

Pennsylvania

Voluntary Rescue Service Recognition

“A Voluntary Program for Rescue Services”

Swiftwater/Flood Search and Rescue



January 2025

Pennsylvania Department of Health: Bureau of Emergency Medical Services

Pennsylvania Fish and Boat Commission

Pennsylvania Office of the State Fire Commissioner

Pennsylvania Emergency Management Agency

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July 1, 2024 – Complete program rewrite/overhaul to match Federal NIMS Resource Typing Documents

Overview

The Pennsylvania Voluntary Rescue Service Recognition (VRSR) Program was prepared by stakeholders including The Office of the State Fire Commissioner (OSFC), The Bureau of EMS (BEMS) from The Pennsylvania Department of Health, The Pennsylvania Emergency Management Agency (PEMA), and the Pennsylvania Fish and Boat Commission (PFBC).

It is the intent of this portion of the program to recognize emergency service organizations in Swiftwater/Flood Search and Rescue. This document not only considers the equipment and rescue hardware requirements of swiftwater rescue, but includes minimum staffing, ongoing training, and education requirements.

Voluntary Rescue Service Recognition (VRSR) program Swiftwater/Flood Search and Rescue teams may be requested by the Pennsylvania Emergency Management Agency (PEMA) for service across the Commonwealth during times of catastrophic flooding and agencies should ensure their personnel have adequate worker's compensation coverage for mutual aid requests.

The Voluntary Rescue Service Recognition (VRSR) program is intended to provide guidance and to develop recommendations for Pennsylvania Swiftwater/Flood Search and Rescue teams on topics including, but not limited to:

- Organizational Development
- Resource Identification and Categorization
- Training and Equipment
- Minimum Staffing, Training and Equipment Based on Applicable Standards and Best Practices

This guidance is supported by Federal National Incident Management System (NIMS) Resource Typing for Swiftwater/Flood Search and Rescue Teams (2021), NFPA 1006 (2021) Standard for Technical Rescuer Professional Qualifications and NFPA 2500 (2022) Standard for Operations and Training for Technical Search and Rescue Incidents and Life Safety Rope and Equipment for Emergency Services.

Definitions

Definitions/Terms

AHJ	Authority Having Jurisdiction (AHJ) - The organization, office or individual responsible for approving equipment, materials, installation, or a procedure.
ALS	Advanced Life Support – The personnel and equipment to operate at the ALS level in accordance with the PA Department of Health Bureau of Emergency Medical Services protocols
ALSR	PA Fish and Boat Commission 16-hour training course <i>Advanced Line Systems Rescue</i> .
Animal Rescue	The ability to deal with animals typically found within ones jurisdiction, regardless of size, requiring assistance in a swiftwater/flood evacuation situation.
BLS	Basic Life Support – The personnel and equipment to operate at the BLS level in accordance with the PA Department of Health Bureau of Emergency Medical Services protocols
Boat Drive – Air	A boat with a propulsion system using an aviation propeller or a ducted fan to generate thrust from the engine, typically having an on-plane draft of 0” to 12”.
Boat Drive – Jet	A boat with a propulsion system using a water pump to generate thrust, typically having an on-plane draft of 6” to 12”.
Boat Drive – Propeller	A boat with a propulsion system using a propeller to generate thrust, typically having an on-plane draft of 18” to 24”.
Boat – Non-powered	A non-motorized vessel capable of safely transporting rescuers or victims (e.g., raft, specialized craft, skiff, johnboat, etc.).

Boat – Powered	A motorized vessel capable of safely transporting rescuers or victims (e.g., IRB: “Inflatable Rescue Boat”, RHIB: “Rigid Hull Inflatable Rescue Boat”, Rigid Hull Boat, PWC: “Personal Watercraft”, “Airboat”, etc.) and adequately powered for the expected conditions but with a minimum 20hp motor.
Decontamination	The act of chemically changing or physically removing contaminants from personnel and equipment. The removal or neutralization of hazardous materials from equipment and/or personnel.
DCNR	Pennsylvania Department of Conservation and Natural Resources
DOH	Pennsylvania Department of Health
EBOR	PA Fish and Boat Commission 16-hour training course <i>Emergency Boat Operation & Rescue</i>
EMS	Emergency Medical Services
Flood Evacuation Team	Personnel and equipment necessary to safely remove flood victims to higher ground – does not involve swiftwater rescue situations (i.e., water is moving less than 1kn).
Flood Evacuation	The evacuation of stranded people and/or animals from a place that is endangered by floodwaters to a confirmed safe place
Flood Management Team	Personnel possessing knowledge or expertise in flood mitigation procedures that may be called upon to provide technical support to an incident commander.

Flood Water	Water that has risen outside of its normal containment or water course, contains substantial run-off, debris, man-made hazards, and contaminants. Flood water may contain areas of both surface and swiftwater.
Helicopter Awareness	The ability to recognize safety zones and hazards associated with various types of aircraft.
High Profile Vehicle	Vehicles designed with characteristics that allow it to conduct operations in floodwater environments with relative safety, such as a minimum 9” of ground clearance. Also known as high water or high clearance vehicles. Organizations utilizing HPVs should have appropriate training and standard operating guidelines for their use.
IMT	Incident Management Team - An incident command organization that provides logistical, planning, financial, and operations support to manage a water rescue incident or event.
IRER	PA Fish and Boat Commission 16-hour training course <i>Ice Rescue & Emergency Response</i> .
Life Safety Rope	Rope dedicated solely for the purpose of supporting people during rescue, firefighting, other emergency operations, or during training evolutions. NFPA 1006 (2021) 3.3.153
NIMS	National Incident Management System
PEMA	Pennsylvania Emergency Management Agency
PFBC	Pennsylvania Fish and Boat Commission
PFD	Personal Flotation Device (PFD) A device manufactured in accordance with U.S. Coast Guard specifications that provides supplemental flotation for persons in the water. NFPA 1006 (2021) 3.3.125

PPE	Personal protective equipment (PPE). The equipment provided to shield or isolate a person from the chemical, physical, or thermal hazards that can be encountered at a specific rescue incident. NFPA 1006 (2021) 3.3.126
Public Safety Diving	Underwater diving related to team operations and training, performed by any member, group or agency of a community or a government-recognized public safety diving or water rescue team. NFPA 1006 (2021) JPR 3.3.132
PWC	Personal watercraft (e.g., Jet Ski).
Shore-Based Rescue	A technique or procedure that provides a means for extracting a person from the water that does not require any member of the rescue team to leave the safety of the shore. NFPA 1006 (2021) 3.3.165
Skill Proficiency	Swim a designated water course that is representative of the bodies of water existing or anticipated within the geographic confines of the AHJ. All water rescue personal protective equipment, and swimming aids as required by that AHJ are used, all performance parameters are achieved, movement is controlled, hazards are continually assessed, distress signals are communicated, and rapid intervention for the rescuer has been staged for deployment. NFPA 1006 (2021) 18.3.2.
Surface Water Rescue	Rescue of a victim who is afloat on the surface of a body of water that is moving at a rate <u>less than</u> 1 knot [1.85 km/hr (1.15 mph or 1.69 ft/sec)]. NFPA 1006 (2021) 3.3.190
Swiftwater	Water moving at a rate <u>greater than</u> 1 knot [1.85 km/hr (1.15 mph or 1.69 ft/sec)]. NFPA 1006 (2021) 3.3.191
Throw Bag	A water rescue system that includes 15.24m to 22.86 m (50 ft to 75 ft) of water rescue rope, an appropriately sized bag, and a closed-cell foam float. NFPA 1006 (2021) 3.3.199

Unified Command

Incident commanders from various jurisdictions or agencies operate together to form a single command structure. The incident commanders jointly determine objectives, strategies, plans, and priorities and work together to execute integrated incident operations and maximize the use of assigned resources.

Water Rescue Rope

A rope that floats and that has adequate strength for anticipated use. Also, is not weakened to the point of inadequacy for the task by saturation or immersion in water and is of sufficient diameter to be gripped by bare wet hands. NFPA 1006 (2021) 3.3.153.4

Watermanship Skills

Capabilities that include swimming, surface diving, treading water, and staying afloat with a reasonable degree of comfort appropriate to the required task. NFPA 1006 (2021) 3.3.221

Water Rescue PPE

(WRPPE) Personal equipment required to protect rescuers from physical injury, or the negative effects posed by exposure to in-water hazards, hazards that are associated with the climate, and the adjacent area.

WRER

PA Fish and Boat Commission 16-hour training course
Water Rescue & Emergency Response

WRFR

PA Fish and Boat Commission 3-hour training course
Water Rescue for the First Responder

PA Categorization System

Summary of the Pennsylvania Categorization System

Swiftwater/Flood Search and Rescue Team resources have been categorized by “type” which is dependent upon the size, equipment, and capabilities of the team. Typing in this document will follow NIMS Swiftwater/Flood Search and Rescue team (2021) typing guidance. This typing is based on team qualifications, available equipment and training as needed for safe and efficient rescue operations for the Swiftwater/Flood Search and Rescue team.

It is the responsibility of recognized agencies responding to a request for Swiftwater/Flood Search and Rescue teams to provide qualified personnel and equipment that meet or exceed the recommended level of skills and capabilities stipulated by the Voluntary Rescue Service Recognition (VRSR) program.

**ALS capability should be present at the scene and may be provided via mutual aid agreement or the local dispatch center. It is not a requirement of the team. Teams should have a written policy in place to ensure ALS support is in place for local deployment. EMS licensed agencies are to act in accordance with DOH Bureau of EMS licensure requirements, scope of practice, protocols, and medical command guidance at all times.

Swiftwater/Flood Search and Rescue Team Types and Capabilities:

- Type 1 Team: 16-member team capable of conducting complex operations and operating as two distinct squads. Performs all tasks of Type 2 teams plus is capable of supporting and rescuing animals.
- Type 2 Team: 12-member team that performs all tasks of Type 3 team plus is capable of coordinating operations in a large area while utilizing additional internal or external resources such as high clearance vehicles, helicopter support, and technical rope rescue.
- Type 3 Team: 6-member team that can perform paddle and powerboat operations, offensive water rescues, flood response operations, and provide first aid as well as cardiopulmonary resuscitation (CPR) including the use of automated external defibrillators (AED). The team can also expect to operate in HAZMAT-contaminated environments, manage search operations, provide basic medical care, perform low angle rope rescue and be self-sufficient based on operational demands.
- Type 4a Team: 4-member team that conducts flood evacuation, shore-based rescue, and support operations only. This is a Pennsylvania designation only and does not appear in the current Federal NIMS typing documents.

