

DRIVER/OPERATOR – PUMPER NFPA 1002, 2014 EDITION

Warren Township Fire Department

Pumper Driver/Operator Guidelines for Qualifications

Summary of Tasks contained therein;

- TASK:** Drive a fire department pumper safely over a predetermined route on a public way.
- TASK:** The candidate shall perform, document, and complete daily routine tests, inspections, and servicing functions on specified systems and components so that the operational status of pumper is verified.
- TASK:** Back a vehicle from a roadway into restricted space on both the right and left sides of the vehicles. (Alley Dock)
- TASK:** Maneuver fire department pumper around obstructions on a roadway while moving forward and in reverse. (Serpentine test)
- TASK:** Turn a fire department pumping apparatus around 180 degrees within a confined space.
- TASK:** Maneuver a fire department pumping apparatus in restricted horizontal and vertical clearances. (Diminishing Clearance)
- TASK:** Drive a fire department pumper using defensive driving techniques under **simulated** emergency conditions, so that control of the vehicle is maintained.
- TASK:** Perform and document the readiness inspection of a fire department pumper. Part 2
- TASK:** Perform and document the readiness inspection of a fire department pumper. Part 1
- TASK:** Using a fire department pumping apparatus, produce an effective fire stream to a hand line utilizing internal water tank supply and transition to a pressurized water supply.
- TASK:** Using a fire department pumping apparatus, produce an effective fire stream to a hand line utilizing **internal water tank supply, pressurized water source, static water source (drafting)**.
- TASK:** Pump a supply line of 2 ½” or greater so that the correct pressure and flow are provided to the next pumper in the relay.
- TASK:** Produce a foam fire stream so that properly proportioned foam is delivered. (Use the competency that is appropriate for the type of foam equipment that the agency has.)
- TASK:** Supply water to a fire department standpipe system, given specific system information and a fire department pumper, so that water is supplied to the system at the correct volume and pressure.
- TASK:** Supply water to a sprinkler system, given specific system information and a fire department pumper, so that water is supplied to the system at the correct pressure.

Evaluator/Candidate Comments:

Evaluator (Print & Sign)

Date

Candidate

Date

DRIVER/OPERATOR – PUMPER NFPA 1002, 2014 EDITION

Candidate: _____

Date: _____

FD ID # _____

STANDARD: 4.2.1; (2) NFPA 1002, 2014 Edition	TASK: The candidate shall perform, document, and complete daily routine tests, inspections, and servicing functions on specified systems and components so that the operational status of pumper is verified.				
PERFORMANCE OUTCOME: The ability to use hand tools, recognize system problems and correct any deficiency noted, with completed departmental forms, according to policies and procedures of Authority Having Jurisdiction.					
CONDITIONS: Given a fire department pumping apparatus and the provided vehicle inspection checklist.					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Inspect and walk around apparatus as they approach, looking for signs of damage or leaks				
2.	Check that stepping surfaces and hand rails are clean, secure, and in good working order				
3.	Check batteries for fluid level,(if applicable)corrosion, and tie downs				
4.	Check braking system fluid level or air pressure				
5.	Check coolant system for fluid levels, leaks, cleanliness				
6.	Check electrical system, including warning devices, headlights, running lights, turn signals, and warning lights				
7.	Check fuel level				
8.	Check hydraulic fluids for level and leaks (if applicable)				
9.	Check engine oil for fluid level and leaks				
10.	Check tires for air pressure and wear				
11.	Check steering system excessive looseness				
12.	Check engine belts for tightness and wear				
13.	Check tools, appliances, equipment, lighting				
14.	Check windshield, wiper blades, and washer fluid level				

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15.	Start apparatus; monitor gauges and control devices				
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No.	TASK STEPS	FIRST TEST		RETEST	
16.	Recognize system problems; document and correctly report any deficiencies				
17.	Check all exterior equipment for general condition				
18.	Check the hose bed for proper hose loading				

Retest Approved By:	Retest Evaluator:
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Evaluator/Candidate Comments:

Evaluator (Print & Sign)	Date	Candidate	Date
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DRIVER/OPERATOR – PUMPER NFPA 1002, 2014 EDITION

