

### Building Details

<b>Building Name:</b> Helen Mayo North <b>Building No:</b> NT30	<b>Date of Inspection:</b> 21/07/2023	<b>Inherent Risk</b>
	<b>Keys Required:</b> Plant Room	<b>Medium</b>

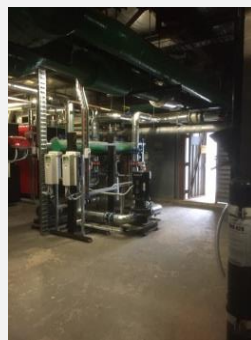
### Roof Access Details

- Right of Access Permit is only for visual inspection and a different permit is required before commencing any work on the roof.
- 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.

Access from the Western stairs to Level 7 door (N703). Enter Plant Room and access external plant area through any of the two doors. Upper platform levels/roof can be accessed by fixed ladders.



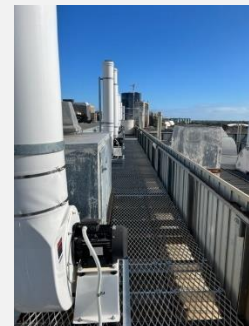
Plant access door



External access door



Lower level plant



Upper level plant

**No access to roof** 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 Space

Access from the western stairs to level 7 enter roof space/ plant room through door. A Plant Room key is required to access plant room N700.



Internal Plant



Internal Plant

Roof Details	
<b>Roof Material:</b> Variety of materials including iron and membrane	<b>No. of Roofs on Building:</b> Range of different roofs
<b>Pitch:</b> < 15° X Near flat	<b>Roof Height (m):</b> There are two roof levels ranging from 7-8 stories high
<b>Gutter Details:</b> Box Gutter X External Gutter X	<b>Fragile Panels / areas:</b>
<b>Access:</b> Walkways X Other: Platforms X Fixed Ladders X	<b>Parapet Details (height, construction):</b> In place in different areas of the roof. N707 parapet height 0.9m
<b>Description of Roof Plant:</b> Cooling tower storage tanks Venting pipes/fume exhausts Range of other plant Aerial (TV receiver) Air conditioning units (middle roof)	<b>Number:</b> Various Various Various 1 Various
<b>Other Details:</b> Very complex roof area with two different access points. The principal hazard at any area of the roof is the release of material from fume exhausts of unknown toxicity.	

**RISK ASSESSMENT**

	Hazard	Risk	Control
<b>Hazards</b>	Airbourne hazardous chemicals (Venting or Flumes)	Rare x Major Medium	Consult with Lab Manager prior to access and implement control measures based on risk assessment.
	Unprotected roof edges and height of roofs – Fall hazard	Rare x Severe Medium	Do not carry out any tasks at an unguarded roof edge, unless a safe system of work for prevention of falls is implemented.
	Walking on roof – Fall and slip hazard	Rare x Minor Low	Walk and do not run. Wear protective footwear (refer below). Implement a safe system of work for prevention of falls prior to commencing works.
	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.
	Contact with steam pipes	Rare x Mod. Low	Guarding around hot pipes. Wear gloves.
	Working alone	Slight x Major High	A system to ensure lone worker’s welfare, needs to be in place.
<b>Other Information</b>	<ol style="list-style-type: none"> <li>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);</li> <li>Access and work on roof top when weather is clear, dry and no high winds;</li> <li>Footwear must be toe steel capped and comply with AS/NZS 2210 for type 1 safety footwear;</li> <li>Sun protection policy and procedure is in place when working outdoors;</li> <li>Tools to be carried in tool belt; and</li> <li>Plant and equipment must be well maintained and serviced regularly.</li> </ol>		

## Roof Inspection Check

**Instructions**

1. Undertake roof access in accordance with the University of Adelaide Infrastructure Management Sub-System
2. Roof Access Permit to be obtained prior to roof access;
3. Venting or Fumes - airborne hazardous chemicals: check with Building Owner, Laboratory Manager and/or the Maintenance Service Centre and undertake a risk assessment;
4. 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
5. 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		CONSEQUENCES TABLE				
Category	Description	Category	Description			
Almost certain	There is an expectation that an event/incident will occur.	Severe	Injury resulting in death, permanent incapacity			
Likely	There is an expectation that an event/incident <b>could occur</b> but not certain to occur.	Major	Injury requiring extensive medical treatment, hospitalisation, or activities could result in a Notifiable occurrence.			
Slight	This expectation lies somewhere in the midpoint between "could" and "improbable"	Moderate	Injury requires formal medical treatment (hospital outpatient/doctors visit etc), activities could result in an Improvement Notice.			
Unlikely	There is an expectation that an event/incident is <u>doubtful</u> or <b>improbable to occur</b>	Minor	Injury requires first aid			
Rare	there is no expectation that the event/incident will occur	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

