

Typed Resource Definitions

Search and Rescue Resources



FEMA 508-8

August 2007



Background

The National Mutual Aid and Resource Management Initiative supports the National Incident Management System (NIMS) by establishing a comprehensive, integrated national mutual aid and resource management system that provides the basis to type, order, and track all (Federal, State, and local) response assets.

Resource Typing For ease of ordering and tracking, response assets need to be categorized via resource typing. Resource typing is the categorization and description of resources that are commonly exchanged in disasters via mutual aid, by capacity and/or capability. Through resource typing, disciplines examine resources and identify the capabilities of a resource's components (i.e., personnel, equipment, training). During a disaster, an emergency manager knows what capability a resource needs to have to respond efficiently and effectively. Resource typing definitions will help define resource capabilities for ease of ordering and mobilization during a disaster. As a result of the resource typing process, a resource's capability is readily defined and an emergency manager is able to effectively and efficiently request and receive resources through mutual aid during times of disaster.

Web Site

For more information, you can also refer to the National Mutual Aid and Resource Management Web site located at:

http://www.fema.gov/nims/mutual_aid.shtm.

Supersedure

This document replaces Search and Rescue Resources, dated May 2005

Changes

Changed the name of the Swiftwater/Flood Search and Dive Rescue Team to Swiftwater/Flood Search and Rescue Team. Also added a reference source to

the Comments section.



Table of Contents

Background	2
Resource Typing	2
Web Site	2
Supersedure	2
Changes	2
Canine Search and Rescue Team – Disaster/Structure Collapse Live	5
Canine Search and Rescue Team - Disaster/Structure Collapse Human Remains	6
Canine Search and Rescue Team – Land Human Remains	7
Canine Search and Rescue Team – Water Human Remains	8
Canine Search and Rescue Team – Land Live	9
Urban Search and Rescue Task Force	11
Mine Search and Rescue Team, Abandoned Mine	12
Cave Search and Rescue Team	15
Mountain & Technical Search and Rescue Team; Technical Rescue Team	20
Land Search and Rescue Team	24
Structure Collapse Rescue Squad	28
Structure Collapse Search Squad	29
Swiftwater/Flood Search and Rescue Team	30



RESOURCE		CANINE S	EARCH AND RESCUE TEAR	и – Dis	ASTER/ST	RUCTURE	COLLAPSE LIVE				
CATEGORY:	Search & Res	scue (ESF #9)			KIND:	Team	eam				
MINIMUM CAPABILITIES:		TYPE I	Type II		Type II		TYPE IV	OTHER			
COMPONENT	METRIC	TYPET	I YPE II		TYPE III		ITPEIV	OTHER			
Team	Personnel	1 Dog, 1 Handler (NIMS Credentialed Canine Search Specialist, Disaster/Structural Collapse Live- Heavy)	1 Dog, 1 Handler (NIMS Credentialed Canine Search Specialist, Disaster/Structural Collapse Live- Medium)	1 Dog, 1 Handler (NIMS Credentialed Canine Search Technician, Disaster/Structural Collapse- Light)							
Team	Capabilities	Search for and detect live human scent in failed heavy frame structures and natural debris fields.	Search for and detect live human scent in failed medium frame structures and natural debris fields.	Search for and detect live human scent in failed light frame structures and natural debris fields.							
Team	Operations	Self-sustaining for 24 hours. Capable of 12 hour search operations.	Self-sustaining for 24 hours. Capable of 12 hour search operations.		aining for 2 of 12 hour s						
Team	Equipment	Personal Protective Equipment Food and Water Basic First Aid Intra-team communications	Personal Protective Equipment Food and Water Basic First Aid Intra-team communications	Food an Basic Fi	d Water	Equipment					
COMMENTS:	Heavy frame includes heavy floor construction, pre-cast concrete construction, and steel frame construction. Medium frame includes heavy wall construction. Light frame includes wood frame construction. A canine search team must operate in conjunction with a support person who is, NIMS Credentialed as a Structural Collapse Search or Rescue Technician or higher either as part of the team or provided by the requesting organization.										



RESOURCE		CANINE SEARCE	H AND RESCUE TEAM - DIS	ASTER/STRUC	CTU	RE COL	LAPSE HUMAN REMAINS			
CATEGORY:	Search & Res	scue (ESF #9)		KIND):	Team				
MINIMUM CA	PABILITIES:	Type I	Type II	Type	- 111		Type IV	0		
COMPONENT	METRIC	TYPE I	TYPE II	Түрв	E III		TYPE IV	OTHER		
Team	Personnel	1 Dog, 1 Handler (NIMS Credentialed Canine Search Specialist, Disaster/Structurel Collapse Human Remains- Heavy)	1 Dog, 1 Handler (NIMS Credentialed Canine Search Specialist, Disaster/Structure Collapse Human Remains- Medium)							
Team	Capabilities	Search for and detect human remains in failed heavy frame structures and natural debris fields.	Search for and detect human remains in failed medium and light frame structures and natural debris fields.							
Team	Operations	Self-sustaining for 24 hours. Capable of 12 hour search operations.	Self-sustaining for 24 hours. Capable of 12 hour search operations.							
Team	Equipment	Personal Protective Equipment Food and Water Basic First Aid Intra-team communications	Personal Protective Equipment Food and Water Basic First Aid Intra-team communications							
COMMENTS:	construction. A ca	Heavy frame includes heavy floor construction, pre-cast concrete construction, and steel frame construction. Medium frame includes heavy wall construction. Light frame includes wood frame construction. A canine search team must operate in conjunction with a support person who is, NIMS Credentialed as a Structural Collapse Search or Rescue Technician or higher either as part of the team or provided by the requesting organization.								



