



### Resource Typing Definitions - I

First 60 Resources



January 2004



# Emergency Management Resources



		RESC	URCE: DONATIONS MANA	GEMENT F	ERSONNE	L/TEA	AM .	
CATEGORY:		nd Donations (ESF 15); Oth	er Command Support/Mana	agement	KIND:	Tea	m	
	Functions							
MINIMUM CA		Type I	TYPE II		TYPE III		TYPE IV	Other
Component	Metric	V						
Donations Team Leader	Size of Event/Level of Expertise Needed; Training/ Experience	X (See capabilities description in Comments section)						
Donations Specialist (Type II Team may be referred to as Donations Strike Team)	Training/ Experience	X (See capabilities description in Comments section)	X (See capabilities description in Comments section)					
COMMENTS:	jurisdiction after in Donations Special Possesses an ov Agency/Donations operations. Capa supply system, an Donations Special Possesses an ov (DCC) and the Ph coordination of joi	mpact to assist in the organization alist/Team Leader erall knowledge of all aspects of a Coordination Team (DCT) coordination Team (DCT) coordination to the purisdiction (if not recommends the establishment list erall knowledge of all aspects of chone Bank (if required). This inclinit activities to support donations	two persons trained and experient and operations of local or state donations management at all lever dination. Assists the NGOs, State required) in the establishment of not of local distribution centers, as donations management at all lever udes facility, data management, a management operations. Capable overall disaster supply system, a	donations managed by the control of	ced in actual overnment in y warehouse, of assisting in perations. Ca	donating the control the phonon (if reconstruction)	rt of the affected jurisdiction.  ons operations. Capable of provious production of joint activities to supation of donated goods and servious establishment of the Donat of assisting the NGOs, State, and equired) in the establishment of a	ding advice on Voluntary oport donations management ces into the overall disaster dions Coordination Center local government in the multiagency warehouse,



			RESOURCE: EVACUATION	LIAISON TEAM (ELT)		
CATEGORY:	Serves as an	extension of ESF 1; Transp	ortation (ESF 1)	KIND:	eam	
Components a	nd Capabilities	: Variations may exist accordi	ng to level of experience amo	ng team members.		
MINIMUM CAP	ABILITIES:	TYPE I	Type II	Type III	TYPE IV	Other
Component	Metric					
Emergency Management Specialist Information Technology Specialist Department of	Training, Certification (where available), and Experience Scalable	X				
Transportation Specialist	based on number of					
Deployment Equipment  Comments:	specialists needed  Provides suppor	Two laptop computers with pre-loaded Internet access programs; HURREVAC loaded (with requesting community clearance ti mes in EVACDATA folder in HURREVAC; Internet browser (Explorer preferred); access to ETIS (obtain appropriate state password upon arrival from the local EOC) Two telephones (landline or cellular)	sponse efforts by compiling, anal	vzina. and disseminating traffi	c-related information that can be use	d to facilitate the rapid.
COMMENTS:	efficient, and saf	t in state and local emergency re- e evacuation of threatened popul ft profile, submitted by State of F	ations. Primarily operates in the	state or local EOC as an exter	c-reialeu information that can be use nsion of ESF 1—Transportation.	и то гасинате тпе гаріа,



### RESOURCE: EOC MANAGEMENT SUPPORT TEAM

CATEGORY: Other: Command & Operations Support/Management Functions KIND: Team

Components and Capabilities: An Incident Commander is an optional member of the team, since it is assumed that an incident command/lead has already been established

under which these support functions will operate. Refer also to "Incident Management Team."

ABILITIES:	TYPE I	Type II	Type III	Type IV	OTHER
Metric					
	Yes	Yes	Yes	Yes	
	Yes	Yes	Yes	Yes	
See					
Comments	Optional	Optional	Optional		
for Metrics					
		Yes			
	Metric  See Comments for Metrics	Yes  Yes  Yes  See  Comments for Metrics  Optional	Metric     Yes     Yes       Yes     Yes       See     Optional     Optional       for Metrics     Yes	Metric       Yes     Yes     Yes       Yes     Yes     Yes       See     Optional     Optional       for Metrics     Yes	Metric     Yes     Yes     Yes       Yes     Yes     Yes     Yes       See     Comments for Metrics     Optional     Optional

### COMMENTS:

Provides support to an Incident Commander. Typically comprised of an Information Officer, Liaison Officer, Safety Officer, and Administrative Aide, although some functions may be optional.

Information Officer: The Information Officer is responsible for developing and releasing information about the incident to the news media, to incident personnel, and to other appropriate agencies and organizations. Only one Information Officer will be assigned for each incident, including incidents operating under Unified Command and multijurisdiction incidents. The Information Officer may have assistants as necessary, and the assistants may also represent assisting agencies or jurisdictions.

Liaison Officer: Incidents that are multijurisdictional, or have several agencies involved, may require the establishment of the Liaison Officer position on the Command Staff. Only one Liaison Officer will be assigned for each incident, including incidents operating under Unified Command and multijurisdiction incidents. The Liaison Officer may have assistants as necessary, and the assistants may also represent assisting agencies or jurisdictions. The Liaison Officer is the contact for the personnel assigned to the incident by assisting or cooperating agencies. These are personnel other than those on direct tactical assignments or those involved in a Unified Command.

Safety Officer: The Safety Officer's function is to develop and recommend measures for assuring personnel safety, and to assess and/or anticipate hazardous and unsafe situations. Only one Safety Officer will be assigned for each incident. The Safety Officer may have assistants as necessary, and the assistants may also represent assisting agencies or jurisdictions. Safety assistants may have specific responsibilities such as air operations, hazardous materials, etc.

Administrative Aide: The Administrative Aide's function is to provide administrative/secretarial support to the EOC Management Support Team. Responsibilities include keeping official minutes of team meetings, receiving phone calls to the EOC, making meeting arrangements, and other duties as needed.

Source: FIRESCOPE, California Department of Emergency Services, 2001; Phoenix Fireground, City of Phoenix Fire Department, 2002



			RESOURCE: INCIDENT I	/IANAGEME	NT TEAMS		
CATEGORY:		s all Functions; Other—Cor agement Functions	mmand & Operations		KIND:	Team	
Components	and Capabilities	: Variations may also be base	ed on level and type of disaste	r experience	. (i.e., local (	event experience vs. national eve	ent experience).
MINIMUM CAPABILITIES: TYPE I		Type II	T	YPE III	TYPE IV	OTHER	
Component	Metric						
Incident		Yes	Yes	Yes		Yes	
Commander							
Operations		Yes	Yes	Yes		Yes	
Section							
Chief	See						
Planning	Comments for	Yes	Yes	Yes		Yes	
Section	Metrics						
Chief							
Logistics		Yes	Yes	Yes		Yes	
Section							
Chief							
Finance/		Yes	Yes	Yes		Yes	
Admin							
Section							
Chief		N/	0.11	0 11 1			
Specialized		Yes	Optional	Optional		Optional	
Functions							
(i.e.,							
HazMat,							
Insurance,							
etc.)							



			RESOURCE: INCIDENT M	ANAGEMENT TEAMS	S	
CATEGORY:		all Functions; Other—Con	nmand & Operations	KIND:	Team	
		gement Functions				
			21		l event experience vs. national eve	
MINIMUM CA		TYPE I	Type II	Type III	TYPE IV	OTHER
Component	Metric					
COMMENTS:	A command team	comprised of the incident comm	ander, appropriate command and	general staff personnel	assigned to an incident. (Source: FIRE	SCOPE)
	carried out by a si the same agency, person for whom i management may Operations Section mission. The Ope directs the prepar- Incident Comman.	ngle Incident Commander. The light or from an assisting agency. De they work, as they must be ready also have under its purview an Inchief: The Operations Section rations Chief activates and superation of unit operational plans; reder. Depending on the extent of the street of the s	ncident Commander is selected by puties may also be used at section to take over that position at any temperation officer, Liaison Officer, Chief, a member of the General Styles organization elements in acquests or releases resources; mail	y qualifications and expense of the control of the	ne management of all operations direct nt Action Plan and directs its execution to the Incident Action Plan as necessary gement may also have under its purvie	have a deputy, who may be from the the same qualifications as the in needed, this area of  ly applicable to the primary in The Operations Chief also ity; and reports such to the
	status of resource operations for the identify the need f purview a Resour Logistics Section working in the haz	s. Information is needed to: 1) ur incident. This section serves as to resources before they are needed. Unit Leader, Situation Unit Leader, Chief: The Logistics Section Chief and zone of the incident. The Section Chief	nderstand the current situation, 2) the Incident Commander's "clearinded. Depending on the extent of beader, Documentation Unit Leader is responsible for providing facilication Chief participates in develop	predict probable course of house" for information. The Incident Management or, Demobilization Unit Letitles, services, and mater of ment and implementation	n, and use of information about the det of incident events, and 3) prepare alter. The Section Chief's goal is to plan ah t team needed, this area of manageme ader, and Technical Specialists. rial in support of the incident, and is ac n of the Incident Action Plan and activations area of management may also have	rnative strategies and control ead of current events and to ent may also have under its countable for all personnel ates and supervises the Branches
	Branch Director, S Finance/Administr supervising memb purview a Time Un	Support Branch Director, Facilities ation Section Chief: The Finance pers of the Finance/Administration	s Unit Leader, and Ground Suppo e/Administration Section Chief is re a section. Depending on the exter der, Compensation/Claims Unit L	rt Unit Leader. esponsible for all financia at of the Incident Manage	al, administrative, and cost analysis asponent team needed, this area of manag	pects of the incident and for



		RESOURCE: MOBILE	COMMUNICATIONS CENT	ER (ALSO REFERRED TO A	S "MOBILE EOC")	
CATEGORY:	Communicati	on (ESF 2); Command & C	ontrol	KIND: Vel	hicle	
MINIMUM CA	PABILITIES:	TYPE I	Type II	TYPE III	TYPE IV	OTHER
Component	Metric					
Chassis	Feet	48'-53' custom trailer, bus chassis, conventional cab/van chassis, or diesel motorhome chassis with or without slide-out room	35'-40' motorhome chassis with or without slide-out room	25'-35' Gas or diesel motorhome chassis, or custom trailer (trailer does require additional tow vehicle)	Converted SUV or Travel Trailer, or 25'-40' custom built trailer (trailer does require additional tow vehicle)	
Interior	Workstations	6-10 workstations, with private meeting area for Command personnel	4-6 workstations, with private meeting are for Command personnel	2-4 workstations	1 to 2 workstations	
Radio Frequency Transceivers	1 Unit	RF Communications with adjoining agencies, state agencies through mutual aid transceiver and any other frequencies	RF Communications with adjoining agencies, state agencies through mutual aid transceiver and any other frequencies	RF Communications with adjoining agencies, state agencies through mutual aid transceiver	RF Communications within jurisdiction and with adjoining agencies	
Internet Access	Speed	High bandwidth capabilities via satellite such as	High bandwidth capabilities via satellite such as INMARSAT or V-Sat; Faxing through cell or satellite system (4800 bps)	Cellular system; Faxing through cell or	Via cellular system (portable)	
Video Telecon- ferencing	N/A	INMARSAT or V-Sat		satellite system (4800 bps)		
High Speed Fax	Speed					
Voice Communi- cations through Landlines, Cell Lines and Satellite	Type of system	PBX office-style telephone system & Cellular PBX System (ML500 or similar)	PBX office-style telephone system & Cellular PBX System (ML500 or similar)	PBX office-style telephone system	Through individual cell phones only	
On-scene Video Monitoring	N/A	Through camera/video system	Through camera/video system			
Computer- assisted Dispatch	N/A	Yes	Yes	Yes		



		RESOURCE: MOBILE	COMMUNICATIONS CENT	ER (ALSO REFERRED TO A	S "MOBILE EOC")		
CATEGORY:	Communicati	on (ESF 2); Command & C	ontrol	KIND: Veh	nicle		
MINIMUM CA	PABILITIES:	TYPE I	Type II	TYPE III	Type IV	Other	
Component	Metric						
Computer/ Server Capabilities	N/A	Hardwired and wireless LAN. Workstations should have Ethernet connection and 120 vac protected receptacle. All computer based software packages pre-installed	Hardwired and wireless LAN. Workstations should have Ethernet connection and 120 vac protected receptacle. All computer based software packages pre-installed	Hardwired and wireless LAN. Workstations should have Ethernet connection and 120 vac protected receptacle. All computer based software packages pre-installed	Basic computer systems only (power source must be provided from outside vehicle)		
Personnel	Function	IT Support, Driver/Operator with CDL certification, and Communications Support	IT Support, Driver/Operator, and Communications Support	Driver/Operator	Driver/Operator		
Deployment Capabilities		<ul> <li>All types should be capable of:</li> <li>Operating in environment with little to no basic services, including no electrical service, no phone lines and no cell towers</li> <li>Providing own power generation and fuel supply to operate a minimum of 3-4 days without refueling.</li> <li>Sustaining long term deployment as well as short-term responses</li> <li>Facilitating communications between multiple agencies (Federal, state, county and municipal agencies)</li> <li>Operating as forward EOC</li> <li>Minimal set up time</li> <li>Serving basic personnel needs such as a bathroom, mini-refrigerator, microwave and coffee maker where space is available</li> </ul>					
COMMENTS:	adjoining agency radios and progra addition to the ce Satellite System Useful for video-tlarge downloads EOC or other loca Microwave Units Server Compute EOC. A hard-wirn Telephone System Each workstation Cellular PBX Sydetect sensors the Camera and Videcommunications a Computer progra	ry Transceivers—Every agency by transceivers. A central Communammable radios, giving the unit the entral rack. This module will allow as—NMARSAT system can be utile eleconferencing, high quality voice of bandwidth. This bandwidth cation. The FCC continues to appos—Some states and jurisdictions ars—A rack-mounted Server shouted LAN and a wireless LAN shouted LAN and a wireless LAN shouted LAN and a telephone unit as should have a telephone unit as stem (ML500 or similar)—This upon the communication of the similar of the source of the similar of the source of the similar of the source of the similar of the similar of the source of the similar of the similar of the similar of the source of the similar of	nas their assigned RF equipment nications rack should be built neally a built neally ablity to communicate with as for different frequency transceived lized for telecommunications and the transmission, faxing, and dialunate transmission, faxing, and dialunate managed to provide Interneurove new technology for this systemate have microwave capable facilities and be installed in Type I, II, and II ally also be installed in Type I, II, and II ally also be installed in Type I, II are well as units on-hand for exterior unit is utilized for multiple cell line in switch to cell if landline is not a larger an installed mast (no taller that the multiple inputs and distributes in days the capability to receive so	in use. These frequencies shoul r the Communications Officer por many agencies as possible. Type ers to communicate commonly. I DOD secure data transfer. For up Internet access. V-Sat system t access, voice communications arem. Iridium, Global Star or other is and equipment installed for quall units. This Server can be design workstations access to the Server and III units. This system can be in operations. It is tied into the movailable.  In 30' without exterior supports) are the tothe monitors. The system to the monitors. The system to the monitors. The system to the monitors.	d be distributed throughout the unsition. This rack should contain let a label	ess utilized adjoining agency operability Module installed in bunted and auto-tracking. auto-tracking dishes and allow on-scene video back to an eld communications. One and software in use at the and satellite telephones. Ut unit. The unit has auto-in both the conference and	



		RESOURCE: MOBIL	E FEEDING KITCHEN (ALS	O KNOWN AS A " MOBILE F	FIELD KITCHEN")	
CATEGORY:	Food & Water	(ESF 11)		KIND: Equ	uipment	
MINIMUM CA	PABILITIES:	Type I	TYPE II	TYPE III	TYPE IV	OTHER
Component	Metric					
Mobile Field	Number of	Feeds up to 1,000 twice daily	Feeds up to 650 twice daily	Feeds up to 300 twice daily	Feeds up to 100 twice daily	
Kitchen	people unit is					
	capable of					
Mobile	feeding 1 Trailer	45-53' trailer	36-42' trailer	20-30' trailer	16-18' trailer	
Kitchen	Titalici	10 00 trailer	30 12 trailor	20 30 trailor	(concession-type)	
Trailer						
(MKT-I)						
2 1/2-Ton or	1 Truck +	Yes	Yes	Yes	Yes	
5-Ton Truck	Driver					
and Driver						
for Transport		4				
Kitchen	# of	4, including kitchen	3, including kitchen	2	2	
Support	Personnel	supervisor	supervisor			
Personnel Comments:	The Mobile Feedi	na Kitchon (a.k.a. Mohilo Fiold Ki	 itchen or Panid Denlovment Kitcl	non) is a containorized kitchen the	 at can be positioned forward in fu	Ifillment of ESF 11. The units
COMMENTS.					ily to 650 to 1,000 individuals, eith	
					ration, sanitation, and other esser	
	preparation. The	units may be fitted with convectio	n and conventional ovens, steam	and tilt skillets, and modern burn	ner units. The kitchens may come	e with a support trailer that
					minimum of 360 square feet of for	
	included. Setup a	na tear down snouid de accompli	isned in approximately 45 minute	s. Personnel to operate the kitch	en may include a crew of four, plu	us a kitchen supervisor.
					environmental control system, an en may include a crew of four, plu	



			RESOURCE: RAPID NEED	S ASSESSMENT TEAM		
CATEGORY:	Other			KIND: Tear	m	
Components	and Capabilities:	There is only <u>one</u> type of RN	A Team. Variations may exist	and/or specialists may be add	ded according to the type and	scale of disaster.
MINIMUM CA	PABILITIES:	Type I	Type II	TYPE III	Type IV	OTHER
Component	Metric					
Management						
Element						
Team		X				
Leader						
FEMA		X				
Represen-						
tative						
Assessment	Ni mahar					
Element	Number Determined					
HazMat	by Size of	Х				
Specialist	Event. See					
Medical	Comments for	X				
Specialist	Function					
Mass Care	Descriptions.	X				
Specialist	Determined	X				
Infrastructure	by Number of	X				
Specialist Fire/US&R	Personnel	X				
Support	Deployed with	X				
Element	Team	K				
Telecomm		X				
Specialist		^				
Logistics		Χ				
Specialist						
Operations		Χ				
Specialist						
Deployment		<ul> <li>Personal Kit</li> </ul>				
Equipment		Resupply Kit				
		<ul><li>Team Life Support Kit</li><li>Team Admin. Kit</li></ul>				
		<ul><li>Vehicle Kit</li></ul>				
		<ul> <li>Communications Support</li> </ul>				
		Kit				
		<ul><li>Fly-Away Kit</li></ul>				



RESOURCE: RAPID NEEDS ASSESSMENT TEAM									
CATEGORY:	Other			KIND:	eam				
Components a	Components and Capabilities: There is only one type of RNA Team. Variations may exist and/or specialists may be added according to the type and scale of disaster.								
MINIMUM CAI	PABILITIES:	TYPE I	Type II	Type III	TYPE IV	Other			
Component	Metric								
COMMENTS:	critical resources r federal immediate maintains overall r procedures, state ESF, enabling thei facilities and their (2) Medical Speci environmental hea the status of need: local governmenta 4, 9)–assesses the fire and/or search (1) Telecommunic Logistics Specialis	needed to support emergency response requirements. Managresponsibility for RNA Team operassets, response philosophies, em to assess immediate needs are potential for public exposure, idealist (representing ESF 8)—asses alth, sanitation issues, emergency of the status of fire, and search and rescue services. Support Exations Specialists—installs, operact—provides logistical support and ent, compiles data into report for	sponse activities. The Team is re ement Element–supervises and crations, knowledgeable of local aste. (2) FEMA Representative Aste (2) FEMA Representative Aste (2) FEMA Representative Aste (2) FEMA Representative Aste (3) Requirements in more than one ntifies unsafe areas and types of ses the health/medical infrastructy medical services, and patient expenses shelters, bulk distribution ucture Specialist (representing Element (QRS)–provides documentes and maintains the communicates and maintains the communicates are services for the team during all	sponsible for assessing both of coordinates the assessment plassets, geographic information, assessment Element–members of functional area. (1) Haz Mat hazards, contamination threature including hospital and privacuation needs and capability of relief supplies, emergency (SF 3)—assesses the status of ties and limitations of any existation, logistics, and communications support package and phases of team activity. (3)	I collect and provide information to depote and provide information to depote and team logistical support (1, information management systems, sof the assessment element are crossepcialist (representing ESF 10)—as ats, and local hazardous materials must imary care systems, pharmacy systems, gharmacy	d determining state and/or 1) State Team Leader – state response plans and s-trained in more than one sesses the affected sites and utual-aid response capability. sms, special population needs, senting ESF 6,-11)—assesses disaster effects, and state and h & Rescue (representing ESF entifies immediate needs for t and Assessment elements. m during deployment. (2) ment data from the			



			RESOURCE: SHELTER	MANAGEMENT TEAM				
CATEGORY:	1 Mass Care	(ESF 6)		KIND: Tea	m			
MINIMUM CA	PABILITIES:	TYPE I	TYPE II	TYPE III	Type IV	Other		
Component	Metric							
Shelter Supervisor		X	X	X				
Medical Services Manager		X						
Operations Manager (water, sanitation, power, structural)	Number Determined by Size of Shelter Operations	X	X					
Food Services Manager		X						
Exposure Control Monitor (depends on type of event)		Optional	Optional	Optional				
COMMENTS:	The Shelter Management Team provides the managerial and operation support for a shelter used to house, feed, counsel, provide first aid and related social services and welfare activities required to assist the victims of an emergency. Responsibilities of the team may include all or some of the following: operating the shelter; establishing security; ensuring the availability of adequate care, food, sanitation, and first aid; selecting and training personnel to perform operational tasks; monitoring contamination; performing decontamination; establishing exposure control and monitoring; monitoring overpressure and filtration systems; performing post-event reconnaissance; and directing egress.							



## Emergency Medical Services



			RESOURCE: AIR AMBU	LANCE (FIXED WING)		
CATEGORY:	Health & Med	ical (ESF 8)		KIND: Airc	craft	
MINIMUM CA	PABILITIES:	Type I	TYPE II	Type III	TYPE IV	OTHER
Component	Metric					
Supplies, Equipment, Personnel, and Fixed Wing Aircraft	Emergency medical services team with equipment, supplies and aircraft for patient transport & emergency medical care out of hospital, providing service from airport to airport	Critical Care and Advanced Life Support; Minimum 3 staff (pilot, 2 paramedics or 1 paramedic and 1 nurse or physician); transport 2 or more litter patients; night ops capable; IFR capable; ability to deploy a medical team; MICU equipment (i.e.; ventilators and infusion pumps, medications, blood)	Critical Care and Advanced Life Support; Minimum 3 staff (pilot, 2 paramedics or 1 paramedic & 1 nurse or physician); transport 1 litter patient; night ops capable; IFR capable; ability to deploy a medical team; MICU equipment (i.e.; ventilators and infusion pumps, medications, blood)	Advanced Life Support; Minimum 3 staff (pilot, 2 paramedics, or 1 paramedic and 1 nurse or physician); transport 2 or more litter patients; night ops capable; ALS ambulance equipment	Basic Life Support: Minimum 2 staff (pilot, and 1 paramedic transport 1 litter patients; night ops capable; ALS ambulance equipment	
COMMENTS:	Fixed-wing service in a disaster is primarily for moving injured or sick people located in the disaster area to medical facilities located outside the disaster area.  Fixed-wing service providers may also be utilized to import personnel and or equipment/supplies into the area of need.  Fixed-wing services require the use of an airport of sufficient length and access to a sufficient quantity of proper fuel type for the type of aircraft requested. EAch team/unit can work a maximum of 12-hour shifts, depending upon individual policies and procedures. Aircraft maintenance requirements may occur during deployment. Aviation maintenance must be planned. Hangar facilities should be planned for all extended operations. Backup supplies and some equipment may be required depending upon number of patients and type of event. Communication equipment may be programmable for interoperability but must be verified. Plan for augmenting existing communication equipment to allow fixed-wing aircraft to communicate with command center. Coordination with ground ambulance service required. Ground safety assurance and traffic control are important support requirements for injury and crash prevention. This support may be significant depending upon the size and location of the incident.					



			RESOURCE: AIR AMBULA	ANCE (ROTARY WING)				
CATEGORY:	Health & Med	ical (ESF 8)		KIND: Aircraft				
MINIMUM CA	PABILITIES:	Type I	TYPE II	Type III	Type IV	OTHER		
Component	Metric							
Supplies, Equipment, Personnel, and Aircraft	Emergency medical services team with equipment, supplies and aircraft for patient transport & emergency medical care out of hospital	Advanced Life Support; Minimum 3 staff (pilot, 2 paramedics or 1 paramedic and 1 nurse or physician); transport 2 or more litter patients; full SAR including hoist capabilities; night ops capable; IFR capable; ALS ambulance equipment	Advanced Life Support; Minimum 3 staff (pilot, 2 paramedics or 1 paramedic & 1 nurse or physician); transport 2 or more litter patients; night ops capable; IFR capable; ability to deploy a medical team; MICU equipment (i.e., ventilators & infusion pumps, medications, blood)	Advanced Life Support; Minimum 3 staff (pilot, 2 paramedics, or 1 paramedic and 1 nurse or physician); transport 1 litter patient; night ops capable; VFR capable; ability to deploy a medical team; MIC U equipment (i.e., ventilators & infusion pumps, medications, blood)	Advanced Life Support; Minimum 2 staff (pilot, and 1 paramedic transport 1 litter patient; night ops capable; VFR; ALS ambulance equipment			
COMMENTS:	Each team/unit can work a maximum of 12-hour shifts, depending upon individual policies & procedures. Aircraft maintenance requirements may occur during deployment. Aviation maintenance must be planned. Hangar facilities should be planned for all extended operations. Fuel tankers or other supply points must be identified. Backup supplies and some equipment may be required depending upon number of patients and type of event. Communication equipment may be programmable for interoperability but must be verified. Provide communication frequenc ies of ground incident command. Plan for augmenting existing communication equipment. Landing zones (space, clearance, and weight restrictions) must be considered. The typical civilian air ambulance requires an LZ of 150' x 150'. Ground safety assurance and traffic control are important support requirements for injury and crash prevention. This support may be significant depending upon the size of the incident and the location of the incident.							



			RESOURCE: AMBUL	ANCES (GROUND)				
CATEGORY:	Health & Med	ical (ESF 8)		KIND:	Tea	m; Equipment; Personnel, Supplies; Vehicles		
MINIMUM CA	PABILITIES:	TYPE I	TYPE II	Type III		Type IV	Other	
Component	Metric							
Supplies, Equipment, Personnel, and Vehicle	Emergency medical services team with equipment, supplies, and vehicle for patient transport (Type I-IV) and emergency medical care out of hospital	Advanced Life Support; Minimum 2 staff(paramedic and EMT), transport 2-litter patients, training and equipment meets or exceeds standards as addressed by EPA, OSHA and NFPA 471,472,473 and 29 CFR 1910, 120 ETA 3-11 to work in HazMat Level B and specific threat conditions, all immunized in accordance with CDC core adult immunizations and specific threat as appropriate	Advanced Life Support, Minimum 2 staff (paramedic and EMT), transport 2-litter patients, nonHazMat response	Basic Life Support Minim 2 staff (EMT and first responder), transport 2 lit patients, training and equipment meets or excestandards as addressed EPA, OSHA and NFPA 471,472,473 and 29 CFF 1910, 120 ETA 3-11 to vin HazMat Level B and specific threat conditions immunized in accordance with CDC core adult immunizations and specitive tas appropriate	eeds by R work s, all	Basic Life Support operations; minimum 2 personnel (I EMT and first responder), transport 2 litter patients	Nontransporting emergency medical response, minimum 1 staff, BLS or ALS equipment, supplies	
COMMENTS:	out of hospital threat as appropriate threat as a propriate threat as appropriate threat as appropriate threat as a propriate threat as a propriate threat as a propriate threat							



## Fire/HazMat Resources



	RESOURCE: BRUSH PATROL, FIREFIGHTING (TYPE VI ENGINE)										
CATEGORY:	Firefighting (E	SF 4)	KIND: Equi	Equipment							
MINIMUM CAPABILITIES: TYPE I			Type II	Type III	Type IV	OTHER					
Component	Metric										
Pump						Pump: 15 GPM					
Hose						Hose 1 inch; 150 feet					
Tank						Tank: 75 Gallons					
Personnel						Personnel: 1					
COMMENTS:	Brush Patrols app	oly to all vehicles equipped as de	escribed.			•					



RESOURCE: CREW TRANSPORT (FIREFIGHTING CREW)									
CATEGORY:	CATEGORY: Firefighting (ESF 4) KIND: Equipment								
MINIMUM CAPABILITIES: TYPE I TYPE II			Type II	Type III	TYPE IV	Other			
Component	Metric								
Passengers		30	20	10					
COMMENTS:	Vehicles may be l	/ehicles may be buses, vans, and special crew carrying vehicles (CCV), and may be equipped to carry firefighting tools.							



			RES	OURCE: ENGINE, F	IRE (PUMPER)			
CATEGORY:	Firefighting	(ESF 4)			KIND:	Equipment		
MINIMUM CA	MINIMUM CAPABILITIES: TYPE I		TYPE II	TYPE III	Type IV	TYPE V	Type VI	TYPE VII
Component	Metric							
Pump Capacity		1000 GPM	500 GPM	120 GPM	70 GPM	50 GPM	50 GPM	50 GPM
Tank Capacity		400 Gal.	400 Gal.	500 Gal.	750 Gal.	500 Gal.	200 Gal	125 Gal.
Hose, 2.5 inch		1200 ft.	1000 ft.					
Hose, 1.5 inch		400 ft.	500 ft.	1000 ft.	300 ft.	300 ft.	300 ft.	200 ft.
Hose, 1 inch		200 ft.	300 ft.	800 ft.	300 ft.	300 ft.	300 ft.	200 ft.
Personnel		4	3	3	2	2	2	2
COMMENTS:	The engine typi engine types.	ng needs to be taken o	out to Type VII. Comprom	nise between FIRESCOF	PE and NWCG is to use N	WCG Standards for Eng	ines and Crews. NWCG	has seven



	RESOURCE: FIRE BOAT									
CATEGORY:	CATEGORY: Firefighting (ESF 4) KIND: Equipment									
MINIMUM CAPABILITIES: TYPE I			Type II	Type II	II	Type IV	Other			
Component	Metric									
Pump		5,000	1,000	250						
Capacity										
GPM										
COMMENTS:	Fire Boats vary in	length, draft, and related firefigh	ting equipment.			-				



	RESOURCE: FOAM TENDER, FIREFIGHTING									
CATEGORY:	CATEGORY: Firefighting (ESF 4); HazMat (ESF 10) KIND: Equipment									
MINIMUM CAPABILITIES: TYPE I			TYPE II	TYPE III	Type IV	OTHER				
Component	Metric									
Class B		500 gallons	250 gallons							
Foam										
COMMENTS:	Specify percent of	f concentrate (1%, 3%, etc.).								



	RESOURCE: FUEL TENDER (GASOLINE, DIESEL, AVGAS, AKA GAS TANKER)										
CATEGORY:	Transportation (ESF 1); Public Works and Engineering (ESF 3)  KIND: Equipment										
MINIMUM CA	PABILITIES:	Type I	TYPE II	Type III	TYPE IV	OTHER					
Component	Metric										
Fuel		1000 gal	100 gal								
Specify:											
Gas, Diesel,											
AvGas, etc.											
COMMENTS:	These vehicles va	ary widely. May be Gasoline, Die	sel, Jet Fuel, AvGas, or combinat	ions.		•					



			RESOURCE: H	AND CREW		
CATEGORY:	Firefighting (E	SF 4)		KIND:	Other – Crew	
MINIMUM CAF	PABILITIES:	TYPE I	TYPE II	TYPE III	Type IV	OTHER
Component	Metric					
Fireline Capability		Initial attack/can be broken up into squads, fireline construction, complex firing operations (backfire)	Initial attack/can be broken up into squads, fireline construction, firing to include burnout	Initial attack, fireline construction, firing to inclu burnout	Fireline construction, fireline improvement, mop-up and rehab	
Crew Size		18-20	18-20	18-20	18-20	
Leadership Qualifications		Permanent Supervision Superintendent: TFLD, ICT4 Asst Supt: STCR, ICT4, 3 Squad Bosses: CRWB(T), ICT5	CRWB and 3 ICT5	CRWB and 3 FFT1	CRWB and 3 FFT1	
Experience		80% 1 season or more	60% 1 season σ more	40% 1 season or more	20% 1 season or more	
Full-Time Organized		Yes	No	No	No	
Crew						
COMMENTS:	Crews need to I	oe listed as Type I, Type II with Ir	nitial Attack Capability, Type II, Ty	ype III.		



			RESOURCE: HAZM	AT ENTRY TEAM		
CATEGORY:	HazMat (ESF			KIND:	eam	
MINIMUM CAI	PABILITIES:	Type I	Type II	Type III	Type IV	OTHER
Component	Metric					
Field Testing		(Known Chemicals, Unknown Chemicals; Known or Suspect Weapons of Mass Destruction Chemical/Biological Substances [WMD Chem/Bio]) The presumptive testing and identification of chemical substances using a variety of sources to be able to identify associated chemical and physical properties. Sources may include printed and electronic reference resources, safety data sheets, field testing kits, specific chemical testing kits, chemical testing strips, data derived from detection devices, and air-monitoring sources	(Known Chemicals; Unknown Chemicals) The presumptive testing and identification of chemical substances using a variety of sources to be able to identify associated chemical and physical properties. Sources may include printed and electronic reference resources, safety data sheets, field testing kits, specific chemical testing kits, chemical testing strips, data derived from detection devices, and air-monitoring sources	(Known Chemicals) The presumptive testing and identification of chemical substances using a variety sources to be able to identi associated chemical and physical properties. Source may include printed and electronic reference resources, safety data sheets, field testing kits, specific chemical testing kit chemical testing strips, data derived from detection devices, and air-monitoring sources	fy s s,	
Air Monitoring		(Basic Confined Space Monitoring Specific Known Gas Monitoring, WMD Chem/Bio Aerosol Vapor and Gas) The use of advanced detection equipment to detect the presence of known or unknown gases or vapors. The basics begin with ability to provide standard confined space readings (oxygen deficiency percentage; flammable atmosphere Lower Explosive Limit [LEL]; carbon monoxide; and	(Basic Confined Space Monitoring, Specific Known Gas Monitoring) The use of advanced detection equipment to detect the presence of known or unknown gases or vapors. The basics begin with ability to provide standard confined space readings (oxygen deficiency percentage; flammable atmosphere Lower Explosive Limit [LEL]; carbon monoxide; and hydrogen sulfide). Advanced detection and monitoring	Basic Confined Space Monitoring, Specific Known Gas Monitoring) The use of devices to detect the presence of known gase or vapors. The basics begin with ability to provide standard confined space readings (oxygen deficiency percentage; flammable atmosphere Lower Explosiv Limit [LEL]; carbon monoxide; and hydrogen sulfide)	es n y	



			RESOURCE: HAZM	AT ENTRY TEAM		
CATEGORY:	HazMat (ESF	10)		KIND: Tea	m	
MINIMUM CA	PABILITIES:	TYPE I	TYPE II	Type III	Type IV	OTHER
Component	Metric					
Sampling: Capturing		hydrogen sulfide). Advanced detection and monitoring may incorporate more sophisticated instruments that differentiate between two or more flammable vapors, and may directly identify by name a specific flammable or toxic vapor. This includes WMD Chem/Bio detection Instruments  (Known Industrial Chemicals, Unknown	may incorporate more sophisticated instruments that differentiate between two or more flammable vapors, and may directly identify by name a specific flammable or toxic vapor  (Known Industrial Chemicals, Unknown	(Known Industrial Chemicals)		
Labeling Evidence Collection		Industrial Chemicals, WMD Chem/Bio) Known and unknown industrial chemicals' standard evidence collection protocols required for each include capturing and collection; containerizing and proper labeling; and preparation for transportation and distribution, including standard environmental sampling procedures for lab analysis. Consistent with established chain of custody protocols. Ability to sample liquids and solids. Special resources may be required for air sample collection	Industrial Chemicals) Known and unknown industrial chemicals' standard evidence collection protocols required for each include capturing and collection; containerizing and proper labeling; and preparation for transportation and distribution, including standard environmental sampling procedures for lab analysis. Consistent with established chain of custody protocols. Ability to sample liquid and solids	Known industrial chemicals' standard evidence collection protocols required for each include capturing and collection; containerizing and proper labeling; and preparation for transportation and distribution, including standard environmental sampling procedures for lab analysis. Consistent with established chain of custody protocols		
Radiation Monitoring/ Detection		(Alpha Detection, Beta Detection, Gamma Detection) The ability to accurately interpret readings from the radiation-detection devices and conduct geographical survey search of suspected	(Alpha Detection, Beta Detection, Gamma Detection) The ability to accurately interpret readings from the radiation-detection devices and conduct geographical survey search of suspected	(Beta Detection, Gamma Detection)  The ability to accurately interpret readings from the radiation-detection devices and conduct geographical survey search of suspected radiological source or		



			RESOURCE: HAZM	AT ENTRY TEAM		
CATEGORY:	HazMat (ESF	10)		KIND:	- Team	
MINIMUM CAI	PABILITIES:	TYPE I	TYPE II	TYPE III	TYPE IV	OTHER
Component	Metric					
		radiological source or contamination spread. Identify and establish the exclusion zones after contamination spread (this does include identification of some, but not all, radionuclides). Ability to conduct environmental and personnel survey. Basic criteria include detection and survey capabilities for alpha, beta, and gamma. Ensure all members of survey teams are equipped with accumulative selfreading instruments (dosimeters)	radiological source or contamination spread. Basic criteria include detection and survey capabilities for alpha, beta, and gamma	contamination spread. Basi criteria include detection an survey capabilities for beta and gamma		
Protective Clothing: Ensembles		(Vapor-Protective CPC, Weapons of Mass Destruction (WMD) Vapor- Protective CPC, Flash Fire Vapor-Protective CPC, Liquid Splash-Protective CPC, WMD Liquid Splash- Protective CPC) Chemical protective clothing (CPC), which includes complete ensembles (suit, boots, gloves) and may incorporate various configurations (encapsulating, non- encapsulating, jumpsuit, multi-piece) depending upon the level of protection needed. Levels of CPC vapor protection are: Vapor- Protective, Flash Fire Protective, and	(Vapor-Protective CPC, Flash Fire Vapor-Protective CPC, Liquid Splash- Protective CPC) Chemical Protective Clothing (CPC), which includes complete ensembles (suit, boots, gloves) and may incorporate various configurations (encapsulating, nonencapsulating, jumpsuit, multi-piece) depending upon the level of protection needed. Levels of CPC vapor protective, and Flash Fire Protective option for Vapor-Protective both of which must be compliant with NFPA Standard # 1991, "Standard on Vapor-Protective Ensembles for Hazardous	(Liquid Splash-Protective CPC) Chemical Protective Clothin (CPC), which includes complete ensembles (suit, boots, gloves) and may incorporate various configurations (encapsulating, nonencapsulating, jumpsuit, multi-piece) depending upo the level of protection needed. Level of CPC liqu protection is: Liquid Splash Protective, which must be compliant with NFPA Standard # 1992, "Standard on Liquid Splash-Protective Ensembles and Clothing for Hazardous Materials Emergencies," current editions	n lidd h-	



			RESOURCE: HAZM	AT ENTRY TEAM		
CATEGORY:	HazMat (ESF	10)		KIND: Te	am	
MINIMUM CAI	PABILITIES:	TYPE I	TYPE II	TYPE III	TYPE IV	OTHER
Component	Metric					
		Chemical/Biological- Protective option for Vapor- Protective, all of which must be compliant with National Fire Protection Association (NFPA) Standard # 1991,  "Standard on Vapor- Protective Ensembles for Hazardous Materials Emergencies" current edition. Level of CPC liquid protection is: Liquid Splash- Protective, which must be compliant with NFPA Standard # 1992, "Standard on Liquid Splash-Protective Ensembles and Clothing for Hazardous Materials Emergencies", current edition.	Materials Emergencies," current edition. Level of CPC liquid protection is: Liquid Splash-Protective, which must be compliant with NFPA Standard # 1992, "Standard on Liquid Splash- Protective Ensembles and Clothing for Hazardous Materials Emergencies, current edition			
Technical Reference		(Printed and Electronic; Plume Air Modeling, Map Overlays, WMD Chem/Bio) Access to and use of various databases, chemical substance data depositories, and other guidelines and safety data sheets, either in print format, electronic format, stand-alone computer programs, or data available via telecommunications. The interpretation of data collected from electronic devices and chemical testing procedures. At a minimum, technical references will have the ability to outsource additional capabilities and have one source for air-	(Printed and Electronic; Plume Air Modeling; Map Overlays) Access to and use of various databases, chemical substance data depositories, and other guidelines and safety data sheets, either in print format, electronic format, stand-alone computer programs, or data available via telecommunications. The interpretation of data collected from electronic devices and chemical testing procedures. At a minimum, technical references will have the ability to outsource additional capabilities and have one source for air-	(Printed and Electronic) Access to and use of various databases, chemical substance data depositories, and other guidelines and safety data sheets, either in print format, electronic format, stand-alone compute programs, or data available via telecommunications. The interpretation of data collected from electronic devices and chemical testing procedures		



