WATERBORNE SEARCH AND RESCUE (SAR) TEAM

DESCRIPTION	The Waterborne Search and Rescue (SAR) Team provides SAR capabilities in various inland and coastal waterways
RESOURCE CATEGORY	Search and Rescue
RESOURCE KIND	Team
OVERALL FUNCTION	The Waterborne SAR Team: 1. Conducts critical response functions, such as life-saving assistance and rapid impact assessments 2. Conducts search, rescue and recovery operations
COMPOSITION AND ORDERING SPECIFICATIONS	1. Discuss logistics for deploying this position, such as working conditions, length of deployment, security, lodging, transportation and meals, prior to deployment 2. Discuss the following items prior to deployment: a. Communications beyond intra-team communications, such as programmable, inter-operable communications with Command, General Staff, military and other supporting resources b. Presence of contaminated environments and need for related personal protective equipment (PPE), clothing and equipment c. Security and force protection needed upon arrival 3. The requestor determines the appropriate number of boats and teams based on operational and mission needs 4. The provider provides transport for personnel and equipment 5. The requestor specifies the type of operating environment and mission for the provider

Each type of resource builds on the qualifications of the type below it. For example, Type 1 qualifications include the qualifications in Type 2, plus an increase in capability. Type 1 is the highest qualification level.

COMPONENT	TYPE 1	TYPE 2	TYPE 3	TYPE 4	NOTES
MINIMUM PERSONNEL PER TEAM	3	Same as Type 3	Same as Type 4	2	Not Specified
MANAGEMENT AND OVERSIGHT PERSONNEL PER TEAM	Same as Type 2	Same as Type 3	Same as Type 4	Same as Type 5	Intended for 12-hour performance capacity. Requestor may add additional Boat Operators based on mission and operational needs
SUPPORT PERSONNEL PER TEAM	Same as Type 2, PLUS: 1 - NIMS Type 1 Boat Crew Member (SAR)	Same as Type 3	Same as Type 4	1 - NIMS Type 1 Boat Crew Member (SAR)	Intended for 12-hour performance capability. Requestor may add additional crew members based on mission and operational needs

COMPONENT	TYPE 1	TYPE 2	TYPE 3	TYPE 4	NOTES
OPERATIONS EQUIPMENT PER TEAM	1 - Boat Greater than 30 feet long, capable of operating in seas up to eight feet and 40 knots of wind	1 - Boat 20 to 30 feet long, capable of operating in seas up to four feet and 30 knots of wind	1 - Boat For operations in water of 18 inches or more	1 - Boat For operations in water of 18 inches or less	1. Requestor may add additional boats and crew to the team based on mission and operational needs 2. Boats must have ventilation systems in accordance with US Coast Guard (USCG) 33 Code of Federal Regulations (CFR) Parts 175 and 183 and USCG 46 CFR Part 25 3. Boats must have a Backfire Flame Arrestor in accordance with USCG 46 CFR Parts 25 and 58 4. Boats must have a “Discharge of Oil Prohibited” placard and a system or items to prevent oil or oily waste from discharging into any waters in accordance with USCG 33 CFR Parts 151 and 155 5. Boats must carry safety equipment in compliance with federal regulations
ILLUMINATION AND WARNING EQUIPMENT PER BOAT	Same as Type 2	Same as Type 3	Same as Type 4	Same as Type 5	Boats must have navigation lights and sound producing devices in accordance with USCG 33 CFR Part 183
TOWING EQUIPMENT PER BOAT	1. 300 feet of towline 2. 4 - Side lines 3. 4 - Fenders 4. 2 - Shackles 5. 1 - Heaving line	1. 200 feet of towline 2. 4 - Side lines 3. 4 - Fenders 4. 2 - Shackles 5. 1 - Heaving line	1. 100 feet of towline 2. 2 - Side lines 3. 2 - Fenders	Same as Type 5	The AHJ determines appropriate mooring and towing lines to fit boats’ capabilities

COMPONENT	TYPE 1	TYPE 2	TYPE 3	TYPE 4	NOTES
PERSONAL PROTECTIVE EQUIPMENT (PPE) EQUIPMENT PER TEAM MEMBER	Same as Type 2	Same as Type 3	Same as Type 4	Same as Type 5	1. Equip boats with PFD in accordance with USCG 33 CFR Part 175 2. PPE is mission specific and may vary by working environment; it includes protective footwear, protective clothing for skin exposure, eye and ear protection, respirators, gloves and masks 3. Recommend equipping boats with anti-exposure coveralls or dry suits when operating in temperatures less than 60 degrees Fahrenheit
SAFETY EQUIPMENT PER BOAT	Not Specified	Not Specified	Not Specified	Not Specified	1. Equip boats with visual distress signals in accordance with USCG 33 CFR Part 175.01 2. Equip boats with fire extinguishers in accordance with USCG 46 CFR Part 25 3. Boats must carry safety equipment in accordance with all applicable federal laws and regulations and any other applicable state, local, tribal and territorial laws, rules and regulations
NAVIGATION EQUIPMENT PER BOAT	Same as Type 2	Same as Type 3	Same as Type 4	1 - Global Positioning System (GPS) Unit	Recommend equipping boats with proper charts and maps, depending on the nature, purpose and geographic locations of the response
COMMUNICATIONS EQUIPMENT PER BOAT	Same as Type 2	Same as Type 3	Same as Type 4	Same as Type 5	Radios should have the capability to provide interoperable communication between dispatch center or command personnel, aviation support and other operational units assigned to the same mission