RESOURCE		CANINE SEARCH AND RESCUE TEAM - LAND HUMAN REMAINS										
CATEGORY:	Search & Res	scue (ESF #9)		KIND:	Team							
MINIMUM CA	PABILITIES:	Type I	Type II	Type III		Type IV	071150					
COMPONENT	METRIC	- TYPE I	TYPE II	TYPE II	ı	TYPE IV	OTHER					
Team	Personnel	1 Dog, 1 Handler (NIMS Credentialed Canine Search Specialist, Land Human Remains, Small Quantity)	1 Dog, 1 Handler (NIMS Credentialed Canine Search Specialist, Land Human Remains, Large Quantity)									
Team	Capabilities	Capable of locating less than 15 grams of human remains outside of the collapsed structure environment.	Capable of locating 15 grams or more of human remains outside of the collapsed structure environment.									
Team	Operations	Self-sustaining for 24 hours. Capable of 12 hour search operations.	Self-sustaining for 24 hours. Capable of 12 hour search operations.									
Team	Equipment	Personal Protective Equipment Food and Water Basic First Aid Intra-team communications	Personal Protective Equipment Food and Water Basic First Aid Intra-team communications									
COMMENTS:		team must operate in conjunction by the requesting organization.	with a support person who is NIMS	Credentialed as a S	Search and F	Rescue Technician, Land or high	er either as part of the					



RESOURCE		CANINE SEARCH AND RESCUE TEAM – WATER HUMAN REMAINS									
CATEGORY:	Search & Res	scue (ESF #9)		KIND:	Team						
MINIMUM CA	APABILITIES:	Type I	Typ= 0	T II		T: IV	0				
COMPONENT	METRIC			TYPE II	1	TYPE IV	OTHER				
Team	Personnel	1 Dog, 1 Handler (NIMS Credentialed Canine Search Specialist, Swiftwater)	1 Dog, 1 Handler (NIMS Credentialed Canine Search Specialist, Stillwater)								
Team	Capabilities	Capable of working swiftwater/stillwater environments. Trained and equipped to perform search ops from shore and from watercraft	Capable of working stillwater environments. Trained and equipped to perform search ops from shore and from watercraft.								
Team	Operations	Self-sustaining for 24 hours. Capable of 12 hour search operations.	Self-sustaining for 24 hours. Capable of 12 hour search operations.								
Team	Equipment	Personal Protective Equipment, including: Water Helmet; Class V Water Vest; Canine PFD, Throw Rope Food and Water Basic First Aid Intra-team communications	Personal Protective Equipment, including: Class III- V Water Vest; Canine PFD, Throw Rope Food and Water Basic First Aid Intra-team communications								
COMMENTS:		search team must operate in conj d or higher. For a Type I team this				ust be NIMS Credentialed as a Sea cue Technician or higher.	arch and Rescue				



RESOURCE			CANINE SEARCH AND	RESCUE	TEAM -	- LAND LI	VE		
CATEGORY:	Search & Res	scue (ESF #9)			KIND:	Team			
MINIMUM CA	PABILITIES:	Type I	Type II		Type III		Type IV		071150
COMPONENT	METRIC	TYPE I	TYPE II		TYPE III		TYPE IV		OTHER
Team	Personnel	1 Dog, 1 Handler (NIMS Credentialed Canine Search Specialist, Land Live, Large	1 Dog, 1 Handler (NIMS Credentialed Canine Search Specialist, Land Live, Small)						
Team	Capabilities	Searching for live subjects within areas of approximately 160 acres in daylight and 40 acres at night.	Searching for live subjects within areas of approximately 40 acres in daylight.						
Team	Operations	Self-sustaining for 24 hours. Capable of 12 hour search operations.	Self-sustaining for 24 hours. Capable of 12 hour search operations.						
Team	Equipment	Personal Protective Equipment Food and Water Basic First Aid Intra-team communications	Personal Protective Equipment Food and Water Basic First Aid Intra-team communications						
COMMENTS:		search team must operate in conjuided by the requesting organization		is NIMS Cr	edentialed	d as a Searc	h and Rescue Technician	, Land or	higher either as part of



RESOURCE			URBAN SEARCH A	AND RESCUE TASK FORCE					
CATEGORY:	Search & Res	& Rescue (ESF #9) Kind: Team							
MINIMUM CA	APABILITIES:	TYPE I	TYPE II	TYPE III	Type IV	OTHER			
COMPONENT	METRIC	TYPET	I YPE II	I YPE III	IYPEIV	OTHER			
Personnel	Training and Certification	70 person Comply with NFPA 1006 and NFPA 472 requirements for their area of specialization or organization operations level for support personnel as outlined in NFPA 1670.	29 person Comply with NFPA 1006 and NFPA 472 requirements for their area of specialization or organization operations level for support personnel as outlined in NFPA 1670.	28 person Comply with NFPA 1006 and NFPA 472 requirements for their area of specialization or organization operations level for support personnel as outlined in NFPA 1670.					
Team	Training	Trained for Heavy Floor Construction, Pre-cast Concrete Construction, Steel Frame Construction, High Angle Rope Rescue (including highline systems), Confined Space Rescue (permit required), and Mass Transportation Rescue	Trained for Heavy Floor Construction, Pre-cast Concrete Construction, Steel Frame Construction, High Angle Rope Rescue (including highline systems), Confined Space Rescue (permit required), and Mass Transportation Rescue	Trained for Light Frame Construction					
Team	Sustained Operations	Capable of continuous 24 hour operations	Capable of heavy operations for 12 hours	Capable of light operations for 12 hours					
Team	Certifications	NIMS credentialed consistent with applicable job requirements	NIMS credentialed consistent with applicable job requirements	NIMS credentialed consistent with applicable job requirements					
Team	Equipment	Consistent with FEMA US&R Standardized Cache List for Type I Task Force	Consistent with FIRESCOPE Standardized Equipment List for Regional Task Forces	Consistent with FEMA US&R Standardized Cache List for Type III Task Force					
COMMENTS:									



