

Infrastructure HSW Management Sub-System

Roof Inspection Check

Building Details

Building Name: Engineering North Building No: NT 14	Date of Inspection: 28/03/2024	Inherent Risk <div style="background-color: green; color: white; text-align: center; padding: 5px; font-weight: bold;">Medium</div>
	Roof access Roof access and Plant	

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.
- Parapets are not a fall arrest system unless part of a submitted SWMS.
- Roof Space contains lead. Respiratory protection (N100) must be worn for any maintenance work being carried out in roof space. If any surfaces are touched, hands and face must be washed thoroughly with soap and water on exit.

There is internal access from level 3. Climb the stairs N302 and go through a locked door (roof access key required), which leads to the roof.



There are three roof areas on this building:

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.



Plant in outdoor stairway



West terracotta



Plant access



Access to RF equip



South Plant

Roof Space

There is internal access from level 3. Exit lift and on both eastern and western side will be two double brown Plant Doors. Plant key is required to enter. On entry via eastern side, lights are on left side. On entry via western side light switches are on right side.



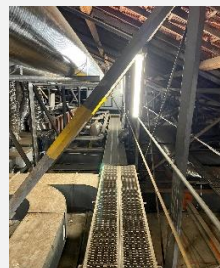
Light switches (East)



Plant



Eastern Side



Western Side

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.

Warning	This process is uncontrolled when printed. The current version is available on the I&TS Website.	Effective	March 2024	Version:	3.0
Authorised	Director, Capital Projects & Facilities Management Infrastructure Branch Division of University	Review	March 2027	Page: 1 of 3	
Filepath	S:\Services_Resources\Infrastructure\Shared\HSW01. Hazard Management\01 Roof Access\01 Risk Assessments\North Terrace\2023\Engineering - North				

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Roof Details	
Roof Material: Various materials including iron, terracotta tiles & membrane. Asbestos exists under membrane.	No. of Roofs on Building: 3
Pitch: Iron and membrane: Near flat <5° Terracotta pitch: 40° over three levels	Roof Height (m): 19 m
Gutter Details: Box Gutter <input type="checkbox"/> External Gutter <input checked="" type="checkbox"/>	Fragile Panels / areas: Terracotta tiles
Other: Walkways <input checked="" type="checkbox"/> Platforms <input checked="" type="checkbox"/> Fixed Ladders <input type="checkbox"/>	Parapet Details (height, construction): On annexe where plant exists
Description of Roof Plant: Satellite dish (non-microwave) Rotating platform with radar dish (on copper) Antenna (receivers) Range of air conditioning plant	Number: 1 1 2 Various
Other Details:	

RISK ASSESSMENT

	Hazard	Risk Indicator once Controls in place	Control
Hazards	Asbestos	Rare x Severe Medium	Consult the asbestos register before commencing any work; Any work involving asbestos containing material must be conducted under a permit to work. Refer to the University Asbestos Control Plan.
	Unprotected roof edges and height of roofs – Fall hazard	Rare x Severe Medium	No access to terracotta roof unless under a work permit and a safe system of work for prevention of falls is implemented.
	Walking on roof – Fall and slip hazard	Rare x Moderate Low	Plant area surrounded by parapet. Take care when traversing. Walk and do not run. Wear protective footwear (refer below).
	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.
	Airbourne hazardous chemicals (Venting or Flumes)	Rare x Moderate Low	Check with Building Owner and/or Laboratory Manager and undertake a risk assessment. Contact FM for details
	Working alone	Slight x Major High	A system to ensure lone worker's welfare, needs to be in place.
	Lead in roof space	Unlikely x Moderate Medium	Respiratory protection (N100) must be worn for any maintenance work being carried out in roof space. Hands and face must be washed following touching of any surfaces in roof space.

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Other Information	<ol style="list-style-type: none"> 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 Plant and equipment must be well maintained and serviced regularly.
Instructions	<ol style="list-style-type: none"> 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 TABLE	
Category	Description
Almost certain	There is an expectation that an event/incident will 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

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	Major	Severe
Almost Certain	Medium	High	Very High	Very High	Very High
Likely	Medium	Medium	High	Very High	Very High
Slight	Low	Medium	High	High	Very High
Unlikely	Low	Low	Medium	Medium	High
Rare	Low	Low	Low	Medium	Medium