



Fire Protection Training

Procedures Handbook 4300

HOSE

TOPIC: How To Make A Progressive Hose Lay (Fire Crew)

LEVEL OF INSTRUCTION: II

TIME FRAME: 2 hours

BEHAVIORAL OBJECTIVE:

Condition: 1000 feet of 1 1/2 inch hose, 500 feet of 1 inch hose, 1 - 1 1/2" nozzle, 5 - 1" nozzles, 5 in-line hose tee's, 1 - hose clamp, 2 - spanner wrenches - 1 1/2 inch, Water source - 1 1/2 inch

Behavior: The fire crew will demonstrate the procedures for completing a 1000 foot progressive hose lay, with laterals.

Standard: With a minimum of 70% accuracy, within 15 minutes, according to the job breakdown

REFERENCES: ▪ WATER VS. FIRE

MATERIALS NEEDED:

- 1 Fire Crew in full safety gear
- Hose (1000 feet -1 1/2 inch) (500 feet - 1 inch)
- Nozzles (1 - 1 1/2 inch) (5 - 1 inch)
- 5 in-line hose tee's
- One hose clamp
- Two spanner wrenches - 1 1/2 inch
- Water source - 1 1/2 inch
- Fire tools
- Flagging

PREPARATION: Hand crews are an excellent resource to utilize to make a long progressive hoselay. The ability to complete the hoselay in a safe and timely manner can result in a significant saving of property and the reduction of civilian injury or death.



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HOW TO MAKE A PROGRESSIVE
HOSE LAY (FIRE CREW)

OPERATIONS

KEY POINTS

1. Captain briefs crew

- 1a. Safety aspects
- b. Escape routes
- c. Weather
- d. Fire Direction
- e. Footing
- f. Avoid pinching hose
- g. Avoid pinching fingers
- h. Using proper lifting techniques
- i. Tool up crew (optional)

2. Captain designates assignments

- 2a. Nozzle person
- b. Clamp/Brass person
- c. Hose handlers

TIME STARTS

3. Hose handler unrolls 100 foot length of 1 1/2 inch hose

- 3a. Removing rubber band
- b. Using bowling ball, overhand
- c. Unrolling hose away from water supply
- d. Not into heavy brush or towards fire

4. Hose handler hands male coupling to nozzle person

4a. For nozzle connection

5. Hose handler hands female coupling to Clamp/Brass person

5a. For connection to discharge

6. Clamp/Brass person inspects female coupling

- 6a. Checking for gasket
- b. Checking threads for damage and cleanliness

7. Clamp/Brass person connects female coupling to discharge

- 7a. Hand tight
- b. Snugly

8. Nozzle person inspects nozzle

- 8a. Checking for coupling gasket
- b. Checking threads

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OPERATIONS

KEY POINTS

9. Nozzle person connects nozzle to hose
10. Nozzle person states: "**CHARGE LINE**"
11. Clamp/Brass persons states: "**WATER**"
12. Nozzle person opens nozzle
13. Clamp/Brass person and hose handlers pull hose
14. Hose handler drops and drags 1 1/2 inch hose
15. Nozzle person sprays water
16. Clamp/Brass person calls: "**HOSE**"
17. Nozzle person stops advancing
18. Hose handler unrolls length of hose
19. Nozzle person calls: "**CLAMP HOSE**"
20. Clamp/Brass person clamps hose

- 9a. Hand tight
- 10a. Loudly
 - b. To pump operator
- 11a. Loudly
 - b. Opening discharge
- 12a. Making a wet line
 - b. From anchor point
 - c. Vary spray pattern
 - d. Down and parallel to fire line
 - e. Straight stream to cool down ahead
- 13a. For nozzle person
 - b. Advancing hoseline
 - c. Until fully extended
- 14a. Starting at just completed coupling
 - b. Following nozzle until needed
- 15a. On fire edge
 - b. While advancing hoseline
- 16a. Loudly
 - b. When 10 feet to end of length
 - c. Leaving slack in hoseline
- 17a. Closing nozzle
- 18a. Parallel to charged hoseline
- 19a. Loudly
- 20a. 10 feet behind nozzle
 - b. Avoids pinching hose
 - c. Stopping water flow



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OPERATIONS

KEY POINTS

21. Clamp/Brass person states:
"CLAMPED"
22. Nozzle person opens nozzle
23. Nozzle person removes nozzle and hands male coupling to hose handler
24. Clamp/Brass person hands 1 1/2 inch water tee to hose handler who installs tee

25. Repeat steps 4 through 24 while steps 26 through 29 are completed
26. Captain directs crew member to lay a lateral line
27. Hose handler unrolls 1 inch lateral
28. Crew member connects lateral to tee and 1 inch nozzle
29. Crew member extends lateral

30. Captain advises crew to stop

- 21a. Loudly
 - b. When hose is clamped
- 22a. To release water pressure
- 23a. Turning coupling on nozzle
 - b. Removing nozzle from hose
- 24a. Between lengths of hose
 - b. At end of first 100 feet length of line
 - c. Checking for gaskets
 - d. Checking threads for damage and cleanliness
 - e. At every 200 feet or as needed thereafter
- 25a. Until hoselay is completed at 1000 feet long
- 26a. Hose handler with 1 inch hose
 - b. 100 foot length
- 27a. Parallel to charged hoseline
 - b. Not towards fire
- 28a. Checking threads
 - b. Checking for gaskets
- 29a. Perpendicular to charged hoseline
 - b. While holding nozzle
 - c. Fully extended
 - d. Crew member stays with nozzle
- 30a. Stop forward progress of hoselay
 - b. When hoselay is 1000 feet long

TIME STOPS

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KEY POINTS

31. Captain advises crew to breakdown hoseline
32. Crew members disconnect hose sections
33. Crew members drain hoses
34. Remove all hose appliances
35. Carry hose back to the starting point
36. Roll all hose

- 31a. Disconnect hose sections
 - b. Drain hose
 - c. Remove appliances
 - d. Pack hose
- 32a. Uncouple hoses
- 33a. Lay couplings downhill
 - b. Draining all water out of hose
- 34a. From hose connections
 - b. Return to starting point
- 35a. Over the shoulder/butterfly hose carry
 - b. As quickly as safety will allow
 - c. No more than 2 lengths per person
- 36a. Two person teams



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APPLICATION:

Crew will practice making a progressive hoselay while being supervised and coached by the instructor.

EVALUATION:

Manipulative Performance Examination which requires a minimum 70% accuracy and completion of all critical operations noted with an asterisk on the score sheet.

ASSIGNMENT:

Practice skill until proficient within 15 minutes.