STANDARD: 4.3.1 NFPA 1002, 2014 Edition	TASK: Drive a fire department pumper safely over a predetermined route on a public way.				
PERFORMANCE OUTCOME: The candidate shall be able to drive a fire department pumper on a predetermined course.					
CONDITIONS: Given a fire department pumper and a predetermined route.					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Four left turns and four right turns				
2.	A straight section of urban street or rural two-lane road at least a mile in length				
3.	One through-intersection and two intersections where a stop has to be made				
4.	One railroad crossing				
5.	One curve, either left or right				
6.	A section of limited-access highway that includes a conventional ramp entrance and exit and a section of road long enough to allow lane changes				
7.	A down-grade steep enough and long enough to require downshifting and braking				
8.	An up-grade steep enough and long enough to require gear changing to maintain speed				
9.	One underpass or low clearance bridge or obstacle				
10.	Correctly operate passenger restraint devices; wear seat belts				
11.	Maintain safe following distances				
12.	Maintain control of vehicle while accelerating, decelerating, and turning (given road, weather, and traffic conditions)				
13.	Display ability to operate under adverse environmental or driving surface conditions				
14.	Demonstrate proper use of automotive gauges				
Retest Approved By: _____		Retest Evaluator: _____			

Evaluator/Candidate Comments:

Evaluator (Print & Sign)	Date	Candidate	Date
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DRIVER/OPERATOR – PUMPER NFPA 1002, 2014 EDITION

STANDARD: 4.3.2 NFPA 1002, 2014 Edition	TASK: Back a vehicle from a roadway into restricted space on both the right and left sides of the vehicles. (Alley Dock)				
PERFORMANCE OUTCOME: Back a vehicle from a roadway into restricted spaces on both the right and left sides of the vehicle.					
CONDITIONS: Given a fire department pumping apparatus, a spotter for backing, cones, a restricted space 12 feet in width, requiring 90-degree right- or left-hand turn from the roadway.					
NO.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Adjust and use mirrors for backing				
2.	Driver/passenger(s) wearing seat belts				
3.	Spotter used to back apparatus safely				
4.	Completed skill correctly without crossing over or striking cones				
5.	Driver spots apparatus within 12 inches of back wall				
RETEST APPROVED BY:		RETEST EVALUATOR:			

Evaluator/Candidate Comments:

Evaluator (Print & Sign)

Date

Candidate

Date

DRIVER/OPERATOR – PUMPER NFPA 1002, 2014 EDITION

STANDARD: 4.3.3 NFPA 1002, 2014 Edition	TASK: Maneuver fire department pumper around obstructions on a roadway while moving forward and in reverse. (Serpentine test)				
PERFORMANCE OUTCOME: Maneuver a vehicle around obstructions on a roadway while moving forward and in reverse.					
CONDITIONS: Given a fire department pumping apparatus, a spotter for safety while backing, cones, and a roadway with obstructions.					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Adjust and use mirrors for backing				
2.	Driver/passenger wearing seat belts				
3.	Completed skill correctly without crossing over or striking cones				
RETEST APPROVED BY:		RETEST EVALUATOR:			

Evaluator/Candidate Comments:

Evaluator (Print & Sign)

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DRIVER/OPERATOR – PUMPER NFPA 1002, 2014 EDITION

STANDARD: 4.3.4 NFPA 1002, 2014 Edition	TASK: Turn a fire department pumping apparatus around 180 degrees within a confined space.				
PERFORMANCE OUTCOME: The candidate shall turn a fire department vehicle 180 degrees within a confined space.					
CONDITIONS: Given a fire department pumping apparatus, a spotter for backing, cones, and a confined area where the vehicle cannot turn around without stopping and backing up.					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Adjust and use mirrors for backing				
2.	Driver/passengers wearing seat belts				
3.	Completed skill correctly without crossing over or striking cones				
RETEST APPROVED BY:		RETEST EVALUATOR:			

Evaluator/Candidate Comments:

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DRIVER/OPERATOR – PUMPER NFPA 1002, 2014 EDITION

STANDARD: 4.3.5 NFPA 1002, 2014 Edition	TASK: Maneuver a fire department pumping apparatus in restricted horizontal and vertical clearances. (Diminishing Clearance)				
PERFORMANCE OUTCOME: The candidate shall maneuver a fire department vehicle in areas with restricted vertical and horizontal clearance. (Diminishing Clearance Exercise)					
CONDITIONS: Given a fire department pumping apparatus, cones, and a course that requires the candidate to move through an area of restricted horizontal clearance.					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Adjusted and used mirrors				
2.	Driver/passengers wear seat belts				
3.	Completed skill correctly without crossing over or striking cones				
4.	When asked, the student shall correctly provide the height and width of the apparatus.				
RETEST APPROVED BY:		RETEST EVALUATOR:			

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DRIVER/OPERATOR – PUMPER NFPA 1002, 2014 EDITION

