

**MARMORA VOLUNTEER FIRE COMPANY**  
**APPARATUS CHARACTERISTICS AND CONCEPTS**  
**STANDING OPERATING PROCEDURES (SOP)**

**CHAPTER 1**  
**GENERAL**

**401:1-1-1. PURPOSE.** The purpose of this SOP is to provide some basic characteristics and concepts for the use of each MVFC vehicle. See Annex A, this SOP.

**401:1-1-2. GENERAL.** The procedures in this SOP may not keep up to the changing situations of the MVFC, as the requirements of the situation are paramount over these procedures established.

**CHAPTER 2**  
**CHARACTERISTICS AND CONCEPTS**

**401:2-2-1. CHARACTERISTICS.** Vehicle characteristics are based on specifications and equipment carried. Equipment from time to time is rotated to other vehicles, based on updates and improvements in fire fighting techniques and procedures.

**401:2-2-2. VEHICLE CONCEPTS.** The concepts provided are flexible and dynamic, in that they can change based on the requirements of the Incident Commander (IC) for the emergency encountered at the scene.

**401:2-2-3. MUTUAL AID APPARATUS.** A list of mutual aid apparatus and basic size of hose, length of hose, tank size, and pump size are provided in Annex B this SOP.

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**ANNEXES**

**A--APPARATUS CHARACTERISTICS AND CONCEPT**  
**B--MUTUAL AID APPARATUS**

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\*This SOP supersedes SOP 401, dated 1 July 2002

**ANNEX A**

**APPARATUS CHARACTERISTICS AND CONCEPT**

**1. 15-11--SAFEY/FIRE PRFVENTION/FIRST RESPONDER.** This vehicle is a four door Ford F250 and the following-applies.

- a. The vehicle shall be under the control of the Chief Officers.
- b. The vehicle is normally used for Safety Programs, Fire Prevention Programs, other details and as the back-up First Responder vehicle for 15-12.
- c. The Chief may delegate the use of the vehicle for personal use, while in a reasonable response time of the district.
- d. The Chief may allow other members to use the vehicle as he sees fit for other company purposes, i.e., training, trips, transportation of personnel to the scene, traffic control, etc.
- e. Family members are permitted in the vehicle for other than company business.
- f. The vehicle will normally be stored in Truck Bay #1, Station 15 for response and for use.
- g. The vehicle can be used as an alternate command post.
- h. When using the vehicle it will be signed out on the Truck Board in Truck Bay #1 by the member using it, and with the purpose and destination indicated.

**2. 15-12--FIRST RFSPONDER VEHICLE.** This vehicle is a four door 2002 Ford Expedition and the following-applies.

- a. This is the primary vehicle for all First Responder calls.
- b. It can be used as an alternate command post.
- c. Normally the vehicle will be assigned during the hours of night operation from 1800 hours through 0600 hours the following day for First Responder calls.
- d. The vehicle will normally be driven by the qualified Emergency Medical Technician (EMT) with the First Responder as the passenger.

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e. On the evening of operation, the assigned EMT will inventory the vehicle, and take it home for emergency response.

f. On cold evenings the vehicle will be plugged into a power source to keep the internal heating system operational.

g. Upon termination of the night operations at 0600 hours the vehicle will be fueled, rechecked for proper storage, and parked in Bay #1, Station 15.

h. This vehicle will not normally be used for company business, training, or other tasks without the approval of the Chief

i. The First Responder Captain is responsible for the vehicle and the First Responder Program.

**3. 15-30—ENGINE/PUMPER.** This vehicle is a 1999 Saulsbury Pumper with a 1500 GPM Waterous Two (2)-stage pump, and carries 1,000 gallons of water. The following applies:

a. **Structure Fires.**

- First out day or night.
- Conduct primary search and rescue.
- Set up positive pressure fan.
- Extinguish fire.
- Receives water from 15-45.
- Pushes water to 15-60.
- Ability to lay in 1,000 feet of 5 " hose. --Extrication Tools equipped.
- First Responder equipped.
- Additional hand lines as required.

b. **Brush Fires.**

- First out on all alarms.
- Extinguish fire with one or more of the following.
- Hose Reel
- 1 3/4" Hand lines

c. **Car Fires and Accidents.**

- First out on all alarms.
- Extinguish fire or prevent same from happening with one or more of the following.
- Fire Extinguishers
- Vehicle stabilization
- Two 1 3/4" Hand lines from the rear of the truck
- Perform First Responder Duties and assist UTRS as required.

