Minor	Low	1) Install a landing, step up and platform that complies with AS requirements. Ask a FMO or Dave Martin if we would perform a task to access the top. If no, hid the cell.					
CS03	4 21/04/2023	Water Treatment Plant - 2 x Inspection Pits Inside Plant	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 using the ladder. Therefore it does not meet AS 1657 requirements. 3) No non-slip tread on ladder rungs.	B. Remote	4. Major	Wediaiii	 Consider the position of the ladder when being redesigned, to allow for safe access / egress. Redesign the ladder and hand grips to provide suitable access and meet AS1657 requirements. Replacement ladder to have hivis (yellow) non-slip tread installed on the rungs. Do we ever access these? For what? Frequency? Ask FMO. 					
CS03	5 21/04/2023	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		 Install hi vis (yellow) non-slip tread installed on the rungs. Extend landing to meet AS requirements. Extend the handrail to within 100mm of the vessel. Change to recommend the ladder is removed if it not required. Ask a FMO or David Martin from this work group. 					
CS03	6 21/04/2023	Fuel Gas Skid For Stage 1 Unit	1) Step up / down from the grid mesh platform is 390mm and is therefore noncompliant with AS1657 (130-225mm). There is 2 locations of this.	C. Unlikely	2. Minor	Low	1) Install a step between the landing and grid mesh platform to provide safe access at each end.					
CS03	7 21/04/2023		ground.	C. Unlikely	2. Minor	Low	1) Modify the size of the landing to meet AS requirements (including step up from ground to landing and size of 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	
	21/04/2023 Unit 1 After Coolers - West Acces Ladder	1) Landing does not meet the AS requirements (size and step up from ground.	C. Unlikely		1) Modify the size of the landing to most AS requirements		
CS03-9	21/04/2023 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	1) Modify the platform and handrails to provide access for maintenance tasks without being exposed to the risk of a fall. No photos available. Refer to CS08.		
CS03-10	21/04/2023 ACS Inlet Duct	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.		3. Severe	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. Medium 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.		
CS03-11	21/04/2023 ACS Inlet Duct - Middle Deck Access Ladder	 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. Handrail does not meet AS requirements by not extending the full length of the stairs. 	B. Remote	2. Minor	1) Ensure the new stairwell has suitably sized steps that meet AS1657 requirements. 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. Check tread size in AS.		
CS03-12	21/04/2023 ACS Inlet Duct - Middle Deck	 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 Note: The small piece of metal on the edge of the ducting was identified and removed and subsequently a hazard report raised. 	P. Pomoto	2. Minor	1) Modify the handrail to extend within 100mm of the structure. 2) Install a kick plate along the open edge of the grid mesh.		
CS03-13	21/04/2023 ACS Inlet Duct - Top Deck	 The landing for the ladder does not meet AS1657 requirements of 900mm. 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. Handrail does not meet AS requirements by not extending the full length of the stairs. 		3. Severe	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.		
CS03-14	21/04/2023 ACS Exhaust Duct	1) The landing for the ladder does not meet AS1657 requirements of 900mm.	B. Remote	2. Minor	Low 1) Pour a new landing.		
CS03-15	Access Stairs Over Ground Level Pipework - Several Locations	 The landing for the stairs does not meet AS1657 requirements of 900mm. No hi vis (yellow) tread installed onto the nosing of each stair. 	C. Unlikely	2. Minor	1) Pour a new landing. 2) Install hi vis (yellow) tread onto the nosing of each stair.		

Reference Date added Location on Site	Issue	Likelihood	Consequence	e Risk Score	e Suggestions	Evidence What is being completed	Date planned for completion	
CS03-16 21/04/2023 Fuel Reduction Skid (West Side of Plant)	1) Step up / down from the grid mesh platform is 370mm and is therefore noncompliant with AS1657 (130-225mm). There is 2 locations of this	B. Remote	2. Minor	Low	1) Install a step between the landing and grid mesh platform to provide safe access at each end.			