**TABLE 1
MINIMUM CAPABILITIES & RESCUE TEAM REQUIREMENTS**

	Type 1	Type 2	Type 3	Type 4a
	16 Members	12 Members	6 Members	4 Members
Level of Operations	Swiftwater Technician	Swiftwater Technician	Swiftwater Technician	Swiftwater Operations
Boat Operations	Yes	Yes	Yes	Shore-Based
Rope Operations	Advanced Line Systems	Advanced Line Systems	Advanced Line Systems	Low Risk
Ice Operations	Yes	Yes	Yes	No
EMS	ALS-Supported	BLS	BLS	BLS
Communications	Yes	Yes	Yes	Yes
Paddle Skills	Yes	Yes	Yes	No
Logistics Support	Yes	Yes	Yes	No
HazMat	Operations	Operations	Operations	Operations
Decontamination	Yes	Yes	Yes	Yes

Table 1 identifies team capabilities and requirements based on the FEMA Resource Typing Document, 8-508-1020 (2021) Swiftwater/Flood Search and Rescue Team.

The authority having jurisdiction (AHJ) for the VRSR team may choose to require personnel, equipment, and capabilities beyond those included in FEMA NIMS typing guidance.

**TABLE 2
TEAM MINIMUM PERSONNEL COMPOSITION**

	Type 1	Type 2	Type 3	Type 4a
Total Personnel	16	12	6	4
Team Leader(s)	2	2	1	0
Swiftwater Rescue Technician	11	7	4	0
Swiftwater Rescue Technician/ EMT(or greater)	3	3	1	0
Swiftwater Operations Level Rescuer	0	0	0	3
Swiftwater Operations Level Rescuer/EMT(or greater)	0	0	0	1

Table 2 identifies team composition based on the FEMA Resource Typing Document, 8-508-1020 (2021) Swiftwater/Flood Search and Rescue Team.

A Type 1 team must also have at least one (1) rescue technician who is familiar with animal rescue skills and (1) one who has a communications skillset.

A Type 1 and Type 2 team must have at least one (1) rescue technician who has a logistics management skillset.

The authority having jurisdiction (AHJ) for the VRSR team may choose to require personnel, equipment, and capabilities beyond those included in FEMA NIMS typing guidance for use in their jurisdiction.

**This VRSR program does not differentiate between *Rescue Technician (RT)*, *RT – Boat Operator*, or *RT – Boat Bowman*. The VRSR training requirements for the designation of Rescue Technician covers the position qualifications of all three as found in the RTLTL.

**TABLE 3
MINIMUM TRAINING REQUIREMENTS**

Training Requirements	Rescue Team Leader (TL) Type 1 = 2 Type 2 = 2 Type 3 = 1	Type 1 Rescue Technician (16 Total Including 2 TL's)	Type 2 Rescue Technician (12 Total Including 2 TL's)	Type 3 Rescue Technician (6 Total Including 1 TL)	Type 4a Operations Level Rescuer (4 Total)
Annual Skills Proficiency (by AHJ)	X	X	X	X	X
Annual Swim Proficiency (by AHJ)	X	X	X	X	X
Swiftwater/Flood Awareness PFBC Water Rescue for the First Responder	X	X	X	X	X
Swiftwater/Flood Operations PFBC Water Rescue & Emergency Response	X	X	X	X	X
Swiftwater/Flood Technician PFBC Advanced Line Systems Rescue	X	X	X	X	Not Required
Swiftwater/Flood Technician PFBC Emergency Boat Operations & Rescue	X	X	X	X	Not Required
Swiftwater/Flood Technician PFBC Ice Rescue and Emergency Response	X	X	X	X	Not Required
Bloodborne Pathogen Training (by AHJ)	X	X	X	X	X
Basic First Aid (See Appendix B)	X	X	X	X	X
CPR (See Appendix B)	X	X	X	X	X
Emergency Medical Technician	Not Required	3 Required	3 Required	1 Required	1 Recommended
Hazardous Materials Operations Level	X	X	X	X	X
Animal Technical Rescue (See Appendix B)	Not Required	1	*	Not Required	Not Required
GPS/Search Management Awareness (See Appendix B)	X	X	X	Not Required	Not Required
Helicopter Awareness (See Appendix B)	X	X	X	X	X
FEMA IS-100	X	X	X	X	X
FEMA IS-200	X	X	X	X	X

Training Requirements (continued)	Rescue Team Leader Type 1 = 2 Type 2 = 2 Type 3 = 1	Type 1 Rescue Technician (16 Total Plus 2 Team Leaders)	Type 2 Rescue Technician (12 Total Plus 2 Team Leaders)	Type 3 Rescue Technician (6 Total Plus Team Leader)	Type 4a Operations Level Rescuer (4 Total)
FEMA ICS-300	X	Not Required	Not Required	Not Required	Not Required
FEMA ICS-400	*	Not Required	Not Required	Not Required	Not Required
G-191 ICS/EOC Interface	*	Not Required	Not Required	Not Required	Not Required
FEMA IS-700	X	X	X	X	X
FEMA IS-703	X	Not Required	Not Required	Not Required	Not Required
FEMA IS-800	X	X	X	X	X
FEMA L0984 Task Force/Strike Team Leader	X	Not Required	Not Required	Not Required	Not Required
Communications Management	*	1	*	Not Required	Not Required
Logistics Management	*	1	1	Not Required	Not Required
Land Search and Rescue Skills or equivalent (See Appendix B)	X	X	X	X	Not Required

Table 3 identifies mandatory and/or recommended team training requirements based on the FEMA Resource Typing Document, 8-508-1020 (2021) Swiftwater/Flood Search and Rescue Team and associated position description documents.

The authority having jurisdiction (AHJ) for the VRSR team may choose to require personnel, equipment, and capabilities beyond those included in FEMA NIMS typing guidance for use in their jurisdiction.

A number indicates the minimum number of members on the team with the indicated skills.

X Indicates that this is a mandatory requirement for all.

***** Indicates a recommendation or that which is advised but not required.

TABLE 4
MINIMUM COMMUNICATIONS EQUIPMENT LIST

Communications Equipment	Type 1 (16 Member)	Type 2 (12 Member)	Type 3 (6 Member)	Type 4a (4 Member)
Radio: Mobile	1 per vehicle	1 per vehicle	1 per vehicle	1 per vehicle
Radio: Portable	16	12	6	4
GPS Unit: Handheld	2	1	1	1
Phone: Cellular	16*	12*	6*	4*
Dry Bag: Radio	*	*	*	*
Dry Bag: Phone/GPS	*	*	*	*
Batteries: Spare	As Needed	As Needed	As Needed	As Needed
Batteries: Charger	As Needed	As Needed	As Needed	As Needed

* Where denoted, indicates a recommendation or that which is advised but not required.

Table 4 is a list of required team communications equipment based on the FEMA Resource Typing Document, 8-508-1020 (2021) Swiftwater/Flood Search and Rescue Team.

The authority having jurisdiction (AHJ) for the VRSR team may choose to require personnel, equipment, and capabilities beyond those included in FEMA NIMS typing guidance.

Table Notes:

It is strongly recommended that at least one portable radio per team should be P25 compliant and programmed with readily accessible national interoperability channels.

Marine band radios, aviation band radios, and satellite phones may be required for deployment under certain conditions and will be provided by PEMA as needed. Units operating regularly on navigable waterways should carry marine band VHF radios at all times.

GPS Units can be phone/tablet based if mapping software is not dependent on cellular connectivity (offline maps) and capable of exporting common mapping file types. (GPX, KML, GeoJSON)

Dry bags for radios, phones, and GPS are required only if the item is not waterproof (IP67+).

An agreement stating that team members will deploy with personal cellular phones will satisfy the cellular phone requirement.

Any device that utilizes consumable batteries (i.e., AA or AAA) should have spare batteries available.

Any device that utilizes rechargeable batteries should have appropriate chargers.

**TABLE 5
MINIMUM GENERAL TEAM EQUIPMENT**

General Equipment	Type 1 (16 Member)	Type 2 (12 Member)	Type 3 (6 Member)	Type 4a (4 Member)
Axe (Flat or Pick head)	2	1	1	1
Body Bag	4	2	2	*
Bolt Cutters (24")	2	1	1	*
Glass Saw (manual or battery)	2	1	1	*
Center Punch (glass removal tool)	2	1	1	1
Chainsaw with kit (gas or battery)	2	1	1	*
Accountability System	Tags/Cards Etc	Tags/Cards Etc	Tags/Cards Etc	Tags/Cards Etc
Compass	2	1	1	*
Forcible Entry Tool (i.e., Halligan bar)	2	1	1	1
Fuel Cans (transportable, 5 gal. minimum)	2	1	1	1
Generator (portable)	2	1	1	1
Scene Lights (generator mounted or portable, battery or electric)	4	2	2	2
Extension Cord (12/3, 100ft)	2	1	1	1
Extension Cord (12/3, 50ft)	4	2	2	2
Light stick, various colors (chemical or LED)	96	48	24	16
Megaphone/PA (independent of vehicle siren systems)	2	1	1	*
Multi-gas Meter (Min O2, CO, LEL, H2S with calibration kit)	2	1	*	*
Night vision (handheld)	*	*	*	*
Pole, Reaching (pike, boat hook, or equivalent)	4	2	1	1
Shovel, Hand	2	1	1	1
Sledgehammer	2	1	1	*
Tool Box (standard tools)	1	1	1	0

General Equipment (continued)	Type 1 (16 Member)	Type 2 (12 Member)	Type 3 (6 Member)	Type 4a (4 Member)
Tape, Flagging	2	1	1	1
Tape, Duct/Repair	2	1	1	1
Paint, Marking, high visibility color	2	1	1	1
Water Sample Kit	2	1	1	1
Zip Ties (assorted)	100	50	50	25
Ice Staff (ea.)	4	2	2	0
Ice Awls, set (for victims)	2	1	1	0

* Where denoted, indicates a recommendation or that which is advised but not required.

Table 5 is a list of required general team equipment based on the FEMA Resource Typing Document, 8-508-1020 (2021) Swiftwater/Flood Search and Rescue Team.

The authority having jurisdiction (AHJ) for the VRSR team may choose to require personnel, equipment, and capabilities beyond those included in FEMA NIMS typing guidance for use in their jurisdiction.

Below is a recommended chemical light marking scheme. The AHJ may dictate the marking scheme.

- Blue = Rescuer
- Orange = Victim/Rescue Devices
- Red = Hazard
- Yellow = Wayfinding

Any device that utilizes consumable batteries (i.e., AA or AAA) should have spare batteries available.

Any device that utilizes rechargeable batteries should have appropriate chargers.

**TABLE 6
MINIMUM VICTIM PERSONAL PROTECTIVE EQUIPMENT**

Victim Personal Protective Equipment	Type 1 (16 Member)	Type 2 (12 Member)	Type 3 (6 Member)	Type 4a (4 Member)
PFD, Type III (USCG approved adult and child)	20	10	5	5
Helmet, Victim	12	6	3	3
PFD, Canine	4	*	*	*
Leash and Muzzle, Canine	4	*	*	*
Snare pole, animal	4	*	*	*

* Where denoted, indicates a recommendation or that which is advised but not required.

