



Fire Protection Training

Procedures Handbook 4300

PUMPING

TOPIC: How to Mobile Pump - CDF Engine Models #1, #5, #14 or #15, Hydrostatic Pump

TIME FRAME: 30 Minutes

LEVEL OF INSTRUCTION:

BEHAVIORAL OBJECTIVE:

Condition: A Model #1, #5, #14 or #15 CDF engine with a hydrostatic pump, a suitable area to mobile attack, tank suction valve open, churn valve opened slightly and a preconnected 1 1/2 line with nozzle and nozzle person

Behavior: The student will engage pump, drive and mobile pump for 50 feet.

Standard: With a minimum of 70% accuracy in one minute and fifteen seconds

MATERIALS NEEDED:

- A Model #1, #5, #14 or #15 CDF engine with a hydrostatic pump
- Stop watch
- Suitable area for mobile pumping

REFERENCES: None

PREPARATION: Effective mobile pumping is possible in a variety of different terrains. In many cases, determining how to gain access to a fire is more difficult than extinguishing it. Mobile pumping operations are quick and relatively easy when done properly.



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HOW TO MOBILE PUMP-CDF
ENGINE MODELS #1, #5, #14 OR
#15, HYDROSTATIC PUMP

OPERATIONS

KEY POINTS

TIME START

1. Open tank suction (tank-to-pump) valve
2. Set transfer valve
3. Engage hydrostatic pump control
4. Place transmission
5. Set pressure relief valve
6. Release spring brake
7. Drive engine

- 1a. Allow engine to idle
- 2a. In "pressure" position
- 3a. In mobile pump position
- 4a. In first gear
- 5a. At 150 PSI
- 7a. While pumping
 - b. Along simulated fireline
 - c. Nozzle person applying water
 - d. In a continuous pattern for 50 feet

TIME STOP

EXAMINATION CONTINUES BUT IS NOT TIMED

8. Stop engine using service brake
9. Place transmission in neutral
10. Apply spring brake
11. Disengage pump
12. Return to starting position
13. Shut off engine

- 11a. Place in "road" position



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APPLICATION:

Student to practice until proficient.

EVALUATION:

A performance examination.

ASSIGNMENT:

To be determined by instructor(s).

Performance Examination

HOW TO MOBILE PUMP-CDF
ENGINE MODELS #1, #5, #14 OR
#15, HYDROSTATIC PUMP

POINTS

TIME START

- | | | |
|----|--|-----------|
| 1. | Start engine and allow it to idle | <u>5</u> |
| 2. | Place transfer valve in "pressure" position | <u>10</u> |
| 3. | Place hydrostatic pump control in mobile pump position | <u>10</u> |
| 4. | Place transmission in first gear | <u>10</u> |
| 5. | Set pressure relief valve at 150 PSI | <u>10</u> |
| 6. | Release spring brake | <u>5</u> |
| 7. | Drive engine forward along a simulated fireline | <u>10</u> |
| 8. | Nozzle person to apply water for 50 feet in a continuous pattern | <u>5</u> |

TIME STOP

- | | | |
|-----|---|-----------|
| 9. | Stop engine using service brake | <u>5</u> |
| 10. | Place transmission in neutral | <u>10</u> |
| 11. | Apply spring brake | <u>10</u> |
| 12. | Disengage pump and place in road position | <u>10</u> |

ENTER TOTAL TIME: _____:

POINTS POSSIBLE: 100

POINTS DEDUCTED:

FINAL SCORE:

4314.23

EVALUATOR'S SIGNATURE:

DATE:

COMMENTS:
