

Annex A. Equipment Requirements for Group Certification

Revised Version: November 12, 2004

A.1 Minimum Group Equipment List

The following equipment shall be maintained by every ASRC group, and shall be deployed to any incident, as required, when the group responds. **Notes:** There are no minimum equipment requirements at the present time for Probationary ASRC Groups. And, there are no differences in minimum equipment requirements between Certified-A Groups and Certified-B Groups. This distinction is used only for Group membership for certified ASRC Field Team Leader personnel.

A.2 Minimum Certified Group Equipment

A Certified Group shall have:

- One Operations Kit
- One Evacuation Kit
- One Rescue Rope Kit
- One Semi-Technical Evacuation Kit
- One Base Radio System
- Two Hand-Held Radios AND one for every 8 active members COQ and above
- Topographic Maps
- One Field Medical Kit
- One Base Kit
- One Helicopter Landing Zone Kit

A.3 Operations Kit

The Operations Kit shall contain:

Form Source	Form #	Form Name	Note/Source
ICS Forms	ICS-201	Incident Briefing	
	ICS-202	Incident Objectives	
	ICS-203	Organization Assignment List	
	ICS-204	Division Assignment List	
	ICS-205	Incident Radio Communication Plan	
	ICS-206	Medical Plan	
	ICS-207	Incident Organization Chart	
	ICS-209	Incident Status Summary	
	ICS-214	Unit Log	
	ICS-215	Operations Planning Worksheet	
ASRC Forms	PPAS	Projected Personnel Availability Summary	See www.asrc.net
	CSOF	Crash Scene Observation Form	See www.asrc.net
	SDF	Subject Debriefing Form	Waived for 2004 Recertification Process
VASARCO Forms	LPR	Lost Person Report	See www.vasarco.org
	TAF	Task Assignment Form	Duplex NCR forms
	n.a.	Shift Summary report	See forms at www.vasarco.org
	SAR14A	After Action report	

	SAR 58	SAR Unit Personnel Register	
	SAR 60	Vehicle Register	
	SAR 59	Volunteer Register	
	SAR 62	Communications Log	
	SAR 63	Communications Equip. Log	
	SAR 60	Clue Log	
	SAR 64	Personnel Staging Log	
PA SAR Council		Forms Packet.	See forms at www.psarc.org/forms.html
Medical Forms		ASRC/VA Wilderness Basic Life Support Protocols	See www.asrc.net
		Other appropriate local forms (e.g. trip report)	
		ASRC/PA WEMSI Protocols	See www.wemsi.org
		Standard WEMSI Patient Record Form	See www.wemsi.org

Document	Note
NASARs Search and Rescue Operations Field Guide	Available for purchase through www.nasar.org
Field Operations Guide for Search & Rescue	Available for purchase through http://www.dbs-sar.com/
Current ASRC Group Rosters	See http://www.asrc.net/
ASRC Communications Quick Reference	Not required for 2004 Group Recertification Process
ASRC Lost Person Behavior Profile Handbook	Not required for 2004 Group Recertification Process
ASRC Operations Manual	Edition 3.2 as amended for this review
Pennsylvania Department of Conservation Natural Resources SAR Memorandum of Agreement	See http://www.asrc.net/
Maryland State Police Memorandum of Agreement	See http://www.asrc.net/
ASRC Radio Licenses	See http://www.asrc.net/
Guidelines for SAR Coordination through the Virginia Emergency Operations Center	See http://www.vaemergency.com/about/sar.cfm
Virginia Emergency Operations Plan. Annex K Search and Rescue	See http://www.vdem.state.va.us/library/eplan.cfm

Support Materials	Note
ASRC Grid Overlay Templates	must have an original master to avoid distortions introduced by photocopying
Map Board with acetate (1)	must have at least 3 acetate layers and have registration system built into board
State Highway Maps	DE, MD, NC, PA, VA, WV
State Aeronautical Maps	DE, MD, NC, PA, VA, WV (waived for all states except VA in 2004 group recertification process)
State Atlas & Gazateers	MD & DE, NC, PA, VA, WV
Washington and Cincinnati Sectional Aeronautical Charts	one each
Clip Boards	two
Calculator	one
Carbon Paper	25 sheets
File Folders	Minimum 15 (to support three shifts)
Permanent Colored Pens	5 colors (fine point)
Non-Permanent Colored Pens	5 colors (fine point)

Pencils	10
Drawing Compass or equivalent	must be capable of scribing a circle at 6 miles at 1:24,000 scale.
Ruler	18" metal drafting ruler with drafting holes at both ends
Alcohol Permanent Pen Eraser	1 bottle or equivalent
Pencil Eraser	two
Paper Clips	1 box
Scotch Tape	3 rolls clear tape with dispenser
Drafting Tape	1 roll
Stapler and Staples,	2 staplers, 1 box staples
Highlighters	Set of 4 different colors

Suggested additions	
Laptop computer	These 6 items will be recommended for the Fall 2006 ASRC Group Recertification process.
CASIE search management software	
MapTech + CDs	For mid-Atlantic states (ASRC Area of Operations)
Inkjet Printer	Spare ink cartridges
Photocopier	laptop copying mechanism preferred for use with folded USGS quads with plastic ASRC grid overlay. Plus spare toner cartridge.
8.5 x 11 Paper, white	250 sheets minimum

A.4 Evacuation Kit

The Evacuation Kit shall contain:

Quantity	Item	Note
1	Semi-rigid adult-sized field litter	A split litter is not acceptable for an air evacuation task.
1	A double "Y" yoke attached to the head of the litter, using at least 12.7 mm static line, with two large locking-D carabiners. (approx. 20 feet)	Increased from 11 mm to comply with federal agency semi-technical requirements. To provide tie-in point for belay and/or haul rope.
1	Ensolite pad (or equivalent)	Insert for the bottom of the litter
3	Wool blankets (or equivalent)	For patient protection
3	Padding materials	To support patient head, behind knees, and lower back during transport (bath towels rolled up and tape into tube shape with duct tape will serve for this requirement)
1	Tarpaulin (or equivalent)	Wet-weather patient protection system
1	Litter Face Shield	Requirement can be satisfied for 2004 group recertification process only with helmet and eye/face protection
3	20 feet of 1 inch tubular webbing for patient tie-in (orange, red, blue in color).	For patient packaging. See semi-technical evacuation kit below for webbing specifications.
6	Pre-made litter attendant adjustable 1/2 inch tubular webbing loops	Optional – to allow for hands-free litter lift (the loops should be built with a self-adjusting prussic in the loop to allow each litter bearer the ability to adjust to length as required).

A.5 Rescue Rope Kit

The Rescue Rope Kit shall comprise:

Qty	Item	Comment
2	150 foot (200 foot preferred) 11mm static kernmantle rescue ropes that are in good working condition	For patient packaging. See semi-technical evacuation lit below for webbing specifications. The maximum age acceptable for any rope or soft technical item is 5 years from the date of purchase. 12.7 mm or 1/2 inch static is required for groups working with Federal agencies, for example, the National Park Service and the U.S. Forest Service.
1	Rope log	Maintained for each rope to verify that the rope is in good working condition. This log must pass inspection by the ASRC Operations Officer (or designee) in order for a rope to be considered in good working condition
2	Rope bags	Optional

A.6 Semi-Technical Evacuation Kit

The Semi-Technical Evacuation Kit shall contain.

Qty	Item		Comment
1	Personal Belay device — a large "Rescue Eight" descender		For descent of an individual to a patient
1	Brake-bar Rack with a minimum 6 brake bars		For team belays.
1	50 foot length of 12.7 mm or 1/2 inch rescue rope		For backup anchor.
3	Pairs of large leather gloves		For litter and belay teams.
6	Large, locking-D carabiners		Increased from 3.
2	Directional devices (prussic-minding pulleys or equivalent)		To construct haul systems.
12	Climbing helmets with three-point strap suspension		For the evacuation team. Must meet or exceed requirements in UIAA Standard No. 106.
3 sets	8 mm nylon prussic cord 54 and 66 inches long (untied length)		For tandem prussics.
26 total	1 inch Nylon tubular webbing (4000lb minimum tensile strength mil spec) as follows:		Per requirements for SAR/US&R CERT-3.
	Color	Length (in feet)	Color matching requirements optional for 2004 review. Required by December 2005. The 30 foot webbing is not a component of the CERT-3 requirement. All of which shall be in good working condition, to permit a field team to conduct a semi-technical evacuation. All soft items shall be no greater than 5 years old.
6	Green	5	
6	Yellow	12	
6	Blue	15	
6	Orange	20	
2	Red	30	
1	Equipment log		All items in the semi-technical evacuation kit shall be recorded in a log, which detail the date purchased, manufacturer, manufacturer lot number and usage history, including maintenance.

