Roof Safety Survey

GENERAL INFORMATION
CAMPUS: Innovation
BUILDING: 235 - AIM PD
Modern three storey with plantroom on roof. Awnings over ground floor and outside walkways along the windows on the first and second floors on the northern side of the building.

DESCRIPTION:
RISK ASSESSMENT # : UOW03071
ROOF ACCESS:
1) Rear Awnings Ladder bracket up to awnings on southern side
2) Front Anchor point over parapet to lifeline
3) Lower roof From third floor plantroom - northern door
4) Lower roof From third floor plantroom - southern door
5) Plantroom roof Ladder in Plantroom to hatch opening onto roof
6) Access to Building 236 Through window of Battery Test Room on Level 2

SIGNAGE:
Nil

COMPLIANCE PLATES:
Various adjacent to fall arrest systems - refer map

SAFE WORK AREA:
Within parapet area on lower roof

ROOFING SYSTEM:
SALA "SAYFGLIDA & SAYF8 LIFELINE
SALA "LADSAFE" VERTICAL LIFELINE
TYPICAL ANCHORS

HEIGHT OF BUILDING: Three storeys
PITCH: Lower - Flat; Upper - Flat
ROOF CONSTRUCTION: Lower - Concrete; Upper - Metal
STRUCTURAL INTEGRITY: Sound

VEGETATION:
Nil

ADJOINING ROOFES: Building 238 EMF

SERVICES:

<table>
<thead>
<tr>
<th>Item</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gutters</td>
<td>Yes</td>
</tr>
<tr>
<td>A/C Units</td>
<td>Yes</td>
</tr>
<tr>
<td>Exhaust Fans</td>
<td>No</td>
</tr>
<tr>
<td>Ducts</td>
<td>No</td>
</tr>
<tr>
<td>Roof Ventilators</td>
<td>No</td>
</tr>
<tr>
<td>Solar panels</td>
<td>Yes</td>
</tr>
<tr>
<td>Satellite Dishes</td>
<td>No</td>
</tr>
<tr>
<td>Antenna</td>
<td>No</td>
</tr>
<tr>
<td>Skylights Domes</td>
<td>No</td>
</tr>
<tr>
<td>Glass Skylights</td>
<td>No</td>
</tr>
<tr>
<td>Pipework</td>
<td>Yes</td>
</tr>
<tr>
<td>Fume Cupboard Vents</td>
<td>Yes</td>
</tr>
</tbody>
</table>

EXISTING SAFETY ITEMS:

<table>
<thead>
<tr>
<th>Item</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Horizontal Lifelines</td>
<td>Yes</td>
</tr>
<tr>
<td>Anchor Points</td>
<td>Yes</td>
</tr>
<tr>
<td>Vertical Lifelines</td>
<td>Yes</td>
</tr>
<tr>
<td>Handrail</td>
<td>No</td>
</tr>
<tr>
<td>Walkway</td>
<td>Yes</td>
</tr>
<tr>
<td>Parapets</td>
<td>Yes</td>
</tr>
<tr>
<td>Upper 1200mm</td>
<td></td>
</tr>
</tbody>
</table>

WORK ACTIVITY DETAILS:

<table>
<thead>
<tr>
<th>Activity</th>
<th>Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clean Gutters / Routine Maintenance</td>
<td></td>
</tr>
<tr>
<td>Service A/C Plant</td>
<td></td>
</tr>
</tbody>
</table>

Note: Before commencing any work obtain Roof Permit from Resolve FM
# Roof Safety Survey