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- Perform Extrication and/or assist 15-70 in extrication as required.
- Provide traffic Control as required.
- Provide Security & Fire Protection at the Landing Zone (LZ).

**d. Pumping Operations at Scene.**

- Go past the scene to allow additional vehicles to enter area, or as directed by the IC.
- Turn headlights off.
- Parking brake on.
- Place transmission in neutral.
- Flip pump shift lever, on left side of dash, to on and get a red flashing light.
- Place transmission in drive and get a green flashing light.
- Take headset and portable from dash and exit vehicle.
- Check the pump panel to ensure a green light is on.
- Chock the wheels, driver's side.
- Place headset on head.
- Open tank to pump hand wheel.
- Turn throttle to approximately 1000 RPMS—Press mode button on Pressure Governor..
- Prime pump as required.
- Listen for orders from line officers.

**e. Additional Vehicle Equipment.**

- ANGUS Foam eductor, nozzle, and 4 cans of foam.
- Quick vent chainsaw.
- Chimney Fire Kit.
- 200'3" hose.
- 1,000 feet, 5" hose.
- 1,000 GPM, deck gun with ground mount.
- 8,000 cubic feet per minute positive pressure fan
- 6' folding step ladder.
- 24'and 14'ladders.
- 10' folding attic ladder.
- 1 pair binoculars
- Cellular phone.
- 1 Hydro ram
- 6 KW onboard generator with 2 mounted lights and 4 portable lights.
- Brush fire brooms/street brooms.
- Extrication Tools
- First Responder Equipment
- TV Camera
- Hi-Rise Hose Packs

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4. **15-31--ENGINE/PUMPER.** This vehicle is a 1988 Ford/Grumman pumper with a 1250 GPM Waterous two (2) stage pump, and carries 1200 gallons of water. The following applies.

- a. **Structure Fires.**
  - Fourth out day or night.
  - Nurse Pumper for 15-95 or hydrant hook-up
  - Pushes water to 15-45
  - Brand patrol
  - LZ coordinator
  - Mutual aid to Ocean City and Strathmere
  - Ability to lay in 1,000 feet of 5 " hose.
  - First Responder equipped.
  - Additional hand lines as required.
  
- b. **Brush Fires.**
  - Third out on all alarms.
  - Water supply
  - Assist NJFFS (Hose Reel, 1 ¾" lines, back packs, fill tanks)
  
- c. **Car Fires and Accidents.**
  - LZ coordinator
  - Could replace Engine 15-30 if out of service
  
- d. **Pumping Operations at Scene.**
  - Go past the scene to allow additional vehicles to enter area, or as directed by the IC.
  - Turn headlights off.
  - Parking brake on.
  - Place transmission in neutral.
  - Flip pump shift lever, on left side of dash, to on and get a red flashing light.
  - Place transmission in drive and get a green flashing light.
  - Take headset from dash and exit vehicle.
  - Check the pump panel to ensure a green light is on.
  - Chock the wheels, driver's side.
  - Place headset on head.
  - Switch pump to PRESSURE mode for Offensive operations.
  - Switch pump to VOLUME mode for Defensive operations.
  - Pull both tank to pump/suction levers.
  - Turn throttle to approximately 1000 RPMS.
  - Prime pump as required.
  - Listen for orders from line officers.
  - Switch pump back to VOLUME mode at the conclusion of

Offensive operations.

