


AHSCA Presentation

- **FPAA101D Dry Hydrant System**
- **AS2118.1-2017 'Combined' Flow Exemption**
- **QFES' Position on Historic Hydrant System Performance**



QFES' Application of Policies to Referral Agency Response



The screenshot shows a web browser displaying the Queensland Government website. The page is titled "Referral Agency Advice - Guidelines" and is part of the "Referral Agency Advice" section. The breadcrumb trail is: QFES Internet > Building Fire Safety > Referral Agency Advice > Referral Agency Advice - Guidelines. The main content area lists various guidelines available for download or viewing, including:

- [Guide to the Referral of Performance Solutions](#) (PDF 1,453KB)
- [Fire Hydrant Systems for Buildings with Fire Compartments in Excess of 2000m2](#)
- [Fire Hydrant Flows and Pressure for Different Fire Compartments on One Hydrant System](#)
- [Fire Hydrant Test Drains](#)
- [Hydrant and Water Supply Requirements for Developments outside the Standard QFES Response Time](#)
- [Specifications for Tank Supply Points](#)
- [Physical Protection of Pillar Hydrants](#)
- [Pumpset Configurations for Fire Hydrant Systems](#)
- [Main Stop Valves for Residential Sprinklers Systems in Class 9c Buildings](#)
- [Design of Natural Ventilation Systems](#)
- [Provision of Block Plans and Location Diagrams](#)
- [Adequate Fire Safety Systems in Marinas](#)
- [Assessment of Building Fit-Outs](#)
- [Fire Hydrant and Vehicle Access Guidelines for Residential, Commercial and Industrial Lots](#)
- [QFES' 'Water Quality' Requirements for Firefighting Purposes](#)



Incorporating-

TECHNICAL SPECIFICATION FPAA101D

(AUTOMATIC FIRE SPRINKLER SYSTEM DESIGN
AND INSTALLATION DRINKING WATER SUPPLY)

&

AUSTRALIAN STANDARD 2118.5

(AUTOMATIC FIRE SPRINKLER SYSTEMS -
PART 5 : HOME FIRE SPRINKLER SYSTEMS)



2019

QUEENSLAND FIRE AND
EMERGENCY SERVICES
BUILDING APPROVALS

FPAA101D Dry Hydrant Systems

QFES' GUIDELINE (required additional elements to AS2419.1-2005):

Installation of a **hydrant booster cabinet** (optional in AS2419.1).

Signage on HBC - "DRY FIRE HYDRANT BOOSTER INLET".

Block Plan - in addition to relevant requirements of AS2419.1, indication of primary and secondary street feed hydrant and sprinkler floor isolation valve location for each level.

Signage at each internal hydrant valve - "DRY FIRE HYDRANT SYSTEM – MUST BE BOOSTED PRIOR TO ANY FIREFIGHTING".

A **test facility** at the most disadvantaged hydrant and in each pressure zone and/or tower of a united building.

A **Form 71** at QFES' Inspection to be provided – Parts B, D and E to be completed.



Draft AFAC Guidelines



Dry Hydrant Guideline Explanatory Document

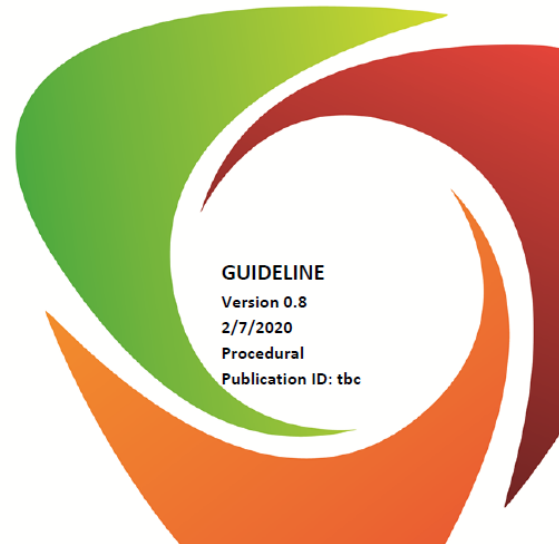
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Operational Procedures and Training Considerations for Hydrants

Working DRAFT



Design, Installation and Maintenance Requirements for Dry Hydrants

Working DRAFT



QFES' Position on AS2118.1-2017 Exemption to Require Combined Hydrant Sprinkler Flow Demand

4.3 WATER SUPPLY FROM RETICULATED TOWN MAIN

4.3.1 General

- (e) As an exception to (c) and (d) above, where only a car parking compartment of a building is provided with sprinkler protection, then the town main shall be capable of applying pressure and flow demands for the sprinkler system without considering simultaneous hydrant flows.

C4.3.1 Where a town main supplies a sprinkler system, it should be capable of providing simultaneously the required flow for fire hydrants. It is expected that the fire brigade would not isolate the sprinkler system until the fire is extinguished and may use the hydrants to supplement sprinkler operation.



QFES' Position on Historic Hydrant System Performance

Minimum required performance for QFES' current branches is 10L/s@350kPa.

Therefore, when assessing or inspecting hydrant systems for fit-outs in pre-November 1994 buildings, QFES will provide a "Not Suitable" assessment result if the existing hydrant system:-

- Does not achieve current day performance requirements (flows and/or pressure).
- Has hydrants that are located in a position that are not compatible with QFES' operational procedures.
- Has hydrant coverage that exceeds current day requirements (30m + 10m internal, 60m + 10m external).



Questions?