RESOURCE			MINE SEARCH AND RES	CUE TEAM, ABA	TEAM, ABANDONED MINE					
CATEGORY:	Search & Res	scue (ESF #9)		KIND:	Team					
Мінімим С	APABILITIES:	Type I	Type II	T:/== !!!	•	Type IV OT				
COMPONENT	METRIC	TYPE I	TYPE II	TYPE II		TYPE IV	OTHER			
Team	Capability	Inactive or abandoned mMines	Active mines under construction							
Team	Personnel	Same as Type II	8 members (at least 5 qualified on breathing apparatus)							
Personnel	Training	Same as Type II plus: Understanding forces involved in technical rope systems Proficiency in the selection and set up of rescue anchors Ability to construct and operate simple and compound mechanical advantage systems, belay systems and lowering systems Proficiency in technical litter evacuations in a vertical environment	20 hour MSHA initial training on use of breathing apparatus Refresher training sessions underground with breathing apparatus at least every 6 months Use and care of auxiliary mine rescue equipment Mine searching and mapping Mine ventilation procedures and equipment Mine firefighting Any advanced mine rescue training and procedures, as described by MSHA Basic First Aid/CPR							



RESOURCE			MINE SEARCH AND RES	CUE TEAM, A	ВА	NDONED	MINE	
CATEGORY:	Search & Resc	cue (ESF #9)		KINI	D:	Team		
MINIMUM C	APABILITIES:	TYPE I	Type II	Typ	Type III		TYPE IV	OTUED
COMPONENT	METRIC	IYPEI	I YPE II	ITP	'E III		I YPE IV	OTHER
Equipment	Breathing apparatus	Same as Type II	6 4-hour self-contained oxygen breathing apparatus and any necessary equipment for testing such breathing apparatus before putting it into service 1 extra, fully charged, oxygen bottle 6 spare coolant canisters compatible with the breathing apparatus 1 oxygen pump or cascading system with portable supply of pressurized oxygen to be compatible with the breathing apparatus					
Equipment	Lamps	Same as Type II	10 permissible cap lamps and charging rack					
Equipment	Gas Detectors	Same as Type II	2 gas detectors capable of reading oxygen levels, and any flammable or poisonous gases encountered or anticipated at the rescue location					
Equipment	Communications	Same as Type II	1 portable mine rescue communications system at least 1,000 feet in length					
Equipment	Repair	Same as Type II	Necessary spare parts and tools for repairing the breathing apparatus or communications system					
Equipment	Rigging	Sufficient rope and hardware to support complex rigging						



RESOURCE		MINE SEARCH AND RESCUE TEAM, ABANDONED MINE										
CATEGORY:	Search & Reso	cue (ESF #9)			KIND:	Team						
MINIMUM CA	APABILITIES:	TYPE I	Type II		Type III		TYPE IV	OTHER				
COMPONENT	METRIC	IYPEI	I YPE II		TYPE III		IYPEIV	OTHER				
Equipment	Personal	Same as Type II, plus full body harness	Head protection compatible with cap lamps, gloves, flame protective outerwear, footwear appropriate to the environment									
Transportation	Resources	Same as Type II	Transportation for all personnel and equipment to mine site									
COMMENTS:		•										



RESOURCE											
CATEGORY:	Search & Res	scue (ESF #9)			KIND:	Team					
MINIMUM CA	METRIC	TYPE I	TYPE II		TYPE III		TYPE IV	OTHER			
Team Personnel	Personnel Cave	Same as Type III Same as Type II, plus:	Same as Type III Same as Type III, plus:	Specialis	Type IV, plus:		Field Team Leader Field Team Members Basic understanding of the				
	Training	Proficiency in cave and surface search Proficiency in high- and low-angle technical rescues and evacuations from dry, wet, and multi-drop caves	Proficiency in vertical environments greater than 100 feet in depthAbility to safely traverse multi-drop caves Ability to rapidly ascend a rope next to a litter during a litter raise		carry additio quipment to a the cave		cave environment, including regional differences in ambient cave temperature, normal hazards such as risk of flooding, hypothermia, and potential changes in cave environment because of seasonal variations and outside weather Proficiency in crawling, climbing and moving over uneven surfaces and breakdown areas covered in mud, sand, or water Familiarity with chimneying, bridging, and other basic climbing techniques used in moving through caves Ability to move comfortably and efficiently in small spaces Ability to rappel and ascend 66' of static line using standard single rope techniques Proficiency in changing over from ascent to rappel and rappel to ascent Ability to carry personal equipment to and through the cave				



RESOURCE			Cave Searc	CH AND F	RESCUE T	EAM		
CATEGORY:	Search & Res	cue (ESF #9)			KIND:	Team		
MINIMUM CA	PABILITIES:	Type I	Type II	T III			Type IV	OTUES
COMPONENT	METRIC	TYPE I	TYPE II		TYPE III		TYPE IV	OTHER
							Ability to identify fragile cave environments and take measures to protect them Ability to maintain primary light sources	
Personnel	Navigation Training	Same as Type II	Same as Type III, plus: Proficiency in back-country navigation and route finding with a map and compass, use of GPS and UTM coordinate system	Knowledgeresent of Proficier maps Ability to	Type IV, plu ge of common on cave map acy in reading use topogra caves	on symbols s g cave	Familiar with cave maps and topographic maps	
Personnel	Basic Training	Same as Type II, plus; Ability to plan, organize, and direct cave rescue and search missions using ICS Experience with ICS Unified Command	Same as Type III, plus: Ability to direct activities according to ICS Technical proficiency in single person rope rescue techniques Proficiency in crack and crevice rescue Proficiency in creating load distributing and artificial anchors in-cave	Capable Proficien the vertic Proficien rigging be for haul a Proficien for extrice Familiarit technique rescue Ability to	to locate caves Same as Type IV, plus: Capable of operating within ICS Proficiency in edge tending for the vertical environment Proficiency in preparing and rigging basket and flexible litters for haul and lower operations Proficiency in patient packaging for extrication; Familiarity with the basic techniques for crack and crevice rescue Ability to improvise patient packaging		Familiarity with basic cave search techniques Familiarity with the NIIMS ICS of incident management Proficiency in establishing simple anchors and fixing lines for personal rappels and ascents Awareness of the psychological and physical patient considerations in rescue extrications of long duration Proficiency in basic in-cave litter movement techniques Ability to assist in patient packaging for extrication Specialized training required to safely and appropriately use communication and technical	



