



NORTHERN WAKE FIRE DEPARTMENT
STANDARD OPERATING GUIDELINES

TITLE: Supply Line from a Pressurized Fire Hydrant (Forward Lay)	SECTION/TOPIC: OPERATIONS
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I. PURPOSE

- A. The purpose of this Standard Operating Guideline is to define the steps for utilizing a forward lay to supply water to the fire ground when operating from a pressurized fire hydrant.

II. SCOPE

- A. This Standard Operating Guideline applies to all personnel within the Northern Wake Fire Department.

III. GUIDELINE

A. Firefighter

1. Remove approximately 20-feet of LDH supply line from the engine hose bed utilizing the hose rope.
2. Place hose rope around the hydrant.
3. Remove the hydrant bag and a portable radio from the engine.
4. Signal the Driver/Operator to proceed to the incident location.
5. Once the engine stops at the incident location, remove the 2 ½" hydrant cap located opposite of the incident location.
6. Place hydrant wrench on the operating nut, open hydrant, and slightly purge the hydrant.
7. Close the hydrant and connect a closed 2 ½" hydrant gate valve to the open 2 ½" hydrant port.
8. Remove the 4 ½" hydrant cap.

9. Install the LDH x 4 ½" hydrant adapter onto the open 4 ½" hydrant port.
10. Connect the LDH supply line to the LDH x 4 ½" hydrant adapter.
11. Wait for the apparatus Driver/Operator to advise by radio that he/she is ready for the water supply.
12. Open hydrant slowly and completely.
13. Remove the hose rope from the LDH supply line.
14. Walk the LDH supply line back to the incident location while utilizing the hose rope to slide the LDH supply line to the side of the roadway.
15. Report to the Incident Commander for further assignment.

B. Driver/Operator

1. Stop engine 10-feet beyond hydrant location.
2. Wait for the Firefighter to signal that it is safe to proceed.
3. Travel no faster than approximately 10 mph while laying the LDH supply line near the road shoulder that the hydrant is located on.
4. Properly position engine at the incident location.
5. Engage parking brake.
6. Engage pump.
7. Chock rear wheels.
8. Open the tank-to-pump valve.
9. Open tank-fill valve.
10. Determine which pump discharge line(s) have been pulled.
11. Close tank fill valve.
12. Open proper pump discharge valve(s).
13. Increase throttle to desired pump discharge pressure.
14. Observe pump intake gauge (no more than 20" Hg) and adjust accordingly.
15. Set pump discharge pressure relief valve.

16. Observe location of last LDH supply line coupling and determine whether to remove additional LDH supply line from the hose bed or use either a 25-foot or 50-foot LDH supply line for making the connection to the engine LDH pump intake valve.
17. Connect the LDH supply hose to the LDH pump intake valve.
18. Open the LDH pump intake valve air bleeder.
19. Notify the Firefighter, either by radio or by one single air horn blast, to open the hydrant.
20. Once all air has evacuated from the LDH supply line, close the LDH pump intake valve air bleeder.
21. Open LDH pump intake valve slowly and completely.
22. Close tank-to-pump valve.
23. Adjust pump throttle and re-set pump discharge pressure relief valve.
24. Refill booster tank.
25. Observe pump intake gauge (no less than 10 psi residual pressure, no more than 50 psi residual pressure) and adjust accordingly.
26. If available, set pump intake pressure relief device.
27. If available, set LDH pump intake and LDH discharge valve pressure relief devices.
28. Monitor all gauges continuously.