



MANIPULATIVE PERFORMANCE TEST

Procedures Handbook 4300

PUMPING

TOPIC/EQUIPMENT:	MOBILE PUMPING - MODEL 34 OR 35
CATEGORY:	I
POINTS POSSIBLE:	100
TIME ALLOWED:	One (1) minute, fifteen seconds (00:01:15)
BEHAVIORAL OBJECTIVE:	

Condition: Given a CAL FIRE Model 34 or 35 engine with a full tank of water and the following items and condition:, tank to pump valve open, tank fill valve set appropriately, suction inlet valve closed, a pre-connected 15 – 25 foot length of 1-½” or 1-¾” hose with combination nozzle and a suitable area to mobile attack.

Behavior: The student will spot the engine, brief the assistant, direct the assistant to pull the appropriate pre-connected hoseline, adjust auxiliary pump 100 PSI (± 20). The student will mobile pump and assistant mobile attack for at least 50 feet. After completing the evolution, the apparatus will be returned to its original condition.

Standard: With a minimum 80% accuracy, within one (1) minute, fifteen seconds (00:01:15), according to the score sheet

MATERIALS NEEDED:

- One (1) CAL FIRE Model 34 or 35 engine
- One (1) 15 – 25 ft. length of 1-½” or 1-¾” hose with nozzle and shut off bale
- One (1) assistant
- Appropriate PPE per CAL FIRE policy for student and assistant
- One (1) Stopwatch
- One (1) Clipboard
- Red pens for scoring
- Suitable area for mobile pumping
- Traffic cones, flagging or other markers to delineate mobile exam course



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PROCEDURES:

The examination will begin when the proctor has given the student the scenario to perform and signals the student to begin. Time starts when the spring brake is set. The time will end when the evaluator has determined an effective water stream has been produced. The exam will end when the student, either verbally or by conduct, indicates the exam has been completed. The evaluator will continually check to see that the pump pressure is properly set and that valves and controls are in the proper position.

SCORING:

Should a student need to retest, any successful retest will achieve a passing score of no more than 80 points. (Academy only)

A score of "zero" will be given if during the examination the student performs any step or procedure that would jeopardize the safety of personnel or cause damage to the equipment (i.e. relief valve not set, no fire stream produced, etc.)

SPECIAL NOTES:

Before the examination begins, the student will be allowed to ask any clarifying questions and inspect the equipment. Once the examination begins the evaluator shall not answer any questions or intercede in any way unless safety violations occur that would injure personnel or damage equipment. The examination will begin with the student, in appropriate PPE per CAL FIRE policy, seated in the cab of the engine with the door closed and seat belt on. Assistants do not need to have wildland web gear, shrouds down, or goggles on while in the engine cab.

If using a Model 34 engine for testing purposes during off road (wildland) conditions, 4 wheel drive shall be engaged. If a Model 34 is used on road (dirt, gravel, paved conditions) 4 wheel drive may be engaged at the discretion of the proctor. There is no 4 wheel drive requirement for a Model 35 engine.

Score Sheet

MOBILE PUMPING A MODEL 34 OR 35

DATE ____ / ____ / ____ TEST # ____ RETEST # ____ UNIT # ____

STUDENT'S NAME _____

EVALUATOR'S NAME _____

STEPS AND PROCEDURES

POINTS

1. Respond Code 3 to simulated incident per CAL FIRE policy and procedures and notify ECC of arrival

Pass/Fail

- a. Driving at a safe speed
- b. All occupants wearing seat belt, windows up
- c. Headlights and code three lights on, no siren
- d. Student must verify that the assistant is wearing all appropriate PPE per CAL FIRE policy before the assistant pulls any hose
- e. Gloves are to be used any time equipment is used or when chock blocks are set

2. Spot engine safely in order to prepare for mobile pumping operations

Pass/Fail

- a. Transmission to neutral
- b. Set spring brake

TIME STARTS

3. Prepare the engine and brief assistant for mobile attack

Pass/Fail

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Score Sheet

- a. Ensure all windows are rolled up prior to beginning of evolution
 - b. Provide assistant with safety briefing advising of “Anchor Point” and “Safety Zone” as a minimum
4. Have an assistant deploy the correct hoseline for mobile pumping 10
- a. Hoseline cannot be deployed from the back of the engine or longer than 25'
5. Start auxiliary pump and adjust throttle to 100 psi (\pm 20 PSI) 10
6. Engage front axle if appropriate 10
7. Shift transmission into the proper gear 10
8. Have assistant charge hoseline 10
- a. Assistant may charge the line at any time during this step as long as the student has advised them to do so
 - b. Student confirms that the evaluator heard the “Anchor Point” established with the assistant

TIME STOPS- When the assistant opens the nozzle and flows water

9. Release spring brake Pass/Fail
10. Drive along a simulated fireline; controlling the engine’s speed with the foot throttle and/or service brake, as necessary. (Evaluator will tell the student when the wetline is complete) 10
- a. Engine will move at least 50 feet while applying an effective fire stream in a continuous wetline
 - b. Alternating nozzle pattern from medium fog to straight stream

Score Sheet

- c. Ensure safety of assistant at all times
- d. Ensure no damage to engine or equipment occurs

11. Stop engine using service brake 10

- a. Notify the assistant you are shutting down the operation
- b. Do not “slam” on the brakes, make a controlled stop
- c. Spot engine in a safe location

12. Place transmission in neutral Pass/Fail

13. Apply spring brake Pass/Fail

14. Shut down mobile pumping operation 10

- a. Notify assistant to shut down the pre-connected hoseline

15. Idle pump by adjusting hand throttle 10

- a. Idle for thirty seconds cool down

16. Turn off auxiliary pump switch Pass/Fail

17. Return engine to response ready condition 10

- a. Re-bed hose
- b. Refill the tank with water –if instructed by evaluator

EXAM ENDS

Score Sheet

ENTER TOTAL TIME: _____
POINTS POSSIBLE: _____ 100
POINTS DEDUCTED: _____
FINAL SCORE _____

COMMENTS:
