Form 72—fire hydrant and sprinkler system periodic testing and maintenance

This form is to be used for the purposes of maintenance to water based fire safety installations, as required by the Queensland Development Code – Mandatory Part (MP) 6.1, which is a building assessment provision under the *Building Act 1975*, section 30. This form is also to be used in accordance with the 'Fire hydrant and sprinkler system commissioning and periodic maintenance procedure', defined in MP 6.1 as the 'Relevant procedure'. Please note that this form does not comprise all maintenance requirements—this form is only for collecting results for maintenance for some sections of the Australian Standards referred to and in each case, further testing is required.

Part A—Test details			
Site name			
Site address			
Contractor			
Test details	**Test date:**	Maintenance test:	Annual 5 year
		fire hydrant	☐ ☐
	Time:	fire sprinkler	☐ ☐
		combined	☐ ☐

Part B—Hydrant hydrostatic test			**PASS** ☐		**FAIL** ☐
Refer to the required pressure specification for periodic testing (as applicable) as per AS2419.1 or AS1851.					
Boost pressure	kPa	**Test pressure**	kPa		
Duration of test	mins	**End of test pressure**	kPa	**Loss (if any):**	L/min
Comments:					

Part C—Hydrant test equipment/pressure gauges				
If using more devices, provide details in the Notes section below or complete another form. The correction factor must be kPa or a percentage.				
Flow measuring device	Orifice ☐ Part C not required for orifice testing	Mechanical ☐ Calibrated: / /	Electro magnetic ☐ Calibrated: / /	
	Device/gauge 1	Device/gauge 2	Device/gauge 3	Device/gauge 4
Serial number				
Date calibrated				
Correction certificate				
65/100/150 mm face				
Digital reader				
Increments (kPa)				

Part D—Hydrant system flow test			**PASS** ☐	**FAIL** ☐
This part relates to tests under Section 4 of AS1851. If pressure/flow rates do not meet the fire system design criteria and there are no on-site problems, contact the relevant water service provider to ascertain if there are any problems with the water system network. In the table below, please record the pressure readings obtained during the hydrant system flow test.				
Hydrant 1 location		Hydrant 3 location		
Hydrant 2 location		Hydrant 4 location		
System requirements	L/s at kPa	Static pressure	kPa	
On-site pump set installed	**Yes** ☐		**No** ☐	

Pressure zone number:	**Size/flow rate**	**Device/gauge no. (Part C)**	**Hydrant 1 only**	**Hydrants 1 and 2**	**Hydrants 1, 2 and 3**	**Hydrants 1, 2, 3 and 4**
Nozzles	19 mm		kPa	kPa	kPa	kPa
	22 mm		kPa	kPa	kPa	kPa
	25 mm		kPa	kPa	kPa	kPa
Other portable testing devices	5 L/s		kPa	kPa	kPa	kPa
	10 L/s		kPa	kPa	kPa	kPa
	15 L/s		kPa	kPa	kPa	kPa
	20 L/s		kPa	kPa	kPa	kPa
	30 L/s		kPa	kPa	kPa	kPa
	System achieved: L/s at kPa					

Part E—Pump appliance booster test		**PASS** ☐		**FAIL** ☐
This part relates to sections 10.4 and 10.5 of AS2419.1 and for tests under Section 4 of AS1851. If pressure/flow rates do not meet the fire system design criteria and there are no on-site problems, contact the relevant water service provider to ascertain if there are any problems with the water system network. In the table below, please record the pressure readings obtained during the pump appliance booster test.				
Hydrant locations			Height of highest hydrant above booster	m
System requirements	L/s at kPa		Static pressure	kPa
Pump inlet pressure	kPa		Pump discharge pressure	kPa
Boost pressure	kPa		Calculated frictional loss	kPa
Comments:				

Part F—Sprinkler hydrostatic test		**PASS** ☐	**FAIL** ☐
Relevant required pressure specification in AS2118.1, AS2118.4 and AS2118.6.			
Pressure	kPa	Time held	mins
Comments:			

Part G—Sprinkler system flow test

This section is to be used for sections 4.14 of AS2118.1-1999, 4 of AS2118.6-2012 and 6.2 of AS2118.4-2012 and section 2 of AS1851. Notes: (1) For AS2118.1 and AS2118.6 systems, multiple testing points may be required. (2) For AS2118.4, a simulated running test may be required for systems without a flow measuring device, in which the test involves opening a valve to discharge a volume of water that is accepted as being in excess of the design flow. System test points shall be noted for each different system and its location and descriptor.

	System specifications (block plan):		**Test results:**	
Test point 1	Location			
	Required flow rate	L/min	Pass ☐ Fail ☐	L/min
	Required pressure	kPa	Pass ☐ Fail ☐	kPa
Test point 2	Location			
	Required flow rate	L/min	Pass ☐ Fail ☐	L/min
	Required pressure	kPa	Pass ☐ Fail ☐	kPa
Running test	Installation gauge pressure: kPa			
Comments:				

Part H—Compliance		
Critical defects identified	Yes ☐	Give owner/occupier a critical defect notice
	No ☐	No action required in relation to critical defects at this time
Repairs/corrective actions taken	Yes ☐	Attach details (including action and date taken) as part of Licensee's report
	No ☐	No action required in relation to repairs/corrective actions at this time
System	Pass ☐	
	Fail ☐	

Part I—Signature

By signing this Form 72, I confirm that the information contained herein is correct to the best of my knowledge given the information available and that this Form 72 has been completed in accordance with the relevant standards, codes and regulations.

Licensee name		**Licensee signature**	
Licence no. (QBCC/PIC)		**Licensee report no.**	

Note: Building owners/occupiers are responsible for ensuring their buildings continuously meet fire safety standards. Where a building owner/occupier becomes aware that their building does not meet the minimum requirements for water pressure required by any standard applicable under the Queensland Development Code Mandatory Part 6.1 (Maintenance of fire safety installations) the building owner/occupier should contact the Queensland Fire and Emergency Service.

Definitions → *"Maintenance test"* means a test that is required under a maintenance standard such as AS1851. *"Running test"* means a two inch waste test installed at the sprinkler control valve on older systems.

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