



National
Operational
Guidance

Control measure

**Deployment of high volume pumps
resources**



NFCC
National Fire
Chiefs Council

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Control measure knowledge

Due to the nature of use a high volume pump(s) (HVPs) sector at an operational incident often provides a series of operational challenges for the capability. These include:

- An incident sector footprint which may span over several kilometres due to the distance that hose can be deployed, and water pumped
- The need for an adequate incident ground communications strategy, due to the potential distance between HVP crews and the limitations of some fire and rescue service radio equipment
- A need to retain a focus on HVP crew welfare management; crews can often be operating a significant distance from the main scene of operations for protracted periods
- The need to effectively manage the demands of HVP sector logistics, including:
 - Fuel supplies
 - Reliefs and welfare
 - Equipment breakdown or maintenance support
 - Security
 - Lighting
 - Recovery planning, including decontamination and cleaning

For complex or protracted incidents and those requiring multiple assets further assistance may be provided through the request and mobilisation of enhanced logistical support (ELS).

HVP equipment should only be installed, set up or operated by personnel, trained and deemed competent in its use. When deploying HVP resources, there will be a minimum of five competent HVP operators. HVP operators should only be tasked for the deployment, use and recovery of HVP equipment and not for any other purpose during the incident. The following roles are usually included in the response:

- Driver/hook arm operator – trained to drive the prime mover and operate the hook lift system to deploy the main HVP module, the HydroSub and hose box modules. They can operate elements of the HVP hose recovery system within the cab to retrieve hose, and are also able to operate as a driver's assistant.
- HVP operator – trained in all aspects of HVP operation, including procedures for deploying and recovering the HydroSub, deployment and retrieval of hose, operation of the HydroSub,



winch cable, and the use of all ancillary equipment

- Traffic marshal (also known as a banksman) – trained to assist the driver with loading or unloading the HVP main module, and the loading process for the HydroSub or hose box modules. If trained to do so, they can also assist with hose deployment, hose retrieval and the operation of ancillary equipment.
- Service specific support crew – trained in specific aspects of the operator's role to suit individual fire and rescue service requirements, such as hose recovery

Strategic actions

National Resilience should:

- Provide appropriate advice and/or resources, including equipment and personnel as requested, for the incident type and size
- Carry out specialist HVP roles appropriate to the incident type and size

Tactical actions

Specialist responders should:

- Establish adequate incident ground communications for HVP operators
- Manage high volume pump personnel welfare
- Manage the demands of HVP sector logistics