Roof Safety Survey

GENERAL INFORMATION

CAMPUS: Wollongong Campus
BUILDING: Chemistry (18)

Three storey rectangular building with inner courtyard - low pitched metal roof. Walkway around centre of buildings and up to services. Fixed ladder up onto roof of plantroom and horizontal lifeline. Horizontal lifelines within 2 metres of buildings edge and on either side of the plantroom wall.

DESCRIPTION:

RISK ASSESSMENT No: UOW01605

Two access points from plantroom on western wing which is accessed from Stair 2 and a decommissioned hatch on the western wing

ROOF ACCESS:
1) Northern access Up stairs through plantroom door
2) Southern access Up stairs through plantroom door
3) Decommissioned hatch Locked confined space hatch on western wing that leads back to the plantroom

SIGNAGE:

Plates are located on both the roof access doors and on outer wall at each end of the plantroom and beside the top of the ladder to the roof of the plantroom

COMPLIANCE PLATES:

SAFE WORK AREA:

“BULLIVANTS TRAVSAFE” LIFELINE.

ROOFING SYSTEM:

HEIGHT OF BUILDING: 3 Storey
PITCH: 10 degrees
ROOF CONSTRUCTION: Metal
STRUCTURAL INTEGRITY: Good

VEGETATION: Yes

ADJOINING ROOFS: Nil

SERVICES:

<table>
<thead>
<tr>
<th>Gutters</th>
<th>Yes</th>
<th>Satellite Dishes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>A/C Units</td>
<td>Yes</td>
<td>Antenna</td>
<td>Yes</td>
</tr>
<tr>
<td>Exhaust Fans</td>
<td>Yes</td>
<td>Skylights Domes</td>
<td>Yes</td>
</tr>
<tr>
<td>Ducts</td>
<td>Yes</td>
<td>Glass Skylights</td>
<td>No</td>
</tr>
<tr>
<td>Roof Ventilators</td>
<td>Yes</td>
<td>Pipework</td>
<td>No</td>
</tr>
<tr>
<td>Fume Cupboards</td>
<td>5</td>
<td>Cooling Tower</td>
<td>Yes</td>
</tr>
<tr>
<td>Telco Towers</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

EXISTING SAFETY ITEMS:

<table>
<thead>
<tr>
<th>Horizontal Lifelines</th>
<th>Yes</th>
<th>Handrail</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anchor Points</td>
<td>No</td>
<td>Walkway</td>
<td>Yes</td>
</tr>
<tr>
<td>Vertical Lifelines</td>
<td>No</td>
<td>Parapets</td>
<td>No</td>
</tr>
</tbody>
</table>

WORK ACTIVITY DETAILS:

<table>
<thead>
<tr>
<th>Clean Gutters / Routine Maintenance</th>
<th>Yes</th>
<th>Frequency</th>
<th>Every 3 Months</th>
</tr>
</thead>
<tbody>
<tr>
<td>Service A/C Plant</td>
<td>Yes</td>
<td></td>
<td>Monthly</td>
</tr>
<tr>
<td>Fume Cupboards</td>
<td>Yes</td>
<td></td>
<td>Every 6 Months</td>
</tr>
<tr>
<td>Cooling Tower Maintenance</td>
<td>Yes</td>
<td></td>
<td>Every 3 Months</td>
</tr>
</tbody>
</table>

Note: Before commencing any work obtain Roof Permit from Facilities Management Division
# Roof Safety Survey

## RISK ASSESSMENT

### Risk Assessment / Task Location

**BUILDING 18**

**Note:** The hazards identified do not include hazards that related to specific work tasks. These should be identified in the Safe Work Method Statement (SWMS) of the contractor.