Table 6 is a list of required victim personal protective equipment based on the FEMA Resource Typing Document, 8-508-1020 (2021) Swiftwater/Flood Search and Rescue Team.

The authority having jurisdiction (AHJ) for the VRSR team may choose to require personnel, equipment, and capabilities beyond those included in FEMA NIMS typing guidance for use in their jurisdiction.

PPE quantities are based on one victim PPE kit per boat. PPE should be stored in an easily deployable container (mesh bag, tote, etc.).

Recommended quantities for each PPE kit:

- 3 adult PFD
- 1 child PFD
- 1 infant PFD
- 2 adult helmets
- 1 child helmet

**TABLE 7
MINIMUM RESCUE EQUIPMENT**

Rescue Equipment	Type 1 (16 Member)	Type 2 (12 Member)	Type 3 (6 Member)	Type 4a (4 Member)
Descent control device, NFPA rated	4	2	2	0
Carabiner, locking, NFPA rated	20	10	10	0
Edge protection for ropes	4	2	2	0
Rigging plate, NFPA rated	4	2	2	0
Litter, stokes style or similar, with flotation	4	2	1	0
Bridle system for litter (manufactured or additional webbing)	4	2	1	0
Patient harness system (manufactured or additional webbing)	4	2	1	0
Belay device (rated mechanical or appropriate tandem prusiks)	2	1	1	0
Rope grab (rated mechanical or appropriate prusiks)	4	2	2	0
Pulleys, rescue rated	12	6	6	0
Knot passing pulley, rescue rated	2	1	1	0
Line throwing device	2	1	1	0

Rescue Equipment (continued)	Type 1 (16 Member)	Type 2 (12 Member)	Type 3 (6 Member)	Type 4a (4 Member)
Rope, life safety, 200' NFPA G rated 1/2" (12.5mm) or 7/16" (11mm) with bag	6	3	3	0
Rope 300', life safety, NFPA G rated 1/2" (12.5mm) or 7/16" (11mm) with bag	4	2	2	0
Rope 600', life Safety, NFPA G rated 1/2" (12.5mm) or 7/16" (11mm) with bag	2	1	1	0
Swimmer Rescue Board (solid or inflatable and designed for swift water rescue)	4	2	1	0
Webbing, 1" nylon tubular, 15 feet	4	2	2	0
Webbing, 1" nylon tubular, 20 feet	4	2	2	0
Webbing, 1" nylon tubular, 30 feet or greater	2	1	1	0

Table 7 is a list of required rescue equipment based on the FEMA Resource Typing Document, 8-508-1020 (2021) Swiftwater/Flood Search and Rescue Team.

The authority having jurisdiction (AHJ) for the VRSR team may choose to require personnel, equipment, and capabilities beyond those included in FEMA NIMS typing guidance for use in their jurisdiction.

The structure of the required equipment list will allow for the construction of two standard PA Fish and Boat curriculum moveable control points by Type 1 teams and a single moveable control point for Type 2 and 3 teams. It would also allow for a separate simultaneous two rope rescue system.

The expected operational rope rescue capabilities of a VRSR Swiftwater team will include low to steep angle operations. If high-angle or horizontal rope systems (high-lines) are required additional technical rope rescue resources will be required.

In the absence of a litter bridle system an additional 20' section of green webbing (or longer) can be substituted in place of each bridle system.

In the absence of a manufactured litter tie-in systems two additional 20' sections of green webbing and an additional 30' section of yellow webbing can be substituted in place of each tie-in system.

Both 7/16" (11mm) and 1/2" (12.5mm) rope is acceptable as long as the rope is NFPA G-rated. Ropes lengths should be of differing colors.

**TABLE 8
MINIMUM RESCUE BOATS AND ACCESSORIES**

Rescue Boats & Equipment	Type 1 (16 Member)	Type 2 (12 Member)	Type 3 (6 Member)	Type 4a (4 Member)
Boat, powered, 20hp minimum, meeting all boating law requirements	4	2	1	0
Repair/spare parts kit, appropriate for each boat type/material	4	2	1	0
Manual inflation pump, appropriate for each valve type present	4	2	1	0
Motor flush kit (if motor not equipped with flush port)	4	2	1	0
Lanyard, wrist kill switch (2 per motor)	8	4	2	0
Flip lines (rope, webbing, or equivalent, 2 per boat)	8	4	2	0
Aerial flares (one kit per boat)	4	2	1	0
Bow line (one per boat, must be shorter than bow to motor measurement)	4	2	1	0
Bridle, webbing, length as needed (one per boat)	4	2	1	0
Dry bag, 10L min. (1 per boat)	4	2	1	0
Paddles (2 per boat)	8	4	2	0
Prop, spare (1 per motor)	4	2	1	0
Manual bail out system (in addition to scuppers)	4	2	1	0

Rescue Boats & Equipment (continued)	Type 1 (16 Member)	Type 2 (12 Member)	Type 3 (6 Member)	Type 4a (4 Member)
Fire extinguisher (USCG approved)	*	*	*	0
Oil, motor (as needed for motor type)	*	*	*	0
Compressed air cylinder or other back up inflation device	*	*	*	0
Sound producing device (air horn, whistle, etc., 1 per boat)	4	2	1	0
Throwable flotation device (USCG approved)	4	2	1	0
Throw bag, water rope, minimum of 50' (1 per boat)	4	2	1	0
Spare fuel line and tank	2	1	1	0

* Where denoted, indicates a recommendation or that which is advised but not required.

Table 8 is a list of required boats and accessories based on the FEMA Resource Typing Document, 8-508-1020 (2021) Swiftwater/Flood Search and Rescue Team.

The authority having jurisdiction (AHJ) for the VRSR team may choose to require personnel, equipment, and capabilities beyond those included in FEMA NIMS typing guidance for use in their jurisdiction.

Powered boats must have a minimum horsepower requirement of 20 hp, however motors should be of a sufficient size for the associated boat and the expected water conditions in the operational area with 30 hp recommended for any swiftwater operations. Appropriate watercrafts depend on specific mission needs and may include rafts or specialty craft in addition to powered boats.

**TABLE 9
MINIMUM PERSONAL EQUIPMENT**

Personal Equipment	Type 1 (16 Member)	Type 2 (12 Member)	Type 3 (6 Member)	Type 4a (4 Member)
Carabiners, NFPA rated (2 per person)	32	24	12	8
Dry suit	16	12	6	4
Drysuit repair kit	*	*	*	*
Eye protection	16	12	6	4
Hearing protection	16	12	6	4
Gloves, pair, water appropriate	16	12	6	4
Gloves, pair, work	16	12	6	4
Helmet, swiftwater appropriate	16	12	6	4
Headlamp (affixed to helmet)	16	12	6	4
Personal Medical/Survival Kit	*	*	*	*
Ice Awls	16	12	6	0
Handheld flare or PFD mounted electronic emergency strobe	16	12	6	4
PFD, Type V, USCG approved	16	12	6	0
PFD, Type III, USCG approved	0	0	0	4
Rescue knife, PFD mounted	16	12	6	4
Throw bag, water rope, minimum of 50'	16	12	6	4
Boots, water appropriate	16	12	6	4
Webbing, 1" nylon tubular, 15 feet	16	12	6	4
Whistle, PFD mounted	16	12	6	4

Personal Equipment	Type 1 (16 Member)	Type 2 (12 Member)	Type 3 (6 Member)	Type 4a (4 Member)
Deployment bag (to store above items)	16	12	6	4
Flotation Coat	*	*	*	*

Table 9 is a list of required personal equipment based on the FEMA Resource Typing Document, 8-508-1020 (2021) Swiftwater/Flood Search and Rescue Team.

The authority having jurisdiction (AHJ) for the VRSR team may choose to require personnel, equipment, and capabilities beyond those included in FEMA NIMS typing guidance for use in their jurisdiction.

A number indicates the minimum number required.

* Drysuit repair/maintenance must be performed in accordance with the manufacturer's guidelines.

* Personal survival/medical kits are recommended but not required for deployment

* Flotation coats are recommended but not required. These coats can provide thermal and buoyancy protection to shore-based support personnel operating in the warm zone, however any personnel operating in the hot zone should be properly equipped with type III or V personal flotation devices.

Note: The personal equipment inventory listed is based on the above referenced team composition, therefore teams deploying with additional personnel should adjust their equipment requirements accordingly.

Any device that utilizes consumable batteries (i.e., AA or AAA) should have spare batteries available.

Any device that utilizes rechargeable batteries should have appropriate chargers.

**TABLE 10
MINIMUM MEDICAL & DECONTAMINATION EQUIPMENT**

Medical and Decontamination Equipment	Type 1 (16 Member)	Type 2 (12 Member)	Type 3 (6 Member)	Type 4a (4 Member)
First aid kit, basic	2	1	1	1
AED, adult and pediatric pads	2	1	1	1
Tourniquet, commercial	8	4	2	2
Disinfectant/cleaner, hand	2	1	1	1
Emergency blanket, mylar	6	3	3	3
Exam gloves, nitrile, box, various sizes	4	2	2	2
2.5-gallon pressure sprayer (or water extinguisher)	1	1	1	1
5-gallon bucket	1	1	1	1
25' Garden hose with nozzle	2	2	2	2
Garden hose wye valve	1	1	1	1
Garden hose to 2.5" NH adapter	1	1	1	1
Hydrant wrench	1	1	1	1
Gentle soap or cleaning solution (gallon)	1	1	1	1
Disinfecting solution (gallon, bleach, simple green "D" or equivalent)	1	1	1	1
Scrub brush	2	2	1	1
Wipes, package, personal decontamination	2	1	1	1
40-gallon plastic work box or equivalent storage for above items	1	1	1	1

Medical and Decontamination Equipment (continued)	Type 1 (16 Member)	Type 2 (12 Member)	Type 3 (6 Member)	Type 4a (4 Member)
Submersible 110v pump	Required for deployment	Required for deployment	Required for deployment	Required for deployment
Pressure washer 110v	Required for deployment	Required for deployment	Required for deployment	Required for deployment

Table 10 is a list of required medical and decontamination equipment based on the FEMA Resource Typing Document, 8-508-1020 (2021) Swiftwater/Flood Search and Rescue Team.

The authority having jurisdiction (AHJ) for the VRSR team may choose to require personnel, equipment, and capabilities beyond those included in FEMA NIMS typing guidance.

Teams should be self-sufficient for minor medical care (i.e., Band-Aids) and able to initiate basic life-saving medical care for team members or the general public (bleeding control, airway management, CPR)

The task-force model will be implemented when feasible, assigning local, licensed EMS units as needed to provide medical support to water rescue teams.

- Incidents with known patients will have co-dispatched local EMS resources (BLS/ALS per situation) so that teams can hand-off victims to a staging, triage, or transport resource.
- Mass casualty incidents will generate an MCI response.
- When possible, a dedicated EMS unit to provide emergency care for responders will be dispatched to water incidents, similar to fire incidents
- Incidents requiring extended operations will have co-dispatched rehab resources, similar to fire incidents.

Pennsylvania Voluntary Rescue Services Recognition Swiftwater/Flood Program Committee

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Appendices

Appendices A, B and C, and H are not a part of the requirements of this document but contain explanatory materials for informational purposes only

Appendices D, E, F and G contain required documentation

APPENDIX A

INCIDENT CHECKLIST/TACTICAL WORKSHEET

Incident Check List

- Utilize Swiftwater Personal Protective Equipment
- Evaluate Incident
- Initiate Pre-planned Response
- Police-Fire-EMS
- Specialized Resources
- Determine Other Needs
- Contact ICS
- Establish Communication
- Establish Accountability System (**Compliant with NFPA 1561 and 29 CFR 1926.800**)
- Establish Search Area and/or Boundaries
- Identify Incident Hazards
- Establish Operational Area
- Interview Reporting Parties
- Determine Victims Last Point Seen
- Consider Evacuation Plan
- Consider Staging Area
- Establish Up Stream and Down Stream Safety
- Implement Search and Rescue Operations
- Determine Rescue vs. Recovery
- Evaluate Low to High Risk Operation
- Contingency Plan
- Medical and/or Casualty Plan
- Decontamination of Victims
- Establish Logistic Support

Additional information such as a Dive checklist, Site Diagram and other Pertinent Information can be found in NFPA 1006 Annex A

APPENDIX B

TRAINING COURSE DESCRIPTIONS



Pennsylvania Fish and Boat Commission Water Rescue Programs



The courses in the PA Fish & Boat Commission's Water Rescue Program are designed to train water rescue personnel in the most current techniques of water rescue and safety. The program's purpose is to familiarize the rescuer with personal/team safety, the proper procedures used in water/ice safety, and emergency boat operations. The rescuer will develop and demonstrate proficiency in water rescue techniques relative to his or her individual capabilities. This results in the rescuer developing a greater sense of competency in dealing with on-the-water emergencies.

The program is designed to train fire, rescue, ems, police, park, and other emergency services personnel. The minimum age for attending any water rescue course is 18 years-of-age.

Pennsylvania Fish & Boat Commission employees and Pennsylvania Fish & Boat Commission certified instructors teach these courses. Instructor training can be arranged by contacting the Pennsylvania Fish & Boat Commission's Bureau of Boating and Education at 717-705-7833, or by visiting the Commission's website at www.fish.state.pa.us

Special Note: Students enrolled in the Pennsylvania Fish & Boat Commission Water Rescue Programs must be prepared to engage in strenuous activities in extreme weather and water conditions. If a student has a known medical condition that could foreseeably jeopardize his/her safety during participation or be aggravated by participation, the student should not participate. All rescues contained in the Pennsylvania Fish & Boat Commission Water Rescue Programs are based on simple and effective techniques. A U.S. Coast Guard approved personal flotation device (PFD), water rescue helmet, and appropriate clothing for water and weather conditions must be worn by the student at all times when practicing or attempting any of the recommended rescues.

Equivalency with NFPA 1006 Qualification:

Students who successfully complete the PFBC Water Rescue and Emergency Response, Emergency Boat Operations and Rescue, Ice Rescue and Emergency Response, and Advanced Line Systems Rescue courses meet the job performance requirements at the technician level for Chapters 17, 18, 19, 22 & 23 of the 2021 edition of NFPA 1006 and should be well prepared to successfully complete the National Pro-Board certification testing for Swiftwater Rescue-Technician Level.



Pennsylvania Fish and Boat Commission
Swiftwater Rescue Training Levels



Awareness: Knowledge based course of instruction on emphasizing hazards and personnel safety and planning. Course is generally lecture only.

Operation: Participation based course of instruction, emphasizing personal safety, planning, team safety and limited low risk victim rescue. The course generally includes objectives evaluation and testing.

Technician: Performance based course of instruction, emphasizing personal safety, planning team safety, and mid-risk to high-risk victim rescue. These courses generally include objectives, evaluation and testing.

Pennsylvania Fish and Boat Commission

COURSE OUTLINES

Water Rescue for the First Responder (1670 – Awareness Level) (2 - 2.5 hours)

Classroom course covers: scene assessment, activation of the Emergency Response System, evaluation of potential and existing water hazards, scene management, rescue vs. recovery, and personal safety measures. Meets or exceeds NFPA 1670 Awareness-level guidelines.

Water Rescue & Emergency Response (16 hours) – Covers valuable swiftwater rescue techniques. Classroom and practical hands-on training includes: planning, medical considerations, rescue equipment, self-rescue and shore-based rescue techniques. Meets or exceeds NFPA 1670 Operations-level guidelines.

Emergency Boat Operation & Rescue (16 hours) – Must have course for any rescue unit involved with on-the-water operations. Includes classroom and practical hands-on training in: boat selection, recommended equipment, boat handling, moving-water tactics, and boat rescue techniques. Meets or exceeds NFPA 1670

Technician-level guidelines. Pre-requisite: Water Rescue & Emergency Response.

Ice Rescue & Emergency Response (12-16 hours) – An essential course for any Rescue unit involved with ice rescue. Includes classroom and practical hands-on training in: identifying ice conditions, using ice rescue equipment, and practicing shore, boat, and direct contact rescue techniques. Meets or exceeds NFPA 1670

Technician-level guidelines. Pre-requisite: Water Rescue & Emergency Response.

Advanced Line Systems Rescue (16 hours) - Includes classroom and practical hands-on training. Students learn to select the appropriate line system for the situation, establish and operate the system, affect the rescue or recovery, and to tear down the system. Subjects include line and hardware equipment, knots, and advanced line systems techniques. Meets or exceeds NFPA 1670

Technician level guidelines. Pre-requisite: Water Rescue & Emergency Response.

Other Course Outlines

Helicopter Safety Course – Acceptable courses include any taught by an Air Ambulance Service that covers the following topics: air vs. ground transport decisions, communications, helicopter types, weather, helicopter operations, helicopter safety, and the establishment of safe landing zones. OR

A-100 Basic Aviation Safety (ONLINE).

https://www.iat.gov/training/course_offering_details.asp?CourseOfferingID=34597

Search Management/GPS – Acceptable courses include any certificate granting class offered by a nationally recognized Search and Rescue association OR course taught by the AHJ that covers all of the following topics: SAR Hazard Awareness, Navigation and GPS Device Awareness, procedures for search during day and night conditions. **OR**

Successful completion of the Texas A&M Engineering Extension Service (TEEX) Wide Area Search Course (PER213).

<https://teex.org/class/PER213/>

Large & Small Animal Water Rescue Courses (Animal Technical Rescue)

PA State Animal Response Team (PART) - Training for the animal rescue specialist skillset should be coordinated with PART for the following topics: Animal Control, Capture, and Behavior, Animal Decontamination, Pet First Aid, & awareness of Large Animal Rescue. OR

Any other nationally recognized, certificate granting course that addresses the aforementioned topics.

Basic First Aid/CPR

<u>Approved CPR Courses</u>	
American Heart Assoc (AHA)	BLS or BLS Provider or BLS for Healthcare
American Red Cross	Basic Life Support for Healthcare Providers
American Red Cross	CPR-AED for Healthcare Providers
American Red Cross	CPR-AED for Professional Rescuers
American Red Cross	CPR for Healthcare
American Safety & Health Institute (ASHI)	BLS Healthcare
National Safety Council (NSC)	Basic Life Support for Healthcare and Professional Rescuers
AAOS (Emergency Care & Safety Institute)	Basic Life Support for Healthcare Provider CPR (Professional)
EMS Safety Services, Inc.	BLS for Healthcare Providers
PRO CPR LLC (PRO TRAINING LLC)	Healthcare Provider (BLS) Adult Child and Infant CPR/AED (Pro CPR)

PRO CPR LLC (PRO TRAINING LLC)	Healthcare Provider (BLS) Adult Child and Infant CPR/AED / First Aid (Pro First Aid Advanced)
PACIFIC Medical Training	Basic Life Support: AED, First Aid, CPR - C Provider

Approved First Aid Courses	
American Heart Assoc (AHA)	Heartsaver First Aid Only
American Red Cross	Emergency Medical Response
American Safety & Health Institute (ASHI)	Emergency Medical Response
American Safety & Health Institute (ASHI)	First Aid
National Ski Patrol	Outdoor Emergency Care
National Safety Council (NSC)	First Aid Training
National Safety Council (NSC)	Advanced First Aid and Basic Life Support for Healthcare and Professional Rescuers
National Safety Council (NSC)	Emergency Medical Responder
AAOS (Emergency Care & Safety Institute)	Standard First Aid
AAOS (Emergency Care & Safety Institute)	Emergency Medical Responder
PA Dept. of Health	PA DOH - Emergency Medical Responder
PA Dept. of Health	PA DOH - Emergency Medical Technician
PA Dept. of Health	PA DOH - Advanced Emergency Medical Technician
PA Dept. of Health	PA DOH - Paramedic
PA Dept. of Health	PA DOH - Pre Hospital Registered Nurse
PA Dept. of Health	PA DOH - Pre Hospital Physician Extender
PA Dept. of Health	PA DOH - Pre Hospital Physician

Position Skill Sets

Communications Skillset – See Appendix B, Exhibit 1

Logistics Management Skillset – See Appendix B, Exhibit 2

Land Search and Rescue – See Appendix B, Exhibit 3



Pennsylvania VRSR Swiftwater/Flood Search and Rescue Program Position Skillset Standards – **Communications Specialist** (Exhibit 1)

The purpose of the Communications Skillset is to have a team member who may primarily conduct water rescue operations but can also provide field-level technical support for team communications. This may include, but is not limited to, developing the team ICS-205, evaluate team communication needs, program radios, and maintain/repair equipment.

Standards/Sources:

- FEMA, RTLT: Communications Technician (8-509-1244) 2018 – Type 3
- FEMA, RTLT: Swiftwater/Flood Search and Rescue Technician (8-509-1236) 2021
- U.S. Department of Homeland Security, Cybersecurity and Infrastructure Security Agency, National Interoperability Field Operations Guide (NIFOG) 2021

Requisite Knowledge/Training:

Successful completion of a Position Task Book (PTB) for the NIMS Type 3 Communications Technician; **OR**

Completion of an Authority Having Jurisdiction (AHJ) developed/validated training program that covers the following topics:

1. Expectations & responsibilities of a Swiftwater RT with a communications specialty (Team Specific – should include review and familiarization of all COM equipment utilized by the team).
2. Capabilities and restrictions of all of the communication systems utilized by the team (radio, phone, data, SAT, etc.).
3. Home agency/organization radio communication procedures.
4. How to develop the Incident Communication Plan (ICS-205).
5. Awareness of fundamental public safety communications references (NIFOG, PA Tactical Interoperable Communications Plan (TICP), local/regional radio communication system guide).
6. Radio programming training and programming equipment familiarization. ***only if authorized by AHJ***
7. Awareness of local/regional radio system administration points of contact (POC), capability, and availability for programming authorization/support.
8. Basic preventive maintenance and basic part repairs.
9. Team/AHJ policy and procedures for communication equipment inventory, accountability, and issuance to team personnel.