**e. Additional Vehicle Equipment.**

- FAST Team Operations/Equipment
- 200' of 3" hose.
- 1,000 feet, 5" hose.
- 1,000 GPM, deck gun with ground mount.
- 9,500 cubic feet per minute positive pressure fan
- 6' folding step ladder.
- 24'and 14'ladders.
- 10' folding attic ladder.
- 1 pair binoculars
- Cellular phone.
- 6 KW onboard generator with 2 mounted lights and 4 portable lights.
- Brush fire brooms/street brooms.
- First Responder Equipment

**6. 15-60--TRUCK/LADDER.** This vehicle is a 1984 Ford C-8000, Grumman 50' Squirt with 1250 GPM pump, and carries 500 gallons of water, the following applies.

**a. Structure Fires.**

- Second vehicle on scene day or night.
- Normally positioned at front door.
- Ventilation for 15-30 crew.
- Perform truck operations.
- Man back-up lines as required.
- Establish a 2nd egress.
- Advance hand lines as required.
- Receives water from 15-31, must establish the line.
- Protect exposures.
- Place squirt in service for Defensive operations as required.

**b. Brush Fires.**

- Fourth out on all brush fires.
- Exposure protection
- Provide manpower to assist 15-30
- Extinguish fire with
  - 1 3/4" hand lines
  - 50' squirt

**c. Car Fires and Accidents.**

- Fourth truck on scene if required.
- Provide traffic control.

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--Provide Security and Fire Protection at the LZ.

**d. Pumping Operations at Scene.**

- Turn headlights off.
- Parking brake on.
- Place transmission in neutral.
- Flip pump shift lever, in center of dash, to on and get a red flashing light.
- Place transmission in drive and get a green flashing light.
- Flip power take-off switch for tower to on and get a yellow steady light
- Take headset from dash, exit vehicle, and hang it on the Stortz Intake manifold.
- Assist firefighter to pull a 4" lay from 15-31 hose lay or from the rear of 15-60, to establish water supply from 15-31.
- Check the pump panel to ensure a green light is on.
- Chock the wheels, drivers' side and Captains side.
- Place headset on head.
- Switch pump to PRESSURE mode for Offensive operations.
- Switch pump to VOLUME mode for Defensive/Tower operations.
- Pull tank to pump/suction lever.
- Turn throttle to approximately 1000 RPMS.
- Prime pump as required.
- Listen for orders from line officers.
- Assist in tower operations as required.
- Never supply water to the tower at greater than 168 PSI.
- Switch pump back to VOLUME mode at the conclusion of Offensive operations.

**e. Additional Vehicle Equipment.**

- 1,000 feet of 4" hose.
- 1,000 GPM nozzle at the tip of the boom.
- 50' boom, tele-squirt.
- 24' and 14' ladders.
- 10' folding attic ladder.
- 50' remote cable to operate nozzle tip.
- 6 KW on board generator with 2 mounted and 4 portable lights.
- Hydrant Assist valve on tailgate.
- Chainsaw, circular saw, and electric K-12. --Front suction.

**6. 15-45--SUPER TANKER/PUMPER.** This vehicle is a 1991 Custom Grumman, 1500 GPM two-stage pump, and carries 3,000 gals of water. The following applies.

**a. Structure Fires.**

- Third truck on scene day or night.

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- Lay in 5" line, leave master valve.
- Priority #1 establish water supply to 15-30.
- Assist in operations as directed.
  - Establish lighting
  - Provide manpower
  - Man back-up lines
  - Establish additional egress
  - Protect exposure
  - Search and rescue
  - Salvage
  - Overhaul
- Perform water shuttle mission as directed.

**b. Brush Fires.**

- Second truck on scene
- Provide manpower.
- Provide water supply.

**c. Car Fires and Accidents.**

- Normally third truck on scene.
- Provide water supply.
- Provide manpower.
- Provide traffic control.
- Block the road.
- Provide security and fire protection at the LZ.

**d. Pumping Operations at the Scene.**

- Turn headlights off,
- Parking brake on.
- Place transmission in neutral.
- Flip pump shift lever, on left side of dash, to on and get a red flashing light.
- Place transmission in drive and get a green flashing light.
- Headset located in compartment to right of pump panel.
- Establish water supply to 15-31.
- Check the pump panel to ensure a green light is on.
- Chock the wheels drivers' side.
- Place headset on head.
- Turn suction switch on.
- Switch pump to PRESSURE mode for Offensive operations.
- Switch pump to VOLUMIF- mode for Defensive operations.
- Turn throttle to approximately 1000 RPMS.
- Prime pump as required.
- Listen for orders from line officers.

