

Basic Standpipe Operations

Discussion

Standpipe operations often involve some of the most complex operations for a fire department. Intricate hose lead outs, proper hydraulics and hose movement inside the stairway all require discipline and coordinated operations.

Review your departments SOG's on high-rise pack and standpipe operations. Don't forget that many large commercial occupancies also have standpipes. They can be viewed as high-rise buildings laid horizontal. Locating the interior standpipe connection can be hazardous and difficult in these situations. The main difference in these operations include having to hook-up in non-protected areas deep on the interior of the building. A high-rise structure may offer protection in the stairwell, whereas the commercial structure will not afford this luxury. The biggest key to success is to PREPLAN standpiped buildings to identify the answers to the questions below.

The hydraulics required to complete this operation include the calculation of the friction loss in the attack line, the standpipe riser, the siamese, and the supply line(s) from the siamese to the pumper. Review your department standards for completing these calculations. Officers must review the department SOG's for standpipe operations in preparation for this drill session.

Engineer's Corner

- Review nozzle type, length/size of hose, other appliances that make up your high rise packs.
 - What is the nozzle pressure
 - What is the loss in the line
 - What is the loss for the appliances
 - What is the loss for every floor of elevation
 - What is the loss for the siamese connection
 - What is the loss for the supply line
 - Calculate PDP
- Describe your supply to siamese operations, (line size, lead-out method, tools used for connection).

Firefighter's Corner

- What is your tool assignment along with the high rise pack for a standpiped building?
- Where would you make your connection to the standpipe in the building?
- Describe your hose lead out methods
 - Answer the same questions for a large commercial building that has interior standpipes
 - Does your tool assignment change or lead out arrangement
- Describe your entry onto the fire floor.
- What other safety considerations must be observed when working in the hallway?
- If your high-rise pack is equipped with a gated wye device, what should be done with the wye valves to prevent accidental closure?

Officer's Corner

- What is your tool assignment to accompany the firefighter into the building?
- What are your orders for the next arriving engine company? The next arriving truck company?
- What position will you take on the hoseline?
- Describe the interior size-up procedures you will complete on the fire floor?
- What is the role of an elevator in a high rise
- Where would staging be located in the building?
- Describe the IMS sectors used at this incident.

