

Ramsgate And District Model Engineering Club

Risk Assessment

Assessment No.:	RA07	Issue No.	3
Activity:	Pressure systems - Boilers		
Persons at risk:	Club Members and General Public.		

Key								
L: Likelihood	5	5	10	15	20	25	High-risk: 15-25	High-risk activities should cease immediately. Further effective control measures to mitigate risks must be introduced.
	4	4	8	12	16	20		
	3	3	6	9	12	15	Medium-risk: 8-12	Medium-risks should only be tolerated for the short-term, whilst further control measures to mitigate the risks are being planned and introduced.
	2	2	4	6	8	10		
	1	1	2	3	4	5	Low-risk: 1-6	Low-risks are largely acceptable. Where it is reasonable to do so, efforts should be made to reduce risks further.
		1	2	3	4	5		
S: Severity				DR: Degree of risk			RR: Residual risk	


Guidance.

1. Identify the persons at risk and the significant hazards.
2. Calculate an initial RR for the activity.
3. Identify risk control measures that reduce the risks to an acceptable level.
4. Calculate a revised RR – assuming the control measures are followed.

(Consider changing both the likelihood (L) and the severity (S) ratings.)

Significant Hazards	Initial		
	L	S	DR L x S
Risk of explosive release of steam from a boiler.	3	5	15

Risk Control Measures	Residual		
	L	S	RR L x S
<p>Model steam locomotives and traction engines run on pressurised steam, created and held in a pressure vessel – the boiler.</p> <p>To minimise the risks, boilers of copper construction shall be subject to hydraulic test every four years and a steam test every year. A different testing regime applies to boilers of steel construction. (Refer to the Boiler Test Code 2018 Vols 1-3 for full requirements)</p> <p>No person will be permitted to run a steam locomotive, or traction engine without valid boiler test certificates (Steam and Hydraulic) and a valid certificate of insurance.</p> <p>Visiting engine operators must provide a copy of their certificates before they shall be allowed to fire up their engine.</p> <p>A log entry - using Form RADMEC-003 - shall show relevant pressure test certificate numbers for visiting locomotives, or traction engines.</p> <p>A Day Running Sheet entry shall be kept of all steam locomotives and / or traction engines that attend a club event.</p>	1	5	5

Authorised By – Safety Officer:		Print:	Peter Wilson	Date:	08-02-2024
Annual Review By:					
Annual Review By:					
Annual Review By:					
Annual Review By:					