CS03-17 21/04/2023 Unit 1 Pressure Reduction Skid	1) No hi vis (yellow) strip on the nosing (ends) of the grid mesh platform.	B. Remote	2. Minor		1) Install hi vis (yellow) non-slip strip on the nosing of the skid's access point.			
CS03-18 21/04/2023 Unit 1 Vessel - Access Platform	 The ladder does not meet AS requirements (e.g. run full length to the landing, step up too great). 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		 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. 			
CS03-19 21/04/2023 Unit 1 Compressor Oil Cooler Fan Access Stairs	 The landing for the stairs does not meet AS1657 requirements of 900mm. The handrail does not run the full length of the stairs, increasing the potential of being unable to arrest a slip / fall. No hi vis (yellow) tread installed onto each stair. 	C. Unlikely	3. Severe	Medium	 Pour a new landing. Modify the handrail to run the full length of the stairs. Install hi vis (yellow) tread onto each stair. 			
CS03-20 21/04/2023 Unit 1 Compressor Oil Cooler Fan Platform	1) The existing handrail does not extend as - around the outside of the fan enclosure on other side. This creates the risk of a fall of ~1.9m.	C. Unlikely	3. Severe		Install additional handrails and supporting structure around both fan enclosures.			
CS03-21 21/04/2023 GEA 1 and 2 - Oil / Hydraulic Fluid Tank	 The stairs riser (260mm) does not meet AS requirements. The stairs are being used as a work platform. No hi vis (yellow) tread installed onto each stair. 	C. Unlikely	3. Severe	Medium	 1.1) 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 			
CS03-22 21/04/2023 GEA 1 and 2 - Fuel Gas Skid	1) The step up (370mm) from the ground to the grid mesh platform exceeds AS requirements (130-225mm).	C. Unlikely	2. Minor		1) Install a step between the landing and grid mesh platform to provide safe access at the four access points.			
CS03-23 21/04/2023 Desiccant Dryers x 2	 The landing (280mm) does not meet AS requirement of 600mm (Depth). No hi vis (yellow) tread installed on the nosing of the platform. Cable tray adjacent to step ups is a trip hazard and the hi vis tape has faded. 	B. Remote	2. Minor		 Remove old landing and pour a new landing. Install hi vis (yellow) tread onto the nosing of the two access points. Relocate the cable tray to eliminate the trip hazard if practically possible. If the cable tray can not be relocated then apply new hi vis tape. 			

Reference	Date added Location on Site	Issue	Likelihood Conse	uence Risk Score Suggestions	Evidence	What is being completed	Date planned for completion	Comments	
CS03-24	21/04/2023 Unit 3 - Combustible Liquid Tank	1) The stairs do not meet AS requirements (e.g. first step's riser is 360mm, no handrails, no hi vis nosing). The stairs are being used as a work platform Potential for a fall from the stop stair is 760mm.	C. Unlikely 3. So	1) Replace the concrete stairs with a work platform and accesstairs that is AS compliant.					
CS03-25	21/04/2023 Unit 3 Pipework (South Side) - Access Ladder	 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. No hi vis (yellow) tread is installed on the nosing of top platform / top ladder rung. Ladder is not positioned in the centre of the landing (grid mesh platform) and landing is insufficient size. 	C. Unlikely 2. N	1) Replace the existing gate was self closing gate. 2) Install hi vis (yellow) tread of the nosing top platform / top ladder rung. 3) Modify the grid mesh landing to meet AS requirements.	th on				
CS03-26	21/04/2023 Unit 3 Pipework (South Side) - Platform	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. T	1) Modify the platform and install kick plates to reduce th risk of a trip / fall through the open edges. Low 2) Modify the handrail to eliminate or reduce the gap between the handrail and adjacent pipework.					