Pennsylvania VRSR Swiftwater/Flood Search and Rescue Program Position Skillset Standards – Logistics Management (Exhibit 2)

The purpose of the logistics management skillset is to have capable swiftwater rescue technicians who can conduct water rescue operations but also provide limited logistical service and support functions for the team, including, but not limited to, maintaining accountability & inventory of the team cache, providing field-level maintenance/repair of equipment, tracking equip. use and service records, and ordering.

Standards/Sources:

- FEMA, RTLT: Logistics Search and/or Rescue Technician (8-509-1132) 2020
- FEMA, RTLT: Swiftwater/Flood Search and Rescue Technician (8-509-1236) 2021

Requisite Knowledge/Training:

Successful completion of any of the following courses: E/L 0967: All-Hazards Logistics Section Chief Course; DHS/FEMA US&R Logistics Specialist Course; or NWCG S-355, Ground Support Unit Leader Course. **OR**

Completion of an Authority Having Jurisdiction (AHJ) developed/validated training program that covers the following topics:

1. Expectations & responsibilities of a Swiftwater RT with a logistics specialty (Team Specific – should include review and familiarization of all equipment utilized by the team and any relevant policies or procedures published by the AHJ).
2. Federal, state, and local laws and regulations regarding team equipment packaging, transportation, and maintenance.
3. Processes and procedures for inspecting, maintaining, servicing, repair, replacement, and certifying team equipment according to manufacture guidelines.
4. Processes and procedures established by the Team/AHJ for maintaining an inventory of the team cache, including how property is ordered, received, and tracked.
5. AHJ's policies, processes, and/or instructions for requesting/expending funds to procure consumables, equipment, services, etc. for the team. ***if authorized, if not see 6***
6. 24hr point of contact to request support from AHJ to obtain goods and services.
7. Team/AHJ policy and procedures for communication equipment inventory, accountability, and issuance to team personnel. (who can receive, how it is documented, etc.)
8. Documentation requirements of the AHJ (agency specific forms?, inspection forms, shift tickets, property receipts, contracts, equipment use logs, sign-out sheets, etc.)
9. Safety procedures and environmental hazard concerns.
10. Basic preventive maintenance and basic part repairs.



Pennsylvania VRSR Swiftwater/Flood Search and Rescue Program Position Skillset Standards – Land Search and Rescue (Exhibit 3)

Standards/Sources:

- National Fire Protection Association (NFPA) 1006: Standard for Technical Rescue Personnel Professional Qualifications, 2021 – Chapter 11: Wilderness Search and Rescue
- NFPA 2500: Standard on Operations and Training for Technical Search and Rescue Incidents, 2022 – Chapter 10: Wilderness Search and Rescue
- FEMA, RTLT: Land Search and Rescue Technician (8-509-1193) 2024 – Type 2
- FEMA, RTLT: Swiftwater/Flood Search and Rescue Technician (8-509-1236) 2021

Requisite Knowledge/Training:

Completion of an Authority Having Jurisdiction (AHJ) developed/validated training program or any other nationally recognized, certificate granting course that covers the following topics:

1. Review of different land SAR environments, such as forests, woods, hills/mountains, grasslands, and wetlands common in PA.
2. Review of terrain hazards in SAR such as disorientation, darkness, weather extremes, hazardous vegetation, landfills, sinkholes, and other issues common in PA.
3. Review of general SAR hazards, such as wildlife, hygiene, weather, injury prevention, and injury recognition (cold injuries, heat injuries, sprains, etc.)
4. Risk/Benefit Analysis and Hazard Mitigation; PPE selection.
5. Survival techniques and outdoor living.
6. Wilderness navigation training including map, compass, and GPS device familiarization; map reading; route planning; and navigation methods.
7. SAR Fundamentals (Basic Search Techniques, Communication/Signaling).
8. Search, rescue, and recovery operations (day/night); including carryout to ground or air transportation.
9. Canine search capabilities and familiarization.

Requisite Skills:

- Demonstrate ability to walk, hike, and/or climb terrain with the possibility of occasional hand use and little potential danger, such as unimproved trails, thick brush, climbing over and around fallen trees, and other terrain features where hands are used primarily for balance.
- Demonstrate ability to conduct SAR operations in all season's weather, not including snow or slippery ice conditions.

APPENDIX D

INSPECTION CHECKLISTS

TYPE 1 INSPECTION CHECKLIST

Swiftwater Rescue / Flood Evacuation
Swiftwater **Type 1** Inspection Checklist

Organization Name _____ Date of Inspection _____

	Swiftwater Type 1 (16 Members)	Present	Deficient	Corrected at Re-inspection
COMMUNICATIONS				
Radio: Mobile	1 per vehicle			
Radio: Portable	16			
GPS Unit: Handheld (or phone/tablet-based GPS software)	2			
Phone: Cellular	16*			
Dry Bag: Radio (if radio is not waterproof)	As needed			
Dry Bag: Phone/GPS (if phone/GPS is not waterproof)	As needed			
Batteries: Spare	As needed			
Batteries: Charger	As needed			
GENERAL EQUIPMENT				
Axe (Flat or Pick head)	2			
Body Bag	4			
Bolt Cutters (24")	2			
Glass Saw (manual or battery)	2			
Center Punch (glass removal tool)	2			
Chainsaw with kit (gas or battery)	2			
Accountability System	Tags/Cards Etc.			
Compass	2			
Forcible Entry Tool (i.e., Halligan bar)	2			
Fuel Cans (transportable, 5 gal. minimum)	2			
Generator (portable)	2			
Scene Lights (generator mounted or portable, battery or electric)	4			
Extension Cord (12/3, 100ft)	2			

Swiftwater Rescue / Flood Evacuation
Swiftwater **Type 1** Inspection Checklist

Organization Name _____ Date of Inspection _____

	Swiftwater Type 1 (16 Members)	Present	Deficient	Corrected at Re-inspection
GENERAL EQUIPMENT (continued)				
Extension Cord (12/3, 50ft)	4			
Light stick, various colors (chemical or LED)	96			
Megaphone/PA (independent of vehicle siren systems)	2			
Multi-gas Meter (Min O2, CO, LEL, H2S with calibration kit)	2			
Night vision (handheld)	*			
Pole, Reaching (pike, boat hook, or equivalent)	4			
Shovel, Hand	2			
Sledgehammer	2			
Tool Box (standard tools)	1			
Tape, Flagging	2			
Tape, Duct/Repair	2			
Paint, Marking, high visibility color	2			
Water Sample Kit	2			
Zip Ties (assorted)	100			
Ice Staff	4			
Ice Awls, set (for victims)	2			
VICTIM PERSONAL PROTECTIVE EQUIPMENT				
PFD, Type III (USCG approved adult and child)	20			
Helmet, Victim	12			
PFD, Canine	4			
Leash and Muzzle, Canine	4			
Snare pole, animal	4			

Swiftwater Rescue / Flood Evacuation
Swiftwater **Type 1** Inspection Checklist

Organization Name _____ Date of Inspection _____

	Swiftwater Type 1 (16 Members)	Present	Deficient	Corrected at Re-inspection
RESCUE EQUIPMENT				
Descent control device, NFPA rated	4			
Carabiner, locking, NFPA rated	20			
Edge protection for ropes	4			
Rigging plate, NFPA rated	4			
Litter, stokes style or similar, with flotation	4			
Bridle system for litter (manufactured or additional webbing)	4			
Patient harness system (manufactured or additional webbing)	4			
Belay device (rescue rated mechanical or appropriate tandem prusiks)	2			
Rope grab (rescue rated mechanical or appropriate prusiks)	4			
Pulleys, rescue rated	12			
Knot passing pulley, rescue rated	2			
Line throwing device	2			
Rope, life safety, 200' NFPA G rated 1/2" (12.5mm) or 7/16" (11mm) with bag	6			
Rope 300', life safety, NFPA G rated 1/2" (12.5mm) or 7/16" (11mm) with bag	4			
Rope 600', Life Safety, NFPA G rated 1/2" (12.5mm) or 7/16" (11mm) with bag	2			

Swiftwater Rescue / Flood Evacuation
Swiftwater **Type 1** Inspection Checklist

Organization Name _____ Date of Inspection _____

	Swiftwater Type 1 (16 Members)	Present	Deficient	Corrected at Re-inspection
RESCUE EQUIPMENT (continued)				
Swimmer Rescue Board (solid or inflatable and designed for swift water rescue)	4			
Webbing, 1" nylon tubular, 15 feet	4			
Webbing, 1" nylon tubular, 20 feet	4			
Webbing, 1" nylon tubular, 30 feet or greater	2			
RESCUE BOATS AND ACCESSORIES				
Boat, powered, 20hp minimum, meeting all boating law requirements	4			
Repair/Spare parts kit, appropriate for each boat type/material	4			
Manual inflation pump, appropriate for each valve type present	4			
Motor flush kit (if motor not equipped with flush port)	4			
Lanyard, wrist kill switch (2 per motor)	8			
Flip lines (rope, webbing, or equivalent, 2 per boat)	8			
Aerial flares (one kit per boat)	4			
Bow line (one per boat, must be shorter than bow to motor measurement)	4			
Bridle, webbing, length as needed (one per boat)	4			
Dry bag, 10L min. (1 per boat)	4			
Paddles (2 per boat)	8			

Swiftwater Rescue / Flood Evacuation
Swiftwater **Type 1** Inspection Checklist

Organization Name _____ Date of Inspection _____

	Swiftwater Type 1 (16 Members)	Present	Deficient	Corrected at Re-inspection
RESCUE BOATS AND ACCESSORIES (continued)				
Prop, spare (1 per motor)	4			
Manual bail out system (in addition to scuppers)	4			
Fire extinguisher (USCG approved)	*			
Oil, motor (as needed for motor type)	*			
Compressed air cylinder or other back up inflation device	*			
Sound producing device (air horn, whistle, etc., 1 per boat)	4			
Throwable flotation device (USCG approved)	4			
Throw bag, water rope, minimum of 50' (1 per boat)	4			
Spare fuel line and tank	2			
PERSONAL EQUIPMENT				
Carabiners, NFPA rated (2 per person)	32			
Dry suit	16			
Dry suit repair kit	As Appropriate			
Eye protection	16			
Hearing protection	16			
Gloves, pair, water appropriate	16			
Gloves, pair, work	16			
Helmet, swiftwater appropriate	16			
Headlamp (affixed to helmet)	16			
Personal Medical/Survival Kit	*			
Ice Awls, set	16			