STANDARD: 4.3.6 NFPA 1002, 2014 Edition	TASK: Drive a fire department pumper using defensive driving techniques under simulated emergency conditions, so that control of the vehicle is maintained.				
PERFORMANCE OUTCOME: The candidate will safely complete the task operating the department pumper on a predetermined route provided by the Authority Having Jurisdiction.					
CONDITIONS: Given a fire department pumper and a predetermined route under simulated emergency conditions.					
NO.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Ensure vehicle is prepared for departure				
2.	Ensure all personnel are seated with safety belts fastened				
3.	Utilize emergency lights and siren				
4.	Enter traffic in a safe manner				
5.	Use defensive driving techniques				
	a. Maintain safe following distances				
	b. Maintain control of vehicle while accelerating				
	c. Maintain control of vehicle while decelerating				
	d. Maintain control of vehicle while turning				
	e. Maintain reasonable speed for prevailing conditions (environmental; driving surfaces; road, weather, and traffic conditions)				
6.	Bring apparatus to a safe stop				
7.	Proper use of automotive gauges				
RETEST APPROVED BY: _____			RETEST EVALUATOR: _____		

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DRIVER/OPERATOR – PUMPER NFPA 1002, 2014 EDITION

STANDARD: 4.3.7 NFPA 1002, 2014 Edition	TASK: Perform and document the readiness inspection of a fire department pumper.				
PERFORMANCE OUTCOME: The candidate shall conduct and document a readiness inspection. Use hand tools, recognize system problems and correct any deficiency noted, with completed departmental forms, according to policies and procedures of Authority Having Jurisdiction.					
CONDITIONS: Given a fire department pumping apparatus and using the provided inspection checklist,					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Check water tank for level and leaks in the system				
2.	Check foam tank for level and leaks (if applicable)				
3.	Exercise pump valves				
4.	Check and clean intake strainer				
5.	Check pump gearbox for proper oil and traces of water				
6.	Chock wheels				
7.	Start apparatus and place apparatus in pump gear				
8.	Operate the pump primer with all pump valves closed (Note: vacuum reading)				
9.	Operate the changeover valve while operating from tank or other water source (if applicable)				
10.	Check packing glands for excessive leaks (if applicable)				
11.	Operate the pump pressure control device(s)				
12.	Check and operate all fixed systems and equipment (if applicable)				
	a. Generator				
	b. Fixed lighting equipment				
	c. Rescue equipment				
	d. Gas-powered tools				

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No.	TASK STEPS	FIRST TEST		RETEST	
	e. Air compressor/cascade system				
	f. Other (AHJ items or equipment)				
13.	Recognize and correct system problems				
14.	Correct any deficiency noted according to policies and procedures				
15.	Proper use of hand tools				
16.	Document inspection and maintenance performed				

RETEST APPROVED BY:	RETEST EVALUATOR:
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Evaluator/Candidate Comments:

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DRIVER/OPERATOR – PUMPER NFPA 1002, 2014 EDITION

STANDARD: 5.1.1 NFPA 1002, 2014 Edition	TASK: Perform and document the readiness inspection of a fire department pumper.				
PERFORMANCE OUTCOME: The candidate shall use hand tools, recognize system problems and correct any deficiency noted, with completed departmental forms, according to policies and procedures of Authority Having Jurisdiction.					
CONDITIONS: Given a fire department pumping apparatus and using the provided inspection checklist.					
NO.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Inspect and walk around apparatus as they approach, looking for signs of damage or leaks				
2.	Check that stepping surfaces and hand rails are clean, secure, and in good working order				
3.	Check batteries for fluid level(if applicable),corrosion, and tie downs				
4.	Check braking system fluid level or for air level and drain air tanks				
5.	Check coolant system for fluid levels, leaks, cleanliness				
6.	Check electrical system, including warning devices, headlights, running lights, turn signals, and warning lights				
7.	Check fuel level				
8.	Check hydraulic fluids for level and leaks (if applicable)				
9.	Check engine oil for fluid level and leaks				
10.	Check tires for pressure and wear				
11.	Check steering system for range of motion and excessive looseness				
12.	Check engine belts for tightness and wear				
13.	Check tools, appliances, equipment, lighting				
14.	Check windshield, wiper blades, and washer fluid level				
15.	Start apparatus; monitor gauges and control devices				
16.	Document and correctly report any deficiencies				
17.	Check all exterior equipment for general condition				
18.	Check the hose bed for proper hose loading				
19.	Check water tank for level and leaks in the system				
20.	Check foam tank for level and leaks (if applicable)				
21.	Exercise pump valves				

