MACQUARIE University
SYDNEY·AUSTRALIA

# Commissioning Methodologies (CM) – MUS-02 Pipework Hydrostatic Pressure Testing Method Statement

| | | | |
|---|---|---|---|
| **Client:** | **Project Name:** | | **Project No:** |
| **Area:** | **Drawing No's:** | **Date:** | **Sheet: 1 of 2** |
| **Check Conducted By:** | **Signature:** | **Check Approved By:** | **Signature:** |

## INTRODUCTION

The test procedure guideline has been prepared to explain the minimum standard or pressure testing pipework required to be undertaken on a pipe work system prior to making available for further commissioning processes.

Pressure test the pipe work system is sections as they become available.

### Procedure recommended

1. Disconnect the sections of pipe work that are not part of the pressure test
2. Open sufficient valves as necessary to fill and vent the pipe work under test
3. Fill the pipework under test and vent
4. With all terminal units and plant isolated (or disconnected) pressure test the system to the specified test pressure and verify test pressure using in-situ pressure gauge
5. Leave the system charged and pressurized for the nominated time in the specification (if no details 24 hours
6. If water pressure drops and/or leaks found repair and redo test until no loss of pressure in the pipe work system
7. Drain the entire system through full bore cleanouts and clean all dirt pockets and strainers
8. Refill with clean water and if the system is to be left >48 hours without circulation add water additives recommended by the Water Treatment specialist to stabilize the water quality and to minimize corrosion.

Provide adequate air vents and adequate drain points in pipework to allow the system to be purged of air and to be drained quickly.

## REFERENCE STANDARDS

CIBSE Commissioning Code W - Water Distribution

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**CHECKLIST**

| | | | | | |
|---|---|---|---|---|---|
| Area/Level/Zone | | | | | |
| System Reference | | | | | |
| Drawing Number | | | | | |
| | **ITEM** | **VERIFICATION METHOD** | **RESULT** | **RESULT** | **RESULT** |
| 1 | Pipework portion to be tested identified | Site Inspection | | | |
| 2 | Pipework to be pressure tested isolated from the rest of the pipework systems | Site Inspection | | | |
| 3 | Add test water to pipework to be tested and vent | Site Inspection | | | |
| 4 | Pump up the system water pressure to the specified water test pressure and record pressure using the in-situ pressure gauge | Site Inspection | | | |
| 5 | Maintain the test pressure of a minimum of 24 hours | Site Inspection | | | |
| 6 | If pressure loss in the test pipework then find leak and redo the entire test | Site Inspection | | | |
| 7 | If test pressure maintained record final pressure and drain down pipework including dirt legs | Site Inspection | | | |
| 8 | Pipework re-filled with clean water | Site Inspection | | | |
| 9 | Appropriate chemicals added by water treatment company | Chemical report | | | |
| Certified By Sub Contractor (initial):<br>Date: | | | | | |
| Confirmed By (Head Contractor / Client) (initial):<br>Date: | | | | | |