RESOURCE			CAVE SEAR	CH AND F	RESCUE T	EAM		
CATEGORY:	Search & Res	scue (ESF #9)			KIND:	Team		
MINIMUM CA	PABILITIES:	T	-				T N/	
COMPONENT	METRIC	TYPE I	TYPE II		TYPE III		TYPE IV	OTHER
							rescue equipment	
Personnel	Technical Training	Same as Type II, plus: Proficiency in the use, placement, and analysis of mechanical anchors and anchor systems Proficiency in use of highlines and guiding lines Proficiency in the organization and direction of technical cave rescue searches and rescuesfor regions/caves with swiftwater Proficiency in working in and around moving water underground Swiftwater/Flatwater Ttchnician for regions/caves with bad air: Proficiency in the use of a 3- gas monitor (oxygen, hydrogen sulfide and carbon monoxide) and ability to understand its output	Same as Type III, plus: Understanding of the mechanical forces involved in technical rescue systems Proficiency in the selection and setup of rescue anchor systems Proficiency at estimating component and system load ratios and assessing safety factors Ability to rig and operate simple and compound 4:1, 6:1, and 9:1 mechanical advantage systems Proficiency in rigging and use of counterbalance systems Proficiency in technical litter evacuations and transport including litter raises and lowers on breakdown, in freefall and other vertical environments, in narrow or waterfall situations, and in multidrop caves	Proficient knots and application efficiencial efficiencial proficient simple are lower systems. Familiarity to haul systems. Familiarity to in case of the proficient operating communical Ability to radio. Proficient appropria	cy in establish chors for har tems establish 2:1 ems, fixed bit systems, and y with basic establish and nome maintain see	ommon of their ngth shing iul and I and 3:1 rake d belay search enclature ene integrity shing and ed ems andheld	Ability to serve as a member of a haul or lower team and familiarity of appropriate commands Ability to serve as a member of an evacuation team Other skills or abilities as identified by the team's operations leader	
Personnel	Survival Training	Same as Type III	Same as Type III		Type IV, plu ce in wet and		Operational proficiency in the cave environment for the region	
Personnel	Medical Specialist Training	National Standard EMT-B, with BTLS or PHTLS	National Standard EMT-B, or advanced wilderness first responder; BTLS	Same as	Type IV		Basic First Aid/CPR	



RESOURCE		CAVE SEARCH AND RESCUE TEAM										
CATEGORY:	Search & Res	scue (ESF #9)			KIND:	Team						
MINIMUM CA	APABILITIES:	TYPE I	Type II		Type III		TYPE IV	OTUED				
COMPONENT	METRIC	TYPET	I YPE II				IYPEIV	OTHER				
Team	Sustained Operations	48 hours or more	36 hours	24 hours			24 hours					
Team	Search and Rescue Capabilities	Same as Type II with experience complex rescue environments as appropriate for region of activity	Same as Type III with experience in wet and vertical caves and crack/crevice situations	Same as	Type IV		Trained cave rescue and cave search personnel with experience in relatively dry caves with moderate vertical situations					
Equipment	Team Supplies and Materials	Same as Type III, plus: Ability to support more than 2 patients at 2 separate incidents; Sufficient rope and hardware to support complex rigging, multiple drops, highline, etc. In regions/caves with swiftwater: Appropriate floatation equipment for patient(s) and other necessary swiftwater-specific rigging equipment In regions/caves with bad air: 3-gas monitors	Same as Type III, plus: Ability to respond to two incave patients simultaneously	Same as	Type IV		Harnesses, Helmets; Basic hardware (including: 7/16 or .5" static kernmantle rope, webbing, pulleys, carabineers, lowering devices, etc.) Field telephones and wire Radio communications on a common frequency Patient packaging materials Litters appropriate for situation Entrance control materials; Edge protection					
Equipment	Personal Supplies and materials	Same as Type II, plus food for 48 hours In regions/caves with swiftwater: Appropriate swiftwater gear, PFD, personal throwbags,	Same as Type III, plus food for 36 hours	Same as where ap	Type IV, plu propriate	s wetsuit	Personal protective equipment including: Footwear, underwear, and outerwear suited to the particular cave environment Sewn seat harness Personal descending and ascending equipment with 2 points of attachment above the					



RESOURCE		CAVE SEARCH AND RESCUE TEAM									
CATEGORY:	Search & Res	scue (ESF #9)		K	IND:	Team					
MINIMUM CA	PABILITIES:	Type I	Type II		ne III		TYPE IV	OTUED			
COMPONENT	METRIC	TYPE I	I YPE II	11	PE III		IYPEIV	OTHER			
							waist				
							Helmet (with 3- or 4-point chinstrap suspension system)				
							Gloves with leather palms				
							3 independent sources of light, each capable of exiting the cave; 2 of which must be helmet-mountable				
							Batteries (carbide if appropriate)				
							Quantity of water appropriate for the conditions				
							Food for 24 hours				
							Knife/multi-tool				
							Personal first aid kit				
							Waterproof pen/pencil and paper				
							Appropriate pack to carry personal gear; food for 24 hours				
Equipment	Medical Supplies and Materials	Same as Type IV	Same as Type IV	Same as Type	· IV		As appropriate for level of training, as applied in wilderness/cave environment and meeting local protocols and requirements				
COMMENTS:		1	1								



