



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 2.2	Issue Date: 02/04/2019	Authorised By: PSM

PRIOR TO PERMIT ISSUE:

Y N N/A

- 1 Marked up Flange Control Documentation and Drawings completed.

PRIOR TO COMMENCING TASK:

- 1 You have read and understood the hazards and engineering controls as described in the MSDS Sheet for the hazardous fluid being worked with?
- 2 The work party are familiar with the Flange Bolt Torqueing Procedure [TE-6900-NPL652159](#) , and have referred to the appropriate section relevant to workscope.
- 3 If flanges are to be broken, a competent operations representative shall be in attendance during initial breaking into process equipment, pipework or valves.
Name: _____
- 4 Individual(s) breaking a flange are to satisfy themselves that the equipment is proven to be isolated and depressurized.
- 5 Is this system one that may contain Mercury contamination? (Refer to the [Mercury Register](#), located in "Sharepoint/OIS Application/Health Hazards Management Register/KPS or M&M Mercury Register").
If the answer is yes, refer to PTW [Checklist 25](#) and the Standard Operating Procedure [STA-01.43](#).
- 6 Is the system one that may contain Pyrophoric Iron? (Refer to the [Ionising Radiation](#) register, located in "Sharepoint/OIS Application/Health Hazards Management Register/KPS or M&M Ionising Radiation".
If the answer is Yes, refer to Standard Operating Procedure [STA-01.09](#).
- 7 Flanges requiring Cathodic Protection Flange Insulation Kits (FIKs) are identified and the specific torque settings are known.

- | | | Y | N | NA |
|---|--|--------------------------|--------------------------|--------------------------|
| 8 | 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"/> |
| 9 | 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:

- | | | | | |
|----|--|--------------------------|--------------------------|--------------------------|
| 10 | An estimation / calculation has been made to verify the receiving system is capable of handling expected quantities? | <input type="checkbox"/> | | |
| 11 | All depressurizing, draining and pressuring shall be carried out within plant design criteria for temperature and pressure? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 12 | Confirm the gas / air cap in the vessel will receive adequate make up when draining commences. | <input type="checkbox"/> | | <input type="checkbox"/> |
| 13 | 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"/> |
| 14 | 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"/> |
| 15 | Connect earth lead to plant earth. Record results of continuity test on permit (<10Ω). | <input type="checkbox"/> | | <input type="checkbox"/> |
| 16 | Perform a test on production solids / deposits for NORM and enter results into the Site Register. | <input type="checkbox"/> | | <input type="checkbox"/> |

ON COMPLETION OF TASK:

- | | | | | |
|----|--|--------------------------|--|--------------------------|
| 17 | Quality Assurance (QA) results are recorded on the Flange Assembly Control Sheet, located in the Flange Bolt Torqueing Procedure TE-6900-NPL652159 . | <input type="checkbox"/> | | <input type="checkbox"/> |
| 18 | A 'line walk' has been conducted to ensure all equipment is reinstated as per reinstatement section of approved isolation procedure. | <input type="checkbox"/> | | |