

## Risk Assessment - Vintage Steam Equipment Stationary Engine

Identifying Mark:	Reg No: .....	Makers No: .....
Equipment Description:	.....	
Assessment Location:	Various locations where members of public are present	
Owner/Operator:	.....	
Assessor	As above	
Date of Assessment:	...../...../.....	Ref No: .....
Reassessment Date:	Anniversary of Date of Assessment – (see also Addendum)	

Potential Hazard	Control Measures
<p><b>1. Steam raising system</b> – Risk of inadvertent escape of steam, scalding, burns injury to operator and members of public</p>	<p>All hot pipework and fittings, lagged where appropriate</p> <p>The boiler control system includes water level indicators, calibrated pressure gauge, boiler feed water injectors, mechanical feed pump, calibrated safety valves and a fusible plug. Where practical all safety devices are operated under test at least once during each operating cycle of the plant. In order to suppress sparks and ash emissions a 'spark arrestor' is fitted to the chimney.</p> <p>The boiler pressure parts, safety equipment and joints and seals are inspected annually by a competent person (per NTET Code of Practice for Engine Owners) – reports available for inspection</p> <p>The boiler is maintained as per guidelines in the NTET Code of Practice for Engine Owners</p> <p>The operator is fully familiar with all aspects of control and management of the steam raising plant or is working at all times under the close supervision of a competent person</p> <p><b>Residual Risk – Low</b></p>
<p><b>2. Mechanical and Rotating parts</b> - Risk of entrapment</p>	<p>The integral design of the 'engine' utilises an open crank assembly with associated piston rods, linkages and eccentric driven valve gear all of which are mounted high on the top of the boiler structure and extend into the area protected by the construction of the exterior of the firebox top and by motion gear enclosures.</p> <p>When the 'engine' is used to drive belt driven equipment suitable temporary guards are erected to protect operators and members of the public as per NTET Code of Practice for Engine Owners.</p> <p>The operator is fully familiar with all aspects of control and management of the 'engine' or is working at all times under the close supervision of a competent person</p> <p><b>Residual Risk – Low</b></p>

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Potential Hazard	Control Measures
<p><b>3. Risk of inadvertent contact with a Third Party – risk of causing property damage or physical injury to operator or member of public</b></p>	<p>The operator is fully familiar with all aspects of control of the 'engine'. An operator who is not familiar with this type of engine will be closely supervised at all times.</p> <p>Once set up, the engine would not normally be moved. Subsequently any further movement of the engine will only be undertaken with the express permission of the incumbent safety officer.</p> <p>Occasionally inexperienced people, including young people and members of the Steam Apprentice Club, will be allowed to operate the engine when conditions permit. In such circumstances the competent operator will instruct the 'pupil'.</p> <p>Additional, practical, safety measures may be taken, particularly when used in a working environment, following discussions with the 'Incumbent Event Safety Officer'.</p> <p><b>Residual Risk – Low</b></p>
<p><b>4. Notes</b></p>	<p>The above apparatus is comprehensively insured using a bespoke 'vintage steam' policy effected by ..... The <b>Insurance Policy Number</b> is: ..... This policy includes Public Liability cover for injury to third parties and property, boiler explosion, and sparks &amp; ashes damage. This annual policy is issued only against the presentation of a current 'boiler inspectors' certificate of inspection that authorises continued use for a fixed period of time.</p> <p>A <b>NTET Insurance Disc</b>, Number ....., is displayed on the 'engine' to demonstrate that the test status and insurance are current and meet the NTET Code of Practice.</p>
<p><b>5. Overall Residual Risk</b></p>	<p>The <b>Owner/Operator</b>: ..... has .....years experience in the maintenance and operation of steam engines of the following type(s): .....</p> <p>Given all of the above and noting the safety factors built into the integral design of the equipment the <b>Overall Residual Risk</b> is considered to be <b>Low</b>.</p>
<p><b>6. Addendum</b></p>	<p>In addition this Risk Assessment shall also be reviewed under the following circumstances:</p> <ul style="list-style-type: none"> <li>• Changes to applicable NTET Code of Practice, legislation and/or insurance requirements</li> <li>• Following any incident and/or accident</li> </ul> <p>No additional requirements and/or changes to the above referenced documents have been identified during this review period</p>

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This risk assessment was carried out by:

Signed : \_\_\_\_\_ Date : \_\_\_\_\_

\*Owner/User/Other - state position \_\_\_\_\_  
(\*Mark or complete as appropriate)