A.7 Base Radio System

The Base Radio System shall include three subsystems:

Quantity	Item	Comments
1	6-channel Base Radio, configured to operate in the following minimum frequencies: 151.625, 155.160, 155.175, 155.205, and 155.220 Mhz. Radios must be capable of transmitting with at least 30 watts power.	A radio, in good working condition. The base radio requirement may be fulfilled by the use of mobile radio, but must be capable of transmitting with at least 30 watts power. The FCC has directed that all radios in this frequency range be able to operate in a narrow band configuration. All effected radios must be modified in 10 years or less to meet FCC regulations.
1	Power supply, capable of supplying sufficient power to allow the base radio system to operate in a standalone configuration for 3 hours of operation	The power supply subsystem, which shall be in good working condition.
1	Antenna system comprised of a mast, antenna, and cabling assembly shall allow the base radio to operate within 50' of the mast base on any of the ASRC frequencies	The mast shall be in good working condition and shall have a minimum height of 20 feet, when assembled.

A.8 Hand-Held Radio

The Hand-Held Radio shall meet the following specifications:

Quantity	Item	Comments
2	6-channel hand-held radio, configured to operate in simplex mode on the following minimum frequencies: 151.625, 155.160, 155.175, 155.205, and 155.220 Mhz. Radios must be capable of transmitting with at least 5 watts power.	In good working condition. Groups are advised that the FCC has directed that all radios in this frequency range be able to operate in a narrow band configuration. All effected radios must be modified in 10 years or less to meet FCC regulations.
1	6-channel hand-held radio for every 8 active members COQ and above, configured as shown above.	See above comment

A.9 Topographic Maps

The Topographic Maps shall include:

Quantity	Item	Comments
All	7.5' x 7.5' USGS Topographic Map Sheets that lie within a radius of 40 statute miles of a group's central administrative site	In good working condition. Note: Groups are advised that this requirement will be changed in the next 12 months, so that teams are assigned a primary area of responsibility, which will be based on counties and not radius from their administrative HQ location – Oct 2004.
1	MapTech mapping software and CDs with topographic map coverage for the groups state of origin	Optional for 2004. To be recommended for Fall 2006 ASRC Group Recertification process.

A.10 Field Medical Kit

The Field Medical Kit shall contain:

Quantity	Item	Comments
1	EMT-Basic level medical kit	In good working condition. Groups are advised that this requirement will be clarified in the Fall 2006 Recertification process. The intent is to specify requirements on a state-by-state basis by referring to an established field medical kit list in each state in which the ASRC operates – Oct 2004.

A.11 Base Kit

The Base Kit shall contain:

Quantity	Item	Comments
20	Brightly colored vests	For general use during hunting season. Note: Groups are advised that this requirement may change in the Fall 2006 Recertification process. The intent is to require groups to carry vests that are highly visible. At the present time most states have not reacted to the information that 27% of the population are unable to see the blaze orange color required during hunting season. The current recommended color for safety vests is lime green – Oct 2004.
20	Rolls of flagging tape	At least two different colors
1	Cell phone	Optional: It will be recommended this will be required in Fall 2006 Recertification process
1	GPS	Optional: It will be recommended this will be required in Fall 2006 Recertification process

A.12 Helicopter Landing Zone Kit

The Helicopter Landing Zone Kit shall contain:

Quantity	Item	Comments
6	Goggles (pairs)	Increase of 2
6	Ear protection	Increase of 2
8	Bright light sticks (30 min high intensity orange or yellow)	For marking an LZ. Note: Colored mats/panels are no longer recommended.
12	6d flathead nails (or equivalent)	To secure the light sticks to the ground