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--Switch pump back to VOLUME mode at the conclusion of Offensive operations.

e. **Additional Equipment.**

- 1,000 feet of 5" hose.
- 1,000 GPM deck gun with ground mount.
- 1 booster reel.
- Water Manifold on tailgate.
- 9,500 cubic feet per minute positive pressure fan.
- 24' and 14' ladders.
- 10' folding Attic Ladder.
- Foam eductor and nozzle.
- 7 cans of foam.
- 7.5 KW onboard generator with 2 mounted and 4 portable lights.
- First Responder equipment.

7. **15-70--HEAVY RESCUE VEHICLE.** This vehicle is a 1992 four door International, with air cascade, extrication equipment, and High Angle Rescue Team and Confined Space Rescue Team equipment, this vehicle carries no water.

a. **Structure Fires.**

- Sixth truck
- Refill SCBA bottles.
- Carry additional personnel to the scene.
- Traffic control.
- Manpower.

b. **Brush Fires.**

- Carry additional personnel to the scene.
- Traffic control.
- Manpower.

c. **Car Fires and Accidents.**

- Extra foam if required
- Jaws operations.
- Refill SCBA bottles.
- Traffic control.
- Manpower.
- Utility equipment.
- Winch operations

d. **Additional Equipment.**

- Hurst Jaws and extrication equipment.

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- Air cascade, four 4500-PSI air bottles.
- Winch.
- 7.5 KW onboard generator with 4 mounted and 2 portable lights.
- HART climbing equipment.
- Confined space equipment.
- Rescue litters.
- Chocks, bracing and air bags.
- Sawzall, chainsaw, and K-12.
- Portable generator with light.
- Portable pump.

9. **15-95--TANKER.** This vehicle is a 1973 Mack tractor and semi-trailer refurbished with 8,000 gallons of water once on scene, normally carries 6,000 gallons over road.

a. **Structure Fires.**

- Fifth truck on the scene.
- Primary water supply for large fires.
- Normally used as a Tanker Task Force with 15-46.
- Hook flexible 6" hard suction into 15-46.
- Extend two 4" lines to the rear of the tanker at staggered distances.
- Hook a 4" gated wye to one length of 4" line.
- Extend a short length of 4" line and a long length of 4" line
- NOTE NOT TO BE USED AS A SHUTTLE TANKER***
- NOTE NOT TO BE PLACED IN BACKING/K-TURN SITUATIONS***

b. **Brush Fires.**

- Water supply if required.

c. **Car Fires and Accidents.**

- NOTE THIS VEHICLE IS NOT USED***

**ANNEX B**  
**MUTUAL AID APPARATUS**

<b><u>COMPANY &amp; VEHICLE NO.</u></b>	<b><u>HOSE SIZE</u></b>	<b><u>HOSE LENGTH</u></b>	<b><u>WATER TANK</u></b>	<b><u>GPM PUMP</u></b>
<b><i>SEAVILLE</i></b>				
19-32	4"	1000 FT	1500	1250
19-43	4"	1000 FT	3000	1250
<b><i>TUCKAHOE</i></b>				
20-34	4"	1000 FT	1000	1500
20-38	5"	1000 FT	4000	1500
20-40	5"	1000 FT		
20-50				85' Ladder
20-89			1500	1250
<b><i>OCEAN CITY</i></b>				
ALL ENGINES	4"	1000 FT		
<b><i>SCULLVILLE</i></b>				
15-32	5"	1000 FT		
15-38			3000	700
<b><i>SOMERS POINT</i></b>				
ENG 47	5"	1000 FT		
<b><i>BARGAINTOWN</i></b>				
15-28			3000	1000
<b><i>DENNISVILLE</i></b>				
18-93			4000	600
<b><i>OCEANVIEW</i></b>				
17-44			2000	1000
17-45			4000	1500

**STATION 15**  
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