

QUALITATIVE RISK ASSESSMENT (QRA) FORM

Recertification of Boilers (Pressure or Steam Test)

QRA Title (e.g. Work, Activity, MOC, etc.)

NDSME Site

Location(s)

Document Number:

NDSME-RA-004

J. McDonnell
B. Baker

18/06/2025

Qualitative Risk Assessment Team (Minimum 2 people)

Date

TASK, PROCESS STEP, OR PROPOSED CHANGE	THREATS / HAZARDS / ASPECTS <i>How can the TASK, STEP, or CHANGE go wrong? What are the potential Consequences? What are the Gaps?</i>	CURRENT CONTROLS / BARRIERS including OPERATIONAL PROCEDURES <i>What are the existing CONTROLS / BARRIERS, if any, to Control, Mitigate, Eliminate, or Prevent the identified THREAT / HAZARD / ASPECT? NOTE: Barriers can be Equipment, Process, or People NOTE: For a RISK SCORE of 9 or greater (RISK LEVEL > 2), additional CONTROLS / BARRIERS must be proposed.</i>	RISK SCORE		Risk Level	
			C	F CxF		
Pressure test (Hydrostatic testing) boilers with water	Test equipment failure Fitting failure Boiler failure	<ul style="list-style-type: none"> Test Boiler as specified by the Federation of Model Engineers Boiler Test Codes of 2018 Volume 1, 2 & 3 Ensure correct thread blanking plugs have been used Avoid use of excessive PTFE tape Test item away from other personnel If boiler has leak remove pressure before attempting to adjust/tighten fixtures 	3	2	6	2
Steam Test boiler	Boiler Failure Burns (scalding water)	<ul style="list-style-type: none"> Test Boiler as specified by the Federation of Model Engineers Boiler Test Codes of 2018 Volume 1, 2 & 3 No steam test to be performed without boiler having a valid pressure test Wear suitable PPE (e.g. leather gloves) 	3	2	6	2

For risk levels 3 and below, if identified controls can not be implemented the members must stop and reevaluate task and determine new controls that can be implemented.

It is the responsibility of every member to Stop Work when unsafe conditions are recognized.
NOTE: Risk Levels 4 and 5 REQUIRE STOP WORKS until controls are in place to reduce risk or impact.

Qualitative Risk Assessment Team Completed by: *J. McDonnell* (Signed) J. McDonnell (Printed) 18/06/2025 (Date)

Qualitative Risk Assessment Approved by: *A. Mann* (Signed) A. Mann (Printed) 18/06/2025 (Date)

NOTE: C denotes the CONSEQUENCE SEVERITY if the identified IMPACT, THREAT, or HAZARD occurs or is encountered.
F denotes the FREQUENCY or LIKELIHOOD of the identified IMPACT, THREAT, or HAZARD occurring or being encountered.
CxF denotes Risk Priority Number (RPN) also known as the Hazard & Qualitative Risk Assessment score.