CS03-27	After Cooler Fans - Fans 5-10 - 4: Access Ladders For 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.	C. Unlikely 2. N	1) Modify the ladder to ensure runs full length and risers mee AS requirements.	eit				
CS03-28	After Cooler Fans - Fans 5-10 - To Platform	 No hatches installed on the top of the 6 x after cooler fans. Exposure to a fall and contact with fan blades if not isolated. Note: Hatches are installed on some after cooler fans onsite (e.g. fans 1-4). Some handrails have a gap (up to 140mm) between the handrail and adjacent structure (e.g. fan enclosures) which exceeds AS requirements. 		1) Install a hatch on each after cooler fan without one. ajor High 2) Modify the handrail to eliminate gaps that exceed 100mm.					
CS03-29	21/04/2023 After Cooler Fans - Fans 5-10 - Middle Platform	1) Gap between the handrail and structure exceeds AS requirements.	C. Unlikely 3. So	1) Modify the handrail to eliminate gaps that exceed 100mm.					

eference Date added Location on Site	Issue	Likelihood	Consequence	Risk Score Suggestions Evidence What is being completed Date planned for completion Date completed	Comments	
S03-30 21/04/2023 After Cooler Fans - Fans 1-4 - Top Platform - Access Way	 Stairs do not have hi vis (yellow) tread installed onto the nosing of each stair. Open edge adjacent to each set of stairs, running along the platform. This exposes personnel to a fall into the access way. 		3. Severe	1) Install hi vis (yellow) tread onto the nosing of each stair.		
S03-31 21/04/2023 After Cooler Fans - Fans 1-4 - 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.		3. Severe	High 1) Install handrails to eliminate exposure to a unprotected edge.		
S03-32 21/04/2023 Unit 1 Suction Scrubber	1) The gap between the handrail and structure exceeds the AS requirement (max 100mm).	B. Remote	2. Minor	1) Consider modifying the handrail to eliminate or reduce the gap to meet the AS requirement.		
Unit 2 - Lower Access Stairs for First Platform (Crane)	 No hi vis (yellow) tread installed onto the nosing of stairs (width 550mm). No self closing gate installed at the top of the stairs. Greater potential to fall if facing away from the stairs when descending. Note: Based on CS06 assessment. 	D. Occasional	3. Severe	1) Install hi vis (yellow) tread onto the nosing of the stairs. 2) Install a self closing gate at the top of the stairs. No photos available. Refer to CS06. 3) Install signage on both sides of the gate to instruct personnel to only descend the stairs whilst facing towards the stair.		
Walkway for Craffe Access	 Handrail does not provide adequate protection to prevent a fall over the stair's handrail. No hi vis (yellow) tread installed onto the nosing of stairs. No self closing gate installed at the top of the stairs. Greater potential to fall if facing away from the stairs when descending. Note: Based on CS06 assessment. 		3. Severe	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.		
Unit 2 - Access Stairs for Level 1 (Rail Height) on Other Side of Crane Platform	 Handrail does not provide adequate protection to prevent a fall over the stair's handrail. No hi vis (yellow) tread installed onto the nosing of stairs. No self closing gate installed at the top of the stairs. Greater potential to fall if facing away from the stairs when descending. Note: Based on CS06 assessment. 	D. Occasional	3. Severe	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.		
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	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). High 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 add	led Location on Site	Issue	Likelihood Consequence Risk Score	Suggestions Evidence	What is being completed	Date planned for completion	Date completed	Comments	THE RESERVE THE PARTY OF THE PA
									7

Refere	ence Date added	Location on Site	Issue	Likelihood Consequence	Risk Score Suggestions	Evidence	What is being completed	Date planned for completion	Date completed	Comments
CS04-1	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 nonslip.		install new pr	ew landing e ladder with new	Replace ladder and landing. Pour new landing			
CS04-1	21/04/2023	Diesel Fuel Tank / Bowser	1) Handrail does not meet AS requirement of 900mm (~650mm). 2) No gate at the top of the work platform. 3) Landing does not meet AS requirements. Obstructed by bunding. 4) Personnel are standing on the top of the bunding to access the opposite end of the tank (e.g. to conduct dip stick check).	D. Occasional 3. Severe	platform with platform, with vis tread. This on the other support impreland (3.) 2) Self closing at the top of the top of the redesigned acoustic platform meeting requirements.	tent a platform and so or ladder. the bund to				
CS04-2	2 21/04/2023	Storage Tank Adjacent to Diesel Fuel Tank	 Reo-bar used as ladder runs and this does not meet AS requirement. No handrails have been installed. Landing does not meet AS requirements. Obstructed by bunding. Personnel are standing on the top of the bunding to access the opposite end of the tank (e.g. to conduct dip stick check). 	D. Occasional 3. Severe	install an plat stairs and plat handrails and 2) Self closing at the top of to 3) Ensure the redesigned ac platform meet requirements 4.1) Impleme access stairs of 4.2) Modify the	eet the AS its. ient a platform and is or ladder.				
