




RISK ASSESSMENT

Safety - Steam

Document Reference

PTS.RA.S13

Activity	Hazards	Risks	UNCONTROLLED Risk Levels	Description of controls	CONTROLLED Risk Levels																																																																				
Working with Steam	<p>Escaping Steam, Hot Water and contact with Hot Pipework or Surfaces</p> <p>High Pressure Steam</p> <p>Steam escapes can vary in severity from minor leaks with localised effects to severe flooding which can lead to property damage.</p>	<p>Death from electrocution, Slips & Falls, Scalding, Contact Burns, Eye Damage, Flooding & Property Damage.</p> <p>Death from Electrocution, Slips & Falls, Eye Damage, Skin & Tissue</p> <p>Death from electrocution, Slips & Falls, Flooding, Property Damage & Equipment Damage.</p>	<p>LIKELIHOOD</p> <table border="1"> <tr><td>Most Likely</td><td>5</td><td>✓</td></tr> <tr><td>Likely</td><td>4</td><td></td></tr> <tr><td>Possible</td><td>3</td><td></td></tr> <tr><td>Unlikely</td><td>2</td><td></td></tr> <tr><td>Very Unlikely</td><td>1</td><td></td></tr> </table> <p>SEVERITY</p> <table border="1"> <tr><td>Extreme</td><td>5</td><td>✓</td></tr> <tr><td>Major</td><td>4</td><td></td></tr> <tr><td>Moderate</td><td>3</td><td></td></tr> <tr><td>Minor</td><td>2</td><td></td></tr> <tr><td>Negligible</td><td>1</td><td></td></tr> </table> <p>Risk Score deduced by multiplying Likelihood by Consequence</p> <table border="1"> <tr><td>Risk Score</td><td>25</td></tr> </table> <p>Less than or equal to 5 LOW Between 6 and 12 MEDIUM Above 12 HIGH</p> <table border="1"> <tr><td>UNCONTROLLED Risk Level</td><td>HIGH</td></tr> </table>	Most Likely	5	✓	Likely	4		Possible	3		Unlikely	2		Very Unlikely	1		Extreme	5	✓	Major	4		Moderate	3		Minor	2		Negligible	1		Risk Score	25	UNCONTROLLED Risk Level	HIGH	<ul style="list-style-type: none"> Only competent trained engineers to undertake works, with the exception of supply isolation to avoid flooding. Engineer to wear Non-Slip footwear and appropriate PPE as per PTS.RA.S40 - Safety - PPE Electrical supply to equipment to be isolated and per PTS.RA.S10 - Safety - Electricity Water supply isolation valves to be shut and signage put in situ so as to avoid accidental restoration of supply. Equipment not to be worked on until water temperature is deemed sufficiently low (<30°) as to minimise Scalding and Burns. Storage vessels and pipework to be depressurised prior to any invasive works. Equipment to be taken out of service and left to dry until its electrical safety can be ascertained and confirmed. All spillages to be cleaned up promptly to avoid risk of Slips and falls. Water outflow air gap and or equivalent devices not to be removed or bypassed. 	<p>LIKELIHOOD</p> <table border="1"> <tr><td>Most Likely</td><td>5</td><td></td></tr> <tr><td>Likely</td><td>4</td><td></td></tr> <tr><td>Possible</td><td>3</td><td></td></tr> <tr><td>Unlikely</td><td>2</td><td></td></tr> <tr><td>Very Unlikely</td><td>1</td><td>✓</td></tr> </table> <p>SEVERITY</p> <table border="1"> <tr><td>Extreme</td><td>5</td><td>✓</td></tr> <tr><td>Major</td><td>4</td><td></td></tr> <tr><td>Moderate</td><td>3</td><td></td></tr> <tr><td>Minor</td><td>2</td><td></td></tr> <tr><td>Negligible</td><td>1</td><td></td></tr> </table> <p>Risk Score deduced by multiplying Likelihood by Consequence</p> <table border="1"> <tr><td>Risk Score</td><td>5</td></tr> </table> <p>Less than or equal to 5 LOW Between 6 and 12 MEDIUM Above 12 HIGH</p> <table border="1"> <tr><td>CONTROLLED Risk Level</td><td>LOW</td></tr> </table>	Most Likely	5		Likely	4		Possible	3		Unlikely	2		Very Unlikely	1	✓	Extreme	5	✓	Major	4		Moderate	3		Minor	2		Negligible	1		Risk Score	5	CONTROLLED Risk Level	LOW
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