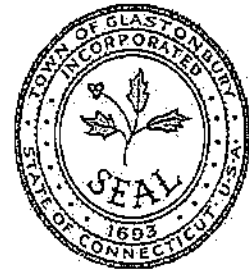




GLASTONBURY FIRE DEPARTMENT  
STANDARD OPERATING GUIDELINES



---

SOG NUMBER: WAS-002                      ISSUED DATE: 04-20-06                      EFFECTIVE DATE: 04-20-06  
REVISION #: 2                                      REVISED DATE: 01-11-16                      EFFECTIVE DATE: 01-11-16  
CATEGORY: WATER SUPPLY  
SUB-CATEGORY: PUBLIC WATER DISTRIBUTION NETWORK  
SUBJECT: PUMP STATIONS

---

Section I – Introduction

A. Objective

To establish a guideline as it relates to the Metropolitan District Commission (MDC) Water Distribution System and the Fire Departments interaction with the system.

B. Applicability

The MDC water supply in Glastonbury has gone through a process of increased effectiveness. However at times the Glastonbury Fire Department will routinely use a fire department hydrant to hydrant connection to boost the water supply pressure and volume during fire fighting operations. As the first step in all low pressure areas, the department will first trust the water supply to be adequate.

C. References

Attached MDC Outline

Section II - Guideline

- Step One - Trust the water supply as it maintains a minimum of 20 PSI residual pressure in the system.
- Step Two - If a decision needs to be made to pump in to the system, at all times, maintain a minimum of 20 PSI residual pressure and do not exceed pressures listed in this procedure at the various MDC pumping location.

Section III - Locations

- Fire department pump locations at Uplands Way, Paxton Way, South Mill, & Orchard Street should not require fire department hydrant to hydrant connection. If it is determined that pressures need to be increased the following pressure guidelines are to be used:
  - Orchard Street - Minimum residual 25 PSI, Maximum Discharge 155 PSI
  - Paxton Way - Minimum residual 20 PSI, Maximum Discharge 100 PSI
  - South Mill - Minimum residual 30 PSI, Maximum Discharge 125 PSI
  - Uplands Way - Minimum residual 25 PSI, Maximum Discharge 120 PSI

- Fire department pump locations at Farmstead Lane and Buckingham Pump Station will rarely require a fire department hydrant to hydrant connection. If it is determined that the pressures needs to be increased the following pressure guidelines are to be used:
  - Farmstead Lane - Minimum residual 20 PSI, Maximum Discharge 135 PSI
  - Buckingham Station - Minimum residual 20 PSI, Maximum Discharge 95 PSI
  
- The fire department pump location at Lakewood Road may need to be utilized but must be done with care. If it is determined that the pressures needs to be increased at this location use the following guideline:
  - Lakewood Road - Minimum residual 20 PSI, Maximum Discharge 60 PSI; bypass pumping across boundary gates.

Section IV- Approval

Fire Chief Michael P. King

Date of Approval: 1/11/16



The Metropolitan District  
water supply • environmental services • geographic information

There are 3 scenarios for fire pumping in the Glastonbury area.

1) Buckingham Pump Station & Farmstead La Pump Station

- Buckingham Pump Station will need to be bypass pumped. Suction pressure must not fall below 20 psi. Discharge pressure must not exceed 95 psi.
- Farmstead La Pump Station will need to be bypass pumped. Suction pressure must not fall below 30 psi. Discharge pressure must not exceed 135 psi.

2) Orchard St Pump Station, Paxton Way Pump Station, South Mill Pump Station, and Uplands Way Pump Station all have bypass capabilities. Although pumps at these stations may produce sufficient volumes of water, if bypass pumping is required, the following values should be employed during bypass conditions.

- Orchard: Suction Pressure must not fall below 25 psi. Discharge Pressure must not exceed 115 psi.
- Paxton Way: Suction Pressure must not fall below 25 psi. Discharge Pressure must not exceed 100 psi.
- South Mill: Suction Pressure must not fall below 30 psi. Discharge Pressure must not exceed 125 psi.
- Uplands Way: Suction Pressure must not fall below 25 psi. Discharge Pressure must not exceed 120 psi.

3) Lakewood Area

- Bypass pumping across boundary gates.
- Suction Pressure must not fall below 20 psi.
- Discharge Pressure must not exceed 60 psi.

PLEASE OPEN AND CLOSE ALL HYDRANTS AND GATES SLOWLY

Todd Cormier Plants Maintenance Administrator cell phone (860) 818-3020

Tom Fresta Pump Station Supervisor cell phone (860) 818-3026