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Equipment *(continued)*

NO.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
24.	Chock wheels				
25.	Start apparatus and place apparatus in pump gear				
26.	Operate the pump primer with all pump valves closed (Note: vacuum reading)				
27.	Operate the changeover valve while operating from tank or other water source (if applicable)				
28.	Check packing glands for excessive leaks (if applicable)				
29.	Operate the pump pressure control device(s)				
30.	Check and operate all fixed systems and equipment (if applicable)				
31.	a. Generator				
	b. Fixed lighting equipment				
	c. Rescue equipment				
	d. Gas-powered tools				
	e. Air compressor/cascade system				
	f. Other (AHJ items or equipment)				
32.	Operate the pump pressure control device(s)				
33.	Identify system problems; document inspection and maintenance performed and correct deficiencies				
34.	Correct use of hand tools				
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DRIVER/OPERATOR – PUMPER NFPA 1002, 2014 EDITION

STANDARD: 5.2.1 NFPA 1002, 2014 Edition	TASK: Using a fire department pumping apparatus, produce an effective fire stream to a hand line utilizing internal water tank supply and transition to a pressurized water supply.				
PERFORMANCE OUTCOME: The fire apparatus driver/operator shall demonstrate pump operations for supplying a pre-connected attack line.					
CONDITIONS: Given a fire department pumping apparatus and assistants to assist with the hydrant and the hose lines. Supply line should be 2 ½” or larger.					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Candidate calculates appropriate discharge pressure, + or – 10 psi				
2.	Driver/passengers wearing seat belts				
3.	Stop at hydrant, even with or slightly beyond (within 10 feet)				
4.	Upon signal from hydrant person, proceed to fire at a reduced speed				
5.	Stops apparatus, set brake				
6.	Engage pump				
7.	Chock wheels				
8.	Properly clamp supply hose until needed (if applicable)				
9.	Open tank to pump valve				
10.	Place transfer valve in volume pressure (if applicable)				
11.	Check attack line for placement				
12.	Open to correct discharge and fill attack line				
13.	Gradually develop Pump Discharge Pressure in attack line				
14.	Set relief valve				
15.	Make supply line connection to intake				
16.	Release clamp or signal for water				
17.	Transition from tank water to hydrant supply				

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No.	TASK STEPS	FIRST TEST		RETEST	
18.	Monitor discharge pressure and refill booster tank (if possible)				
19.	Complete skill in a safe manner and without creating a water hammer				
20.	Monitor system for overheating and operate auxiliary cooling systems (if applicable)				
RETEST APPROVED BY:		RETEST EVALUATOR:			

Evaluator/Candidate Comments:

Evaluator (Print & Sign)

Date

Candidate

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DRIVER/OPERATOR – PUMPER NFPA 1002, 2014 EDITION

STANDARD: 5.2.1 NFPA 1002, 2014 Edition	TASK: Using a fire department pumping apparatus, produce an effective fire stream to a hand line utilizing internal water tank supply, pressurized water source, static water source (drafting) ,				
PERFORMANCE OUTCOME: The fire apparatus driver/operator shall demonstrate pump operations for supplying a pre-connected attack line.					
CONDITIONS: Given a fire department pumping apparatus and assistants.					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Candidate calculates appropriate discharge pressure, + or – 10 psi.				
2.	Driver/passengers wearing seat belts				
3.	Stop apparatus, set brake				
4.	Engage pump				
5.	Chock wheels				
6.	Open tank to pump valve				
7.	Check attack line for placement				
8.	Open to correct discharge and fill attack line				
9.	Gradually develop Pump Discharge Pressure in attack line				
10.	Set relief valve				
11.	Monitor discharge pressure				
12.	Monitor system for overheating and operate auxiliary cooling systems (if applicable)				
RETEST APPROVED BY: _____		RETEST EVALUATOR: _____			

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DRIVER/OPERATOR – PUMPER NFPA 1002, 2014 EDITION

