

	<b>COLD WEATHER PUMP OPERATIONS</b> <b>GUIDELINE</b>		<b>2017revA</b>
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## Procedure

This guideline is to assist Loveland Fire Rescue Authority in determining when to place the pump in gear during cold weather.

### Employee Responsibility

The pumps on all apparatus carrying water will be engaged whenever the temperature falls below 32 degrees Fahrenheit. Since moving water does not freeze, the fire pump should be engaged and water circulated during cold weather conditions. Drain valves should be half-open to prevent freezing.

Exceptions will be when running a 'wet pump' will cause the booster tank to drain due to an opening that is in need of repair. If it is necessary to have a 'dry pump', the following procedure will need to be performed whenever water is reintroduced to the pump. To properly drain the fire pump, the tank-to-pump and tank-fill valves need to be closed and the main pump drain opened and remain opened until the water is drained out. The pump heater will be turned on to protect gauges, gauge lines, individual drain lines, pressure lines and other components with small orifices that will retain water.

If the tank-to-pump and/or tank-fill valve(s) are leaking, the pump will not remain drained. Leaving the drain valve open while the apparatus is parked will keep the pump dry, but will also allow the booster tank to drain down requiring someone to periodically monitor the water level in the booster tank between uses. In addition, leaving the drain valve in the open position while it is subjected to freezing conditions may cause it to freeze in the open position, which could render the pump inoperable.

The main purpose of the pump heater is to provide limited freeze protection to the gauges, gauge lines and other small components that are located in the upper area of the pump house. Pump heaters do little to protect the fire pump or components that are located beneath the fire pump. Pump heaters will be turned on when temperatures reach 32 degrees Fahrenheit or colder.

## Revision History

## References

Waterous Fire Pumps and Equipment <http://www.waterousco.com/service-and-engineering-support/cold-weather-operations/> Retrieved 1/12/2017