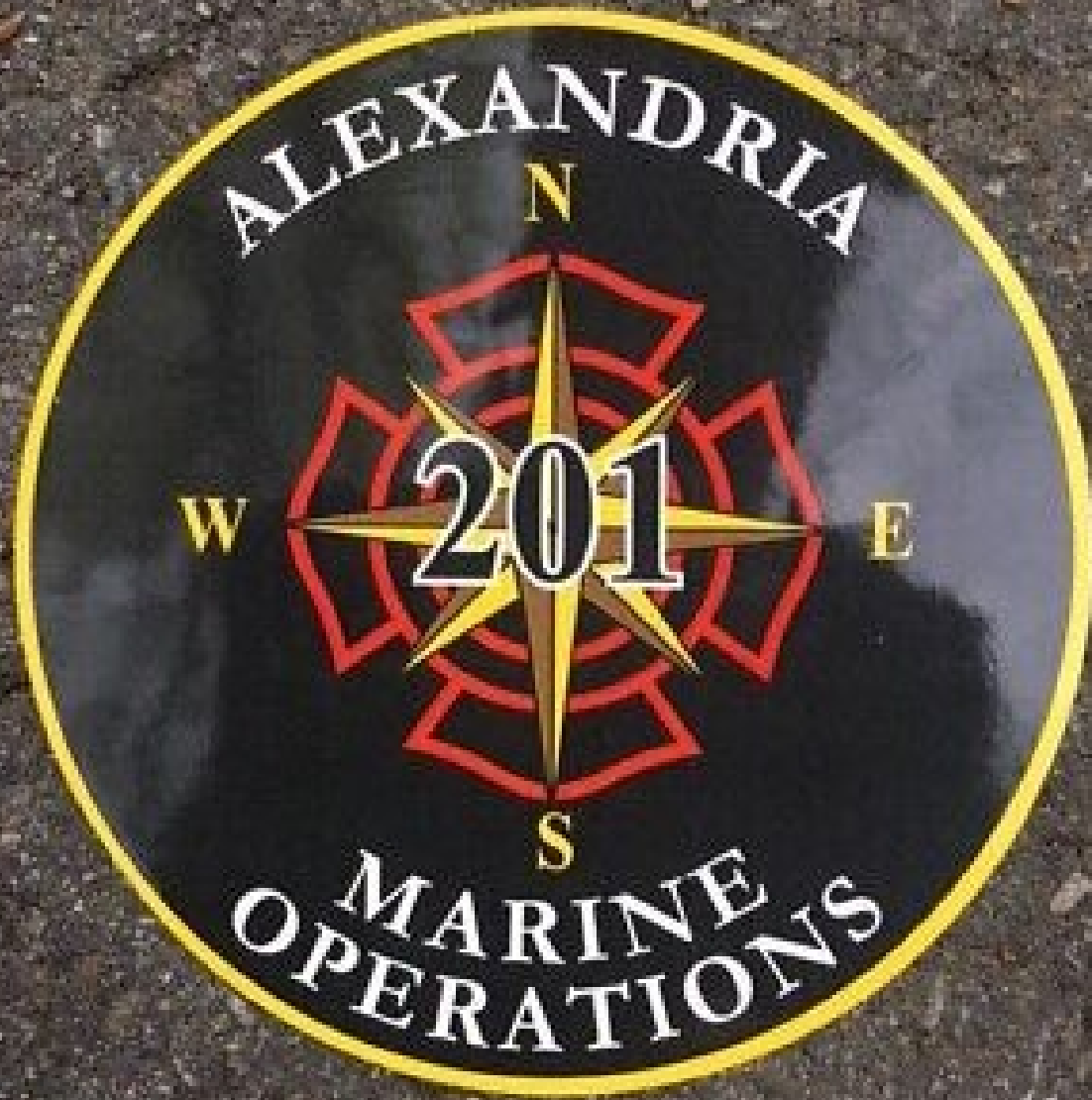


A fireboat, identified by the number 201 on its side, is shown from a low angle on the water. It is spraying four powerful jets of water upwards, two from the bow and two from the stern. The Statue of Liberty is visible in the background, partially obscured by the water jets. The sky is a clear, deep blue.

Alexandria Fire Department Marine Operations



Marine Operations Team

- Based out of Firehouse 204 in the city's East End
- Cross-staffs Engine 204 and Fireboat 201
- 4-6 members per shift across three shifts
- Additional personnel spread throughout department
- Performs fire suppression, EMS, SAR, and everything else on the Potomac River from Reagan National Airport to Gunston Cove

MOT Training

- Training tiers developed by AFD MOT
 - Crewmember
 - Engineer
 - Operator
- All team members must obtain Boater's Safety Course
- Operators must pass the USCG OUPV Course (license not required)





Crewmember Roles

- An extension of the Operator
 - Extra hands, eyes, and ears
- Secures the vessel
- Performs dewatering operations
- Fights fire
- Operates DIB201
- Makes rescues



Crewmember Responsibilities

- Operate safely and effectively
 - Know the location and safe operation of all equipment and systems aboard FB201
- Communicate clearly
- Perform fireboat maintenance



Crewmember Training

- Completion of the FBC Task Book
 - Boater Safety course
 - Written knowledge test
 - Skill proficiency evaluation
- Skills Drills
- Self-study

Engineer Roles

- Assisting FBC with duties
- Pumping fireboat with FBO
- Maintaining boat systems
- Identifying broken or failing systems and fixing or mitigating the problem



Engineer Training

- Pump operation drills
- Study of systems and system casualties
- Maintenance of boat systems



Study Material

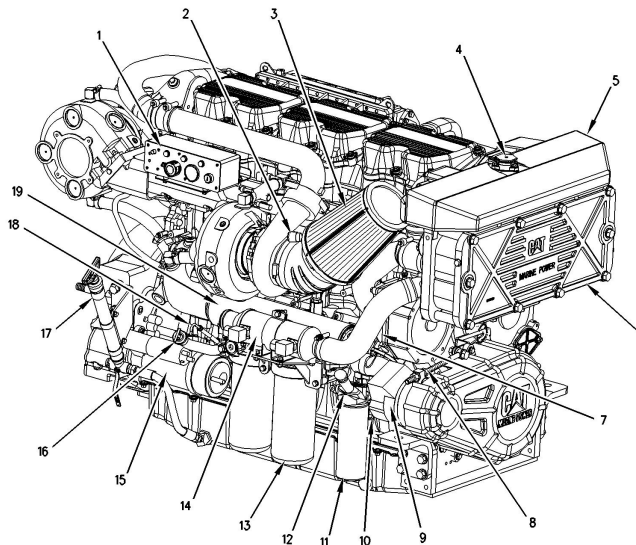
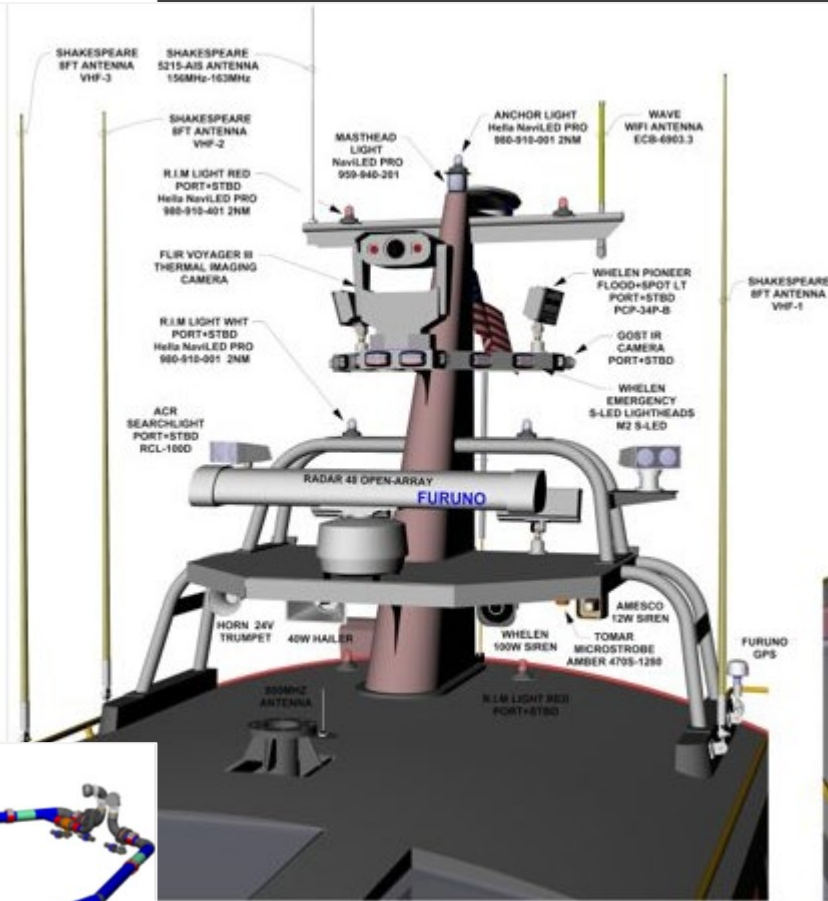


Illustration 14
Typical example (right hand service)
Cooled with a heat exchanger

- | | | |
|-----------------------------------|-------------------------------------|------------------------------|
| (1) Control panel | (8) Alternator belt tightener | (15) Electric starting motor |
| (2) Air cleaner service indicator | (9) Alternator | (16) Engine oil filler |
| (3) Air cleaner | (10) Circuit breaker/reset | (17) Manual sump pump |
| (4) Expansion tank filler cap | (11) Fuel filter | (18) Engine oil level gauge |
| (5) Expansion tank | (12) Fuel priming pump | (19) Engine oil cooler |
| (6) Heat exchanger | (13) Engine oil filter | |
| (7) Water pump (jacket water) | (14) Marine transmission oil cooler | |



Generator Set with Enclosure That is Removed

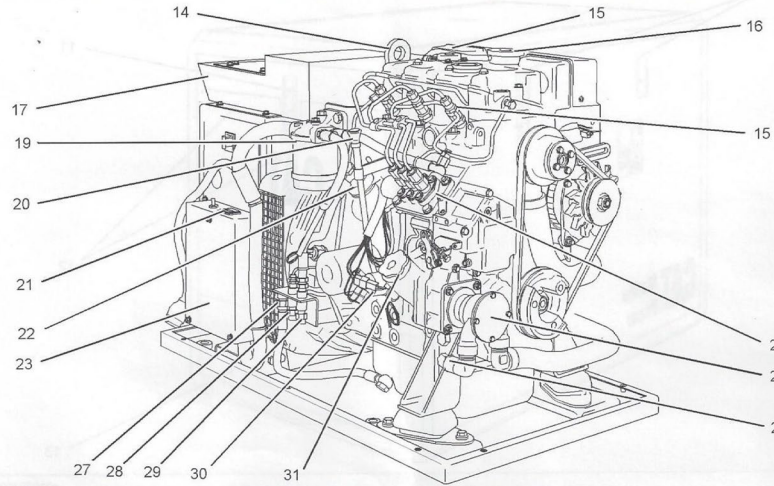


Illustration 3
Front and right side view
(14) Lift eye
(15) Header tank and exhaust manifold
(16) Filler cap for coolant
(17) Air inlet
(18) Fuel injector
(19) Fuel filter

- (20) Oil level gauge
(21) Hour meter
(22) Fuel lift pump
(23) Control box
(24) Fuel injection pump
(25) Sea water pump

- (26) Inlet for sea water
(27) Connection for engine oil
(28) Connection for fuel return
(29) Connection for fuel inlet
(30) Oil pressure switch/sender
(31) Filler cap for lubricating oil

Fireboat Operator

- Requires USCG OUPV Six-Pack
- Operates the fireboat
- Responsible for safe navigation using various safe navigation aids and electronics
- May assist fireboat officer in handling communications



Fireboat Officer

- Company commander
- May exercise control over the fireboat or multiple fireboats, depending on role
- Selects appropriate strategies and tactics to mitigate incident
- Holds the rank of Captain in the AFD





Fireboat 201

Specifications

- Dimensions
 - 50 ft. long
 - 14 ft. wide
 - 3 ft. draft (5 ft. pumping)
- Firefighting Capabilities
 - Twin 4,000 GPM pumps
 - Roof monitor, 3000 GPM
 - Bow monitor, 2000 GPM
 - Port and starboard deck guns, 1250 GPM each
 - 2 Storz connections fore and aft
 - Dual 2.5-in. standpipe



Powerplant

- Propulsion
 - Twin C18 CAT diesel engines
 - 1,150 horsepower each
 - Water-cooled using seawater
 - Top speed of 40-45 knots
- Steerage
 - Twin FF37 Kamewa Jets
 - Joystick-controlled
 - Automatic crab function



Electronics

- Radar
- Thermal Imaging
- Sonar
- Electronic Plotters
- Fire and Marine Radios



Search and Rescue Equipment

- Throwables
- DIB201 (Inflatable)
- Handheld Night Vision
- Spotlights/Searchlights
- Search Pattern Construction



Firefighting Equipment

- Two SCBA
- 1.75-in. attack line with fog nozzle, 100 ft.
- 3-in. supply line, 100 ft.
- Irons
- Bolt cutters
- Grappling hooks
- Peri Jet and electric/battery/gas pumps



Shipboard Fire Training

- In-house program
- Only of its kind in the region
- Trains MOT, shore-based units, and battalion management teams in shipboard firefighting strategies and tactics





A/O Points of Interest

Alexandria, VA

- City waterfront is beginning to expand
- Majority of dock space utilized by pleasure craft
- Homeport to several water taxis and entertainment vessels
- Sends/receives taxis and entertainment cruises to/from Washington, D.C., National Harbor, MD, and Mt. Vernon, VA





Washington Sailing Marina

- 200 wet slips, most if not all of which are typically occupied
- Limited fireboat access
- Elevated threat of conflagration in the event of a boat or dock fire
- Some vessels may double as house boats, though this is discouraged



Woodrow Wilson Bridge

- Fire protection afforded by standpipes located every 200 feet
- Standpipes can be fed by fireboat or shore-based engine
- SAR Incident hotspot



National Harbor, MD

- Operates dockside fuel pumps
- Permanent dock space devoted to pleasure craft with some houseboats
- Receives water taxis and entertainment vessels operating out of Alexandria, VA and Washington, D.C.

Mt. Vernon, VA

- Receives taxis and entertainment vessels from DC and Alexandria
- Port of call on American Cruise Lines' "American Revolution Tour" each fall and spring
- Tour facilitated by *American Constitution*, with 90 staterooms
- *American Glory*, with 56 staterooms, will be added to the tour in 2023

