


RISK ASSESSMENT

Water Boiler - Atmospheric

Document Reference

PTS.RA.B01

Operation	Hazards	Risks	UNCONTROLLED Risk Levels	Description of controls	CONTROLLED Risk Levels																														
Diagnosis or Repair of faults and undertaking of routine PPM Servicing on electrically controlled Gas Fired or Electrically Heated Atmospheric Water Boilers	Electricity	Death from Electrocution, Electric Shocks, Internal and or External Burns.	LIKELIHOOD <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>	Most Likely	5	✓	Likely	4		Possible	3		Unlikely	2		Very Unlikely	1		<ul style="list-style-type: none"> Only competent engineers with relevant Training, Experience and Qualifications to undertake works. 	LIKELIHOOD <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>	Most Likely	5		Likely	4		Possible	3		Unlikely	2		Very Unlikely	1	✓
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	Steam & Boiling Water	Scalding & Burns		<ul style="list-style-type: none"> Electrical supply to equipment to be isolated prior to any invasive works whatsoever being undertaken as per PTS.RA.SRE - Repairs to Electrical Equipment. 																															
	Hot Surfaces & Pipework	Burns		<ul style="list-style-type: none"> Gas supply to equipment (if applicable) to be isolated prior to any invasive works whatsoever being undertaken, Gas Supply to be Locked Off and appropriate Signage Displayed. 																															
	Flooding & Leakage	Water damage to surrounding equipment and or premises and Slips & Falls for individuals		<ul style="list-style-type: none"> Boiler to be drained down and equipment not to be worked on until its temperature is deemed sufficiently low (<30°) as per PTS.RA.S13 - Safety - Steam 																															
	Injury from Sharp Edges	Cuts & Abrasions	SEVERITY <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>	Extreme	5	✓	Major	4		Moderate	3		Minor	2		Negligible	1			SEVERITY <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>	Extreme	5	✓	Major	4		Moderate	3		Minor	2		Negligible	1	
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	Moving Heavy Objects	Manual Handling Injuries		<ul style="list-style-type: none"> Water to be isolated from equipment prior to invasive works as per PTS.RA.S12 Safety - Water 																															
	Chemical Cleaning & Descaling	Chemical Injuries		<ul style="list-style-type: none"> Special attention is to be paid to calibration of thermostats and controls to avoid pressure build up and possible explosion as per PTS.RA.S13 Safety - Steam 																															
	<u>GAS FIRED ONLY</u>		Risk Score deduced by multiplying <i>Likelihood by Consequence</i> <table border="1"> <tr><td>Risk Score</td><td>25</td></tr> </table> <div> <div>Less than or equal to 5</div> <div>Between 6 and 12</div> <div>Above 12</div> </div> <div> <div>LOW</div> <div>MEDIUM</div> <div>HIGH</div> </div>	Risk Score	25		Risk Score deduced by multiplying <i>Likelihood by Consequence</i> <table border="1"> <tr><td>Risk Score</td><td>5</td></tr> </table> <div> <div>Less than or equal to 5</div> <div>Between 6 and 12</div> <div>Above 12</div> </div> <div> <div>LOW</div> <div>MEDIUM</div> <div>HIGH</div> </div>	Risk Score	5																										
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	Explosion	Death & Major Injury		<ul style="list-style-type: none"> Appropriate PPE equipment must be used as per PTS.RA.S40 Safety - PPE 																															
	Flames	Burns		<ul style="list-style-type: none"> Special care to be taken when using Acid Descaler as per PTS.RA.S60 COSHH - Acid Descaler 																															
	<u>WALL MOUNTED</u>		UNCONTROLLED Risk Level HIGH																																
	Boiler becoming detached from wall mounting	Scalding & Burns																																	
			AFFECTED INDIVIDUALS <table border="1"> <tr><td>PTS Personnel</td><td>✓</td></tr> <tr><td>Maintenance Personnel</td><td>✓</td></tr> <tr><td>Catering Staff</td><td>✓</td></tr> <tr><td>Customers</td><td>✓</td></tr> <tr><td>Visitors</td><td>✓</td></tr> <tr><td>Delivery Personnel</td><td></td></tr> <tr><td>Others (specify)</td><td></td></tr> </table>	PTS Personnel	✓	Maintenance Personnel	✓	Catering Staff	✓	Customers	✓	Visitors	✓	Delivery Personnel		Others (specify)		Additional Measures PTS.RA.S01 - Safety - Working on Customer Sites PTS.RA.S10 - Safety - Electrical PTS.RA.S11 - Safety - Gas PTS.RA.S70 - Safety - Manual Handling PTS.RA.S60 COSHH - Acid Descaler																	
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			PPE REQUIREMENTS as per PTS.RA.S40	Document Reference PTS.RA.B01 Issue Status v 10.0 Issue Date 1st Sept 2025 Issued by Chris Taylor Review Date 31st Aug 2027																															
			Safety Boots EN 20345, S3 WR SRA Work Wear Clothing Safety Eye Glasses (EN166 1.B.3.4) Cut Proof Lvl 3 Safety Gloves (EN388)	Issuers Signature 																															
			Descaling: Acid Proof Safety Gloves (EN374-3:2003)	NB: This document and any amendments must be retained for a minimum of 5 years. In the event of an incident involving an individual aged 18 years or less this documentation must be retained until the individual reaches 21 years of age, this requirement overrides the minimum 5 year rule.																															