



Fire Protection Training

Procedures Handbook 4300

HOSE

TOPIC: How to Make A Dual Reverse Hose Lay - Supply Line

TIME FRAME: 30 Minutes

LEVEL OF INSTRUCTION:

BEHAVIORAL OBJECTIVE:

Condition: An engine with a complement of equipment with a split hose bed, 500 feet of medium diameter supply hose in each bed, and a stand pipe or sprinkler connection

Behavior: The students will perform a 300 foot dual reverse hose lay from a fire department connection to a hydrant under simulated fire conditions.

Standard: With a minimum of 70% accuracy, within 7 minutes

MATERIALS NEEDED:

- One fire engine with a split bed
- 500 feet of medium diameter supply line in each bed,
- Nozzles, Spanners, Adapters
- Mallet
- Hydrant wrench
- Stop watch
- An assistant
- An engine operator
- A standpipe
- A performance examination
- Tally sheet

REFERENCES:

- IFSTA, Essentials of Fire Fighting, 2nd Edition, Chapter 10
- IFSTA, Hose Practices, 7th Edition, Chapter 5

PREPARATION:

With medium diameter supply lines still prevalent in many fire departments, often it is necessary to lay more than one supply line to have adequate fire flow. Dual reverse lays can solve fire flow problems in most of these situations.

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HOW TO MAKE A DUAL REVERSE
HOSE LAY-SUPPLY LINE

OPERATIONS

KEY POINTS

- | OPERATIONS | KEY POINTS |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Spot apparatus | 1a. Temporarily
b. At standpipe, sprinkler connection |
| 2. Mount tailboard | 2a. Facing hose bed |
| 3. Split hose bed | 3a. As necessary |
| 4. Grasp hose | 4a. In hose bed
b. At loops |
| 5. Step down | 5a. To ground
b. Facing direction of travel |
| 6. Pull Hose | 6a. From each bed
b. Sufficient to reach standpipe or sprinkler connection |
| 7. Remove equipment | 7a. From engine
b. Adapters
c. Spanners
d. Nozzles
e. Hydrant wrench
f. Mallets g. Saves long walk |
| 8. Anchor supply lines | 8a. One student
b. At folds
c. By edges
d. With thumbs up
e. Both hands |
| 9. Give command "Lay Lines" | 9a. First student
b. Signal operator via mirror
c. Loudly
d. Operator drives to hydrant
1. 5-12 MPH
e. After second student reboards engine |

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HOW TO MAKE A DUAL REVERSE
HOSE LAY-SUPPLY LINE

OPERATIONS

KEY POINTS

10. Ground hose

10a. First student

- b. When third couplings hit ground or when 100' of LDH is grounded

11. Connect supply lines

11a. To standpipe or sprinkler system

12. Spot engine at water supply

12a. Hydrant

- b. Drafting source

13. Set chocks

13a. Second student

- b. In accord with CDF policy

14. Pull hose

14a. Second student

- b. Additional supply lines 25' minimum
- c. From hose bed
- d. Sufficient to reach pump discharges
- e. Facing direction of travel when stepping from tailboard

15. Break couplings

15a. Second student

- b. In hose bed
- c. Both lines

16. Connect supply lines

16a. Second student

- b. To pump discharges
- c. Both lines

17. Connect engine

17a. To hydrant

- b. Hard or soft suction
- c. Flush hydrant first

18. Pressurize supply line

18a. From engine to standpipe or sprinkler system

- b. At pump operator's command

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HOW TO MAKE A DUAL REVERSE
HOSE LAY-SUPPLY LINE

APPLICATION:

Student to practice until proficient.

EVALUATION:

A performance examination.

ASSIGNMENT:

To be determined by instructor(s).

POINTS

Spot engine at standpipe or sprinkler system.

TIME START

- | | | |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| 1. | Student dismounts engine and splits the hose bed. | <u>5</u> |
| 2. | Student grasps hose in each hose bed by the loops and pulls sufficient hose from the hose bed to reach the standpipe or sprinkler system. When stepping from engine tailboard, student shall face direction of travel. | <u>10</u> |
| 3. | Student will remove necessary equipment from the engine. As a minimum adapters, spanners, nozzles, hydrant wrench and/or mallet. | <u>10</u> |
| 4. | First student anchors both supply lines at a fold by the edges with thumbs up. | <u>10</u> |
| 5. | Second student reboards engine. | <u>5</u> |
| 6. | First student gives command "Lay Lines" loudly while visible in operator's mirror. | <u>5</u> |
| 7. | First student grounds hoses when third couplings hit the ground or when 100' of LDH is grounded. | <u>5</u> |
| 8. | First student attaches supply lines to standpipe or sprinkler system. | <u>10</u> |
| 9. | Operator spots engine at hydrant. | <u>5</u> |
| 10. | Second student sets chock blocks in accordance with CDF policy. | <u>5</u> |
| 11. | Second student pulls hose from the hose bed sufficient to reach pump discharges (25 feet minimum). Student faces direction of travel when stepping from tailboard. | <u>5</u> |
| 12. | Second student breaks couplings in hose bed. | <u>5</u> |

POINTS

- 13. Second student connects both hoselines to the pump discharges. 10
- 14. Second student flushes hydrant and connects engine to hydrant. 10

TIME STOP

ENTER TOTAL TIME: _____:

POINTS POSSIBLE: 100

POINTS DEDUCTED:

FINAL SCORE:

EVALUATOR'S SIGNATURE:

DATE:

COMMENTS:
