

## ENGINEER CANDIDATE CERTIFICATION

# **BRUSH APPARATUS – MOBILE PUMPING: PTO & AUXILIARY PUMP**

BUMPER LINE: 50' 1 ½"

NOZZLE: 3/8" Smooth Bore Tip

MAXIMUM TIME: N/A

1       Wear Proper PPE         •       Wear appropriate clothing and footwear for incident         •       Do not wear helmet in the cab         2       Ensure apparatus has functioning safety line, 50ft. minimum, during ALL wildland operations         3       Check for crew and apparatus security/seat belts before apparatus moves         •       All compartment and crew doors closed         •       All crew seated and wearing seat belts         •       Once Spring Brake is released, check for door and seatbelt warning lights         4       Turn on emergency lights and headlights         5       Turn Opticom Off         6       Monitor mobile radio at all times         7       Shifts apparatus in 4WD High or 4WD Low Range if necessary         •       HIGH is 20MPH Max         8       Follows driving directions correctly and spots apparatus as directed by Rater         9       Sets Parking Brake         10       Transmission in Neutral         11       Communicate safe positioning of Firefighters during mobile pumping operations and the appropriate hand signals to be utilized by Firefighters         12       Utilizes Panel in cab to engage PTO Pump         13       Switch Toggle to ON         •       Ensure two lights illuminate         •       "PTO Engaged"	TASK #	TASK
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TASK #	ТАЅК
17	Ensure firefighter has hose line connected and correct discharge opened
18	Verbally and visually, check for firefighter readiness and signal for water, return signal properly
19	When directed by Rater, begin Mobile Pumping with PTO Pump
	Can operate in 2WD or 4WD
	Release Parking Brake
	Slowly release brake pedal to drive
	<ul> <li>Shift to lower gear if necessary, to obtain proper engine RPM and pump pressure</li> </ul>
20	Ensure Firefighter has water flowing
	Verify pump pressure on center console gauge
21	If appropriate, selects the correct percentage of foam for application
	0.3% Direct Attack & Pre-Treat Brush
22	Maintain speed of the Brush Apparatus with the Firefighter's speed on the handline
23	Maintain visual of Firefighter at all times
24	Consider utilizing left foot braking and right foot on accelerator to maintain proper, engine RPM and
	pump pressure
25	When directed by Rater, stop Brush Apparatus, set Parking Brake, transition from PTO Pump to
	Auxiliary Pump
	Utilize radio, voice, hand signals, or horn signals to verify shutdown with firefighter on the line
26	Toggle (I/O) switch to "ON"
27	Ensure Yellow "Glow Plug" light turns OFF
	OK to start
28	Depress Start Button
	Listen for Motor to turn on
29	Ensure Prime by checking Pressure Gauge
	If pressure is low or zero, prime pump
30	Operate Throttle (Turtle/Hare) to obtain proper pump pressure
31	Ensure Firefighter has water flowing
	Verify pump pressure on center console gauge
	Pump pressure is within 15 psi of calculated pressure
32	When directed by Rater, release the Parking Brake and Mobile Pump to objective
33	Ensure all Engine gauges are in normal range
34	Ensure all Pump gauges are in normal range
	• Maintain water tank at a minimum of ¼ full for apparatus and crew protection during fire-
	fighting operations
	<ul> <li>High Engine Temp Light (Lower Right) activates at 230*</li> </ul>
	Low Oil Pressure (Lower Left) activates at 10psi
	Overspeed Alarm will activate at 3000 rpm
35	Demonstrates safe and functional driving speed for off road conditions
	Does not operate in reverse
36	Ensure firefighter safety during mobile pumping operations
37	When directed by Rater, stop Brush Apparatus, set Parking Brake. This completes the Mobile
	Pumping Operation



MOBILE PUMPING - CRITICAL ERRORS Any critical error constitutes a failure

#### SAFETY VIOLATION

Errors that could cause injury, be life threatening or cause property damage

#### **EXAMPLES:**

- Failing to set parking brakes and vehicle rolls after seat belt is removed from driver
- Failing to recognize PTO and Transmission engaged correctly for mobile pumping operation
- Failing to operate Auxiliary pump appropriately for mobile pumping operation
- Running pump dry
- Charging hose before firefighter is ready for water
- Opening PTO or Auxiliary pump in a manner causing unsafe pump pressure to firefighter.
- A continuous discharge from an incorrect discharge without corrective action
- Opening an incorrect discharge wetting personnel or having water shoot across street
- Runs tank out of water
- Excessively high engine RPM without corrective action
- Backing apparatus without assistance
- Vehicle rolls while equipment is being removed

#### Fails to complete hose lay as outlined

## Fails to demonstrate safe and functional speed and path while driving and mobile pumping

#### **Operates Mobile Pumping in reverse**

## Fails to deliver water before exercise is stopped

• If candidate indicates that the evolution is complete, the candidate cannot go back and correct the error of not delivering water

## Pump Pressure utilizing Auxiliary pump is not within 15 psi of calculated pressure

EXAMPLE: If calculated pressure is 150 psi, the candidate must have a pressure between 135 and 165. A pressure of 134 or lower, or 166 or higher is unacceptable

\*\*\*If at any time, which could include prior to or after any portion of this evolution, the Rater determines that your actions create a hazard which may result in injury to any person, damage to property, other vehicles, or the apparatus you will be IMMEDIATELY disqualified from any certification process and asked to turn the apparatus over to the Rater\*\*\* #

1.	Confirm with Rater on the shutdown of operations
	Check verbally and visually
	Utilize radio if necessary
	• Select safe location to park apparatus to restore systems and equipment to standby
2.	Verbally and visually inform firefighter on the hose line of shutdown
	Utilize radio, voice, or hand signals
3.	Throttle down Auxiliary pump to idle slowly
4.	Switch (I/O) Toggle to off
5.	Turn off all emergency lights if safe to do so
6.	Shut down engine, if safe to do so
7.	Turn on 4-way flashers
8.	Place wheel blocks appropriately
9.	Relieve pressure on the pump
	Can be done using the Tank Fill or open discharge/intake valve and corresponding bleeder
	valve
10.	Secure all equipment and the apparatus (nozzles, hose, compartment doors, etc.)
	<ul> <li>All equipment should be returned to same compartment where it was originally found</li> </ul>
11.	Check water tank level, refill if necessary
	• Physically look in tank on top of the apparatus or for water discharging from overflow on tires
	<ul> <li>Do not rely solely on panel lights or gauges</li> </ul>
12.	Perform safety walk around
	<ul> <li>Verify all previous steps are completed and perform any that were missed</li> </ul>
13.	Notify Rater that the apparatus is "Road Ready"
	<ul> <li>Except for picking up wheel blocks and leaving on 4-way flashers</li> </ul>
NOTES:	
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