RESOURCE			MOUNTAIN & TECHNICA				EAM;	
DESCRIPTION	environments and including severe snow a Technical Res	as well as technical rope a alpine environments (gene and ice environments.	es search and rescue in land nd rock environments and up rally above 6,000 ft MSL), ar chnical and technical rescue orted" environments.	p to nd				
CATEGORY:	Search & Res	cue (ESF #9)			KIND:	Team		
MINIMUM CA	APABILITIES:	TYPE	TYPE II		Type II		TYPE IV	TYPE V
COMPONENT	METRIC	IIFEI	ITE		117611	•	ITELV	TIFE V
Team	Prerequisite	Same as Type IV	Same as Type IV	Same a	Same as Type IV		Meets all criteria of a Type I Land SAR Team	None
Team	Specific Resource Name	Mountain & Technical SAR Team	Mountain & Technical SAR Team	Mountain & Technical SAR Team			Mountain & Technical SAR Team	Technical Rescue Team
Team	Terrain, Search, and Rescue Capabilities	Type II plus multiple pitches in alpine environment above timberline including glacier, crevasse and vertical ice	Type III plus multiple pitches in mountain environments up to timberline, extreme snow and non-vertical ice conditions, and including avalanche SAR	remote four season weather, wilderness and unsupported environments (poor or no infrastructure)		weather, ipported	Up to and including YDS Class 4 & 5 terrain (steep and high angle and vertical technical search and rescue) in urban/suburban supported environments (with infrastructure). May require multiple pitch capability.	Up to and including YDS Class 4 & 5 terrain (steep and high angle and vertical technical rescue) in urban/suburban supported environments (with infrastructure). May require multiple pitch capability.
Personnel	Length of Team Self- Sustainability	Same as Type IV or as requested by the incident's management team	Same as Type IV or as requested by the incident's management team	request	s Type IV or ed by the inc ement team		Minimum 72 hours, excluding travel.	Minimum 72 hours, excluding travel.
Personnel	Team Composition	Same as Type III	Same as Type III	addition	s Type IV, pl al Squads a: ncident's ma	s needed	Minimum 6 members: At least 1 Mountain SAR Squad Officer and 5 Mountain SAR Technicians, at least 1 of whom shall be a Medical Specialist. Others may also be a Logistics or other Technical Specialist. For every 2-3 Squads, add 1 Mountain SAR ST/TF Leader and 1 Logistics Specialist.	Minimum 6 members, excluding "search" certification/training requirements, and including at least 1 Technical Rescue Squad Officer and 5 Technical Rescue Technicians, at least 1 of whom shall be a Medical Specialist.



RESOURCE		MOUNTAIN & TECHNICAL SEARCH AND RESCUE TEAM; TECHNICAL RESCUE TEAM Intain & Technical SAR Team provides search and rescue in land SAR											
DESCRIPTION	environments and including severe snow a Technical Res	as well as technical rope a alpine environments (generand ice environments.	nd rock environments and uprally above 6,000 ft MSL), are chnical and technical rescue	p to nd									
CATEGORY:	Search & Res	scue (ESF #9)			KIND:	Team							
MINIMUM CA	PABILITIES:	TYPE I	Type II		Type II	I	TYPE IV	TYPE V					
COMPONENT	METRIC	TIFET	TIFE		117611	•	TIFEIV	I IFE V					
								Others may also be a Logistics or other Technical Specialist.					
								For every 2-3 Squads, add 1 Technical Rescue ST/TF Leader and 1 Logistics Specialist					
Personnel	Medical Specialist	Same as Type IV, with preference to EMT-Paramedic level (USDOT)	Same as Type IV.	Same a	s Type IV.		Minimum of a National Standard First Responder (preferably EMT-Basic) with additional remote or wilderness-type training	Minimum of a National Standard First Responder (preferably EMT-Basic) with additional remote or wilderness-type training					
Personnel	Training	Same as Type II, plus glacier, crevasse and vertical ice travel and SAR.	Same as Type III, plus extreme snow and non-vertical ice search and rescue; avalanche safety and SAR.	backco	s Type IV, pi untry and mo r and navigat	untain	NIMS Mountain/Technical SAR Technician, including: NIMS Land SAR Technician Flat, low, high angle and vertical technical rescue Ropes, knots, simple through complex mechanical advantage and highline forces and systems including anchors, raising and lowering	NIMS Mountain/Technical Rescue Technician, excluding search requirements, and including: Flat, low, high angle and vertical technical rescue Ropes, knots, simple through complex mechanical advantage and highline forces and systems including anchors, raising and					



