



DFES Built Environment Branch - Technical Note 01/11

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Abolition of Designs Incorporating Pumped Booster Assembly Feed Hydrants

Objective

The objective of this Technical Note is to clarify DFES's position in respect of Designs Incorporating Pumped Booster Assembly Feed Hydrants.

Issue

The DFES Built Environment Branch have raised a concern regarding feed hydrants at some booster assemblies being plumbed directly into the pumped side of a fire hydrant system instead of being plumbed directly to the water provider's main.

This has occurred where the water provider's main is not capable of operating the booster assembly feed hydrants at the minimum required flow and pressure as prescribed by Australian Standard (AS) 2419.1 Fire Hydrant Installations and Commissioning.

This type of design is problematic as fire fighters may set into a booster assembly using the pumped feed hydrants assuming they are ready to commence boosting should the on-site pumps fail. However if this was to occur, the booster assembly feed hydrants would also fail.

Conclusion

The DFES Built Environment Branch request that when designing or modifying a fire hydrant system where the water provider's main will not support AS2419.1 compliant feed hydrant pressure and flow at a booster assembly, the design is not to include feed hydrants at the booster assembly.

The design should provide a means of taking water into a DFES pumping appliance for boosting through a hard suction line from the on-site pump suction tank.

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Should the information provided in this guideline require further clarification, please contact DFES Built Environment Branch via email beadmin@dfes.wa.gov.au.

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