	RESOURCE: HAZMAT ENTRY TEAM								
CATEGORY:	HazMat (ESF	10)		KIND:	Team				
MINIMUM CA	PABILITIES:	TYPE I	Type II	Type III	Type IV	OTHER			
Component	Metric	1							
_		modeling capability	modeling capability						
Special Capabilities		(Gloves and Other Specialized Equipment Based on Local Risk Assessment, Heat Sensing Capability, Light Amplification Capability, Digital Imaging Documentation Capability) Additional resources that augment the capabilities of the team	(Gloves and Other Specialized Equipment Based on Local Risk Assessment, Heat Sensing Capability, Light Amplification Capability) Additional resources that augment the capabilities of the team	(Gloves and Other Specialized Equipment Based on Local Risk Assessment) Additional resources that augment the capabilities of the team	of				
Intervention		(Diking, Damming, Absorption; Liquid Leak Intervention; Neutralization, Plugging, Patching, Vapor Leak Intervention WMD Chem/Bio Agent Confinement) Employment of mechanical means of intervention and control such as plugging, patching, off-loading, and tank stabilization; environmental means such as absorption, dams, dikes, and booms; and chemical means such as neutralization and encapsulation of known and unknown industrial chemicals. Mechanical means include specially designed kits for controlling leaks in rail car dome assemblies and pressurized containers, to pneumatic and standard patching systems. Advanced capabilities should include ability to intervene	(Diking, Damming, Absorption; Liquid Leak Intervention; Neutralization, Plugging, Patching; Vapor Leak Intervention) Employment of mechanical means of intervention and control such as plugging, patching, off-loading, and tank stabilization; environmental means such as absorption, dams, dikes, and booms; and chemical means such as neutralization and encapsulation of known and unknown chemicals. Mechanical means include specially designed kits for controlling leaks in rail car dome assemblies and pressurized containers, to pneumatic and standard patching systems	(Diking, Damming, Absorption) Employment of mechanics means of intervention and control such as plugging, patching, off-loading, and tank stabilization; environmental means suc as absorption, dams, dike and booms	l I				



			RESOURCE: HAZM	AT ENTRY TEAM		
CATEGORY:	HazMat (ESF	10)		KIND: Tea	m	
MINIMUM CAI	PABILITIES:	TYPE I	Type II	TYPE III	Type IV	OTHER
Component	Metric					
		and confine incidents involving WMD Chem/Bio substances				
Decontami- nation		(Known Contaminants Based on Local Risk Assessment Unknown contaminants, WMD Chem/Bio) Must be selfsufficient to provide decontamination for members of their team. Capable of providing decontamination for known and unknown contaminants and WMD Chem/Bio.	(Known Contaminants Based on Local Risk Assessment Unknown contaminants) Must be self-sufficient to provide decontamination for members of their team. Capable of providing decontamination for known and unknown contaminants.	(Known Contaminants Based on Local Risk Assessment) Must be self-sufficient to provide decontamination for members of their team. Capable of providing decontamination for known contaminants.		
Communi- cations		(In-Suit, Wireless Voice, Wireless Data, Secure Communications) Personnel utilizing CPC shall be able to communicate appropriately and safely with one another and their team leaders	(In-Suit, Wireless Voice, Wireless Data) Personnel utilizing CPC shall be able to communicate appropriately and safely with one another and their team leaders	(In-Suit, Wireless Voice) Personnel utilizing CPC shall be able to communicate appropriately and safely with one another and their team leaders		
Personnel	Staffing	5 Personnel	5 Personnel	5 Personnel		
Personnel	Training	All personnel must be trained to the minimum response standards in accordance with the most current editions of NFPA Standard # 471, "Recommended Practice for Responding to Hazardous Materials Incidents," NFPA Standard # 472, "Standard for Professional Competence of Responders to Hazardous Materials Incidents," and NFPA Standard # 473, "Standard for Competencies for EMS Personnel	All personnel must be trained to the minimum response standards in accordance with the most current editions of NFPA Standard # 471, "Recommended Practice for Responding to Hazardous Materials Incidents," NFPA Standard # 472, "Standard for Professional Competence of Responders to Hazardous Materials Incidents," and NFPA Standard # 473, "Standard for Competencies for EMS Personnel	All personnel must be trained to the minimum response standards in accordance with the most current editions of NFPA Standard # 471, "Recommended Practice for Responding to Hazardous Materials Incidents," NFPA Standard # 472, "Standard for Professional Competence of Responders to Hazardous Materials Incidents," and NFPA Standard # 473, "Standard for Competencies for EMS Personnel		



RESOURCE: HAZMAT ENTRY TEAM  CATEGORY: HazMat (ESF 10) KIND: Team									
MINIMUM CAP	,	TYPE I	TYPE II	TYPE III	TYPE IV	OTHER			
Component	Metric	1							
		Responding to Hazardous Materials Incidents," as is appropriate for the specific team type	Responding to Hazardous Materials Incidents," as is appropriate for the specific team type	Responding to Hazardous Materials Incidents," as is appropriate for the specific team type					
Sustainability		Capability to Perform Three (3) Entries in a 24-hour Period	Capability to Perform Three (3) Entries in a 24-hour Period	Capability to Perform Three (3) Entries in a 24-hour Period					
COMMENTS			-	1					



	RESOURCE: HELICOPTERS, FIREFIGHTING								
CATEGORY:	CATEGORY: Firefighting (ESF 4) KIND: Aircraft								
MINIMUM CA	PABILITIES:	TYPE I	TYPE II	Type III	Type IV	OTHER			
Component	Metric								
Seats,		16	10	5	3				
Including									
Pilot									
Card Weight		5,000 lbs	2,500 lbs	1,200 lbs	600 lbs				
Capacity									
Gallons		700	300	100	75				
Example		Bell 214	Bell 205	Bell 206	Bell 47				
COMMENTS:	Firefighting Helico	opters may be equipped with re-	scue, medical, or other equipmen	t.	•				



	RESOURCE: MOBILE COMMUNICATIONS UNIT (LAW/FIRE)								
CATEGORY:	Firefighting (ESF 4); Law Enforcement/Security; Public Works and Engineering (ESF 3)  KIND: Vehicle								
MINIMUM CA	PABILITIES:	TYPE I	Type II	TYPE III	Type IV	OTHER			
Component	Metric								
Console/		2	2						
Workstation									
Frequency		Multi Range	Multi Range						
Сар.									
Power		Internal	Internal						
Source									
Telephone		6 Trunk/16 Extentions							
System									
Personnel		2	2						
COMMENTS:	Multi Range: 150	-174 MHz, 450-470 MHz, 800 N	MHz (Simplex or Repeated), Single Ra	nge: 150-174 Mhz only					



RESOURCE: PORTABLE PUMP								
CATEGORY:	Fire	Fire KIND: Equipment						
MINIMUM CA	PABILITIES: TYPE I TYPE II TYPE III TYPE IV OTHER							
Component	Metric							
Pumping		500	250	50				
Capacity								
(GPM)								
COMMENTS:	These are normal	ly trailer mounted units.						



	RESOURCE: STRIKE TEAM, ENGINE (FIRE)							
CATEGORY:	GORY: Firefighting (ESF 4); Search & Rescue (ESF 9) KIND: Team							
MINIMUM CA	PABILITIES:	TYPE I	TYPE II	Type III	Type IV	OTHER		
Component	Metric							
Engine, Fire		5	5	5	5	(See Engine for details)		
STL		1	1	1	1	Strike Team Task Force Leader		
Pers		4	3	3	3	Staffing on each Engine		
(Engine)								
Pers (Total)		21	16	16	16			
COMMENTS:	Strike Team defin	ned as like number of resources, v	with common communications, ar	nd a leader. Engine Strike Team	Typing is based on individual En	ngine Typing.		



	RESOURCE: WATER TENDER, FIREFIGHTING (TANKER)							
CATEGORY:	TEGORY: Firefighting (ESF 4) KIND: Equipment							
MINIMUM CAPABILITIES:		Type I	TYPE II	Type III	Type IV	OTHER		
Component	Metric							
Tank		2000 gallon	1000 gallon	1000 gallon				
Pump		300 GPM	120 GPM	50 GPM				
COMMENTS:					·			



## Health and and Medical



		RESOURCE	: DISASTER MEDICAL AS	SISTANCE TEAM (DMAT)-	-BASIC	
CATEGORY:	Health & Med			KIND: Tea		
MINIMUM CAP	ABILITIES:	TYPE I	TYPE II	Type III	Type IV	OTHER
Component	Metric					
Overall Function (see Definition and NOTE 1)	Patient-care Capabilities	Triage and treat up to 250 patients per day for up to 3 days without resupply	Triage and treat up to 250 patients per day for up to 3 days without resupply	Augment or supplement Type I or II team within this team's local area	Personnel may be used to supplement other teams	
Personnel and Equipment Readiness	Roster Fulfillment, Equipment Loading	Upon alert, full 35-person roster within 4 hrs. After activation, deployment ready within 6 hrs	Upon alert, full roster within 6 hrs. After activation, deployment ready within 12 hrs	Upon alert, 75% rostered within 12 hrs. After activation, deployment ready within 24 hrs	Does not meet minimal deployable team requirements	
Demonstrated Readiness	Readiness Testing and Geployment History	100% rating on NDMS readiness test in past 12 mos. History of prior full deployment to austere environment	100% rating on NDMS readiness test in past 12 mos	75% or greater rating on NDMS readiness test in past 12 mos	Less than Type III	
Personnel Standard DMAT deploys with 35 personnel for all missions (NOTE 2)	Membership Level	105 or more deployable team personnel on NDMS roster; 12 or more physicians; 3 or more of each of PA or NP, RN, RPh, and paramedic	90 or more deployable team personnel on NDMS roster; 9 or more physicians; 3 or more of each of PA or NP, RN, RPh, and paramedic	50 or more deployable team personnel on NDMS roster; 6 or more physicians; 2 or more of each of PA or NP, RN, RPh, and paramedic	Less than Type III	
Shelters, Equipment, and Supplies	Logistics Status	Full DMAT equipment cache properly managed, stored, and inventoried per NDMS requirements	Full DMAT equipment cache properly managed, stored and inventoried per NDMS requirements	Full or partial DMAT equipment cache properly managed, stored, and inventoried per NDMS requirements	Less than partial cache	
Transportation	Vehicle Status	Pre-arrangement for obtaining primary and alternate use vehicles	Pre-arrangement for obtaining primary and alternate use vehicles	Incomplete transportation arrangements	None	
Didactic Training	Basic (Core) and Advanced Training Modules	90% completion of NDMS basic core training plus 50% of advanced training modules (By 08/05)	80% completion of NDMS basic core training plus 25% of advanced training modules (By 08/05)	50% completion of NDMS basic core training plus 25% of advanced training modules (By 08/05)	Less than Type III	



	RESOURCE: DISASTER MEDICAL ASSISTANCE TEAM (DMAT)—BASIC								
CATEGORY:	Health & Med	ical (ESF 8)		KIND: Te	am				
MINIMUM CAF	ABILITIES:	Type I	TYPE II	Type III	TYPE IV	OTHER			
Component	Metric								
Training experience	Field Exercises (FEXs)	Participate in at least 2 NDMS approved FEXs, one observed	Participate in at least 2 NDMS approved FEXs, one observed	Participate in at least 1 NDMS approved FEX	N/A				
COMMENTS:	Definition: A DMAT is a volunteer group of medical and nonmedical individuals, usually from the same state or region of a state, who have formed a response team under the guidance of the National Disaster Medical System, or under similar state or local auspices.  NOTE 1: TYPE I = fully operational; Type II = operational; Type III = augmentation/local team; Type IV = developmental.  NOTE 2: Personnel include a mix of physicians, nurses (RN), nurse practitioners (NP), physicians' assistants (PA), pharmacists (RPh), emergency medical technicans (EMT), other allied health professionals, and support staff.								



		RESOURCE: DIS	SASTER MEDICAL ASSISTA	NCE TEAM (DMAT)? BUR	RN SPECIALTY	
CATEGORY:	Health & Med			KIND: Tea		
MINIMUM CA	MINIMUM CAPABILITIES: TYPE I TYPE II			TYPE III	Type IV	OTHER
Component	Metric					
Variable number of personnel; includes medical providers with specialty training/skills in management of burn patients (NOTE 1)	Deployment Readiness; Staffing; Equipment Status; Training Status; Patient Treatment Capacity	Deploy to site within 24 hrs. of notification with all necessary staff and equipment; function for 72 hrs. in austere location without resupply	Deploy to site within 24 hrs. of notification with all necessary staff; function in existing fixed facility using facility's equipment and supplies (NOTE 2)	Personnel roster only; may be less than full complement		
Shelters, Equipment, and Supplies COMMENTS:	Logistics Status	Full complement	Limited to specialized items for burns	None		



		RESOURCE: DISASTI	ER MEDICAL ASSISTANCE	TEAM (DMAT)—CRUSHI	NJURY SPECIALTY			
CATEGORY:	Health & Med	ical (ESF 8)		KIND: Tea	m			
MINIMUM CA	PABILITIES:	TYPE I	TYPE II	Type III	Type IV	OTHER		
Component	Metric							
Variable number of personnel; includes medical providers with specialty training/skills in management of crush injuries. (NOTE 1)	Deployment Readiness; Staffing; Equipment Status; Training Status; Patient Treatment Capacity	Deploy to site within 24 hrs. of notification with all necessary staff and equipment; function for 72 hrs. in austere location without resupply	Deploy to site within 24 hrs. of notification with all necessary staff; function in existing facility using facility's equipment and supplies (NOTE 2)	Personnel roster only; may be less than full complement				
Shelters, Equipment, and Supplies	Logistics status	Full complement	Limited or none	None				
COMMENTS:	response team un crush injury patien NOTE 1: Usually support staff. Dep	Definition: A Crush Injury Specialty DMAT is a volunteer group of medical and nonmedical individuals, usually from the same state or region of a state, who have formed a response team under the guidance of the National Disaster Medicial System (or state or local auspices), and whose personnel have specific training/skills in the management of crush injury patients.  NOTE 1: Usually includes a mix of physicians, nurses, nurse practitioners, physician's assistants, pharmacists, emergency medical technicans, other allied health professionals and support staff. Deployment rosters are usually constituted on an ad hoc basis, depending on situational need.  NOTE 2: Current NDMS crush injury teams are Type II.						



