

PRESSURE TESTING OF PLANT AND EQUIPMENT

Other Checklists that may be relevant:		<u>18, 27, 54</u>
Permit Number:		Date:
Rev 2.2	Issue Date: 10/10/2024	Authorised By: PSM

CAUTION:

Ensure tested pipework and/or vessels have been completely 1 depressured, including both sides of NRV's or valves. Prior to draining liquids, ensure high point vents are open to prevent vacuum.

PRIOR TO PERMIT ISSUE:

		Y	Ν	N/A
2	Before conducting Pressure tests refer to <u>Piping Design, Fabrication and</u> Inspection Standard.pdf Section 6:Testing			
3	Equipment has been checked thoroughly and all components are in good condition, operating correctly and within certification.			
4	Are there situations where excessive pressure due to thermal expansion could occur?			
5	Ensure the pressure source has a relief valve set pressure, or a regulator set below the maximum design pressure of the system.			
6	Test pressure has been specified in test procedure. Test Pressure:			
7	List the test medium, and any additives. <u>Piping Design, Fabrication and</u> Inspection Standard.pdf section 6: Testing.			
	Medium:Additives:			
8	Check to ensure total gross weight of vessels and pipework, when filled with liquid, does not exceed maximum design specifications.			
9	Use link to Hydrotest Excel calculator, open spreadsheet in desktop app. <u>HYDROTEST SAFE DISTANCE CALCULATOR. URL</u> Safe distance = (0.15) x(D)x(a)^0.4x(p)^0.6 where: • D = Internal diameter (m) • a = Length/diameter of the piece (m) • p = Test pressure (bar)			
	Or use this link for Internet Pneumatic test: <u>SAFE DISTANCE STORED</u> <u>ENERGY CALCULATOR</u> or paste into web browser https://www.piping-world.com/safe-distance-and- stored-energy-calculator-pneumatic-test • On Calculator, scroll down web page for answer in blue field.			

Record Safe Distance for exclusion zone here: m.

PRIOR TO COMMENCING TASK:

		Υ	Ν	N/A
10	The pipework is adequately anchored / supported.			
11	Ensure that all attachments i.e., relief valves or instruments, excluded from the test have been removed and / or isolated as agreed by procedure.			
12	All temporary materials are of the correct rating for the test, i.e., flanges, spades, gaskets etc.			
13	Ensure that the test relief valve exhaust is routed to a safe location.			
14	Signs and barriers are positioned at safe distance as per item 9 calculation to warn personnel of operations in area(s) as per <u>Temporary Barriers and</u> <u>Barricades Standard Operating Procedure.pdf</u>			
15	Ensure all securing device i.e., back up jump chains, safety pins and whip checks are correctly attached across hose connections.			
ON	COMPLETION OF TASK:			
16	Ensure System has been drained and is free from water contamination that could cause a hydrate.	Y	N	N/A
17	Ensure testing medium is disposed of appropriately.			
18	A 'line walk' has been conducted to ensure all equipment is reinstated as per procedure.			