



PTW Safety Checklist **No. 59**

MAKING AND BREAKING FLANGES AND BLEEDING DOWN VESSELS CONTAINING HAZARDOUS FLUIDS TO DRAINS OR ATMOSPHERE

Other Checklists that may be relevant:		25
Permit Number:		Date:
Rev 2.3	Issue Date: 11/02/2021	Authorised By: PSM

PRIOR TO PERMIT ISSUE:

- | | Y | N | N/A |
|--|--------------------------|---|-----|
| 1 Marked up Flange Control Documentation and Drawings completed. | <input type="checkbox"/> | | |

PRIOR TO COMMENCING TASK:

- | | | | |
|---|--------------------------|--------------------------|--------------------------|
| 2 You have read and understood the hazards and engineering controls as described in the SDS Sheet for the hazardous fluid being worked with? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3 The work party are familiar with the Flange Bolt Torqueing Engineering Specification TE-6900-NPL652159 , and have referred to the appropriate section relevant to work scope. | <input type="checkbox"/> | | |
| 4 If flanges are to be broken, a competent operation representative shall be in attendance during initial breaking into process equipment, pipework or valves. | <input type="checkbox"/> | | |

Name: _____

- | | | | |
|--|--------------------------|--------------------------|--------------------------|
| 5 Individual(s) breaking a flange are to satisfy themselves that the equipment is proven to be isolated and depressurised. | <input type="checkbox"/> | | |
| 6 Is this system one that may contain Mercury contamination? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Refer to the, [Health Hazards Management Registers for Mercury Registers](#) located in either Kapuni Health Hazards Management Register sheet [KPS Health Hazard Register](#) or M&M Health Hazards Management Register sheet [MMPS Health Hazard Register](#)

If the answer is yes, refer to PTW [Checklist 25](#) and the Standard Operating Procedure [STA-01.43](#).

		Y	N	NA
7	Is the system one that may contain Pyrophoric Iron? If the answer is Yes, refer to Standard Operating Procedure STA-01.09 .	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8	Flanges requiring Cathodic Protection Flange Insulation Kits (FIKs) are identified and the specific torque settings are known.	<input type="checkbox"/>		<input type="checkbox"/>
9	When breaking flanges on underground lines that use sacrificial anodes or impressed current systems, such as blowdown and cross-country lines, the flanges are bridged before breaking.	<input type="checkbox"/>		<input type="checkbox"/>
10	Prior to the use of lifting lugs on manway flange closures, hatches or motors, visual checks have been carried out by a competent person to ensure the lug dimensions are as per designed specification.	<input type="checkbox"/>	<input type="checkbox"/>	

WHEN DRAINING / DEPRESSURING VESSELS or PIPEWORK TO DRAINS or ATMOSPHERE:

11	An estimation / calculation has been made to verify the receiving system is capable of handling expected quantities?	<input type="checkbox"/>		
12	All depressurising, draining and pressuring shall be carried out within plant design criteria for temperature and pressure?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13	Confirm the gas / air cap in the vessel will receive adequate make up when draining commences.	<input type="checkbox"/>		<input type="checkbox"/>
14	Ensure the makeup gas in vessels containing hydrocarbon is inert and not oxygen or a contaminant.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15	If waste is to be removed from site, discuss disposal route with PI. Reference Waste Management Procedure (PRD-ACT03-005).	<input type="checkbox"/>		<input type="checkbox"/>
16	All drain containers must be bonded to plant earth. Connect earth lead to plant earth. Record results of continuity test on permit (<10Ω). Refer to Standard operating procedure STA-01.51 Control of Static Electricity .	<input type="checkbox"/>		<input type="checkbox"/>
17	Perform a test on production solids / deposits for NORM / Ionising Radiation and enter results into the Site Register. Refer to the, Health Hazards Management Registers for Ionising Radiation located in either Kapuni Health Hazards Management Register sheet KPS Health Hazard Register or M&M Health Hazards Management Register sheet MMPS Health Hazard Register	<input type="checkbox"/>		<input type="checkbox"/>

ON COMPLETION OF TASK:

18	Quality Assurance (QA) results are recorded on the Flange Assembly Control sheet, located in the Flange Bolt Torqueing Engineering Specification TE-6900-NPL652159 .	<input type="checkbox"/>		<input type="checkbox"/>
19	A 'line walk' has been conducted to ensure all equipment is reinstated as per reinstatement section of approved isolation procedure.	<input type="checkbox"/>		