CS04-3	21/04/2023	Water Treatment Plant - 2 x Storage Tanks	1) No access stairs / ladder and platform to access the top hatch. Likely personnel use a ladder and existing concrete bund (on one tank only). This creates the risk of a fall during inspection of the tank and other related activities. Fall from the top of the tank ~2.5m or from top of concrete bund 750mm.	B. Remote 3. Severe	and platform gate, hi vis (ye	cess stairs or ladder m with self closing yellow) tread on nosing, handrails, S compliant.				
CS04-4	21/04/2023	Water Treatment Plant - 2 x Inspection Pits Inside Plant	 Poor access / egress from ladder. 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. No non-slip tread on ladder rungs. 	B. Remote 4. Major	ladder to allow egress. 2) Redesign the grips to provious and meet AS1 3) Replacement	nent ladder to have hi non-slip tread the rungs.				
CS04-5	21/04/2023	Unit 1 Vessel - Access Platform	1) The ladder does not meet AS requirements, including the ladder does run full length to the landing and the step up is 220mm (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	AS requirement 1.2) Modify the to the new large	the ladder so its runs landing and the first ets AS requirements.				Module may be redundant.



D. C D		I	191 -191 1		Latitude			
CS04-6 21/04/2023	Unit 1 Compressor 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.	C. Unlikely		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.	What is being completed Date planned for completion Date completed Date completed	Module may be redundant.	
CS04-7 21/04/2023	Unit 1 Compressor 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.		Module may be redundant.	
CS04-8 21/04/2023	Unit 1 Washdown Waste Tank	1) Metal box currently being provided for access to the inspection hatch. Metal box is 400mm high and potentially slippery under some circumstances. Access provided does not meet AS requirements Note: Feedback onsite was they believed this tank and therefore the metal box were redundant.	s. B. Remote	2. Minor	1.1) If redundant, remove the metal box and dispose it. Low 1.2) If not redundant, replace the metal box with access stairs and platform that meet AS requirements.			
CS04-9 21/04/2023	Unit 1 Suction Scrubber	 The gap (450-500mm) between the handrail and structure exceeds the AS requirement (max 100mm). Note: The pipework reduces the potentia to fall through the identified gaps, to ground level. The ladder rungs do not have hi vis (yellow) tread installed. 	al C. Unlikely	2. Minor	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.			
CS04-10 21/04/2023	Unit 1 Pressure Reduction Skid	 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. No hi vis (yellow) strip on the nosing (ends) of the grid mesh platform. 	B. Remote	2. Minor	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.		Module may be redundant.	
CS04-11 21/04/2023	Confined Space - Access Ladder (West Side of Plant)	1) Ladder does not extend 1m (~800mm) 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.	D. Domoto	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) nonslip tread installed on the rungs.			
16 \(\text{O}(24-1) \)	After Cooler Fans - Fans 7-9 - Top Platform	1) Gaps between some handrails and existing structures (e.g. fan enclosures) that exceed AS requirements (max 100mm) identified.	B. Remote	3. Severe	1) Modify the handrail to eliminate gaps that exceed 100mm.			
CS04-13 21/04/2023	After Cooler Fans - Fans 4-6 - Middle Platform	1) Ladder to access the top platform doesn't not have guard rails behind it, to prevent a person who falls going over the middle platform's handrails.	B. Remote	3. Severe	1) Install additional handrails behind the ladder to prevent a fall from the ladder to over the handrail.			