			R MEDICAL ASSISTANCE T	EAM (DMAT)—MENTAL	HEALTH SPECIALTY	
CATEGORY:	Health & Med	lical (ESF 8)		KIND: Tea	am	
MINIMUM CA	PABILITIES:	Type I	Type II	Type III	Type IV	OTHER
Component	Metric					
Variable number of deploying personnel; includes medical providers with specialty training/skills in treating psychiatric patients (NOTE 1)	Deployment readiness; Staffing; Training Status; Patient Treatment Capacity	Deploy to site within 24 hrs. of notification with all necessary staff and equipment; function for 72 hrs. in austere location without resupply	Deploy to site within 24 hrs. of notificati on with all necessary staff; function in existing facility using facility's equipment and supplies (NOTE 2)	Personnel roster only; may be less than full complement		
Shelters, Equipment, and Supplies.	Logistics Status	Full complement	Limited or none	None		
COMMENTS:	response team ur psychiatric patien NOTE 1: Usually support staff. Dep	nder the guidance of the National its. includes a mix of physicians, nur	I Disaster Medicial System (or starses, nurse practitioners, physicia stituted on an ad hoc basis, deper	ite or local auspices), and whose n's assistants, pharmacists, eme	m the same state or region of a st e personnel have specific training/ ergency medical technicans, other	skills in the management of



		RESOURCE: DISAS	TER MEDICAL ASSISTANC	ETEAM (DMAT)—PEDIAT	TRIC SPECIALTY				
CATEGORY:	Health & Med	ical (ESF 8)		KIND: Tea	ım				
MINIMUM CA	PABILITIES:	Type I	TYPE II	Type III	Type IV	OTHER			
Component	Metric								
Variable number of deploying personnel; includes medical providers with specialty training/skills in pediatrics and use of pediatric equipment (NOTE 1)	Deployment Readiness; Staffing; Training Status; Patient Treatment Capacity	Deploy to site within 24 hrs. of notification with all necessary staff and equipment; function for 72 hrs. in austere location without resupply	Deploy to site within 24 hrs. of notification with all necessary staff; function in existing facility using facility's equipment and supplies (NOTE 2)	Personnel roster only; may be less than full complement					
Shelters, Equipment, and Supplies	Logistics status	Full complement	Limited to pediatric items or none	None					
COMMENTS:	team under the gratients. NOTE 1: Usually support staff. Dep	Definition: A Pediatric Specialty DMAT is a volunteer group of medical and nonmedical individuals, usually from the same state or region of a state, who have formed a response eam under the guidance of the National Disaster Medicial System (or state or local auspices), and whose personnel have specific training/skills in the management of pediatric patients.  NOTE 1: Usually includes a mix of physicians, nurses, nurse practitioners, physician's assistants, pharmacists, emergency medical technicans, other allied health professionals and support staff. Deployment rosters are usually constituted on an ad hoc basis, depending on situational need.  NOTE 2: Current NDMS pediatric teams are Type II; they do not deploy as a fully functioning team but generally codeploy and augment another team.							



	RESOURCE: DISASTER MORTUARY OPERATIONAL RESPONSE TEAM (DMORT)								
CATEGORY:	Health & Med	ical (ESF 8)		KIND: Tea	ım`				
MINIMUM CA	PABILITIES:	TYPE I	Type II	Type III	TYPE IV	OTHER			
Component	Metric								
Standard DMORT has 31 personnel plus basic load of equipment (NOTE 1)	Deployment Readiness, Staffing, Equipment Status, Training Status, Patient Treatment Capacity	Deploy to site within 24 hrs. of notification; provide on-site victim identification and morgue operations; provide family assistance services (NOTE 2)							
DMORT— WMD	Same as above	Same as above except adds additional capability to deal with residually contaminated chemical, biological, or radiological dead							
Deployable Portable Morgue Unit (DPMU)	Fully equipped to support DMORT functions	Add-on when no local morgue facilities available. Supports either standard DMORT or DMORT-WMD. (NOTE 3)							
COMMENTS:	response team ur mortuary services NOTE 1: Usually dental assitants, NOTE 2: DMORT	functions  Definition: A Disaster Mortuary Operational Response Team is a volunteer group of medical and forensic personnel, usually from the same geographic region, who have formed a response team under the guidance of the National Disaster Medical System (or state or local auspices), and whose personnel have specific training/skills in victim identification, mortuary services, and forensic pathology and anthropology methods.  NOTE 1: Usually includes a mix of medical examiners, coroners, pathologists, forensic anthropologists, medical records technicans, fingerprint technicians, forensic odentologists, dental assitants, radiologists, funeral directors, mental health professionals, and support personnel.  NOTE 2: DMORTs are mission tailored on an ad hoc basis, and usually deploy only with personnel and equipment specifically required for current mission.  NOTE 3: There are currently two Portable Morgue Units within NDMS.							



		RESOURCE: IN	TERNATIONAL MEDICAL S	URGICAL RESPONSE	TEAN	M (IMSURT)	
CATEGORY:	Health & Med	ical (ESF 8)		KIND:	Tea	m	
MINIMUM CA	PABILITIES:	TYPE I	Type II	Type III		TYPE IV	Other
Component	Metric						
IMSuRT is equipped and trained to provide surgical care outside CONUS. Full team consists of roughly 26 personnel (NOTE 1)	Deployment Readiness; Staffing; Training Status; Patient Treatment Capacity	Able to begin deployment to OCONUS location within 3 hrs. of notification; staff 2 OR suites providing emergency surgery, treatment, and stabilization. Usually deploys with all necessary equipment (NOTE 2)	Some mix of capabilities less than Type I				
Equipment, and Supplies	Logistics Status	Fully equipped to provide free-standing surgical capability, etc. (NOTE 2)	Limited to none				
COMMENTS:	formed a respons and surgical treat NOTE 1: This is t additional teams a	e team under the guidance of the ment capability, worldwide. he only NDMS medical team with are being formed.	e National Disaster Medicial Syste	em and the State Departm a single IMSuRT exists a	ent, an	Juals, usually from the same state id whose personnel and equipment and equipment, being a successor to the previous to the previous transfer and tr	nt give it deployable medical



		RESC	URCE: NDMS MANAGEM	ENT SUPPORT TEAM (MS	ST)			
CATEGORY:	Health & Med	ical (ESF 8)		KIND: Te	am			
MINIMUM CA	PABILITIES:	TYPE I	TYPE I TYPE II		TYPE IV	OTHER		
Component	Metric							
Supervisory, Logistics, Communi- cations, and Other Support Personnel (NOTE 1)	Deployment Readiness; Staffing; Training Status; Patient Treatment Capacity	Deploy to site within 24 hrs. of notification; provide federal supervision, coordination, and support at site of any NDMS team deployment, to include ambulatory care (sick call) for federal personnel (NOTE 2)	Deploy to site within 24 hrs. of notification with limited staff and communications equipment, but no tentage (NOTE 2)					
Shelters, Equipment, and Supplies	Logistics status	Full complement	Communication and administration only					
COMMENTS:	NOTE 1: MSTs a actually deployed	Definition: An MST is a command and control team that provides support and liaison functions for other NDMS teams in the field.  NOTE 1: MSTs are normally staffed by a mix of federal employees from NDMS headquarters, the PHS-2 team, or the CCRF. Although rostered, MSTs do not exist except when actually deployed in support of a mission. An MST (perhaps as small as one or two individuals) always accompanies an NDMS unit on a deployment.  NOTE 2: MSTs are mission-tailored on an ad hoc basis, and usually deploy only with personnel and equipment specifically required for current support mission.						



		RESOU	RCE: VETERINARY MEDICA	AL ASSISTANCE TEAM	(VMAT)		
CATEGORY:	Animals and A	Agriculture Issues		KIND:	KIND: Team		
MINIMUM CA	PABILITIES:	Type I	TYPE II	Type III	TYPE IV	OTHER	
Component	Metric						
60 Personnel Plus Equipment (NOTE 1)	Deployment Readiness; Staffing; Training Status; Patient Treatment Capacity	Deploy to site within 24 hrs. of notification; provide animal care, treatment, and shelter; food and water testing; basic epidemiologic capabilities (NOTE 2)	Some mix of capabilities less than Type I				
Shelters, Equipment, and Supplies	Logistics Status	Full complement	Limited or none				
Comments:	Definition: Veterinary Medical Assistance Teams (VMATs) are volunteer teams of veterinarians, technicians, and support personnel, usually from the same region, who have organized a response team under the guidance of the American Veterinary Medical Association and the NDMS, and whose personnel have specific training in responding to animal casualties and/or animal disease outbreaks during a disaster.  NOTE 1: Usually includes a mix of veterinarians, veterinary technicians, support personnel, microbiolgists, epidemiologists, and veterinary pathologists.  NOTE 2: VMATs are usually mission tailored on an ad hoc basis, and usually deploy only with personnel and equipment specifically required for the current mission. All VMATs within NDMS are considered Type 1. Epidemiologic capabilities are limited.						



## Law Enforcement Resources



			RESOURCE: BOMB SQUA	D/EXPLOSIVES TEAMS		
CATEGORY:	Law Enforce	ment/Security		KIND: Team	1	
MINIMUM CA	PABILITIES:	TYPE I	Type II	TYPE III	TYPE IV	OTHER
Component	Metric					
Equipment	Blast Protective Clothing	(5) Bomb Suits; (5) Search Suits; (10) Cooling Vests; Tactical Body Armor (helmet with ballistic shield, fire resistant clothing, gloves & hood); Hydration System	(3) Bomb Suits (3) Search Suits (6) Cooling Vests; Tactical Body Armor (helmet with ballistic shield, fire resistant clothing, gloves & hood); Hydration System	(1) Bomb Suits (1) Search Suits (2) Cooling Vests; (recommended); Tactical Body Armor (helmet with ballistic shield, fire resistant clothing, gloves & hood); Hydration System		
	X-Ray	(5) Portable X-Ray Devices	(3) Portable X-Ray Devices	(1) Portable X-Ray Device		
		(2) Real-Time X-Ray	(1) Real-Time X-Ray	(1) Real-Time X-Ray (Recommended)		
	RSP	(5) Disrupters & Advanced render safety Capabilities; DEMO kits	(3) Disrupters & Advanced render safety Capabilities; DEMO kits	(1) Disrupter & Advanced render safety Capabilities; DEMO kits		
	CBRN Protective Clothing	(5) Level A PPE (10) Level B PPE (10) Level C PPE APR	(6) Level B PPE (6) Level C PPE APR	(2) Level C PPE APR		
	Respiratory Protection	SCBA/APR necessary to sustain all team members	SCBA/APR necessary to sustain all team members	APR necessary to sustain all team members		
	Remote Stand-Off Capability	Complete Robot system	Robot system	Stand-Off Manipulation Equipment		
		Rigging Equipment	Rigging Equipment			
	Tools	Bomb Squad Hand Tools	Bomb Squad Hand Tools	Bomb Squad Hand Tools		
		Fiber Optics Camera	Fiber Optics Camera (recommended)			
		"COBRA" Computer	"COBRA" Computer			
	Monitoring/ Detection	CBRN Monitors; personal dosimeters	CBRN Monitors; personal dosimeters			
	Explosive Transport	Total Containment Vessel (TCV)—Chemical/Biological	Containment Vessel	Explosive Containment Box		
	Communi- cation	Intrinsically Safe In-Suit Communication Capability	Intrinsically Safe In-Suit Communication Capability			



			RESOURCE: BOMB SQUA	D / EXPLOSIVES TEAMS		
CATEGORY:	Law Enforcer	ment/Security		KIND:	eam	
MINIMUM CAI	PABILITIES:	TYPE I	TYPE II	Type III	TYPE IV	OTHER
Component	Metric					
Personnel		(2) Supervisors trained to bomb technician level (10) Bomb Technicians (2) Bomb Trained Medics (Recommended) (2) Explosive K-9 Teams (recommended)	(2) Supervisors trained to bomb technician level (6) Bomb Technicians (1) Bomb Trained Medic (Recommended) (2) Explosive K-9 Teams (recommended)	(2) Tech Bomb Technicians (1) Supervisor recommende (1) Explosive K-9 Teams (recommended)		
Vehicles		(1) Primary Response Vehicle; (1) Back-up Vehicle (1) Armored Vehicle	(1) Dedicated Equipment Vehicle	Equipment Vehicle		
Training		Post Blast Investigation Training—6 weeks; Basic Hazardous Devices school— 6 weeks; Robot Operator's Course; Hazardous Materials Tech Training; Additional WMD Training; Advanced Access and Disablement; Explosive Breaching Training; 40 hours continuous training annually; 16 hours training monthly; Recertification every 3 years	Post Blast Investigation Training—6 weeks; Basic Hazardous Devices school – 6 weeks; Hazardous Materials Tech Training; WMD Training; Advanced Access and Disablement; Explosive Breaching Training (Recommended); 40 hours continuous training annually; 16 hours training monthly; Recertification every 3 years	Post Blast Investigation Training—6 weeks; Basic Hazardous Devices school- 6 weeks; Hazardous Materials Tech Training; WMD Training; Advanced Access and Disablement; Explosive Breaching Training (Recommended); 4 hours continuous training annually; 16 hours training monthly; Recertification every 3 years	0	



