West Sacramento Fire Department

Training Plan

Subject
Engine Ops – High Rise Tandem Pumping

Instructors		
A	**B**	**C**

Logistics	
Time Required	**Equipment Needed**
2 hrs.	2 Engines (Reserve + 1) Simulated FDC Water Supply

Description

Objectives:

1. Review the First Alarm High Rise Response
2. Discuss the Hydraulic Calculations required for supplying a standpipe system
3. Describe & demonstrate the procedure for supplying the FDC.
4. Review the safety considerations when performing a Tandem Pumping evolution.

Description / Outline:

1. Review the responsibilities of the First Alarm Assignment
   - 2nd Due Engine drops crew at single point of entry and proceeds to the FDC
   - 4th Due Engine drops crew at single point of entry and proceeds to FDC

2. Discuss the Hydraulic Calculations required for standpipe systems
   - May be referenced by Building Address (SFD High Rise Pump Chart)
   - Total **PDP = FL+NP+EL+25**
     - PDP = Pump Discharge Pressure
     - FL = Total Friction Loss (in hoselines supplying the FDC & Attack lines)
     - NP = Nozzle Pressure (1 1/8" Smoothbore Nozzle = 50 psi)
     - EL = Elevation Loss (5 psi per floor)
     - 25 = Average FL through FDC, building systems, and Standpipe Outlet

     ► CalStrs Building System Pressure is 240 psi

3. Describe the Tandem Pumping Operation
   - Tandem Pumping Worksheet

4. Set-up & Perform a Tandem Pumping evolution

5. Review Safety Considerations
   - Tandem Pumping Worksheet

Prepared By:	Date / Date Revised:
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