## RISK ASSESSMENT

### Risk Assessment / Task Location

**Building 235**

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>Access to Roof via Plantroom</strong></td>
<td>Unauthorised Access</td>
<td>Medium</td>
</tr>
<tr>
<td><strong>Access to upper roofs via ladder and hatch</strong></td>
<td>Unauthorised Access</td>
<td>High</td>
</tr>
<tr>
<td><strong>Air Conditioning Maintenance</strong></td>
<td>Refer to SWMS of contractor</td>
<td>Negligible</td>
</tr>
<tr>
<td><strong>Air Conditioning Maintenance</strong></td>
<td>Atmospheric contaminants; Legionnaires Disease from A/C Units</td>
<td>Medium</td>
</tr>
<tr>
<td><strong>Fume Cupboard Maintenance</strong></td>
<td>Fume Cupboard Emissions</td>
<td>Medium</td>
</tr>
<tr>
<td><strong>Antenna Maintenance</strong></td>
<td>Falling and Refer to SWMS of contractor</td>
<td>High</td>
</tr>
<tr>
<td><strong>General</strong></td>
<td>Trip Hazard - Roof Sheeting</td>
<td>Medium</td>
</tr>
<tr>
<td><strong>General</strong></td>
<td>Trip Hazard - Horizontal Lifeline or Anchor Points</td>
<td>Medium</td>
</tr>
<tr>
<td><strong>General</strong></td>
<td>Weather Trips/Slips - Wet Roofs</td>
<td>High</td>
</tr>
<tr>
<td><strong>General</strong></td>
<td>Weather - Windy Condition</td>
<td>High</td>
</tr>
<tr>
<td><strong>General</strong></td>
<td>Weather - Hot Conditions</td>
<td>Medium</td>
</tr>
<tr>
<td><strong>General</strong></td>
<td>Weather - Hot Conditions</td>
<td>Medium</td>
</tr>
<tr>
<td><strong>General</strong></td>
<td>Climbing ladder</td>
<td>Medium</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 2243.1 - 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 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
WorkCover - Safe Working at Heights Guide 2006
North east corner

Lifeline on eastern landing

Western aspect

South west aspect

South east aspect

Eastern aspect - upper landing

Anchor point to access landing

Lifeline on western awning

Lifeline on eastern landing
Upper roof looking north east

Upper roof looking south east

Ladder bracket to access awning

Southern aspect

Landing on western aspect

Ladder from plantroom to upper roof
SAFE USE OF SALA “SAYFGLIDA & SAYF8” LIFELINE.

1. TYPICAL LIFELINE.

2. ATTACHMENT OF SHUTTLE

3. SHUTTLE IN CLOSED POSITION.

4. CORRECT ORIENTATION
1. TYPICAL LIFELINE.

2. ATTACHMENT OF SHUTTLE

- Slide the locking pin / attachment point into the slot on the safelink and open the mouth (the attachment point must be facing you or the mouth will not open.)
- Place the safelink over the cable and close the mouth.
- Slide the locking pin back to the original position and lift the locking pin / attachment point.
- Connect the hardware from the lanyard or rope grab to the hole in the locking pin / attachment point to prevent the locking pin from falling into the slot and the mouth opening.

3. SHUTTLE IN CLOSED POSITION.

4. CORRECT ORIENTATION
SAFE USE OF SALA “LADSAFE” VERTICAL LIFELINE.

Sala “Ladsafe” is a vertical fall arrest system mounted to fixed ladders. The system is identified as a 10mm vertical cable system. A system data plate is generally mounted close to the system or ladder.

REFER TO MANUFACTURERS INSTRUCTIONS
GUIDE LINE ONLY

THIS OPERATION MANUAL SHOULD BE CONSIDERED A GUIDE ONLY. ALL PERSONS USING THE EQUIPMENT LISTED IN THIS MANUAL MUST BE COMPETENTLY TRAINED. "THE INSTALLER" INSTALLS SYSTEMS ONLY AND DOES NOT MANUFACTURE THE SYSTEMS. END USERS TO ENQUIRE WITH "THE MANUFACTURER" (BULLIVANTS) AT THEIR OWN DISCRETION. ALWAYS FOLLOW MANUFACTURERS INSTRUCTIONS.

TYPICAL ANCHORS