RESOURCE		MOUNTAIN & TECHNICAL SEARCH AND RESCUE TEAM; TECHNICAL RESCUE TEAM									
			TECHNICA	AL RES	CUE TEAM						
DESCRIPTION	environments and including severe snow a Technical Res	as well as technical rope a alpine environments (generand ice environments.	es search and rescue in land nd rock environments and up rally above 6,000 ft MSL), ar chnical and technical rescue orted" environments.	o to nd							
CATEGORY:	Search & Res	scue (ESF #9)			KIND:	Team					
MINIMUM CA	PABILITIES:	TYPE I	Type II		Type II	i	Type IV	TYPE V			
COMPONENT	METRIC	11751	TIFE		117611	1	TIFEIV	I I I E V			
								lowering.			
Equipment	Rescue Supplies and Materials	Same as Type II, plus glacier, crevasse and vertical ice travel and SAR equipment, such as ice axes	Same as Type III, plus extreme snow, non-vertical ice and avalanche-specific SAR equipment, such as victim evacuation devices, probe poles and shovels	addition anchors evacuat technica	Same as Type IV, plus additional equipment for anchors, systems, victim evacuation devices and technical operations in this environment and terrain		Hardware, software, ropes, victim evacuation devices as required by AHJ to accomplish the above listed operations	Hardware, software, ropes, victim evacuation devices as required by AHJ to accomplish the above listed operations			
Equipment	PPE & Clothing	Same as Type II, plus glacier and vertical ice travel-specific footwear and tools for all field members	Same as Type III, plus avalanche beacon, snow and ice-specific footwear, eyewear and tools for all field members	addition equipme	Same as Type IV, plus additional clothing and safety equipment for this operating environment and terrain		Fair and foul weather personal and team PPE, clothing and SAR equipment, including harnesses, helmets	Fair and foul weather personal and team PPE, clothing and rescue equipment, including harnesses, helmets			
Personnel	Overhead Incident Management	The overhead management team must include personnel with, at minimum, search and rescue management experience, as recognized by their AHJ	Same as Type IV	Same a	s Type IV		An additional Mountain SAR Technical Specialist may be necessary as a technical advisor to the Incident Management Team	An additional Technical Rescue Technical Specialist may be necessary as a technical advisor to the Incident Management Team			
Equipment	Communications	Same as Type IV	Same as Type IV	Same a	s Type IV		Portable and mobile radios for team communications. Cellular or satellite phone(s) IMT must address need for interoperability within the incident, including with aircraft	Portable and mobile adios for team communications Cellular or satellite phone(s). IMT must address need for interoperability within the incident, including			



RESOURCE				MOUNTAIN & TECHNICA	AL SEAR	RCH AND R	ESCUE T	EAM;		
				TECHNIC	AL RES	CUE TEAM				
DESCRIPTION	environments and including severe snow a Technical Res	ountain & Technical SAR Team provides search and rescue in land SAR navironments as well as technical rope and rock environments and up to and including alpine environments (generally above 6,000 ft MSL), and evere snow and ice environments. Sechnical Rescue Team provides non-technical and technical rescue in the department of the de								
CATEGORY:	Search & Res	Search & Rescue (ESF #9)					Team			
MINIMUM CA	PABILITIES: Type II Type II			Type II	Type III			TYPE IV		TYPE V
COMPONENT	METRIC		11761	117611		1176111	l	ITELV		IIFE V
										with aircraft.
Equipment	Medical Supplies and Materials	Same as Ty	pe IV	Same as Type IV	Same a	s Type IV		As appropriate for level of training, as applied in rer disaster or incident of na significance environment support team and survivo	note, tional to	As appropriate for level of training, as applied in remote, disaster or incident of national significance environment to support team and survivors
COMMENTS								,	-	



RESOURCE		LAND SEARCH AND RESCUE TEAM										
DESCRIPTION	to and including	ch and rescue in non-techning low angle and possibly so erally considered less than 6	cree-type evacuations at low									
CATEGORY:	Search & Res	cue (ESF #9)			KIND:	Team						
MINIMUM CA	PABILITIES:											
COMPONENT	METRIC	TYPE I	TYPE II	TYPE III		III	TYPE IV	COMMENTS				
Team	Terrain, Search, and Rescue Capabilities	Same as Type II	Same as Type III, plus capability in YDS Class 3 terrain (scrambling where rope may be required)	capability in YDS Class 2 terrain (simple scrambling, possible occasional use of hands, low angle)		class 2 Imbling,	NIMS Land SAR Technicians with search and rescue capability in Yosemite Decimal System (YDS) Class 1 terrain (non-technical, flat terrain), including evacuation and carryouts					
Team	Weather Capabilities	Three season (summer, spring, fall) capabilities	Three season (summer, spring, fall) capabilities			nmer, spring,	Three season (summer, spring, fall) capabilities					
		The incident's management team (IMT) shall require a team whose AHJ will attest that they have additional capabilities for incidents involving extreme heat, wet, cold or snow	The incident's management team shall require a team whose AHJ will attest that they have additional capabilities for incidents involving extreme heat, wet, cold or snow	The incident's management team shall require a team whose AHJ will attest that they		est that they eabilities for extreme	The incident's management team shall require a team whose AHJ will attest that they have additional capabilities for incidents involving extreme heat, wet, cold or snow					
Personnel	Team Composition	Same as Type III	Same as Type III	by the incident's management team			At least 1 Land SAR pr Mountain SAR Squad Officer and 5 Land SAR Technicians, at least 1 of whom shall be a Medical Specialist; others may also be a Logistics or other Technical Specialist. For every 2-3 Squads, add 1 Land SAR or Mountain ST/TF Leader and 1 Logistics					
Personnel	Length of Team Self- Sustainability	Same as Type IV or as requested by the incident's management team	Same as Type IV or as requested by the incident's management team	request	s Type IV or ed by the in ment team	cident's	Specialist Minimum 72 hours, excluding travel					



RESOURCE			LAND SEARC	CH AND F	RESCUE T	EAM		
DESCRIPTION	to and including	ch and rescue in non-techning low angle and possibly so erally considered less than 6	cree-type evacuations at lo	-				
CATEGORY:	Search & Res	cue (ESF #9)			KIND:	Team		
MINIMUM CA	PABILITIES:		Type II	1	TYPE IV	COMMENTO		
COMPONENT	METRIC	TYPE I	TYPE II		TYPE II	ı	I YPE IV	COMMENTS
Personnel	Medical Specialist	Same as Type IV	Same as Type IV	Same a	Same as Type IV		Minimum of a National Standard First Responder (preferably EMT-Basic) with additional remote or wilderness-type training.	
Personnel	Overhead Incident Management	The overhead management team must include personnel with, at minimum, search and rescue management experience, as recognized by their AHJ	Same as Type IV	Same as Type IV			An additional Land SAR or Mountain SAR Technical Specialist may be necessary as a technical advisor to the Incident Management Team.	



