

Annex A. Equipment Requirements for Group Certification

October 30, 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 requested, 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	Comments	
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	To be placed on ASRC Web documents site at www.asrc.net by 10 November 04
		CSOF	Crash Scene Observation Form	See above.
		SDF	Subject Debriefing Form	See above
	Virginia SAR Council Forms	LPR	Lost Person Report	See www.vasarco.fovfr.org/staticpages/annex
		TAF	Task Assignment Form	Duplex NCR forms
**		Shift Summary report	* duplicated by SARCO ** No form number	
SAR 62		Communications Log		
SAR 63		Communications Equip. Log		
SAR 60 *		Clue Log		
SAR 64		Personnel Staging Log		
SAR 57		Task Log		
SAR 14A		After Action report		
SAR 58		SAR Unit Personnel Register		
SAR 60 *	Vehicle Register			
SAR 59	Volunteer Register			
PA SAR Council		Forms Packet.	See www.psarc.org/forms.html	

Medical Forms		ASRC/VA Wilderness Basic Life Support Protocols	To be placed on ASRC Web site at www.asrc.net
		Other appropriate local forms (e.g. trip report) pertinent to team area.	
		ASRC/PA WEMSI Protocols	Web www.wemsi.org
		Standard WEMSI Patient Record Form	See www.wemsi.org

Document	Comments
NASAR's or ERI's Search is an Emergency Field Guide	Available from NSAR or ERI International websites
ICS Field Operations Guide	Available from ERI International, or db's Publications web sites
Current ASRC Group Rosters	See www.asrc.net - Rosters
ASRC Communications quick reference	To be placed on www.asrc.net - References
ASRC Lost Person Behavior Profile Handbook	See www.asrc.net - References
ASRC Operations Manual	Version 3.2 with Annex-A amendments for this review
Pennsylvania Department of Conservation Natural Resources SAR Memorandum of Agreement	See under Administration at www.asrc.net .
Maryland State Police Memorandum of Agreement	See under Administration at www.asrc.net .
ASRC Radio Licenses	See under References at www.asrc.net and 2005 version of ASRC Operations Manual
Guidelines for SAR Coordination through the Virginia Emergency Operations Center	To be under References on www.asrc.net and 2005 version of ASRC Operations Manual

Support Materials	Comments
ASRC Grid Overlay Templates	must have an original first generation master somewhere in operations kit 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 (VA, MD, PA, WV, NC)	
State Aeronautical Maps for VA, MD, PA, WV & NC	(waived for all states except VA in Fall Recertification review)
Pennsylvania Atlas & Gazetteer	one
Virginia Atlas & Gazetteer	one
Maryland / Delaware Atlas & Gazetteer	one
NOAA 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 (available at office supply stores)
Pencil Eraser	two
Paper Clips	1 box
Scotch Tape	3 rolls clear tape with dispensers
Drafting Tape	1 roll
Stapler and Staples,	2 staplers, 1 box staples
Highlight markers	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	
Photocopier	Flat top copying mechanism preferred for use with folded USGS quads with plastic ASRC grid overlay.
White Paper (250 sheets minimum)	One ream recommended.

A.4 Evacuation Kit

The Evacuation Kit shall contain:

Quantity	Item	Comment
1	Semi-rigid adult-sized field litter	A split litter is <u>not</u> acceptable for an air evacuation task.
1	A double "Y" yoke attached to the head of the litter, using at least 13mm static line, with two large locking-D carabiners.	
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 & taped 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 Fall 2004 Recertification process by helmet with 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 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) 13mm or 1/2 inch static kernmantle rescue ropes that are in good working condition	For patient packaging. See semi-technical evacuation lit below for webbing specifications. <i>The maximum age acceptable for any rope or soft technical item is 5 years from the date of purchase.</i>
1	Rope log	Maintained separately in the field for each rope to indicate when the rope was purchased and 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 ascent of an individual to a patient. Several Rescue Eights" are recommended.
1	Brake-bar Rack with a minimum 6 brake bars		For team belays.
1	30 foot length of 13mm or 1/2 inch rescue rope		For backup anchor system.
3	Pairs of leather gloves		For litter and belay teams. Six pair recommended.
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 as specified in UIAA Standard No. 106.
26 total	1 inch Nylon tubular webbing (4000lb minimum tensile strength mil spec) as follows		Per requirements for SAR/US&R CERT-3 applications if the ASRC is requested by state emergency management agencies.
	Color	Length (in feet)	
6	Green	5	
6	Yellow	12	
6	Blue	15	
6	Orange	20	
2	Red	30	

			<p>Color matching requirements optional for 2004 Group Recertification process. Required by December 31, 2005. The 30 foot webbing is not a component of the CERT-3 requirement.</p> <p>All webbing shall be in good working condition, to permit a field team to conduct a semi-technical evacuation in wooded terrain. <i>All soft items shall be no greater than 5 years old.</i> All items in the semi-technical evacuation kit shall be recorded in a log, which shows details of date purchased, manufacturer, manufacturer lot number and usage history, including maintenance.</p>
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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 frequencies: 155.625, 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.
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 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 frequencies: 155.625, 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 the 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.
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.

A.11 Base Kit

The Base Kit shall contain:

Quantity	Item	Comments
20	Brightly colored vests 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 is unable to see the blaze orange color required during hunting season.	For general use during hunting season. The current recommended but optional color for safety vests is lime green.
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	Hand held GPS device with minimum of 10 site way stations.	Optional: It will be recommended this will be required in the Fall 2006 Recertification process.
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A.12 Helicopter Landing Zone Kit

The Helicopter Landing Zone Kit shall contain:

Quantity	Item	Comments
6	Goggles with elastic head straps.	Increased from 2
6	Ear protection	Increased from 2
8	Bright light sticks (30 minimum high intensity orange or yellow) with end holes.	For marking an LZ. Note: Colored mats are no longer recommended.
12	6 penny flathead nails (or equivalent)	To secure the light sticks to the ground