

Justification:
Safety Instruction
(Maintenance)

**Private Owner
Circular Letter
633 Issue 1b**

Title

**Inspection and
Maintenance of
Tank Wagon
Manlids and Seals**

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AUTHORISATION

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1. INTRODUCTION

The failure of manlids to seal correctly can lead to loss of product and (particularly in the case of petrochemical tanks) pose significant risk to the railway infrastructure. POCL 633, Issue 1b has been produced to detail what attention is required at maintenance events and during charging operations to prevent sealing problems.

2. Instruction

2.1 Operation

Whenever a manlid is closed it shall be checked to confirm that it is sealed correctly. Note: On manlids utilising cam arms that engage with 'goal posts' (Progressive Engineering type) it is possible to check by hand for any play by attempting to 'rattle' them once closed.

Any manlid not sealing (or suspected of not sealing) correctly shall be inspected as follows:

- a). The 'O' ring seal is correctly fitted (and not twisted).
- b). There is no permanent flattening of the 'O' ring seal.
- c). The 'O' ring seal is not damaged or worn.
- d). There is no damage, defects or loose corrosion debris either in the groove or on the plate.

2.2 Maintenance

The maintenance regime that is applicable to manlid assemblies and their sealing arrangements shall be such as to prevent leakage of product in service. In particular the following should be covered at maintenance events:

- a). The correct grade of 'O' ring seal, applicable to the product being carried, is used.
- b). The 'O' ring seals are changed at a frequency that will ensure their continued correct functioning in service.
- c). The manlid assembly is inspected for wear, damage, cracks or distortion and repaired as necessary.
- d). Loose corrosion and other debris shall be removed, the surfaces examined and the painted finish (if applicable) restored.
- e). Parts requiring it shall be lubricated with the correct lubricant.
- f). The striking of manlid assemblies with any metal object shall be prohibited.

- g). Only procedures specified by the manufacturer or approved by a technically competent body shall be used to rectify manifold assemblies.

2. SCOPE

This POCL is mandated for all tank wagons registered under the PWRA that convey dangerous goods.

3. IMPLEMENTATION

This document may be implemented immediately.

In the event of any query arising, or clarification required, please contact:

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