Reference Date added Location on Site	Issue Likelihood Consequence Risl	k Score Suggestions Evidence	What is being completed	Date planned for completion	Date completed	Comments	
	No design risks identified. Situational/task based risk may exist.	No Action Required.					
CS04-15 21/04/2023 Unit 3 Combustible Liquids Tank	1.1) The current temporary access stairs requires a person to stand on the cable tray to access the inspection hatch. It also creates the potential for someone to walk down the cable tray as a shortcut. The current design creates the potential for a 600mm fall and cause damage to property. C. Unlikely 3. Severe Met 1.2) The temporary access stairs riser (300mm) do not meet the AS requirements (130-225mm). 2) No hi vis (yellow) tread installed on the nosing of the stairs. Stair width is 1020mm.	1) Replace the access stairs with a platform and access stairs that are AS compliant (e.g. handrails, hi vis tread on nosing) and allows access to the hatch and valve (if required). The existing unit is to be modified or disposed off. 2) Install hi vis (yellow) tread onto the nosing of the stairs.					
CS04-16 21/04/2023 Desiccant Dryers x 2	1) The landing (280mm) 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 ups is a trip hazard and the hi vis tape has faded.	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 apply new hi vis tape.					
CS04-17 21/04/2023 GEA 1 Exhaust System	1) No hi vis (yellow) tread installed on the ladder rungs. B. Remote 2. Minor	1) Install hi vis (yellow) tread to all ladder rungs and the nosing of the platform / top rung.					
CS04-18 21/04/2023 GEA 3 and 4 Electrical Boards	1) No hi vis (yellow) tread installed on the nosing of the stairs and platform. B. Remote 2. Minor	1) Install hi vis (yellow) tread onto the nosing on the stairs and platform.					
CS04-19 21/04/2023 GEA Fresh Oil and Waste Oil Tank	1) The existing stairs are not sufficiently sized to provide easy access to both inspection hatches. This will encourage personnel to over-reach to utilise the hatches. C. Unlikely 3. Severe Methodology 3. Severe	1) Replace the stairs with purpose fit and AS compliant platform and access stairs.					
CS04-20 21/04/2023 GEA 1 - Top Platform	1) Access stairs are not AS compliant, including tread depth (actual 90mm, required 185mm), riser (actual 230mm, required 130-225mm) and width (actual 590mm, required 600mm minimum). 2) No hi vis (yellow) tread installed on the nosing of the stairs and platform. C. Unlikely 3. Severe	1) Replace the stairs with an AS compliant equivalent. 2) Ensure the replacement stairs have hi vis (yellow) tread installed on the nosing on the stairs and platform.					

Defenses Detected	La cation on Cita	I	Lilia liba a d		Pick Comp. Comparison	Nether the first consulated	Community	
Reference Date added CS04-21 21/04/2023	GEA 1 to 4 - Access / Egress Points	1) Some access stair(s) do not have hi vis (yellow) tread installed on the nosing of each stair. 2) The landing for some access points do not meet AS requirements. Note: Discussions with FMOs confirmed the access doors with no landings are used during tasks.	D. Occasional		Low 1) Install hi vis (yellow) tread on the nosing on the stairs. 2) Extend the landing.	What is being completed Date planned for completion Date completed Date completed	Comments	
CS04-22 21/04/2023	Unit 2 - Access Ladder From Ground Level	1) No hi vis (yellow) tread installed on the ladder rungs. Note: GT Air Inlet System Replacement works was being undertaken at time of inspection. The danger tape was associated with these works and will be removed at the conclusion.	C. Unlikely	2. Minor	1) Install hi vis (yellow) tread to all ladder rungs and the nosing of the platform / top rung.			
CS04-23 21/04/2023	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).	d C. Unlikely	4. Major	 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. 			
