Infrastructure HSW Management Sub-System

Roof Inspection Check



Building Details

Building Name: Engineering and Mathematics Science

Building No: NT12

Date of Inspection: 10/08/2023

Inherent Risk

Keys required:

Plant Room & Roof access

Medium

Roof Access Details

- Right of Access Permit is only for visual inspection and a different permit is required before commencing any work on the roof
- If using a harness attached to an anchor point/static line all workers must have current Working at Heights training and anchor points/static lines must have been certified in the last 12 months.
- A Lock Out/Tag Out procedure has been implemented for Fume Cupboards
- Parapets are not a fall arrest system unless part of a submitted SWMS.

There is internal access to the roofs in two different ways.

- Western entrance: from Level 4, access is via room EM421, which requires a plant room key. Take the stairs to the
 roof. There are two doorways to the four roofs on this building. Both require roof access keys for access and egress.
- Eastern entrance: enter through room EM406 turn right to end of passageway exit door EM413 climb stairs to level 5 to the Chiller Plant Room and onto the roof).



Four anchor points on southern side.









Entrance

Stairs to doors

Cooling tower

Plant outside east door

No access to areas without walkways unless a safe system of work is in place to ensure the risk of a fall has been minimised (2012 SA WHS Regulations Part 4), this could include using industrial fall arrest harness attached to the static lines or anchor points if available.

Roof Details Roof Material: Iron No. of Roofs on Building: Four (4) Pitch: Roof Height (m): < 15° X Near flat Between 5 and 6 stories high **Gutter Details:** Fragile Panels / areas: Box Gutter X Variety of parapets and unprotected edges on roofs Walkways X Other: Parapet Details (height, construction): Plant area located on a platform Fixed Ladders X East and West side of main roof area **Description of Roof Plant:** Number: Various plant located on platform Various Venting pipes/exhaust pipes on highest roof Various Other Details: A static line exists on the main roof area with assorted lanyard points in situ.

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RISK ASSESSMENT

	Hazard	Risk Indicator once Controls in place	Control	
	Airbourne hazardous chemicals (Venting or Flumes)	Rare x Major Medium	Check with Building Owner and/or Laboratory Manager and undertake a risk assessment. Contact FM for details	
Hazards	Walking on roof- Slips, trips and collision with plant	Rare x Moderate Low	Take care when traversing. Wear protective footwear (refer below). Implement a safe system of work for prevention of falls prior to commencing works.	
	Unprotected roof edges and height of roof – Fall hazard	Rare x Severe Medium	No access to roof without a permit to work and a documented safe system of work.	
	Weather – Heat, rain, strong winds – Heat exhaustion, dehydration, sunburn, colds, fall hazard	Rare x Minor Low	Do not commence works in extreme weather conditions which will adversely affect workers.	
	Working alone	Slight x Major High	A system needs to be in place to ensure lone worker's welfare.	
Other Information	 The method of access to rooftop shall depend on the specific job task being undertaken and risk assessment completed prior to commencement of work and included in Job Safety Analysis (JSA) or Safe Work Method Statement (SWMS) or Safe Work Procedure (SWP) and Safe Work Instruction (SWI); Access and work on roof top when weather is clear, dry and no high winds; Footwear must be toe steel capped and comply with AS/NZS 2210 for type 1 safety footwear; Sun protection policy and procedure is in place when working outdoors; Tools to be carried in tool belt; and 			
Instructions	 Plant and equipment must be well maintained and serviced regularly. Undertake roof access in accordance with the University of Adelaide Infrastructure Management Sub-System Roof Access Permit to be obtained prior to roof access; Venting or Fumes - airborne hazardous chemicals: check with Building Owner, Laboratory Manager and/or the Maintenance Service Centre and undertake a risk assessment; Ensure that tools are secured on their person or a safe work method for bringing tools to and from the task has been determined prior to commencement of job; and Do not carry out any tasks within on an unguarded roof edge or fall hazard, unless a safe system of work is in place to ensure the risk of a fall has been minimised. 			

LIKELIHOOD :	LIKELIHOOD TABLE				
Category	Description				
Almost	There is an expectation that an event/incident will				
certain	occur.				
Likely	There is an expectation that an event/incident could				
	occur but not certain to occur.				
Slight	This expectation lies somewhere in the midpoint				
	between "could" and "improbable"				
Unlikely	There is an expectation that an event/incident is				
	doubtful or improbable to occur				
Rare	there is no expectation that the event/incident will				
	occur				
RISK RATING					

CONSEQUEN	CONSEQUENCES TABLE					
Category	Description					
Severe	Injury resulting in death, permanent incapacity					
Major	Injury requiring extensive medical treatment,					
	hospitalisation, or activities could result in a Notifiable					
	occurrence.					
Moderate	Injury requires formal medical treatment (hospital					
	outpatient/doctors visit etc), activities could result in					
	an Improvement Notice.					
Minor	Injury requires first aid					
Negligible	Injury requires minor first aid (e.g. band aid), or result					
	in short term discomfort (e.g. bruise, headache,					
	muscular aches, etc)					

RISK RATING

Likelihood	Consequences					
	Negligible	Minor	Moderate	derate Major Severe		
Almost Certain	Medium	High	Very High	Very High	Very High	
Likely	Medium	Medium	High	Very High	Very High	

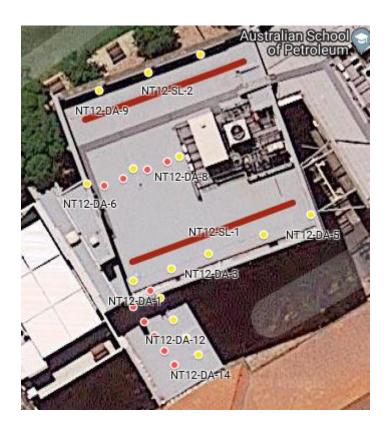
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Slight	Low	Medium	High	High	Very High
Unlikely	Low	Low	Medium	Medium	High
Rare	Low	Low	Low	Medium	Medium



- Static Line
 Purlin Anchor
- Mechanical Anchor
- Surface Mount Anchor Point
- Fall Arrest Anchor
- Bolted Post Anchor
- O Diversion Anchor
- Davit Cup
- Davit Cup
- Davit Cup
- Post
- ① Unknown Fixing Type
- Access Point
- Maccessible Location In Black
- Onknown Anchor

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