RESOURCE	LAND SEARCH AND F	LAND SEARCH AND RESCUE TEAM						
	Provides search and rescue in non-technical land-based environments up to and including low angle and possibly scree-type evacuations at lower altitudes (generally considered less than 6,000 ft MSL).							
CATEGORY:	Search & Rescue (ESF #9)	KIND:	Team					

MINIMUM CA	PABILITIES:	Type I	Type II	Type III	Type IV	Comments
COMPONENT	METRIC	TYPE I	TYPE II	TYPE III	TYPE IV	COMMENTS
Personnel	Training	Same as Type IV	Same as Type IV	Same as Type IV	NIMS Land SAR Technician minimum, including:	
					ICS	
					Operating personal and team equipment	
					Individual and team self- sustainability, safety and survival	
					First Aid	
					Basic and remote area land navigation including map and compass	
					Basic helicopter use and safety	
					Clue and tracking awareness	
					Basic search tactics and techniques	
					Water SAR awareness	
					HazMat awareness	
Vehicle	Transportation	Same as Type IV	Same as Type IV	Same as Type IV	Minimum 1 vehicle that can transport the team throughout or at least to the area of operations	
					4x4 may be required by the incident's management team	
Equipment	PPE & Clothing	Same as Type IV	Same as Type IV	Same as Type IV	Appropriate level of PPE and clothing for working environment	



RESOURCE			LAND SEA	RCH AND F	RESCUE T	EAM		
DESCRIPTION	to and including		nical land-based environm scree-type evacuations at n 6,000 ft MSL).					
CATEGORY:	Search & Res	cue (ESF #9)			KIND:	Team		
MINIMUM CA	PABILITIES: TYPE I TYPE II				Type II		Type IV	COMMENTS
COMPONENT	METRIC	ITPET	ITPEII		ITPEII		ITPEIV	COMMENTS
Equipment	Communications	Same as Type IV	Same as Type IV	Same a	s Type IV		Portable and mobile radios for team communications	
							Cellular or satellite phone(s)	
							IMT must address need for interoperability within the incident, including with aircraft	
Equipment	Search & Rescue	Same as Type IV	Same as Type IV	Same a	s Type IV		Equipment to support remote rescue and recovery (carrying devices such as litters, etc.)	
Equipment	Medical	Same as Type IV	Same as Type IV	Same a	s Type IV		As appropriate for level of training, as applied in remote, disaster or incident of national significance environment to support team and survivors.	
COMMENTS:				•			<u>.</u>	



RESOURCE	STRUCTURE COLLAPSE RESCUE SQUAD							
CATEGORY:	Search & Res			KIND:	Team			
MINIMUM CAPABILITIES:		Typ= 1 (11= yyg)	T 11 (14	_	/DE III /I :	\		071150
COMPONENT	METRIC	TYPE I (HEAVY)	TYPE II (MEDIUM)	'	YPE III (LIGHT)			OTHER
Team	Number of People	6-person	6-person	3-person				
Team	Capability	Trained for Heavy Floor Construction, Pre-cast Concrete Construction, Steel Frame Construction, High Angle Rope Rescue (including highline systems), Confined Space Rescue (permit required), and Mass Transportation Rescue	Trained for Heavy Wall Construction, High Angle Rope Rescue (not including highline systems), Confined Space Rescue (permit required), and Trench and Excavation Rescue	_	me construc pe rescue	ction, low		
Personnel		1 NIMS Credentialed Rescue Squad Officer and 5 NIMS Credentialed Rescue Technicians	1 NIMS Credentialed Rescue Squad Officer and 5 NIMS Credentialed Rescue Technicians	Squad (Credentiale Officer and 2 ialed Rescu	NIMS		
Team	Sustained Operations	Capable of 12 hour operations	Capable of 12 hour operations	Capable	of 12 hour	operations		
Team	Equipment	Consistent with FIRESCOPE standardized list of equipment	Consistent with FIRESCOPE standardized list of equipment		ent with FIRI dized list of e			
COMMENTS:	Squads come with communications and transportation capability.							



RESOURCE	STRUCTURE COLLAPSE SEARCH SQUAD							
CATEGORY:	Search & Res	scue (ESF #9)		KIND:	Team			
MINIMUM CAPABILITIES:		TYPE I (HEAVY)	Type II (Menus)	Type III (Lique)		CUT)		OTHER
COMPONENT	METRIC	TYPET(HEAVY)	TYPE II (MEDIUM)	TYPE III (LIGHT)				
Team	Number of People	5-person	5-person	3-persor	1			
Team	Capability	Trained for Heavy Floor Construction, Pre-cast Concrete Construction, Steel Frame Construction, High Angle Rope Rescue (including highline systems), Confined Space Rescue (permit required), and Mass Transportation Rescue	Trained for Heavy Wall Construction, High Angle Rope Rescue (not including highline systems), Confined Space Rescue (permit required), and Trench and Excavation Rescue		me construc pe rescue	ction, low		
Team	Personnel	1 NIMS Credentialed Search Squad Officer, 2 NIMS Credentialed Search Technicians, and 2 NIMS Canine Search Specialists,, Disaster/Structuree Collapse Live, Heavy	1 NIMS Credentialed Search Squad Officer, 2 NIMS Credentialed Search Technicians, and 2 NIMS Canine Search Specialists, Disaster/Structure Collapse Live, Medium	Squad C Credent Officer, a Search S	Credentialer Officer and 1 ialed Search and 2 NIMS Specialists, /Structure C ht	NIMS Squad Canine		
Team	Sustained Operations	Capable of 12 hour operations	Capable of 12 hour operations	Capable	of 12 hour	operations		
Team	Equipment	Audio and electronic visual search equipment						
COMMENTS:	Squads come with communications and transportation capability.							