Swiftwater Rescue / Flood Evacuation
Swiftwater **Type 1** Inspection Checklist

Organization Name _____ Date of Inspection _____

	Swiftwater Type 1 (16 Members)	Present	Deficient	Corrected at Re-inspection
PERSONAL EQUIPMENT (continued)				
Handheld flare or PFD mounted electronic emergency strobe	16			
PFD, Type V, USCG approved	16			
Rescue knife, PFD mounted	16			
Throw bag, water rope, minimum of 50'	16			
Boots, water appropriate	16			
Webbing, 1" nylon tubular, 15 feet, red	16			
Whistle, PFD mounted	16			
Deployment bag (to store above items)	16			
Flotation Coat	*			
MEDICAL AND DECONTAMINATION EQUIPMENT				
First aid kit, basic	2			
AED, adult and pediatric pads	2			
Tourniquet, commercial	8			
Disinfectant/cleaner, hand	2			
Emergency blanket, mylar	6			
Exam gloves, nitrile, box, various sizes	4			
2.5-gallon pressure sprayer (or water extinguisher)	1			
5-gallon bucket	1			
25' Garden hose with nozzle	2			
Garden hose wye valve	1			
Garden hose to 2.5" NH adapter	1			

Swiftwater Rescue / Flood Evacuation
 Swiftwater **Type 1** Inspection Checklist

Organization Name _____ Date of Inspection _____

	Swiftwater Type 1 (16 Members)	Present	Deficient	Corrected at Re-inspection
MEDICAL AND DECONTAMINATION EQUIPMENT (continued)				
Hydrant wrench	1			
Gentle soap or cleaning solution (gallon)	1			
Disinfecting solution (gallon, bleach, simple green "D" or equivalent)	1			
Scrub brush	2			
Wipes, package, personal decontamination	2			
40-gallon plastic work box or equivalent storage for above items	1			
Submersible 110v pump	Required for deployment			
Pressure washer 110v	Required for deployment			

TYPE 2 INSPECTION CHECKLIST

Swiftwater Rescue / Flood Evacuation
 Swiftwater **Type 2** Inspection Checklist

Organization Name _____ Date of Inspection _____

	Swiftwater Type 2 (12 Members)	Present	Deficient	Corrected at Re-inspection
COMMUNICATIONS				
Radio: Mobile	1 per vehicle			
Radio: Portable	12			
GPS Unit: Handheld (or phone/tablet-based GPS software)	1			
Phone: Cellular	12*			
Dry Bag: Radio (if radio is not waterproof)	As needed			
Dry Bag: Phone/GPS (if phone/GPS is not waterproof)	As needed			
Batteries: Spare	As needed			
Batteries: Charger	As needed			
GENERAL EQUIPMENT				
Axe (Flat or Pick head)	1			
Body Bag	2			
Bolt Cutters (24")	1			
Glass Saw (manual or battery)	1			
Center Punch (glass removal tool)	1			
Chainsaw with kit (gas or battery)	1			
Accountability System	Tags/Cards Etc.			
Compass	1			
Forcible Entry Tool (i.e., Halligan bar)	1			
Fuel Cans (transportable, 5 gal. minimum)	1			
Generator (portable)	1			
Scene Lights (generator mounted or portable, battery or electric)	2			
Extension Cord (12/3, 100ft)	1			

Swiftwater Rescue / Flood Evacuation
Swiftwater **Type 2** Inspection Checklist

Organization Name _____ Date of Inspection _____

	Swiftwater Type 2 (12 Members)	Present	Deficient	Corrected at Re-inspection
GENERAL EQUIPMENT (continued)				
Extension Cord (12/3, 50ft)	2			
Light stick, various colors (chemical or LED)	48			
Megaphone/PA (independent of vehicle siren systems)	1			
Multi-gas Meter (Min O2, CO, LEL, H2S with calibration kit)	1			
Night vision (handheld)	*			
Pole, Reaching (pike, boat hook, or equivalent)	2			
Shovel, Hand	1			
Sledgehammer	1			
Tool Box (standard tools)	1			
Tape, Flagging	1			
Tape, Duct/Repair	1			
Paint, Marking, high visibility color	1			
Water Sample Kit	1			
Zip Ties (assorted)	50			
Ice Staff	2			
Ice Awls, set (for victims)	1			
VICTIM PERSONAL PROTECTIVE EQUIPMENT				
PFD, Type III (USCG approved adult and child)	10			
Helmet, Victim	6			
PFD, Canine	*			
Leash and Muzzle, Canine	*			
Snare pole, animal	*			

Swiftwater Rescue / Flood Evacuation
Swiftwater **Type 2** Inspection Checklist

Organization Name _____ Date of Inspection _____

	Swiftwater Type 2 (12 Members)	Present	Deficient	Corrected at Re-inspection
RESCUE EQUIPMENT				
Descent control device, NFPA rated	2			
Carabiner, locking, NFPA rated	10			
Edge protection for ropes	2			
Rigging plate, NFPA rated	2			
Litter, stokes style or similar, with flotation	2			
Bridle system for litter (manufactured or additional webbing)	2			
Patient harness system (manufactured or additional webbing)	2			
Belay device (rescue rated mechanical or appropriate tandem prusiks)	1			
Rope grab (rescue rated mechanical or appropriate prusiks)	2			
Pulleys, rescue rated	6			
Knot passing pulley, rescue rated	1			
Line throwing device	1			
Rope, life safety, 200' NFPA G rated 1/2" (12.5mm) or 7/16" (11mm) with bag	3			
Rope 300', life safety, NFPA G rated 1/2" (12.5mm) or 7/16" (11mm) with bag	2			
Rope 600', Life Safety, NFPA G rated 1/2" (12.5mm) or 7/16" (11mm) with bag	2			

Swiftwater Rescue / Flood Evacuation
Swiftwater **Type 2** Inspection Checklist

Organization Name _____ Date of Inspection _____

	Swiftwater Type 2 (12 Members)	Present	Deficient	Corrected at Re-inspection
RESCUE EQUIPMENT (continued)				
Swimmer Rescue Board (solid or inflatable and designed for swift water rescue)	2			
Webbing, 1" nylon tubular, 15 feet	2			
Webbing, 1" nylon tubular, 20 feet	2			
Webbing, 1" nylon tubular, 30 feet or greater	1			
RESCUE BOATS AND ACCESSORIES				
Boat, powered, 20hp minimum, meeting all boating law requirements	2			
Repair/Spare parts kit, appropriate for each boat type/material	2			
Manual inflation pump, appropriate for each valve type present	2			
Motor flush kit (if motor not equipped with flush port)	2			
Lanyard, wrist kill switch (2 per motor)	4			
Flip lines (rope, webbing, or equivalent, 2 per boat)	4			
Aerial flares (one kit per boat)	2			
Bow line (one per boat, must be shorter than bow to motor measurement)	2			
Bridle, webbing, length as needed (one per boat)	2			
Dry bag, 10L min. (1 per boat)	2			
Paddles (2 per boat)	4			

Swiftwater Rescue / Flood Evacuation
Swiftwater **Type 2** Inspection Checklist

Organization Name _____ Date of Inspection _____

	Swiftwater Type 2 (12 Members)	Present	Deficient	Corrected at Re-inspection
RESCUE BOATS AND ACCESSORIES (continued)				
Prop, spare (1 per motor)	2			
Manual bail out system (in addition to scuppers)	2			
Fire extinguisher (USCG approved)	*			
Oil, motor (as needed for motor type)	*			
Compressed air cylinder or other back up inflation device	*			
Sound producing device (air horn, whistle, etc., 1 per boat)	2			
Throwable flotation device (USCG approved)	2			
Throw bag, water rope, minimum of 50' (1 per boat)	1			
Spare fuel line and tank	1			
PERSONAL EQUIPMENT				
Carabiners, NFPA rated (2 per person)	24			
Dry suit	12			
Dry suit repair kit	As Appropriate			
Eye protection	12			
Hearing protection	12			
Gloves, pair, water appropriate	12			
Gloves, pair, work	12			
Helmet, swiftwater appropriate	12			
Headlamp (affixed to helmet)	12			
Personal Medical/Survival Kit	*			
Ice Awls, set	12			

Swiftwater Rescue / Flood Evacuation
Swiftwater **Type 2** Inspection Checklist

Organization Name _____ Date of Inspection _____

	Swiftwater Type 2 (12 Members)	Present	Deficient	Corrected at Re-inspection
PERSONAL EQUIPMENT (continued)				
Handheld flare or PFD mounted electronic emergency strobe	12			
PFD, Type V, USCG approved	12			
Rescue knife, PFD mounted	12			
Throw bag, water rope, minimum of 50'	12			
Boots, water appropriate	12			
Webbing, 1" nylon tubular, 15 feet, red	12			
Whistle, PFD mounted	12			
Deployment bag (to store above items)	12			
Flotation Coat	*			
MEDICAL AND DECONTAMINATION EQUIPMENT				
First aid kit, basic	1			
AED, adult and pediatric pads	1			
Tourniquet, commercial	4			
Disinfectant/cleaner, hand	1			
Emergency blanket, mylar	3			
Exam gloves, nitrile, box, various sizes	2			
2.5-gallon pressure sprayer (or water extinguisher)	1			
5-gallon bucket	1			
25' Garden hose with nozzle	2			
Garden hose wye valve	1			
Garden hose to 2.5" NH adapter	1			

Swiftwater Rescue / Flood Evacuation
 Swiftwater **Type 2** Inspection Checklist

Organization Name _____ Date of Inspection _____

	Swiftwater Type 2 (12 Members)	Present	Deficient	Corrected at Re-inspection
MEDICAL AND DECONTAMINATION EQUIPMENT (continued)				
Hydrant wrench	1			
Gentle soap or cleaning solution (gallon)	1			
Disinfecting solution (gallon, bleach, simple green "D" or equivalent)	1			
Scrub brush	2			
Wipes, package, personal decontamination	1			
40-gallon plastic work box or equivalent storage for above items	1			
Submersible 110v pump	Required for deployment			
Pressure washer 110v	Required for deployment			

TYPE 3 INSPECTION CHECKLIST

Swiftwater Rescue / Flood Evacuation
 Swiftwater **Type 3** Inspection Checklist

Organization Name _____ Date of Inspection _____

	Swiftwater Type 3 (6 Members)	Present	Deficient	Corrected at Re-inspection
COMMUNICATIONS				
Radio: Mobile	1 per vehicle			
Radio: Portable	6			
GPS Unit: Handheld (or phone/tablet-based GPS software)	1			
Phone: Cellular	6*			
Dry Bag: Radio (if radio is not waterproof)	As needed			
Dry Bag: Phone/GPS (if phone/GPS is not waterproof)	As needed			
Batteries: Spare	As needed			
Batteries: Charger	As needed			
GENERAL EQUIPMENT				
Axe (Flat or Pick head)	1			
Body Bag	2			
Bolt Cutters (24")	1			
Glass Saw (manual or battery)	1			
Center Punch (glass removal tool)	1			
Chainsaw with kit (gas or battery)	1			
Accountability System	Tags/Cards Etc.			
Compass	1			
Forcible Entry Tool (i.e., Halligan bar)	1			
Fuel Cans (transportable, 5 gal. minimum)	1			
Generator (portable)	1			
Scene Lights (generator mounted or portable, battery or electric)	2			
Extension Cord (12/3, 100ft)	1			