			RESOURCE: BOMB SQUA	D/EXPLOSIVES TEAI	vis .		
CATEGORY:	Law Enforcem	nent/Security		KIND:	Tea	ım	
MINIMUM CA	PABILITIES:	TYPE I	TYPE II	TYPE III		Type IV	OTHER
Component	Metric						
COMMENTS:	Type I—A dedica incidents, involvin bomb technicians material) and CBI Type II—A full-tim sophisticated imprender safe capal be capable of wor Type III—A full-tim	Chemical, Bid Personal Pro Air Purifying Self Containe Totally encap Non-encapsus Non-encapsus Chemical Bid Total Containe Total Containe Chemical Bid Total Contain	petic materials, electronic/remote have render safe capabilities up II be capable of working in a CBF able of handling a moderate incide electronic/remote firing systems. The systems where the systems is able of handling a small incident. The system is a CBRN environment absorbed in a CBRN environment absorbe	firing systems, and tactical to and including large vehich environment and supported and supported. A moderate incident rough Teams shall consist of a nof containing up to 4,000 llot Teams shall consist of a nent of vapors and liquids.	l explosicle bor cle bor ort taction nay inconstruction ninimur os. of e	sive breaching support. Teams some IEDs (capable of containing usual team operations. Stude a life-threatening or time-sem of 6 bomb technicians and 2 suexplosive material) and CBRN dis	chall consist of a minimum of 10 p to 60,000 lbs. of explosive insitive incident, involving apervisors. Team must have persal devices. Teams should



		RESOURCE: LAW	ENFORCEMENT AVIATION-	HELICOPTERS-PATROL &	SURVEILLANCE	
CATEGORY:	Law Enforce	ment/Security		KIND: Airc	raft	
MINIMUM CA	PABILITIES:	TYPE I	Type II	TYPE III	TYPE IV	OTHER
Component	Metric	1				
Vehicles	Helicopters	4 or more seats incl. Pilot, 12K ft or < ceiling, Certified aircraft, Jet turbine	Same as Type I except Military Surplus	Same as Type II except 2 or more seats incl. Pilot, Certificated aircraft or Military Surplus but would meet Certified, turbine, or reciprocating engine	Same as Type II except 2 or more seats incl. Pilot, Certificated aircraft or Military Surplus but would meet Certified, turbine, or reciprocating engine with fixed or inflatable flotation device	
	Capabilities	VFR	VFR	VFR	VFR	
Equipment	Radios	Programmable/encryption radios (aviation (2) & law enforcement (3 or <)	VHF/UHF capabilities, police radios	VHF/UHF capabilities, police radios	VHF/UHF capabilities, police radios	
	Navigation Equipment	GPS Night Vision Goggles				
	Visual Aids	FLIR	FLIR	FLIR	FLIR	
		Binoculars	Binoculars	Binoculars	Binoculars	
		Microwave Downlink Video Capability	Recommended: Microwave Downlink Video Capability			
	PPE	Helmet, Nomex Flight Suits, Gloves, Full Leather Boots (mandatory for flight crew, optional for other passengers)	Helmet, Nomex Flight Suits, Gloves, Full Leather Boots (mandatory for flight crew, optional for other passengers)	Helmet, Nomex Flight Suits, Gloves, Full Leather Boots (mandatory for flight crew, optional for other passengers)	Helmet, Nomex Flight Suits, Gloves, Full Leather Boots (mandatory for flight crew, optional for other passengers)	
Personnel		Pilot—Commercial or higher, rotary/helicopter, pilot license w/Class I Medical, pre-TFO experience, full-time assignment to unit TFO—Complete unit level trng program, Min. 2 yrs in patrol, Superior field tactics skills, full-time asgnmnt to unit Maint. Staff—Full-time asgnmnt, A&P/IA license	Pilot—Same as Type I except Class II Medical TFO—Same as Type I Maint. Staff—Same as Type I except not required to be I/A	Same as Type II except Maint. Staff may be part-time or contracted	Pilot—Same as Type II	



			ENFORCEMENT AVIATION-	HELICOPTERS-PATROL &	SURVEILLANCE			
CATEGORY:	Law Enforcem	nent/Security		KIND: Airc	craft			
MINIMUM CAI	PABILITIES:	Type I	Type II	TYPE III	Type IV	OTHER		
Component	Metric							
Training		Pilot—Currency trng every 6 mos. with all emerg proc as well as mtg all FAA license requirements TFO—Unit-level trng & Law Enf. AOT Maint. Staff—Maintain I/A license w/ yearly classes	Pilot—Currency trng every 6 mos. with all emerg proc as well as mtg all FAA license requirements TFO—Unit-level trng & Law Enf. AOT	Pilot—Currency trng every 6 mos. with all emerg proc as well as mtg all FAA license requirements TFO—Unit-level trng & Law Enf. AOT	Pilot—Currency trng every 6 mos. with all emerg proc as well as mtg all FAA license requirements, including sea plane license TFO—Unit level trng & Law Enf. AOT			
COMMENTS:	Type I—Day/night patrol helicopters, infrared and visible light, searchlight, jet turbine powered, GPS, microwave or similar downlink, tracking devices Type II—Same as Type I except military surplus Type III—Same as Type II except: jet turbine or reciprocating engines Type IV—Water landing/surveillance/patrol capabilities  Definitions							
	A&P	Airframe and Powerplant mech	nanic					
	FAA	Federal Aviation Administration						
	FLIR	Forward Looking Infrared						
	GPS	Global Positioning System						
	IA	Inspection Authorization						
	IFR/VFR	Instrument Flight Rules/Visual	Flight Rules					
	PA Public Address (speaker)							
PPE Personnel Protective Equipment consists of clothing and equipment that provides protection to an individual in a hazardous environn 9 of the IHOG details appropriate equipment requirements for various aerial missions and ground helicopter operations.								
	VHF/UHF	Very High Frequency/Ultra Hig	h Frequency					
	TFO	Tactical Flight Officer						



		RESOURCE:	LAW ENFORCEMENT OBSI	ERVATION AIRCRAFT	Γ <b>(F</b> ΙΧΙ	ED WING)	
CATEGORY:	Law Enforcer	nent/Security		KIND:	Airc	raft	
MINIMUM CA	PABILITIES:	TYPE I	Type II	Type III		Type IV	OTHER
Component	Metric						
Vehicle	Fixed-Wing Aircraft	Fixed-Wing Observation Aircraft	Fixed-Wing Observation Aircraft–Low and Slow				
	Capacity	2-4 passenger with cargo not to exceed design specifications of aircraft	2-4 passenger with cargo not to exceed design specifications of aircraft				
Equipment	Flight Suit	Appropriate level of PPE	Appropriate level of PPE				
	Video/ Electronic	Microwave Downlink Video, FLIR					
	Radios	VHF Radios, Police Frequency Radios	VHF Radios, Police Frequency Radios				
Personnel		Pilot-Commercial or higher, ASEL, pilot license w/Class I or II Medical, full-time assignment to unit	Pilot-Commercial or higher, ASEL, pilot license w/Class I or II Medical, full-time assignment to unit				
		TFO-Complete unit level training program, law enforcement trained	TFO-Complete unitlevel training program, law enforcement trained				
Training		Pilot—Commercial Pilots Certification or higher (instrument rated), updated every 6 mos. with Emergency Procedures as well as meet all FAA license requirements; Current Medical Flight Review (FAA) TFO-Unitlevel training & Law Enforcement AOT	Pilot—Commercial Pilots Certification or higher (instrument rated), updated every 6 mos. with Emergency Procedures as well as meet all FAA license requirements; Current Medical Flight Review (FAA) TFO–Unit level training & Law Enforcement AOT				
COMMENTS:	Low and slow ob	servation ability. General law enf	pilities for extended operations, lov	Ŭ			



		RESOURCE: MOB	ILE FIELD FORCE LAW EN	FORCEMENT (CROWD CO	NTROL TEAMS)	
CATEGORY:	Law Enforcer	ment/Security		KIND: Tea		
MINIMUM CA	PABILITIES:	TYPE I	TYPE II	Type III	TYPE IV	OTHER
Component	Metric					
Equipment	Protective Clothing	Protective Clothing; Soft Body Armor (helmet and face shield, gloves, shin guards); Fire-resistant clothing recommended	Protective Clothing; Soft Body Armor (helmet and face shield, gloves, shin guards); Fire- resistant clothing recommended	Protective Clothing; Soft Body Armor (helmet and face shield, gloves, shin guards); Fire-resistant clothing recommended		
	Communi- cation	Team Radio Communication Equipment (portable radios, extra batteries, battery charger, cellular phones)	Team Radio Communication Equipment (portable radios, extra batteries, battery charger, cellular phones)	Team Radio Communication Equipment (portable radios, extra batteries, battery charger, cellular phones)		
	Respiratory Protection	NIOSH-approved protective mask	NIOSH-approved protective mask;	NIOSH-approved protective mask		
	Safety Equipment	Safety glasses; ear protection (recommended); fire extinguisher Foul Weather Gear; Hand-	Safety glasses; ear protection (recommended); fire extinguisher Foul Weather Gear; Hand-	Safety glasses, ear protection (recommended); fire extinguisher Foul Weather Gear; Hand-		
		Held Shields	Held Shields	Held Shields		
	Chemical Protective Clothing	Personal Hydration System Level C PPE suits for entire team	Personal Hydration System Level C PPE suits for entire team	Personal Hydration System		
	Counter- Sniper Equipment	Provided by SWAT team	(2) Shoulder fired weapons			
	Surveillance Equipment	Video equipment capabilities	Video equipment capabilities	Video equipment capabilities		
	Individual Weapons	Department authorized handguns; duty gear and equipment	Department authorized handguns; duty gear and equipment	Department authorized handguns; duty gear and equipment		
	Impact Weapons	Riot Control Batons or approved impact weapon	Riot Control Batons or approved impact weapon	Riot Control Batons or approved impact weapon		
	Misc. Equipment	Bullhorns; Flex Cuffs; Mass arrest kits	Bullhorns; Flex Cuffs; Mass arrest kits	Bullhorns; Flex Cuffs; Mass arrest kits		
	Delivery Systems	Chemical Agents and Delivery Systems; Less lethal munitions and delivery systems	Chemical Agents and Delivery Systems; Less lethal munitions and delivery systems	Chemical Agents and Delivery Systems; Less lethal munitions and delivery systems		



		RESOURCE: MOB	BLE FIELD FORCE LAW EN	FORCEMENT (CROWD CO	NTROL TEAMS)	
CATEGORY:	Law Enforcer	nent/Security		KIND: Tea	m	
MINIMUM CA	PABILITIES:	TYPE I TYPE II		Type III	TYPE IV	OTHER
Component	Metric					
Personnel		1 OIC 1 Deputy OIC 4 Supervisors 2 Counter Snipers 8 Grenadiers 38 Officers 4 Prison Transportation Officers 1 Field Booking Team Recommended	1 OIC 1 Deputy OIC 4 Supervisors 2 Counter Snipers 8 Grenadiers 38 Officers 4 Prison Transportation Officers	1 OIC 2 Supervisors 1 Counter Sniper 4 Grenadiers 19 Officers 2 Prison Transportation Officers		
Vehicles		2 Prisoner Transportation Vans; 14 Patrol Vehicles	2 Prisoner Transportation Vans; 14 Patrol Vehicles	1 Prisoner Transportation Van; 7 Patrol Vehicles		
Training		No known national standard; Law enforcement officer with certified advanced training	No known national standard; Law enforcement officer with certified advanced training	No known national standard; Law enforcement officer with certified advanced training		



			LE FIELD FORCE LAW EN	FORCEMENT (CROWD	CONTROL TEAMS)					
CATEGORY:	Law Enforcem	nent/Security		KIND:	eam					
MINIMUM CAI	PABILITIES:	TYPE I	Type II	TYPE III	TYPE IV	OTHER				
Component	Metric									
COMMENTS:					n squads and an OIC and a Deputy					
					nforcement, and general saturation p	resence for the purpose of				
	maintaining order	and preserving the peace to inclu	ide CBRN environments. The tea	am engages in routine training	g to maintain advanced skill level.					
	Type II – A pre-de	esignated team consisting of four	12-person squads and an OIC a	nd a Deputy OIC. Each squad	includes a supervisor. The team is	capable of managing large				
				e of maintaining order and pre	eserving the peace to include CBRN	environments. The team				
	engages in routine training to maintain advanced skill level.  Type III – A non-designated team consisting of two 12-person squads and an OIC. Each squad includes a supervisor. The team is capable of managing large crowds, traffic control									
		general saturation presence for t			visor. The team is capable of manaç	Jing large crowds, trainc control				
	eniorcement, and	general saturation presence for t	ne purpose of maintaining order	and preserving the peace.						
	**List of Definition	ns of acronyms and terms used in	document will be attached to for	m						
	Definitions	is or doronyms and bims dood in	decement will be attached to let							
	OIC	Officer in Charge								
	NIOSH		cupational Safety and Health							
	CBRN	Chemical, Biological, R	adiological, Nuclear							
	Level C PPE	Personal Protection Eq	uipment consisting of a non-enca	apsulated chemical resistant s	suit with APR					
	SWAT	Special Weapons Assa								
	Platoon				uty OIC (minimum rank of sergeant),	each with a driver.				
			nel is 52, with a minimum total of							
	Squad	An organized element of	of a platoon consisting of 11 office	ers and a supervisor (sergean	nt). 12 total personnel in a minimum	of 3 patrol vehicles				
	Field Booking T	eam A team of personnel sp	ecially trained to respond to field	l incidents and set up a bookir	ng site to facilitate the booking proce	ess and				
			arrested. The size of the team of							
	Mass Arrest Kit	Kit containing field boo	king forms, Polaroid or digital car	mera, flex cuffs, plastic bags f	or prisoner property, computers, cui	ting tool for flex				
		cuffs, fingerprint equipr	nent							