STANDARD: 5.2.2 NFPA 1002, 2014 Edition	TASK: Pump a supply line of 2 ½” or greater so that the correct pressure and flow are provided to the next pumper in the relay.				
PERFORMANCE OUTCOME: The candidate shall be able to pump a supply line to another pumper.					
CONDITIONS: Given two fire department pumpers, 2 ½” inch or larger supply line, and a water source.					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Connect relay pumper to attack pumper				
2.	Relay pumper lays supply line from attack pumper to water supply				
3.	Connect all hose lines				
4.	Relay Pumper: a. When connections are complete, increase pressure using throttle b. Increase pressure by opening throttle c. Open throttle until desired pump pressure is reached d. Switch from pressure to volume mode (multi-stage pumps only) e. Ensure largest pump capacity at hydrant or static water source				
5.	Attack pumper: a. When water reaches the attack pumper, open intake valve b. Adjust throttle for increase in intake pressure c. Fill tank (if possible) d. Close tank-fill valve e. Close tank-to-pump valve f. Adjust throttle for proper pump pressure				
6.	Relay pumper increases pressure as required to maintain desired intake pressure at attack pumper				
7.	Shut down in reverse order				
RETEST APPROVED BY: _____			RETEST EVALUATOR: _____		

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DRIVER/OPERATOR – PUMPER NFPA 1002, 2014 EDITION

STANDARD: 5.2.3 NFPA 1002, 2014 Edition	TASK: Produce a foam fire stream so that properly proportioned foam is delivered. (Use the competency that is appropriate for the type of foam equipment that the agency has.)				
PERFORMANCE OUTCOME: The candidate shall demonstrate the ability to operate foam-proportioning equipment, connect foam stream equipment, and produce an effective fire stream supplied with foam.					
CONDITIONS: Given a fire department pumping apparatus, foam concentrate, foam eductors or apparatus mounted foam system, foam nozzle and other related equipment, hose line, and a hose team.					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Assemble a foam layout, appropriate for the type of foam being used, with an eductor or proportioner connected according to manufacturer's specifications (if applicable)				
2.	Set concentrate percentage on eductor (or proportioner) for specific foam application				
3.	Set appropriate pump pressure for foam layout				
4.	Deliver properly proportioned foam				
5.	Clean / flush system when skill is complete; identify proper cleaning or flushing procedures for equipment utilized per manufacturer's recommendations				
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DRIVER/OPERATOR – PUMPER NFPA 1002, 2014 EDITION

STANDARD: 5.2.4 NFPA 1002, 2014 Edition	TASK: Supply water to a fire department standpipe system, given specific system information and a fire department pumper, so that water is supplied to the system at the correct volume and pressure.				
PERFORMANCE OUTCOME: The driver/operator shall supply appropriate pressure based on needed fire flow.					
CONDITIONS: Given a fire department pumping apparatus, fire department connection, supply hose, and a hydrant or static source.					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Driver/passengers wearing seat belts				
2.	Position and stop apparatus, set brake and chock wheels				
3.	Make connection to the building's standpipe system				
4.	Engage pump (select volume, if applicable)				
5.	Candidate calculates correct discharge pressure, + or – 5 psi				
6.	Open to correct discharge(s) and fill standpipe supply line(s)				
7.	Make supply line connection from water source to apparatus intake (select water supply hydrant or static source)				
8.	Transition from internal water tank supply to external water supply (Note: Demonstrate hydrant and static source water supplies)				
9.	Gradually develop pump discharge pressure in supply line(s)				
10.	Set relief valve and monitor discharge pressure				
11.	Monitor system for overheating and operate auxiliary cooling systems (if applicable)				
RETEST APPROVED BY: _____		RETEST EVALUATOR: _____			

Evaluator/Candidate Comments:

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Date

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DRIVER/OPERATOR – PUMPER NFPA 1002, 2014 EDITION

STANDARD: 5.2.4 NFPA 1002, 2014 Edition	TASK: Supply water to a sprinkler system, given specific system information and a fire department pumper, so that water is supplied to the system at the correct pressure.				
PERFORMANCE OUTCOME: The driver/operator shall supply appropriate pressure.					
CONDITIONS: Given a fire department pumping apparatus, fire department connection, supply hose, and a hydrant or static source.					
No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Driver/passengers wearing seat belts				
2.	Position and stop apparatus, set brake and chock wheels				
3.	Make connection to the building's sprinkler system				
4.	Engage pump (select volume, if applicable)				
5.	Candidate calculates correct discharge pressure, + or – 5 psi				
6.	Open correct discharge(s) and fill sprinkler supply line(s)				
7.	Make supply line connection from water source to apparatus intake (select water supply hydrant or static source)				
8.	Transition from internal water tank supply to external water supply (Note: Demonstrate hydrant and static source water supplies)				
9.	Gradually develop pump discharge pressure in supply line(s)				
10.	Set relief valve and monitor discharge pressure				
11.	Monitor system for overheating and operate auxiliary cooling systems (if applicable)				
RETEST APPROVED BY:		RETEST EVALUATOR:			

Evaluator/Candidate Comments:

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