Swiftwater Rescue / Flood Evacuation
Swiftwater **Type 3** Inspection Checklist

Organization Name _____ Date of Inspection _____

	Swiftwater Type 3 (6 Members)	Present	Deficient	Corrected at Re-inspection
GENERAL EQUIPMENT (continued)				
Extension Cord (12/3, 50ft)	2			
Light stick, various colors (chemical or LED)	24			
Megaphone/PA (independent of vehicle siren systems)	1			
Multi-gas Meter (Min O2, CO, LEL, H2S with calibration kit)	*			
Night vision (handheld)	*			
Pole, Reaching (pike, boat hook, or equivalent)	1			
Shovel, Hand	1			
Sledgehammer	1			
Tool Box (standard tools)	1			
Tape, Flagging	1			
Tape, Duct/Repair	1			
Paint, Marking, high visibility color	1			
Water Sample Kit	1			
Zip Ties (assorted)	50			
Ice Staff	2			
Ice Awls, set (for victims)	1			
VICTIM PERSONAL PROTECTIVE EQUIPMENT				
PFD, Type III (USCG approved adult and child)	5			
Helmet, Victim	3			
PFD, Canine	*			
Leash and Muzzle, Canine	*			
Snare pole, animal	*			

Swiftwater Rescue / Flood Evacuation
Swiftwater **Type 3** Inspection Checklist

Organization Name _____ Date of Inspection _____

	Swiftwater Type 3 (6 Members)	Present	Deficient	Corrected at Re-inspection
RESCUE EQUIPMENT				
Descent control device, NFPA rated	2			
Carabiner, locking, NFPA rated	10			
Edge protection for ropes	2			
Rigging plate, NFPA rated	2			
Litter, stokes style or similar, with flotation	1			
Bridle system for litter (manufactured or additional webbing)	1			
Patient harness system (manufactured or additional webbing)	1			
Belay device (rescue rated mechanical or appropriate tandem prusiks)	1			
Rope grab (rescue rated mechanical or appropriate prusiks)	2			
Pulleys, rescue rated	6			
Knot passing pulley, rescue rated	1			
Line throwing device	1			
Rope, life safety, 200' NFPA G rated 1/2" (12.5mm) or 7/16" (11mm) with bag	3			
Rope 300', life safety, NFPA G rated 1/2" (12.5mm) or 7/16" (11mm) with bag	2			
Rope 600', Life Safety, NFPA G rated 1/2" (12.5mm) or 7/16" (11mm) with bag	1			

Swiftwater Rescue / Flood Evacuation
Swiftwater **Type 3** Inspection Checklist

Organization Name _____ Date of Inspection _____

	Swiftwater Type 3 (6 Members)	Present	Deficient	Corrected at Re-inspection
RESCUE EQUIPMENT (continued)				
Swimmer Rescue Board (solid or inflatable and designed for swift water rescue)	1			
Webbing, 1" nylon tubular, 15 feet	2			
Webbing, 1" nylon tubular, 20 feet	2			
Webbing, 1" nylon tubular, 30 feet or greater	1			
RESCUE BOATS AND ACCESSORIES				
Boat, powered, 20hp minimum, meeting all boating law requirements	1			
Repair/ spare parts kit, appropriate for each boat type/material	1			
Manual inflation pump, appropriate for each valve type present	1			
Motor flush kit (if motor not equipped with flush port)	1			
Lanyard, wrist kill switch (2 per motor)	2			
Flip lines (rope, webbing, or equivalent, 2 per boat)	2			
Aerial flares (one kit per boat)	1			
Bow line (one per boat, must be shorter than bow to motor measurement)	1			
Bridle, webbing, length as needed (one per boat)	1			
Dry bag, 10L min. (1 per boat)	1			
Paddles (2 per boat)	2			

Swiftwater Rescue / Flood Evacuation
 Swiftwater **Type 3** Inspection Checklist

Organization Name _____ Date of Inspection _____

	Swiftwater Type 3 (6 Members)	Present	Deficient	Corrected at Re-inspection
RESCUE BOATS AND ACCESSORIES (continued)				
Prop, spare (1 per motor)	1			
Manual bail out system (in addition to scuppers)	1			
Fire extinguisher (USCG approved)	*			
Oil, motor (as needed for motor type)	*			
Compressed air cylinder or other back up inflation device	*			
Sound producing device (air horn, whistle, etc., 1 per boat)	1			
Throwable flotation device (USCG approved)	1			
Throw bag, water rope, minimum of 50' (1 per boat)	1			
Spare fuel line and tank	1			
PERSONAL EQUIPMENT				
Carabiners, NFPA rated (2 per person)	12			
Dry suit	6			
Dry suit repair kit	As appropriate			
Eye protection	6			
Hearing protection	6			
Gloves, pair, water appropriate	6			
Gloves, pair, work	6			
Helmet, swiftwater appropriate	6			
Headlamp (affixed to helmet)	6			
Personal Medical/Survival Kit	*			
Ice Awls, set	6			

Swiftwater Rescue / Flood Evacuation
Swiftwater **Type 3** Inspection Checklist

Organization Name _____ Date of Inspection _____

	Swiftwater Type 3 (12 Members)	Present	Deficient	Corrected at Re-inspection
PERSONAL EQUIPMENT (continued)				
Handheld flare or PFD mounted electronic emergency strobe	6			
PFD, Type V, USCG approved	6			
Rescue knife, PFD mounted	6			
Throw bag, water rope, minimum of 50'	6			
Boots, water appropriate	6			
Webbing, 1" nylon tubular, 15 feet, red	6			
Whistle, PFD mounted	6			
Deployment bag (to store above items)	6			
Flotation Coat	*			
MEDICAL AND DECONTAMINATION EQUIPMENT				
First aid kit, basic	1			
AED, adult and pediatric pads	1			
Tourniquet, commercial	2			
Disinfectant/cleaner, hand	1			
Emergency blanket, mylar	3			
Exam gloves, nitrile, box, various sizes	2			
2.5-gallon pressure sprayer (or water extinguisher)	1			
5-gallon bucket	1			
25' Garden hose with nozzle	2			
Garden hose wye valve	1			
Garden hose to 2.5" NH adapter	1			

Swiftwater Rescue / Flood Evacuation
 Swiftwater **Type 3** Inspection Checklist

Organization Name _____ Date of Inspection _____

	Swiftwater Type 3 (12 Members)	Present	Deficient	Corrected at Re-inspection
MEDICAL AND DECONTAMINATION EQUIPMENT (continued)				
Hydrant wrench	1			
Gentle soap or cleaning solution (gallon)	1			
Disinfecting solution (gallon, bleach, simple green "D" or equivalent)	1			
Scrub brush	1			
Wipes, package, personal decontamination	1			
40-gallon plastic work box or equivalent storage for above items	1			
Submersible 110v pump	Required for deployment			
Pressure washer 110v	Required for deployment			

TYPE 4a INSPECTION CHECKLIST

Swiftwater Rescue / Flood Evacuation
 Swiftwater **Type 4a** Inspection Checklist

Organization Name _____ Date of Inspection _____

	Swiftwater Type 4a (4 Members)	Present	Deficient	Corrected at Re-inspection
COMMUNICATIONS				
Radio: Mobile	1 per vehicle			
Radio: Portable	4			
GPS Unit: Handheld (or phone/tablet-based GPS software)	1			
Phone: Cellular	4*			
Dry Bag: Radio (if radio is not waterproof)	As needed			
Dry Bag: Phone/GPS (if phone/GPS is not waterproof)	As needed			
Batteries: Spare	As needed			
Batteries: Charger	As needed			
GENERAL EQUIPMENT				
Axe (Flat or Pick head)	1			
Body Bag	*			
Bolt Cutters (24")	*			
Glass Saw (manual or battery)	*			
Center Punch (glass removal tool)	1			
Chainsaw with kit (gas or battery)	*			
Accountability System	Tags/Cards Etc.			
Compass	*			
Forcible Entry Tool (i.e., Halligan bar)	1			
Fuel Cans (transportable, 5 gal. minimum)	1			
Generator (portable)	1			
Scene Lights (generator mounted or portable, battery or electric)	2			
Extension Cord (12/3, 100ft)	1			

Swiftwater Rescue / Flood Evacuation
Swiftwater **Type 4a** Inspection Checklist

Organization Name _____ Date of Inspection _____

	Swiftwater Type 4a (4 Members)	Present	Deficient	Corrected at Re-inspection
GENERAL EQUIPMENT (continued)				
Extension Cord (12/3, 50ft)	2			
Light stick, various colors (chemical or LED)	16			
Megaphone/PA (independent of vehicle siren systems)	*			
Multi-gas Meter (Min O2, CO, LEL, H2S with calibration kit)	*			
Night vision (handheld)	*			
Pole, Reaching (pike, boat hook, or equivalent)	1			
Shovel, Hand	1			
Sledgehammer	*			
Tool Box (standard tools)	0			
Tape, Flagging	1			
Tape, Duct/Repair	1			
Paint, Marking, high visibility color	1			
Water Sample Kit	1			
Zip Ties (assorted)	25			
Ice Staff	0			
Ice Awls, set (for victims)	0			
VICTIM PERSONAL PROTECTIVE EQUIPMENT				
PFD, Type III (USCG approved adult and child)	5			
Helmet, Victim	3			
PFD, Canine	*			
Leash and Muzzle, Canine	*			
Snare pole, animal	*			

Swiftwater Rescue / Flood Evacuation
Swiftwater **Type 4a** Inspection Checklist

Organization Name _____ Date of Inspection _____

	Swiftwater Type 4a (4 Members)	Present	Deficient	Corrected at Re-inspection
RESCUE EQUIPMENT				
Descent control device, NFPA rated	0			
Carabiner, locking, NFPA rated	0			
Edge protection for ropes	0			
Rigging plate, NFPA rated	0			
Litter, stokes style or similar, with flotation	0			
Bridle system for litter (manufactured or additional webbing)	0			
Patient harness system (manufactured or additional webbing)	0			
Belay device (rescue rated mechanical or appropriate tandem prusiks)	0			
Rope grab (rescue rated mechanical or appropriate prusiks)	0			
Pulleys, rescue rated	0			
Knot passing pulley, rescue rated	0			
Line throwing device	0			
Rope, life safety, 200' NFPA G rated 1/2" (12.5mm) or 7/16" (11mm) with bag	0			
Rope 300', life safety, NFPA G rated 1/2" (12.5mm) or 7/16" (11mm) with bag	0			
Rope 600', Life Safety, NFPA G rated 1/2" (12.5mm) or 7/16" (11mm) with bag	0			