CS04-24 21/04/2023	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. Note: GT Air Inlet System Replacement works was being undertaken at time of inspection. The construction materials are associated with these works and will be removed at the conclusion.	C. Unlikely	4. Major	the fall from height risk until edge protection is installed.			
CS04-25 21/04/2023	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. Note: GT Air Inlet System Replacement works was being undertaken at time of inspection. The danger tape was associated with these works and will be removed at the conclusion.	C. Unlikely	4. Major	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.			
CS04-26 21/04/2023	Unit 2 - Second From The Top Platform (East Side)	1) No hi vis (yellow) tread installed on the ladder rungs.	C. Unlikely	2. Minor	1) Install hi vis (yellow) tread to all ladder rungs and the nosing of the platform / top rung.			
CS04-27 22/04/2023	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.			
	Unit 2 - Second From The Top Platform (North Side)	1) No hi vis (yellow) tread installed on the ladder rungs.	C. Unlikely	2. Minor	1) Install hi vis (yellow) tread to all ladder rungs and the nosing of the platform / top rung.			

Reference	Date added Location on Site	Issue	Likelihood	Consequence	Risk Score	Suggestions	Evidence	What is being completed	Date planned for completion	Date completed	Comments	STATE OF THE PARTY
CS04-29	22/04/2023 Unit 2 - Top Platform and the Top of the Exhaust Sys	Access to 1) No access to the top of the exhaust tem system or the riser is provided.			Madium	1) Provide a work platform and						

Reference	Date added	Location on Site	Issue	Likelihood Consequence	Risk Score	Suggestions	Evidence	What is being completed	Date planned for completion	Comments
		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		
CS05-1	23/05/2023	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	 Replace the access ladder and platform with access stairs and platform, with handrails and hi vis tread. Self closing gate to be installed at the top of the platform. Ensure the landing on the redesigned access stairs and platform meet the AS requirements. Modifying the bund if required. 				
CS05-2	1/3/05//0/3	Compressed Air Unit For Battery Rooms	 No non-slip tread on ladder runs. The ladder does not run to the landing and the step up exceeds the AS requirements (=<150mm). Landing does not meet the AS requirements and is current blue metal and a pit lid. ~200mm Gap between the vessel and the handrail is not compliant with AS requirements (max 100mm). 	B. Remote 2. Minor	Low	 Install hi vis (yellow) non-slip tread installed on the rungs. Extend the ladder to the landing. Pour a landing to meet AS requirements. Extend the handrail to within 100mm of the vessel. 				
CS05-3	23/05/2023	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. 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.				

Deference	Data addad	Location on Site	Issue	likelih l	Consequence	Dial. Car	Cuggostians	Evidence	What is being completed	Date planned for completion	Comments
CS05-4		GEA Oil / Hydraulic Fluid Tank x 2	1) The stairs are being used as a work platform. The dimensions (large stair width 2400mm, depth 520mm, riser 220mm, small stair width 570mm, depth	C Halikaly		Medium	1.1) 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.				
CS05-5	23/05/2023	GEA Fuel Gas Skid	 The nosings of the platforms and platform stairs do not have hi vis tread installed. The landing for the north platform stairs (depth 400mm) does not meet the AS requirements (min 600mm). Step up for the platform (400mm) exceeds the AS requirements (300-450mm requires a minimum of one step). 	C. Unlikely	2. Minor		 Install hi vis (yellow) non-slip tread installed on the nosing of the platforms and access stairs. Pour a new landing. Implement a step for each of the 4 access points for the 2 platforms. 				
CS05-6		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.				
CS05-7	173/05/7073	Water Treatment Plant - Access Door	1) Step up from the inside of the Water Treatment Plant, to the outside is 310mm were the AS requires at least 1 step be in place (300-450mm). Note: Included to raise awareness only. Signage has already been installed on the door prior to the audit being conducted. 2) Loose panel of grid mesh being used as a boot cleaner. Potential for it to shift under the foot of a user resulting in an injury.	C. Unlikely	2. Minor	Low	1) No action required. 2) Replace the grid mesh panel with a purpose built boot cleaner.				