



Commission Report

by Instant Firefighter P/L

Stage 3 - Fire Hydrant System Upgrade

Address: 230 Rosanna Rd, Rosanna

Site: Stage 2 - St Francis Assisi House, Aged Care Facility

Report Number: 14092

Date: 14/5/2014

Results: Passed

With one 22mm diameter outlet operating the, fire hydrant residual pressure and flow was 480 kPa @ 11.7 L/s

When operated the isolation valve isolated the fire hydrant system from the town's main reticulated water supply.

Tests were performed in accordance with AS 2419.1 2005

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Signed

Ray Costello Director, Instant Firefighter P/L
trading as ifirefighter.

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1. Address: 230 Rosanna Rd, Rosanna

2. Fire Authority: MFB

3. Water Supply:

Grade: Grade 3

System: Boosted (assisted)

The water supply is feed via: Town's main reticulated water supply

4. Fire Hydrant System:

Sluice valve: n/a

Materials used: Galvanised (GWI) rolled grooved pipe

Diameter of pipe: 100mm

Upgraded Fire service consists of: Attack Fire Hydrants & Isolation Valves

Number of fire hydrants: 1 internal

5. Equipment Inspected:

Isolation Valves:

Primary: Wheel handle isolation valve located at the fire hydrant booster assembly.

Secondary: Sluice Valve

Check Valve: At the hydrant booster assembly

Upgrade Hydrant/s:

External: 0

Internal: 1

The type of Milcock connections: Storz, Single head

Existing Hydrant Booster:

Located: Facing Rosanna Rd, inside a cut out in the front fence.

Approximately 50 meters left of the main drive way entrance

Type of connection: Dual , Stortz head

Upgraded Block plan:

Inside a pipe sleeve attached to the booster assembly.

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6. Fire Hydrant Pressure & Flow results:

The static pressure recorded was: 690 kPa

The residual pressure of the upgraded Stage 3, Most Disadvantaged fire Hydrant (MDH) was: 480 kPa

MDH located: On level 1 on the south / east corner of the new addition to the building.

The results indicate that when tested through a single head fire hydrant riser the required pressure (350 kPa) and flow was achieved (10 L/s).

The flow test was recorded using a 22mm nozzle outlet.

The residual pressure and flow recorded was 480kPa @ 11.7 L/s in accordance with AS 2419.1 2005

When operated the isolation valve isolated the fire hydrant system from the town's main reticulated water supply.

Comments: Passed



Stage 2 - Fire Hydrant System Upgrade



7. Hydrostatic Tests:

The fire service was isolated from the Town's main reticulated water supply by the primary isolation valve

The static pressure of 680 kPa in the fire hydrant service was hydrostatically increased to 1400 kPa for a period of 2 hours.

During the hydrostatic test, a metered flow loss of zero L/m was recorded. This is consistent with the BCC Practise Note Guide Line No 38 (Maximum allowable flow is 15 L/m).

The test was commenced at 7.20am and completed by 10.40am

Comments: Passed, exiting pipe work in the system is only suitable to be pressurised to 1400 kPa.

8. Pump Appliance Test:

The fire service was tested for friction loss thru the fire hydrant booster connector to the MDH located at the South East corner of the building, on level 1.

The fire hydrant service with the addition and use of a mobile pump was increased to a residual pressure of 860 kPa at the hydrant booster.

Simultaneously the residual flow pressure at the MDH fire hydrant recorded 700 kPa.

The total friction loss recorded was 130 kPa (Note: 30 kPa friction loss reductions are allowed thru the hydrant booster connections).

Comments: Passed



Note: Final Stage [3] of the Building is still under construction

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9. Comments:

Note: The final stage of the building is still under construction and should be assessed as such, when applying for the Certificate of Occupancy & Regulation 1003

10. Recommendations:

Nil

11. Tested:

This inspection covers the items specified in AS 2419.1 2005, in conjunction with Australian Standard 3500.1.2

12. Compliance:

At the time of inspection it is hereby certified that the fore mentioned firefighting equipment was found to be installed & capable of operating, in accordance with the requirements of the standard recognised when this fire hydrant system was installed, AS 2419.1 2005.

13. Inspection & Test: 14/5/2014

Inspection & Tests performed by Ray Costello & Trent Costello-Manning, Instant Firefighter P/L
Register Technician Accredited and Certified MFB/CFA/AFSPAB
REG: PIC No 13,915 expiry 12/09/2014

Yours faithfully,
Ray Costello
ifirefighter