Swiftwater Rescue / Flood Evacuation
Swiftwater **Type 4a** Inspection Checklist

Organization Name _____ Date of Inspection _____

	Swiftwater Type 4a (4 Members)	Present	Deficient	Corrected at Re-inspection
RESCUE EQUIPMENT (continued)				
Swimmer Rescue Board (solid or inflatable and designed for swift water rescue)	0			
Webbing, 1" nylon tubular, 15 feet, red	0			
Webbing, 1" nylon tubular, 20 feet, green	0			
Webbing, 1" nylon tubular, 30 feet or greater, yellow	0			
RESCUE BOATS AND ACCESSORIES				
Boat, powered, 20hp minimum, meeting all boating law requirements	0			
Repair kit, appropriate for each boat type/material	0			
Manual inflation pump, appropriate for each valve type present	0			
Motor flush kit (if motor not equipped with flush port)	0			
Lanyard, wrist kill switch (2 per motor)	0			
Flip lines (rope, webbing, or equivalent, 2 per boat)	0			
Aerial flares (one kit per boat)	0			
Bow line (one per boat, must be shorter than bow to motor measurement)	0			
Bridle, webbing, length as needed (one per boat)	0			
Dry bag, 10L min. (1 per boat)	0			
Paddles (2 per boat)	0			

Swiftwater Rescue / Flood Evacuation
Swiftwater **Type 4a** Inspection Checklist

Organization Name _____ Date of Inspection _____

	Swiftwater Type 4a (4 Members)	Present	Deficient	Corrected at Re-inspection
RESCUE BOATS AND ACCESSORIES (continued)				
Prop, spare (1 per motor)	0			
Manual bail out system (in addition to scuppers)	0			
Fire extinguisher (USCG approved)	0			
Oil, motor (as needed for motor type)	0			
Compressed air cylinder or other back up inflation device	0			
Sound producing device (air horn, whistle, etc., 1 per boat)	0			
Throwable flotation device (USCG approved)	0			
Throw bag, water rope, minimum of 50' (1 per boat)	0			
Spare fuel line and tank	0			
PERSONAL EQUIPMENT				
Carabiners, NFPA rated (2 per person)	8			
Dry suit	4			
Dry suit repair kit	As Appropriate			
Eye protection	4			
Hearing protection	4			
Gloves, pair, water appropriate	4			
Gloves, pair, work	4			
Helmet, swiftwater appropriate	4			
Headlamp (affixed to helmet)	4			
Personal Medical/Survival Kit	*			
Ice Awls	0			

Swiftwater Rescue / Flood Evacuation
Swiftwater **Type 4a** Inspection Checklist

Organization Name _____ Date of Inspection _____

	Swiftwater Type 4a (4 Members)	Present	Deficient	Corrected at Re-inspection
PERSONAL EQUIPMENT (continued)				
Handheld flare or PFD mounted electronic emergency strobe	4			
PFD, Type III or V, USCG approved	4			
Rescue knife, PFD mounted	4			
Throw bag, water rope, minimum of 50'	4			
Boots, water appropriate	4			
Webbing, 1" nylon tubular, 15 feet, red	4			
Whistle, PFD mounted	4			
Deployment bag (to store above items)	4			
Flotation Coat	*			
MEDICAL AND DECONTAMINATION EQUIPMENT				
First aid kit, basic	1			
AED, adult and pediatric pads	1			
Tourniquet, commercial	2			
Disinfectant/cleaner, hand	1			
Emergency blanket, mylar	3			
Exam gloves, nitrile, box, various sizes	2			
2.5-gallon pressure sprayer (or water extinguisher)	1			
5-gallon bucket	1			
25' Garden hose with nozzle	2			
Garden hose wye valve	1			
Garden hose to 2.5" NH adapter	1			

Swiftwater Rescue / Flood Evacuation
 Swiftwater **Type 4a** Inspection Checklist

Organization Name _____ Date of Inspection _____

	Swiftwater Type 4a (4 Members)	Present	Deficient	Corrected at Re-inspection
MEDICAL AND DECONTAMINATION EQUIPMENT (continued)				
Hydrant wrench	1			
Gentle soap or cleaning solution (gallon)	1			
Disinfecting solution (gallon, bleach, simple green "D" or equivalent)	1			
Scrub brush	1			
Wipes, package, personal decontamination	1			
40-gallon plastic work box or equivalent storage for above items	1			
Submersible 110v pump	Required for deployment			
Pressure washer 110v	Required for deployment			

APPENDIX E

Swiftwater Rescue Roster

APPENDIX E

Swiftwater Rescue Roster Instructions

1. The attached roster is a 3 page document with training required by each team member listed on the 3 pages
2. List the team member's name on each page on the corresponding line.
3. For training with certification numbers, list the certification number.
4. For training with completion dates, list the date completed.
5. Guide to training abbreviations:
 - a. Annual Skills Proficiency – Date Completed
 - b. Annual Swim Demonstration – Date Completed
 - c. EMS Level
 - i. Emergency Medical Responder (EMR)
 - ii. Emergency Medical Technician (EMT)
 - iii. Advanced Emergency Medical Technician (AEMT)
 - iv. Paramedic
 - v. Pre-Hospital RN (PHRN)
 - vi. Pre-Hospital Physician Extender (PHPE)
 - vii. Pre Hospital Physician (PHP)
 - d. Haz Mat Level
 - i. HMO – Hazardous Materials Operations
 - ii. HMT – Hazardous Materials Technician
 - e. ICS Training - Date Completed or N/A
 - f. Helicopter Awareness – Date Completed
 - g. Search Management – Date Completed
 - h. Water Rescue for the First Responder – Date Completed
 - i. Water Rescue Emergency Response – Date Completed
 - j. Emergency Boat Operations and Rescue – Date Completed
 - k. Advanced Line System Rescue – Date Completed
 - l. Ice Rescue Emergency Response – Date Completed
6. Document may be filled out in writing, or an electronic copy may be submitted if accompanied by a hard copy

APPENDIX F

Individual Background Check

All VRSR Water Rescue Teams must have a policy and procedure in place that requires every member and potential member to submit documentation of a criminal history record check and , as well as schedule and method of reviewing the criminal history status of all members.

Refer to <https://epatch.pa.gov/home> to request Volunteer Record Checks from PSP or utilize the Act 168 Form on the next page.

PENNSYLVANIA VOLUNTARY FIRE SERVICE

Act 168 Form

Act 168 of 2006 amended Title 18 (Crimes and Offenses) of the Pennsylvania Consolidated Statutes, Section 2, subsection (h) (1) Arson and related offenses reads:

“A person convicted of violating this section or any similar offense under Federal or State law shall be prohibited from serving as a firefighter in this Commonwealth and shall be prohibited from being certified as a firefighter under Section 4 of the Act of November 13, 1995 (P.L. 604, No.61), known as the State Fire Commissioner Act.”

All individuals making application for certification testing must provide documentation of a background check. Proof of a non-conviction MUST consist of *either* of the following:

- 1. An official criminal history record check obtained pursuant to Chapter 91 (relating to criminal history record information) indicating no arson convictions.**

OR

- 2. By dating and signing of the following statement by the person swearing to the following:**

“I have never been convicted of an offense that constitutes the crime of “arson and related offenses” under 18 Pa.C.S 3301 or any similar offense under any Federal or State law. I hereby certify that the statements contained herein are true and correct to the best of my knowledge and belief. I understand that if I knowingly make any false statement herein, I am subject to penalties prescribed by law, including, but not limited to, a fine of at least \$1,000.00”

Signature of Certification Evaluator Candidate

Name of Certification Evaluator Candidate (please print or type)

Date

APPENDIX G

Application



**FOR PENNSYLVANIA DEPARTMENT OF HEALTH
USE ONLY**

Date Received: _____

Regional Council: _____

APPLICATION FOR VOLUNTARY RESCUE SERVICE RECOGNITION

1. SERVICE IDENTIFICATION:

BUSINESS/CORPORATE NAME OF RESCUE SERVICE

IDENTIFYING NAME OF RESCUE SERVICE

PHYSICAL LOCATION OF RESCUE SERVICE HEADQUARTERS (*must be supplied*):

(STREET, RD, ROUTE, ETC.)

CITY

COUNTY/STATE

ZIP CODE + 4

MAILING ADDRESS OF RESCUE SERVICE: (*must be supplied*):

(STREET, P.O BOX, R.D., ROUTE, ETC.)

CITY

STATE

ZIP CODE +4

DAYLIGHT CONTACT PERSON: _____

BUSINESS TELEPHONE: (_____) _____

EMAIL: _____

Physical address locations of any substations, other than headquarters, where vehicles are stationed full-time (if applicable):

a. _____
(STREET, R.D., ROUTE, ETC.)

CITY

STATE

ZIP CODE +4

b. _____
(STREET, R.D., ROUTE, ETC.)

CITY

STATE

ZIP CODE +4

(ATTACH ADDITIONAL SHEETS, IF NECESSARY)

Principal Official: *(Administrative)*

(PLEASE PRINT)

TITLE

TELEPHONE

2. SERVICE CLASSIFICATION: (check all that apply)

Type of Organization

<input type="checkbox"/>	INDUSTRY
<input type="checkbox"/>	NON-PROFIT
<input type="checkbox"/>	FOR PROFIT
<input type="checkbox"/>	CAREER
<input type="checkbox"/>	VOLUNTEER

<input type="checkbox"/>	FIRE SERVICE
<input type="checkbox"/>	EMS
<input type="checkbox"/>	POLICE
<input type="checkbox"/>	GOVERNMENT
<input type="checkbox"/>	OTHER _____

ARE YOU QRS AFFILIATED AND/OR RECOGNIZED?

YES NO

3. TYPE AND LEVEL OF SERVICE:

Vehicle and Machinery Basic Operations Advanced

Swiftwater Type 1 Type 2 Type 3 Type 4a

Primary Service Areas

1. _____

4. _____

2. _____

5. _____

3. _____

6. _____

4. Dispatch Procedures:

b. Method of Dispatch For Emergency Calls

- Providers Headquarters
- County 9-1-1 Center
- Municipal 9-1-1 Center
- Police Department
- Other (explain)

5. VERIFICATION OF INFORMATION:

I, _____ have reviewed this application and all of
(Name of Principal Official)

the information contained herein, or submitted separately in support of the application, and verify that
the information is accurate and complete.

Signature of Principal Official

Date

NOTE: 18 Pa. C.S. Section 4904 provides that it shall be a crime to make written, false statement, or to submit any document which is false, to a public servant and, upon conviction, shall be punishable by imprisonment, the maximum of which is not more than two (2) years, and a fine not to exceed \$5,000.