

City of Bend

Fire & Rescue

Section 1.9 Pump Operations

Task 1.9.13 Auto. Sprinkler Support

Section 1 - Individual Performance Standards

STANDARD:

1. Supply water to building FDC in support of automatic sprinkler system
2. Use all current PPE and safety precautions
3. Pump appropriate pressure within 10 PSI

RESOURCES:

1. IFSTA Pumping Apparatus Operator Text and/or BFD hydraulics reference card
2. One pumping apparatus (Engine or Truck) with three person crew
3. One fire hydrant
4. Current accepted standard for pump engagement and operation per manufacturer and Training Division.
5. One building with FDC connected to automatic sprinkler system
6. Full Personal Protective Equipment

PROCEDURE:

1. Confirm assignment to "Support the Sprinkler System"
2. Locate FDC and hydrant, determine hose lay requirement; hand stretch vs. reverse lay
3. Engineer spots at FDC, shifts to neutral and sets parking brake. Stand ready while Firefighter exits and retrieves equipment.
 - a. If proximity of hydrant to FDC is safe and advantageous, a hand stretch from hydrant to FDC is indicated; Engineer proceeds to step 5.
4. Engineer receives clear signal from Firefighter to "Lay Line" and proceeds to hydrant according to Performance Standard 1.9.1.
5. Engineer spots at hydrant, away from building/environmental hazards and to make efficient use of hose.
6. Engineer engages pump and proceeds according to Performance Standard 1.9.3 Steps 3-5.
7. Engineer establishes water supply according to Performance Standard 1.5.4 and Performance Standard 1.9.3 steps 7-12.
 - a. Charging the FDC from tank water prior to water supply establishment is not recommended.
8. Engineer makes LDH connection at pump panel.
9. Receive clear signal from Firefighter that FDC connection is made and ready for water.
10. Charge FDC @ 150 psi discharge pressure according to BFD hydraulic reference card.
11. Utilize the pressure governor and pressure relief systems appropriately given discharge needs.
12. Communicate "Sprinkler System is Supported" to command and confirm adequate pressure with fire attack.
13. Monitor intake and discharge pressures carefully. Obtain an estimate of water flow by number of heads flowing. Est. approx. 15 GPM per sprinkler.

Safety Considerations:

1. **Ensure that apparatus wheels are chocked prior to pumping.**
2. **Confirm FDC service to area involved and layout to be stretched.**
3. **Pump within 10psi of operating pressure at all times.**
4. **Utilize pressure governor and pressure relief systems to best protect personnel and equipment**