			RESOURCE: SWAT	TACTICAL TEAMS		
CATEGORY:	Law Enforce	ment/Security		KIND: Tean	n	
MINIMUM CA	PABILITIES:	TYPE I	Type II	TYPE III	TYPE IV	OTHER
Component	Metric	Ī				
Equipment	Protective Clothing	Protective Clothing; Tactical Body Armor (helmet with ballistic shield, fire resistant gloves & hood);	Protective Clothing; Tactical Body Armor (helmet with ballistic shield, fire resistant gloves & hood);	Protective Clothing; Tactical Body Armor (helmet with ballistic shield, fire resistant gloves & hood);		
	Communi- cation	Team Radio Communication Equipment (portable radios, extra batteries, battery charger, cellular phones)	Team Radio Communication Equipment (portable radios, extra batteries, battery charger, cellular phones)	Team Radio Communication Equipment (portable radios, extra batteries, battery charger, cellular phones)		
		Night Vision Goggles for entry and containment				
		2 Night Vision Scopes	2 Night Vision Scopes			
	Ballistic Protection	Soft and tactical Body Armor for all team members	Soft and tactical Body Armor for team members	Soft and tactical Body Armor for team members		
	Respiratory Protection	NIOSH-approved protective mask	NIOSH-approved protective mask;	NIOSH-approved protective mask		
		14 SCBAs	SCBAs recommended			
	Safety Equipment	Safety glasses, ear protection	Safety glasses, ear protection	Safety glasses, ear protection		
	Chemical Protective Clothing	Level B and C PPE Suits for entire team	Level B and C PPE Suits for entire team	Level C PPE Suits for entire team		
	Breaching Equipment	Mechanical Breaching Equipment	Mechanical Breaching Equipment	Mechanical Breaching Equipment		
		Shotgun Breaching Equipment	Shotgun Breaching Equipment	Shotgun Breaching Equipment (Recommended)		
		Explosive Breaching Equipment	Explosive Breaching Equipment Recommended			
	Sniper Equipment	Extended long-range weapons greater than 500 yards with day and night scope	Long-range weapons less than 500 yards with day and night scope	Long-range weapons less than 500 yards with day scope		
		Chemical Agents and delivery system	Chemical Agents and delivery system	Chemical Agents and delivery system		
		Less lethal munitions and delivery systems	Less lethal munitions and delivery systems	Less lethal munitions and delivery systems		
	Robot Systems	Robot System with tactical options	Robot System with tactical options recommended	denvery systems		



			RESOURCE: SWAT/	TACTICAL TEAMS		
CATEGORY:	Law Enforcer	ment/Security		KIND: Tean	n	
MINIMUM CA	PABILITIES:	TYPE I	Type II	TYPE III	TYPE IV	OTHER
Component	Metric					
•	Safety	Foul Weather Gear	Foul Weather Gear	Foul Weather Gear		
	Equipment					
		Personal Hydration System	Personal Hydration System	Personal Hydration System		
	Surveillance Equipment	Listening equipment; video equipment; fiber optics	Listening equipment; video equipment			
		Transmitting equipment that will include wireless and hardline				
		IR Capability				
		Portable Ladders	Portable Ladders	Portable Ladders		
	Weapons	Weapons: Handguns, assault weapons,	Weapons: Handguns, assault weapons,	Weapons: Handguns, assault weapons,		
		Lighted Weapon System	Lighted Weapons System	Lighted Weapons System		
		Distraction Devices	Distraction Devices	Distraction Devices		
		Rappelling & Fast Rope Equipment	Rappelling Equipment			
		Hand Held Ballistic Shields	Hand-Held Ballistic Shields	Hand-Held Ballistic Shields		
Personnel		2 Long Rifle Teams (2-man Team); 6 Man Entry Team; 1 Team Leader; 8 Containment to include grenadiers; 2 Tactical Medics; 1 Liaison; 1 Tactical Commander; 2 Canine Teams; 1 Electronic Tech; 1 Scribe; 1 Communications Officer; 2 Explosive Breachers; 1 Robot Technician	2 Long Rifle Teams (2-man Team); 6 Man Entry Team; 1 Team Leader; 8 Containment to include grenadiers; 1 Tactical Medic; 1 Liaison; 1 Tactical Commander; Canine Teams recommended; Electronic Tech recommended; Explosive Breachers recommended; Robot Technician recommended	2 Long Rifle Teams (2-man Team); 4 Man Entry Team; 1 Team Leader; 8 Containment to include grenadiers; 1 Tactical Medic recommended; 1 Liaison recommended; 1 Tactical Commander;		
Vehicles		Armored Personnel Carrier (APC)	Armored Personnel Carrier (APC) recommended			



RESOURCE: SWAT/TACTICAL TEAMS										
CATEGORY:	Law Enforcem	nent/Security		KIND: Tear	n					
MINIMUM CA	PABILITIES:	Type I	Type II	TYPE III	Type IV	OTHER				
Component	Metric									
Training		No known national standard; Law enforcement officer with certified advanced training	No known national standard; Law enforcement officer with certified advanced training	No known national standard; Law enforcement officer with certified advanced training						
COMMENTS:	Type I—A dedicated full-time team designated to handle high-risk situations requiring specialized weapons or extraordinary special operations. Team capable of operating in rural and urban environments. Team capability includes dealing with chemical, biological, radiological, and nuclear (CBRN) events. Teams should be capable of working in a CBRN environment absent of vapors.  Type II—A full-time or part-time team designated to handle high-risk situations requiring specialized weapons or extraordinary special operations. Team capable of operating in either rural or urban environments. Teams should be capable of working in a CBRN environment absent of vapors.  Type III—A team designated to handle high-risk situations requiring specialized weapons with limited resources and capabilities. Teams should be capable of working in a CBRN environment absent of vapors and liquids.									
	Definitions									
	CBRN		al, Radiologica, Nuclear							
	PPE	Personal Protective	e Equipment							
	APR	Air Purifying Respir								
	SCBA	Self-Contained Bre	0 11							
	Level B PPE Non-encapsulated or encapsulated chemical resistant suit with SCBA									
	Level C PPE		chemical resistant suit with APR							
	NIOSH		Occupational Safety and Health	1						
	APC	Armored Personne	l Carrier							



## Public Works



			RESOURCE: Air Cor	nditioner/Heater		
CATEGORY:	Public Works	and Engineering (ESF 3)		KIND: Equ	ipment	
MINIMUM CA	PABILITIES:	TYPE I	TYPE II	Type III	Type IV	OTHER
Component	Metric	90 Ton	60 Ton	25 Ton	10 Ton	
Equipment	Ton	Air conditioner/heater; 90	Air conditioner/heater; 60	Air conditioner/heater; 25	Air conditioner / heater;	
, ,		Ton Air Cooled Direct	Ton Air Cooled Direct	Ton Air Cooled Direct	Caterpillar/York 10 Ton Air	
		Expansion portable A/C unit	Expansion portable A/C unit	Expansion portable A/C unit	Cooled Direct Expansion	
		w/ heat; 26,000 cfm (cubic	w/ heat; 17,000 cfm (cubic	w/ heat; 9,400 cfm (cubic feet	portable A/C unit w/ heat;	
		feet per minute) of air	feet per minute) of air	per minute) of air delivered;	4,000 cfm (cubic feet per	
		delivered; Weight: 19,900	delivered; Weight: 16,500	Weight: 4,140 lbs; Can be	minute) of air delivered;	
		lbs; Can be trailer mounted	lbs; Can be trailer mounted	trailer mounted (flat bed tow	Weight: 1,500 lbs; Can be	
		(flat bed semi) dimensions:	(flat bed semi) dimensions:	behind) dimensions: 12' Long	trailer mounted (flat bed tow	
		20' Long x 8' Wide x 9'.5"	20' Long x 8' Wide x 8'.5"	x 7'.6" Wide x 5' Tall; Power	behind) dimensions: 11' Long	
		Tall; Power requirements:	Tall. Power requirements:	requirements: Cooling only	x 6'.5" Wide x 5' Tall; Power	
		Cooling only 260 Amps at	Cooling only 160 Amps at	60 Amps at 460 volts, 3	requirements: Cooling only	
		460 volts, 3 phase, 60 hz;	460 volts, 3 phase, 60 hz;	phase, 60 hz; <b>Heat only</b> (72	24 Amps at 460 volts, 3	
		Heat only (250 kW) 368	Heat only (125 kW) 200	kW) 100 Amps at 460 volts, 3	phase, 60 hz; <b>Heat only</b> (54	
		Amps at 460 volts, 3 phase,	Amps at 460 volts, 3 phase,	phase, 60 hz; (4-6) 20" Flex	kW) 71 Amps at 460 volts, 3	
		60 hz;	60 hz;	duct connections for air	phase, 60 hz; (3) 20" Flex	
		(8) 20" Flex duct connections	(8) 20" Flex duct connections	supply (2)/ return (2-4);	duct connections for air	
		for air supply (4)/ return (4);	for air supply (4)/ return (4);	Potential application	supply (1)/ return (2);	
		Potential application	Potential application	examples: Tents, Small	Potential application	
		examples: Airports,	examples: Airports, Retail	retail stores, Libraries,	examples: Tents,	
		Universities, Malls, Moisture removal from wet	stores, Schools, Moisture removal from wet buildings	Moisture removal from wet buildings & materials	Computer rooms, Small office (2,000 sq. ft.),	
		buildings & materials	& materials (weather /	(weather / temperature	Moisture removal from wet	
		(weather / temperature	temperature permitting).	permitting).	buildings & materials	
		permitting).	Setup time varies depending	Setup time varies depending	(weather / temperature	
		Setup time varies depending	on duct installation,	on duct installation,	permitting). Setup time	
		on duct installation,	fabricating, wiring, etc2+	fabricating, wiring, etc2+	varies depending on duct	
		fabricating, wiring, etc2+	hours;	hours;	installation, fabricating,	
		hours:	4/0 Cam-Lock type quick	4/0 Cam-Lock type quick	wiring, etc2+ hours;	
		4/0 Cam-Lock type quick	connect cable used for power	connect cable used for power	4/0 Cam-Lock type quick	
		connect cable used for power	termination to source.	termination to source.	connect cable used for power	
		termination to source.			termination to source.	
COMMENTS:		Pre	ON - ma	DATE	DAT had	



	RESOURCE: AIR CURTAIN BURNERS (FIRE BOX-ABOVE GROUND, REFRACTORY WALLED)									
CATEGORY:	Public Works	s and Engineering (ESF	3)	k	(IND: Equipment					
MINIMUM CA	PABILITIES:	TYPE I	Type II	Type III	TYPE IV	Type V	TYPE VI			
Component	Metric	S-327	S-321	S-220	S-217	S-116	S-111			
Equipment	Tons/Hr	Dimensions: Overall L×W×H: 37'4"×11'10"×9'7" Firebox: 27'2"×8'5"×8'1" Weight: 50,000 lbs Avg. Thru-put: 6-10 tons/hr Engine: Perkins 1004.42 Fuel: Diesel, 3 gal/hr Unit is shipped completely assembled; transportable by drop-	Dimensions: Overall L×W×H: 31'4"×11'10"×9'7" Firebox: 21'2"×8'5"×8'1" Weight: 46,000 lbs Avg. Thru-put: 5-8 tons/hr Engine: Perkins 1004.42 Fuel: Diesel, 3 gal/hr Unit is shipped completely assembled; transportable by drop-	Dimensions: Overall L×W×H: 30'2"×8'6"×8'6" Firebox: 19'8"×6'2"×7'1" Weight: 33,500 lbs Avg. Thru-put: 3-6 tons/hr Engine: Perkins 404C Fuel: Diesel,  2.5 gal/hr Unit is shipped completely assembled transportable by	Dimensions: Overall L×W×H: 27'×8'6"×8'6" Firebox: 16'5"×6'2"×7'1" Weight: 30,000 lbs Avg. Thru-put: 2-5 tons/hr Engine: Perkins 404C Fuel: Diesel,	Dimensions: Overall L×W×H: 27'×7'5"×7'8" Firebox: 16'×5'×6' Weight: 26,000 lbs Avg. Thru-put: 1-4 tons/hr Engine: Perkins 404C Fuel: Diesel, 2.5 gal/hr Unit is shipped completely assembled	Dimensions: Overall L×W×H: 21'6"×7'5"×7'8" Firebox: 11'×5'×6' Weight: 21,300 lbs Avg. Thru-put: ½-2 tons/hr Engine: Perkins 404C Fuel: Diesel,			
		deck trailer  Application: Wood Waste Reduction & Animal Carcass Disposal (needs wood waste to support carcass combustion) On GSA Schedule	Application: Wood Waste Reduction & Animal Carcass Disposal (needs wood waste to support carcass combustion) On GSA Schedule	flatbed or tilt bed tag trailer  Application: Wood Waste Reduction & Animal Carcass Disposal (needs wood waste to support carcass combustion)  On GSA Schedule	flatbed or tilt bed tag trailer  Application: Wood Waste Reduction & Animal Carcass Disposal (needs wood waste to support carcass combustion) On GSA Schedule	transportable by flatbed or tilt bed tag trailer  Application: Wood Waste Reduction & Small Animal Carcass Disposal (needs wood waste to support carcass combustion) On GSA Schedule	flatbed or filt bed tag trailer  Application: Wood Waste Reduction & Small Animal Carcass Disposal (needs wood waste to support carcass combustion) On GSA Schedule			
COMMENTS:	S-300 Series (Type I & II)			S-200	Series II & III)	S-10	0 Series e IV & V)			



		RESOURC	E: AIR CURTAIN BURNERS	S (TRENCH BURNER, IN-G	ROUND)			
CATEGORY:	1 Public Wor	ks and Engineering (ESF 3)		KIND: Equ	KIND: Equipment			
MINIMUM CA	PABILITIES:	TYPE I	Type II	TYPE III	TYPE IV	OTHER		
Component	Metric	T-400	T-200	T-350				
Component Equipment  Comments:	Metric Tons/HR				TYPE IV	OTHER		
		T-400 & T200 (Typ	pe I & II)		T-350 (Type III)			



			RESOURCE: ALL T	ERRAIN CRANES						
CATEGORY:	Public Works and Engineering (ESF 3)  KIND: Equipment; Personnel; Vehicle									
MINIMUM CA	PABILITIES:	Type I	TYPE II	Type III	TYPE IV	Other				
Component	Metric									
Equipment & Personnel	Tons	210-175 Crane type with boom reach of 170 feet. With jib reaches to approx. 280 feet. Self-propelled/driven over the road. Operator furnished. Setup time minimal. Jib and counter-weight are transported by two tractor-trailers	50-120 Crane type with boom reach of 150 feet. With jib reaches to approx. 250 feet. Self-propelled/driven over the road. Operator furnished. Setup time minimal. Jib and counter-weight are transported by two tractor-trailers	110-90 Cane type with boom reach of 192 feet. With jib add approx. 30 feet. Self-propelled/driven over the road. Operator furnished. Setup time minimal. Jib and counter-weight are transported by two tractor-trailers	Crane type with boom reach of 90 feet. With jib add approx. 30 feet. Self propelled/driven over the road. Operator furnished. Setup time minimal					
COMMENTS:	Check with your I	ocal/state transportation and law	enforcement organizations to de	termine mobilization requiremen	ts.					