<table>
<thead>
<tr>
<th>Hazard Identification</th>
<th>Risk Assessment &amp; Control Measures</th>
<th>Risk Control</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>What is the Activity/Service Item</strong></td>
<td><strong>What are the potential Hazards</strong></td>
<td><strong>What is the Risk Level</strong></td>
</tr>
<tr>
<td>Access to Roof via plant room door</td>
<td>None</td>
<td>L</td>
</tr>
<tr>
<td>Access to Roof</td>
<td>Unauthorised access</td>
<td>M</td>
</tr>
<tr>
<td>Gutter Maintenance</td>
<td>Falling</td>
<td>H</td>
</tr>
<tr>
<td>Exhaust Fan &amp; Duct Maintenance</td>
<td>Falling &amp; Refer to SWMS for contractor</td>
<td>H</td>
</tr>
<tr>
<td>Fume Cupboard Maintenance greater than 2m from edge</td>
<td>Refer to SWMS of contractor</td>
<td>M</td>
</tr>
<tr>
<td>Fume Cupboard Maintenance within 2m of edge</td>
<td>Falling and Refer to SWMS of contractor</td>
<td>M</td>
</tr>
<tr>
<td>Confined Space Entry</td>
<td>Confined Space Risks so refer to SWMS of contractor</td>
<td>H</td>
</tr>
<tr>
<td>General</td>
<td>Trip Hazard - Roof Sheeting</td>
<td>M</td>
</tr>
<tr>
<td>General</td>
<td>Trip Hazard - Horizontal Lifeline or Anchor Points</td>
<td>M</td>
</tr>
<tr>
<td>General</td>
<td>Environmental Hazards - Spiders, Wasps, and other insects</td>
<td>M</td>
</tr>
<tr>
<td>General</td>
<td>Weather Trips/Slips - Wet Roofs</td>
<td>H</td>
</tr>
<tr>
<td>General</td>
<td>Weather - Windy Conditions</td>
<td>H</td>
</tr>
<tr>
<td>General</td>
<td>Weather - Hot Conditions</td>
<td>M</td>
</tr>
</tbody>
</table>
Reference Documentation

Legislation
NSW Work Health and Safety Regulation 2011 Part 4.4 Falls
Public Health (Microbial Control) Regulation 2000

Australian Standards
AS 1657 - 2013 : Fixed platforms, walkways, stairways and ladders - Design, construction and installation
AS 1891.1 - 2007 : Industrial fall-arrest systems and devices - Harnesses and ancillary equipment
AS 1891.2 - 2001 : Industrial fall-arrest systems and devices - Horizontal lifeline and rail systems
AS 1891.3 - 1997 : Industrial fall-arrest systems and devices - Fall-arrest devices
AS 1891.4 - 2009 : Industrial fall-arrest systems and devices - Selection, use and maintenance
AS 2210.1 - 2010 : Safety, protective and occupational footwear - Guide to selection, care and use
AS 2243.8 - 2006 : Safety in Laboratories - Fume Cupboards
AS 2243.9 - 2009 : Safety in Laboratories - Recirculating Fume Cabinets
AS 3666- 2011 : Air-handling & Water Systems for Buildings - Microbial Control
AS 4994.1 - 2009 : Temporary edge protection - General requirements
AS 4994.2 - 2009 : Temporary edge protection - Roof edge protection - Installation and dismantling
AS 5532 - 2013 : Manufacturing requirements for single-point anchor device used for harness-based work at height

Code of Practice
Safe Work Australia - Managing the Risk of Falls at Workplaces
NSW Health Department Code of Practice for the Control of Legionnaires' Disease

UOW Documentation
Managing the Risk of Falls Guidelines
Thermal Comfort Guidelines
UOW Roof Access Permit
UOW Roof Access Certificate

Other
SALA - Fall Arrest and Height Safety Systems - Fall Protection Manual
WorkCover - Safe Working at Heights Guide 2006
MCF Fact Sheets - Working safely around Radiofrequency (RF) Transmitters
Building 18 Roof Safety Assessment

Campus Map

- **P** - location of compliance plate
- **A** - location of access to roof
- **L** - location of ladder

Horizontal Lifeline  
Safe Roof Work Area

HRD-WHS-REF-447.2  2014 March
Looking towards S-E corner

North west corner

Skylight & looking south

Hatch to confined space access

North east corner

Plantroom roof

Signage on access point - Lifeline tagged out of service

Southern Walkway - looking towards fume cupboard vents and RF towers
Eastern side of plantroom

Stairway to southern access

Stairs to northern access

Ladder to plantroom roof

Northern end of plantroom

Northern wing looking east from access door
SAFE USE OF “BULLIVANTS TRAVSAFE” LIFELINE.

1. OPEN SHUTTLE.

2. SECURE SHUTTLE TO TWIN CABLE.

3. INSTALL KARABINER TO SHUTTLE.

4. ENSURE END STOP IS RAISED AT END.

CONNECTION OF THE TRAVSAFE SHUTTLE:
- Release and lift the locking wire, raising the flat section on top of the shuttle.
- Open the outer round rings in a “butterfly” motion.
- Drop over the cables and rotate the cables inward ensuring the cables are captured by the shuttle.
- Lower the flat section and clip over the locking wire.
- Install karabiner to the “D” loop and secure.
- Ensure cables are captured in the shuttle prior to use.
- Ensure end posts have the red stop end raised as to not allow the shuttle to pass through the end.