COMPONENT	TYPE 1	TYPE 2	TYPE 3	TYPE 4	NOTES
ELECTRONIC WATERWAY SURVEILLANCE EQUIPMENT PER BOAT	1 - Radar unit	Not Specified	Not Specified	Not Specified	Not Specified
FIRST AID EQUIPMENT PER BOAT	Same as Type 2	Same as Type 3	Same as Type 4	Same as Type 5	Not Specified

COMPONENT	TYPE 5	NOTES
MINIMUM PERSONNEL PER TEAM	1	Not Specified
MANAGEMENT AND OVERSIGHT PERSONNEL PER TEAM	1 - National Incident Management System (NIMS) Type 1 Boat Operator (SAR)	Intended for 12-hour performance capacity. Requestor may add additional Boat Operators based on mission and operational needs
SUPPORT PERSONNEL PER TEAM	Not Specified	Intended for 12-hour performance capability. Requestor may add additional crew members based on mission and operational needs
OPERATIONS EQUIPMENT PER TEAM	1 - Boat For operations in special conditions, such as air boat, hovercraft and swamp buggy	1. Requestor may add additional boats and crew to the team based on mission and operational needs 2. Boats must have ventilation systems in accordance with US Coast Guard (USCG) 33 Code of Federal Regulations (CFR) Parts 175 and 183 and USCG 46 CFR Part 25 3. Boats must have a Backfire Flame Arrestor in accordance with USCG 46 CFR Parts 25 and 58 4. Boats must have a “Discharge of Oil Prohibited” placard and a system or items to prevent oil or oily waste from discharging into any waters in accordance with USCG 33 CFR Parts 151 and 155 5. Boats must carry safety equipment in compliance with federal regulations
ILLUMINATION AND WARNING EQUIPMENT PER BOAT	1 - Flashlight 1 - Sound producing device	Boats must have navigation lights and sound producing devices in accordance with USCG 33 CFR Part 183

COMPONENT	TYPE 5	NOTES
TOWING EQUIPMENT PER BOAT	1. Authority Having Jurisdiction (AHJ)-determined towline 2. 2 - Side lines 3. 2 - Fenders	The AHJ determines appropriate mooring and towing lines to fit boats' capabilities
PERSONAL PROTECTIVE EQUIPMENT (PPE) EQUIPMENT PER TEAM MEMBER	Personal Floatation Devices (PFD)	1. Equip boats with PFD in accordance with USCG 33 CFR Part 175 2. PPE is mission specific and may vary by working environment; it includes protective footwear, protective clothing for skin exposure, eye and ear protection, respirators, gloves and masks 3. Recommend equipping boats with anti-exposure coveralls or dry suits when operating in temperatures less than 60 degrees Fahrenheit
SAFETY EQUIPMENT PER BOAT	Not Specified	1. Equip boats with visual distress signals in accordance with USCG 33 CFR Part 175.01 2. Equip boats with fire extinguishers in accordance with USCG 46 CFR Part 25 3. Boats must carry safety equipment in accordance with all applicable federal laws and regulations and any other applicable state, local, tribal and territorial laws, rules and regulations
NAVIGATION EQUIPMENT PER BOAT	Not Specified	Recommend equipping boats with proper charts and maps, depending on the nature, purpose and geographic locations of the response

COMPONENT	TYPE 5	NOTES
COMMUNICATIONS EQUIPMENT PER BOAT	1 - Very High Frequency (VHF)-FM marine radio (portable or installed)	Radios should have the capability to provide interoperable communication between dispatch center or command personnel, aviation support and other operational units assigned to the same mission
ELECTRONIC WATERWAY SURVEILLANCE EQUIPMENT PER BOAT	Not Specified	Not Specified
FIRST AID EQUIPMENT PER BOAT	Basic first aid kit	Not Specified

NOTES

Nationally typed resources represent the minimum criteria for the associated component and capability.

REFERENCES

1. FEMA, NIMS 509: Boat Operator (Search and Rescue)
2. FEMA, NIMS 509: Boat Crew Member (Search and Rescue)
3. FEMA, NIMS, October 2017
4. National Association of State Boating Law Administrators (NASBLA), Boat Operations and Training (BOAT) Program Manual, Volumes I, II, and III, 2010
5. NASBLA, Boat Program's Basic Crew Member Course
6. USCG, Boat Crew Seamanship Manual, COMDTINST M16114.5C, 2003
7. USCG, A Boater’s Guide to the Federal Requirements for Recreational Boats, 2010
8. USCG, Boat Operations and Training (BOAT) Manual, Volume I, COMDTINST M16114.32C, 2013
9. USCG 33 CFR Part 151: Vessels Carrying Oil, Noxious Liquid Substances, Garbage, Municipal or Commercial Waste, and Ballast Water, latest edition adopted
10. USCG 33 CFR Part 155: Oil or Hazardous Material Pollution Prevention Regulations for Vessels, latest edition adopted
11. USCG 33 CFR Part 175: Equipment Requirements, latest edition adopted
12. USCG 33 CFR Part 183: Boats and Associated Equipment, latest edition adopted
13. USCG 46 CFR Part 25: Requirements, latest edition adopted
14. USCG 46 CFR Part 58: Main and Auxiliary Machinery and Related Systems, latest edition adopted