Roof Safety Survey

GENERAL INFORMATION

CAMPUS: Wollongong Campus
BUILDING: Engineering (4)

Two storey metal roof building comprising various wings and workshop areas with raised atrium in the middle. Access via horizontal lifelines from other buildings. Access to roof via Building 2 is from a new fixed step and handrail to Building 4 roof. Walkways are provided to gain access to the majority of roof areas and servicable plant. Note there is a trip hazard to the walkway at the building 1 roof access where the horizontal lifeline crosses the walkway. Use caution.

DESCRIPTION:

RISK ASSESSMENT #: UOW01590
ROOF ACCESS: None from Building 4 - only access from Buildings 1 & 2
SIGNAGE: Nil
COMPLIANCE PLATES:
1. Northern wing Plate located on roof ventilator opposite access to Building 2
2. Eastern Wing (north) Plate located on roof ventilator at the western end of the Horizontal lifeline
3. Eastern Wing (south) Plate located on the roof at the western end of the Horizontal lifeline
4. Walkway joining to Building 1 Plate located on northern end of the walkway link
5. Courtyard (north east) Plate located beside the walkway at the western end of the Horizontal lifeline near the TV antenna
6. Courtyard (north west) Plate located on roof edge at north east of walk way
7 North west of Atrium Plate located adjacent to horizontal lifeline
8 Highbay West Plate located adjacent to horizontal lifeline
9 Highbay East Plate located on roof edge at northern end of walk way

Anchor Points
1. Anchor point just north east of these

SAFE WORK AREA: None

ROOFING SYSTEM:

SATL “SAYFGLIDA & SAYF8” LIFELINE and RIS HAMMERHEAD LIFELINE

TYPICAL ANCHORS

HEIGHT OF BUILDING: 2 storey
PITCH: Various 5 - 10 degrees
ROOF CONSTRUCTION: Metal Roof
STRUCTURAL INTEGRITY: Sound
VEGETATION: Yes

ADJOINING ROOFTES: Materials Engineering (1) and Engineering (2)

SERVICES:

<table>
<thead>
<tr>
<th>Gutters</th>
<th>Yes</th>
<th>Satellite Dishes</th>
<th>Yes</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>Yes</td>
</tr>
<tr>
<td>Roof Ventilators</td>
<td>Yes</td>
<td>Pipework</td>
<td>Yes</td>
</tr>
<tr>
<td>Fume Cupboards</td>
<td>Yes</td>
<td>Cooling Tower</td>
<td>Yes</td>
</tr>
<tr>
<td>Telco Towers</td>
<td>No</td>
<td>Lab Instrumentation</td>
<td>Yes</td>
</tr>
</tbody>
</table>

EXISTING SAFETY ITEMS:

| Horizontal Lifelines | Yes | Handrail | Yes |
| Anchor Points        | Yes | Walkway  | Yes |
| Vertical Lifelines   | No  | Parapets | 600mm |

WORK ACTIVITY DETAILS:

| Clean Gutters / Routine Maintenance | Yes | Frequency |
| Service A/C Plant                  | Yes | Monthly   |
| Cooling Tower Maintenance          | Yes | Every 3 Months |

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

## RISK ASSESSMENT

**Risk Assessment / Task Location**  
**BUILDING 4**

**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 plantroom door Building 2</td>
<td>Trip hazards on ground area - pipe services to AC</td>
<td>L</td>
</tr>
<tr>
<td>Access to roof via Building 1 Plant area</td>
<td>Trip hazards - multiple changes in roof heights</td>
<td>L</td>
</tr>
<tr>
<td>Access to Roof</td>
<td>Unauthorised access</td>
<td>M</td>
</tr>
<tr>
<td>Gutter Maintenance on Roof and Awnings</td>
<td>Falling</td>
<td>H</td>
</tr>
<tr>
<td>Air Conditioning Maintenance</td>
<td>Atmospheric contaminants; Legionnaires Disease from A/C Units</td>
<td>M</td>
</tr>
<tr>
<td>Roof Plant Maintenance greater than 2m from roof edge</td>
<td>Refer to SWMS for contractor</td>
<td>M</td>
</tr>
<tr>
<td>Roof Plant Maintenance within 2m from roof edge</td>
<td>Falling &amp; Refer to SWMS for contractor</td>
<td>H</td>
</tr>
<tr>
<td>Antenna Maintenance</td>
<td>Falling and 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>Weather Trips/Slips - Wet Roofs</td>
<td>H</td>
</tr>
<tr>
<td>General</td>
<td>Weather - windy Condition</td>
<td>H</td>
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<tr>
<td>General</td>
<td>Weather - Hot Conditions</td>
<td>M</td>
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<tr>
<td>General</td>
<td>Environmental Hazards - Spiders, Wasps, and other insects</td>
<td>M</td>
</tr>
<tr>
<td>Trip Hazard</td>
<td>Trips/Falls</td>
<td>H</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 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
Working at Heights 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
Roofsafe Industrial Safety Operations & Maintenance Manual
Building 4 Roof Safety Assessment

Northern wing looking north west

Northern wing looking south towards atrium

Atrium roof

Stile providing access from Building 2 to 4

Passageway linking from Building 1

Close up of Atrium and central area of the roof

Walkways and compliance plates on north western side of courtyard

Horizontal lifeline on south side of the eastern wing and walkway to Building 1

Entrance to Workshop areas and western aspect of the building

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