



Job Performance Review

Sprinkler System Fire Department Connections

Individual Level Competency

JPR Title

Sprinkler System Fire Department Connections

JPR Number

JPR-DOP-1

Reference

NFPA 1001 – Standard for Firefighter Professional Qualifications

NFPA 1002, Standard for Fire Apparatus Driver/Operator Professional Qualifications

IFSTA Pumping Apparatus Driver Operator Handbook

IFSTA Essentials of Firefighting

ATFD Standards of Cover and Risk Analysis

Performance Criteria

Fighting fires in sprinklered buildings require a coordinated effort by those involved. Maintaining an effective water supply for the sprinkler system is a key element of a successful outcome. Performance criteria will include the following:

- ✓ Recognition of a fire department connection and type
- ✓ Aware of water supplies available to support the evolution
- ✓ Demonstrates the knowledge for a safe operation
- ✓ Ability to articulate pump operation hydraulics for the activity
- ✓ Provides scene lighting from the apparatus as needed to allow for safe operation
- ✓ Executes proper de-mobilization protocols and techniques

Time Parameters

8 minutes or less to establish the initial connection

Safety Precautions

Safe operations and control of all equipment

Tripping and fall hazards minimized

Appropriate task at hand PPE is utilized

Procedure

Driver Operator of the apparatus self-dispatches from a staging area to the fire department connection(FDC).

The driver of the apparatus will be cognizant of the location of nearby fire hydrants in relation to the FDC.

If instructed to connect to the FDC by the OIC, the driver shall stretch 3” hose to such and make connection. Check for, and remove any debris or objects in the FDC. Use caution while doing this for any sharp objects, etc.

The driver shall be aware of the area hydrants to ascertain if this will be a stand alone operation or if an additional engine will be needed.

Prepare to back the engine up with a public water supply.

The OIC shall give the order to pressurize the FDC. If instructed to pressurize the FDC, the pump operator shall initially pressurize the FDC with tank water.

Once you have established that you are indeed flowing into the system, then back yourself up with public water.

The system should be pressurized to 125-150 psi.

Under no circumstances should the pressure being supplied to the FDC exceed 175 psi.

Sprinkler systems are designed for a maximum working pressure of 175 psi. A serious impairment could result to the sprinkler system in the building if pressures exceed 175 psi.

Under certain circumstances, of which judgment should be used, a second 3” hose will be connected to the FDC.

Firehouse Software Evaluator Notes

Link to “Driver Operator Pumper”

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