MONTGOMERY COUNTY FIRE AND RESCUE SERVICE
DRIVER/OPERATOR TRAINING PROGRAM

Practical **A**pplication **G**uide **S**heet

Engine: Automatic Sprinkler & Standpipe

Candidate Performance Competency: The driver candidate shall position Engine to make appropriate connections to supply an Automatic Sprinkler Fire Department Connection (FDC). Establish a water supply and then charge the Sprinkler System. Then make appropriate connections and supply the Standpipe FDC.

Task	Value	Score
1. Locate the Fire Department Connections (FDC) and the nearest hydrant. Position for access to FDC and not to impede incoming units.	2	
2. Stop Engine and apply parking brake.	1	
3. Engage pump. Listen for pump and air compressor to engage. See speedometer reading approximately 10-15 MPH. See green "Ok To Pump When Lit" indicator light in cab illuminated.	3	
4. Place wheel chock on downhill side of front or rear tire. **(CFP)**	2	
5. Operator confirms the following: a) Pump panel gauges are illuminated, b) FoamLogix Pump is on, c) Air Compressor is on, d) positive discharge pressure on the Master Discharge Gauge, and e) "Tank To Pump" valve is open.	5	
Establish Water Supply and Prepare the Pump		
6. Partially open hydrant to flush.	3	
7. Fully dress the hydrant (gate valves) and charge initial supply hoseline to the pump.	3	
8. Open TPM to appropriate pressure. **(CFP)**	2	
9. Close Tank To Pump valve.	3	
10. Turn off CAFS air compressor and FoamLogix pump. **(CFP)**	3	
11. Open intake bleeder to bleed air and then close. Open MIV and note static intake pressure from hydrant. Static Intake Pressure:_____psi	3	
12. Operate primer until water discharges.	2	
Supplying the System		
13. Utilize an "Officers High Flow Discharge" with 3" hoseline to supply the Sprinkler FDC.	2	

Task	Value	Score
14. Candidate must verbalize the flow capacity of both Officers High Flow Discharges. (Officers No.1 = 2,400 GPM; Officers No.2 = 1,500 GPM)	5	
15. Candidate must know what the Outboard Relief Valves are set out. (Unit specific, should be around 210 PSI, candidate must test their Engine prior to taking test, if sufficient pressure can't be achieved without relief valve opening candidate must use another discharge and CMF must be notified.) Outboard Relief Valve Pressure:_____psi	4	
16. Check FDC for obstructions/damage then connect supply hose.	3	
17. Open discharge valve supplying water to Sprinkler FDC. Throttle up to appropriate discharge pressure. (150psi for Sprinkler FDC) *Note: A successful supply to FDC may shut the water flow alarm off and drain may stop flowing water in some sprinkler systems* Discharge Pressure Used:_____psi	2	
18. Check FDC for obstructions/damage then connect supply hose to Standpipe FDC utilizing the second "Officers High Flow Discharge" and 3" hoseline.	2	
19. Adjust TPM if necessary.	2	
20. Open discharge valve supplying water to Standpipe FDC.	2	
21. Evaluator will inform candidate of the location of the fire floor and flow is 500gpm. Candidate will adjust throttle for Standpipe operations while controlling the pressure supplied to the Sprinkler FDC as appropriate. (150 PSI to connection +/- 5psi/floor above the 1st; or 200 PSI to 10th floor and above) Sprinkler Discharge Pressure:_____psi Standpipe Discharge Pressure:_____psi	5	
22. Adjust TPM as necessary. **(CFP)**	5	
23. Ensure that there is a means for water to be constantly circulating through the pump for cooling in the event that both lines are shut down. TRV should not activate. **(CFP)**	5	
24. Attach additional 3" lines to Sprinkler and Standpipe connections and open discharge valves.	2	
25. Complete "heavy water" connections and charge. Open intake bleeder to bleed air and then close. Open MIV.	2	
26. Monitor pump panel, pump, engine compartment gauges and radio. **(CFP)**	2	
Return to Service:		
27. Throttle down to idle.	1	
28. Close discharges and MIV. Shut down hydrant.	1	

Task	Value	Score
29. Take pump out of gear. Return TPM to zero.	1	
30. Replace blind caps on FDC.	2	
31. Ensure that Engine is ready for service.	5	
Additional Knowledge:		
32. Explain the procedure/pressure for supplying a Sprinkler/Standpipe combination system. (150 PSI)	5	
33. Explain contingency procedures for a Standpipe system with compromised or damaged FDC.	5	
Total Points	100	

Critical Fail Points

Failure to successfully perform any of the following components will result in an automatic failure of this evolution regardless of total score.

a) Not delivering the requested product

b) Improper setting of the TPM at any stage of the evolution

c) Improper discharge pressures

d) Failure to turn off CAFS Air Compressor and/or FoamLogix pump

e) Loss of water/pressure in Standpipe or Sprinkler supply line

f) Failure to use wheel chock

g) Activation of TRV

Evaluator: Initial beside the final outcome of the exam below.

____ PASS ____ FAIL – Overall Points ___ FAIL – Critical Failure Point

_____ _____

Evaluator Name **Date**

Evaluator Signature