RESOURCE	SWIFTWATER/FLOOD SEARCH AND RESCUE TEAM							
CATEGORY:	Search & Res	cue (ESF #9)	KIND:	Team				
MINIMUM CAPABILITIES:		TYPE I	T !!	Type		Type IV	OTHER	
COMPONENT	METRIC	IYPEI	TYPE II	TYPE III		ITPEIV		
Personnel	Team Composition	14 member team	14 member team	5 member team		5 member team		
		1 Task Force Leader	1 Task Force Leader	1 Squad Officer		1 Squad Officer		
		2 Squad Officers	2 Squad Officers	4 rescue technicians**		4 rescue technicians**		
		11 rescue technicians **	11 rescue technicians **					
Personnel	Minimum number Swiftwater/Flood Rescue Technician- Animal Rescue (SAR JT 22)	2	2	1		0		
Personnel	Minimum number Helicopter Rescue Technician (SAR JT 4)	4	0	0		0		
Personnel	Minimum number Boat Operators (SAR JT 20)	4	4	3		5 (endorse vessel operator such as john boat, airboat, PWC) ²		
Personnel	Minimum number Boat Bowman (SAR JT 19) 1	4	4	2		0		
	Minimum number Swiftwater/Flood Rescue Technical Specialist (SAR JT 21)	1	1	0		0		
Personnel	Number and level EMTs	2 EMT – P (Medical Specialist; SAR JT 12)	1 EMT-P (Medical Specialist; SAR JT 12)	1 EMT-	В	0		
		12 EMT-B	13 EMT-B					
Personnel	Minimum number Logistics Specialist (SAR JT 11)	2	2	1		1		
Team	Sustained	24-hour operations	24-hour operations	12-hour ope	rations	12-hour operations		



RESOURCE	SWIFTWATER/FLOOD SEARCH AND RESCUE TEAM							
CATEGORY:	Search & Res	cue (ESF #9)		KIND: Team				
MINIMUM CA	APABILITIES:	T	T	T):== !!!	Type IV	0=::==		
COMPONENT	METRIC	TYPE I	TYPE II	TYPE III	TYPE IV	OTHER		
	operations							
Team	Capabilities	Manage search operations Power/paddle vessel operations Helicopter rescue operational Technical rope systems (including high line) HazMat (first responder operations) Animal rescue ALS BLS Communications Logistics Offensive water rescue Flood response management	Manage search operations Power/paddle vessel operations Technical rope systems (including high line) HazMat (first responder operations) Animal rescue ALS BLS Communications Logistics Offensive water rescue Flood response management	Manage search operations Power/paddle vessel operations Low angle rope rescue HazMat (first responder operations) Animal rescue BLS Communications Logistics Offensive water rescue Flood response management	Participate in search, rescue and evacuation operations Power/paddle vessel operations HazMat (first responder operations) Communications Logistics Offensive water rescue			
Team	Training	Search management/operations Class 3 paddle and powerboat skills Helicopter operations Technical rope rescue (high angle) HazMat (first responder operations) Contact and self-rescue skills ICS	Search management/operations Class 3 paddle and powerboat skills Technical rope rescue (high angle) HazMat (first responder operations) Contact and self-rescue skills ICS Swiftwater Rescue Technician	Search management/operations Class 3 paddle and powerboat skills Low angel rope rescue HazMat (first responder operations) Contact and self-rescue skills ICS Swiftwater Rescue Technician	Class 1 paddle/power boat skills Contact and self-rescue skills HazMat (first responder operations) ICS Swiftwater Rescue Technician			



RESOURCE	SWIFTWATER/FLOOD SEARCH AND RESCUE TEAM									
CATEGORY:	Search & Rescue (ESF #9) KIND: Team									
MINIMUM CAPABILITIES:				T. (2-111						
COMPONENT	METRIC	TYPE I	TYPE II	TYPE III	TYPE IV	OTHER				
		Swiftwater Rescue Technician Flood response management	Flood response management	Flood response management						
Team	Medical Certification	ALS BLS	BLS	BLS	Advanced First Aid & CPR					
Equipment	Transportation	Equipment trailer	Equipment trailer	Equipment trailer	Equipment trailer					
	Resources	Personnel support vehicle	Personnel support vehicle	Personnel support vehicle	Personnel support vehicle					
Equipment	Communication	Cell phone	Cell phone	Cell phone	Cell phone					
		Portable radio	Portable radio	Portable radio	Portable radios					
		Batteries	Batteries	Batteries	Batteries					
		Aircraft radio								
Equipment	Medical	See FIRESCOPE SEL	See FIRESCOPE SEL	See FIRESCOPE SEL	See FIRESCOPE SEL					
Equipment	Personal	See FIRESCOPE SEL	See FIRESCOPE SEL	See FIRESCOPE SEL	See FIRESCOPE SEL					
Vehicle	Rescue Boat	2 - Fueled	2 - Fueled	1 – Fueled	1-Fueled					
COMMENTS:	and effectively co Rescue definition		listing of recommended training, sar/ICS-SF-SAR-020-1.pdf.		Loue teams come with all team equiperence the FIRESCOPE Swiftwater/					
FOOTNOTES:	¹ Boat operators may be sent in lieu of bowman at the discretion of the AHJ. ² Type IV must specify vessel kind upon request. Ordering shall be Type IV A: John boats; Type IV B: Airboats; Type IV C: PWC									