



GOLDER RANCH FIRE DISTRICT

Engineer Practical Check Sheets

Flowing Multiple Lines

Standards:

NFPA 1010 Section 1002: 10.2.1, 10.2.1(B)

NFPA 1010 Section 1002: 10.2.2, 10.2.2(B)

Task/Performance Outcome:

The candidate shall be given the objective to flow a multiple hose line off a type 1 pumper. The hose lines must be pumped to the proper pressures and an effective fire stream is achieved in each.

Required Personal Protective Equipment (PPE):

Turnout pants/boots, helmet and utility gloves

Required Equipment:

- Type 1 pumper (with foam injection system)
- Fire nozzles
- Fire hoses

Critical Fail Criteria:

Failure consists of the following:

- Failure to complete any of the given tasks
- Failure to place wheel chocks prior to throttling truck
- Failure to refill on board water tank
- Cavitation of pump
- Failure to wear the required PPE
- Failure to keep accountability on the fire ground
- Failure to exit the apparatus safely and with three points of contact
- Glaring, gross errors, as documented by the evaluator
- An apparent lack of efficiency and comfort with the activity, as documented by the evaluator
- Less than 80% of available points scored

Evolution Details:

The candidate will be instructed to flow a multiple hose lines using a given water source (tank, hydrant or drafting). The candidate must charge the hose lines safely and smoothly when the hose lines are ready to be charged. Once the hose lines are charged with water the candidate must set the pump discharge pressure correctly. The candidate must set the pump discharge pressure to the highest line(s) and gate down necessary hose line(s) to the proper pressure(s). The candidate must and ensure the discharge relief valve or pressure governor is set to the correct level for the highest line. The candidate must ensure the hose lines are dressed for smooth advancement, leaks and kinks are addressed and truck vitals are monitored.



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Candidate Name:	Date:	
Initial Attack Line	Points Available	Points Earned
Addresses Accountability.	CFC	
Parking brake engaged.	1	
Pump engaged.	1	
Ensures that "OK to Pump" light is on.	1	
Wheel Chocks placed prior to throttling up engine.	CFC	
Tank-to-pump valve opened.	1	
Candidate safely pulls 5 inch supply line off apparatus and connects to Jaffrey (and to hydrant if no partner).	1	
Calls for water (or opens hydrant if no partner).	1	
Bleeds air from line before opening intake.	1	
No kinks or bends which would restrict optimal water flow.	1	
Transitions from tank to hydrant supply.	1	
Water supply evolution completed safely and efficiently.	1	
Tank to pump is closed.	1	
Throttles truck between 1000-1200 RPM prior to operating primer.	1	
Operates Primer for a minimum of 3 seconds.	1	
Waits for line to charge before throttling up.	1	
Charges line with appropriate pressure within 10% of theoretical for the given hose line <div style="text-align: right;">_____ psi</div>	2	
Pressure relief device set for current pump discharge pressure.	1	
All lines are properly charged and checked for any kinks or obstructions.	1	
All couplings are tight.	1	
All T-handles are locked in position.	1	
All gauges are at the proper operating pressure.	1	
Master discharge gauge matches the highest pressure line.	1	
The highest pressure line is fully open.	1	
All mechanical gauges are within the normal limits.	1	
D/O does a 360 of the truck observing functions, leaks, etc.	1	
Demonstrated overall efficiency and comfort with the evolution.	3	



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Additional Attack Lines	Point Available	Points Earned
Correct operating pressure for given line within 10% of theoretical of the given hose line. <div style="text-align: right;">_____ psi</div>	2	
All lines are properly charged without excessive pressure (gated down lower pressure line appropriately without a major bump in pressure).	1	
All couplings are tight.	1	
All gauges are at the proper operating pressure.	1	
All handles are locked in position.	1	
Master discharge gauge matches the highest pressure line.	1	
The highest pressure line is fully open.	1	
The relief valve is set to the proper setting.	1	
Engineer does a 360 of truck observing functions, leaks, etc.	1	
All mechanical gauges are within the normal limits.	1	
Must ask candidate: Current GPM flowing <div style="text-align: right;">_____ gpm</div>	1	
Demonstrated overall efficiency and comfort with the evolution.	3	
Total Points (35/43)	43	

Evaluator: _____ Total: _____/43

Circle one:
Pass/Fail on points/Fail on critical criteria

Comments _____