	RESOURCE: CHILLERS & AIR HANDLERS (500 TON TO 50 TON)									
CATEGORY	Public Works	and Engineering (ESF	3)	,	KIND: Equipment					
MINIMUM CA	APABILITIES:	TYPE I	TYPE II	Type III	TYPE IV	TYPE V	TYPE VI			
Component	Metric	1								
Equipment	Ton	500/450 Ton Chiller Caterpill ar/York 450/500 Ton Air Cooled Chiller; Built-in pump delivering 330- 1600 gpm (gallons per minute); will operate in series or parallel operation w/multiple units; 8" flanged water fittings on exterior; Weight: 50,000 lbs; Trailer mounted (semitractor) dimensions: 40' Long x 8'.5" Wide x 13'.5" Tall; Power requirements: 800-980 Amps at 460 volts, 3 phase, 60 hz; Temporary quick connect chilled water hose available with unit for tie in to chilled water system; Potential application examples: Single or multiple units for Computer centers, High-rise buildings, Heavy manufacturing, Airports, Universities. Setup time varies depending on hose installation, water filling, fabricating, etc4+ hours; 4/0 Cam-Lock type quick connect cable used for power termination b source	300 Ton Chiller Caterpillar/York 300 Ton Air Cooled Chiller; Built-in pump(s) delivering 250-800 gpm; 6" flanged water fittings on exterior; Weight: 33,000 lbs; Trailer mounted (semitractor) dimensions: 30' Long x 8' Wide x 13'.5" Tall; Power requirements: 600-700 Amps at 460 volts, 3 phase, 60 hz; Temporary quick connect chilled water hose available with unit for tie in to chilled water system; Potential application examples: Single or multiple units for Office buildings, Multi-story buildings, Schools, Temporary structures, Retail stores. Setup time varies depending on hose installation, water filling, fabricating, etc3+ hours; 4/0 Cam-Lock type quick connect cable used for power termination to source	150 Ton Chiller Caterpillar/York 150 Ton Air Cooled Chiller; Built-in pumps delivering 250-700 gpm; 6" flanged water fittings on exterior; Weight: 31,000 lbs; Trailer mounted (semitractor) dimensions: 20/30' Long x 8' Wide x 12'.5" Tall; Power requirements: 329-400 Amps at 460 volts, 3 phase, 60 hz; Temporary quick connect chilled water hose available with unit for tie in to chilled water system; Potential application examples: Single or multiple units for Medium office buildings, Libraries, Hotels/motels, Condominiums, Retail stores. Setup time varies depending on hose installation, water filling, fabricating, etc2+ hours; 4/0 Cam-Lock type quick connect cable used for power termination to source	50 Ton Chiller Caterpillar/York 50 Ton Air Cooled Chiller; Built-in pump delivering 75-200 gpm; 4" quick connect water fittings on exterior; Weight: 5,500 lbs.; Skid mounted w/ forklift pockets (8,000 lb. lift recommended) dimensions: 12' Long x 7'.5" Wide x 8'.5" Tall; Power requirements: 125 Amps at 460 volts, 3 phase, 60 hz; Temporary quick connect chilled water hose available with unit for tie in to chilled water system. Potential application examples: Single or multiple units for Small office buildings, Tent/shelter cooling, Small-medium retail stores. Setup time varies depending on hose installation, water filling, fabricating, etc2+ hours; 4/0 Cam-Lock type quick connect cable used for power termination to source	Custom Rental Air Handling Units: 50, 75, & 100 Tons For delivering cold air with use of any chiller, 5,000-30,000 cfm depending on unit; 20" diameter flex duct inlets/outlets for air distribution supply/return; 4/0 Cam-Lock type quick connect cable used for power termination to source; Call for power requirements and sizing; Potential application examples: Single or multiple units for buildings w/out HVAC systems, Tent/shelter cooling, etc Setup time varies on application 1-2 hours each				



		R	ESOURCE: CHILLERS &	AIR HANDLERS (50	0 Ton T	o 50 Ton)		
CATEGORY	Public Works a	and Engineering (ES	F 3)		KIND:	Equipment		
MINIMUM CA	PABILITIES:	TYPE I	Type II	Type III		TYPE IV	Type <b>V</b>	Type VI
Component	Metric							
COMMENTS:	source for filling ch	nilled water system. Tem	uipment not available at all lo iporary chilled water hose & of chillers or chilled water su	4/0 power cable available t	or chillers.			r and ship. Need fresh water Temp Chillers and Cooling
	500/450	Ton	300 Ton	150 Ton		50	Ton	Custom Rental Air Handling Unit



			NC RETE CUTTER/MULTI-	PROCESSOR FOR HYDRAUL	IC EXCAVATOR	
CATEGORY:	Public Works	s and Engineering		KIND: E	quipment	
MINIMUM CAP	ABILITIES:	TYPE I	Type II	TYPE III	TYPE IV	OTHER
Component	Metric	MP40 CC (Largest)	MP30 CC	MP20 CC	MP15 CC (smallest)	
Jaw Opening	Inches	50.4	38.4	32	26	
Jaw Depth	Inches	43.3	35	31	26	
Force at	Short Ton	168	140	107	79	
Tooth Tip						
Force Primary	Short Ton	494	460	337	247	
Blade Center						
Weight of Jaw	Pounds	4850	7935	5730	3970	
Weight With	Pounds	12785	20.5	18	16	
housing						
Cutter Length	Inches	23.6	110.2	95	87	
Length	Inches	137.8	208	157	112	
Force At	Short Ton	247	2865	2205	1430	
Cutting Tip						
Max Op Pres	Pressure	5075	5075	5075	5075	
Hyd. Cylinder	Per Square					
	Inch					
Maximum Oil	Gallons Per	106	79	53	40	
flow Cylinder	Minute					
Maximum Oil	Cycle -	7.5	6.5	6	5	
flow Cylinder	Seconds	0000	0000			
Maximum	Pressure	2030	2030	2030	2030	
Operating	Per Square					
Pressure	Inch					
Rotator	0 "	22	11	11	111	
Maximum Oil	Gallons per	22	11	11	11	
Flow Rotator	minute	375, 375 L	345B L Series II	322C L, 325C L	321 B LCR, 322C	
For Use on		Hydraulic	Hydraulic	Hydraulic	L Hydraulic	
Models		Excavators	Excavators	Excavators	Excavators	
COMMENTS:	Multi-processor				vs allows a single unit to crush, pulve	rize, and perform a variety
	of specialized c	utting tasks, such as cutting ste	el rebar and tanks. Check with	Cat dealer/owner to match Multi-pi	rocessor model attachment to Hydrau	lic Excavator.



RESOURCE: CONCRETE CUTTER/MULTI-PROCESSOR FOR HYDRAULIC EXCAVATOR										
CATEGORY: Public Works and Engineering KIND: Equipment										
MINIMUM CAF	ABILITIES:	Type I	Type II	Type III	Type IV	Other				
Component	Metric	MP40 CC (Largest)	MP30 CC	MP20 CC	MP15 CC (smallest)					



			RESOURCE: CRA	WLER CRANES		
CATEGORY:	Public Works	and Engineering (ESF 3)		KIND:	Equipment; Personnel; Vehicle	)
MINIMUM CA	PABILITIES:	TYPE I	TYPE II	Type III	TYPE IV	OTHER
Component	Metric					
Equipment & Personnel	Tons	(Manitowoc 777) with a boom reach of 300 feet Operator with one (1) oiler/rigger. Requires nine (9) tractortrailers to mobilize & demobilize. Setup time six (6) hours.	(Manitowoc 222) with a boom reach of 300 feet Operator with one (1) oiler/rigger. Requires four (4) tractor-trailers to mobilize & demobilize. Setup time four (4) hours.	(Manitowoc 111) with a base reach of 300 feet Operative with one (1) oiler/rigger. Requires four (4) tractortrailers to mobilize & demobilize. Setup time to (2) hours.	or -	
COMMENTS:	Check with your I	ocal/state transportation and law	enforcement organization to dete	ermine mobilization require	ments.	



		RES	OURCE: DEBRIS MANAGE	MENT MONITORING	ГЕАМ		
CATEGORY:	Public Works	and Engineering (ESF 3)		KIND:	Tea	m; Personnel	
MINIMUM CAF	ABILITIES:	TYPE I	TYPE II	Type III		TYPE IV	OTHER
Component	Metric						
Services	Annual	General Manager (GM)	Project Manager (PM)				
Services	Contracts; Per Unit; Hourly; Lump Sum	GM responsibility would include overall coordination with all levels of government and other ESFs; Knowledge of the Federal Response Plan, and Federal response and recovery procedures related to debris management; Site monitoring of health and safety requirement in meeting local, State, or Federal standards during any and all parts of the recovery process whether from manmade or natural occurrences; Appropriate standards for the debris processing and disposal to successfully complete the recovery process of an event; Ability to manage and oversee owner's current debris removal operations plan; Highest trained in debris monitoring management and recovery operations; Highest experience level in meeting federal record keeping requirements and processing procedures; Highest knowledge in managing multiple service levels of manmade and or natural disasters; Financial capabilities to manage progressive monitoring processes; Required and	PM responsibility would include overall management of all taskings under the project to include removal, reduction and disposal/salvage operations. Monitors changes in the scope of original assignment, cost estimates, coordinating the procurement process, scheduling, tracking of funds, and reporting all elements of work progress. Knowledge of the Federal Response Plan, and Federal response and recovery procedures related to debris management; Monitors and assures that health and safety procedures and requirements meet local, State, or Federal standards during any and all parts of the recovery process whether from manmade or natural occurrences; Monitors the compliance of debris processing and disposal to successfully complete the recovery process of an event; Ability to manage and oversee owner's current debris removal operations plan; Highest trained in debris project management and recovery operations; Highest experience level in meeting				



		RES	OURCE: DEBRIS MANAGE	MENT MONITORING	TEAM		
CATEGORY:	Public Work	s and Engineering (ESF 3)		KIND:	Tean	n; Personnel	
MINIMUM CAP	ABILITIES:	TYPE I	Type II	Type III		Type IV	OTHER
Component	Metric						
•		necessary liability coverage	federal record keeping				
		for all aspects of operation;	requirements and processing				
		Highest ability to manage	procedures; Highest ability to				
		work programs and	manage work programs and				
		personnel safely, with the	personnel safely, with the				
		highest regard to safety and	highest regard to safety and				
		applicable regulations	applicable regulations				
		protecting employees of the	protecting employees of the				
		company and community;	company and community				
		Highest capabilities to recruit					
		support staffing within					
		acceptable timeframe					
Equipment		Ability to supply, support, and	Ability to support and				
		maintain an inventory of	maintain an inventory of				
		varying equipment	varying equipment				
		specialties in assisting the	specialties in assisting the				
		handling of all aspects of	handling of all aspects of				
		monitoring for health and	monitoring the health and				
		safety of personnel involved	safety of personnel involved				
		with recovery operations	with recovery operations				
Personnel		The highest trained and	Trained and experienced in				
		experienced in the field of debris management	the field of debris management procedures;				
		procedures; Very good	Very good communication				
		communication skills and the	skills; Highest capability to				
		ability to effectively brief high	manage assisting resources;				
		level officials; Highest	General understanding of				
		capability to train and	equpment leasing contracts,				
		manage assisting resources;	various type of equipment,				
		Highest ability to comply with	and unit price contracts.				
		all local, State, Federal	Highest ability to comply with				
		authority, and OSHA	all local, State, Federal				
		regulations to which services	authority, and OSHA				
		are being applied; No use	regulations to which services				
		restriction as it relates to	are being applied; No use				
		assignment; Fully mobilized	restriction as it relates to				
		and fully equipped;	assignment; Fully mobilized				
		Permanently assigned to	and fully equipped; Have an				
		completion of task on	engineering background with				
		rotation, 30/3	a background in site				



	RESOURCE: DEBRIS MANAGEMENT MONITORING TEAM									
CATEGORY:	Public Works	and Engineering (ESF 3)		KIND:	Team; Personnel					
MINIMUM CAP	ABILITIES:	TYPE I	Type II	Type III	TYPE IV	OTHER				
Component	Metric									
			development and proven skills in the field of construction; Permanently assigned to completion of task on rotation, 30/3							
COMMENTS:										



	RESOURCE: DEBRIS MANAGEMENT TEAM								
CATEGORY:	Public Works	and Engineering (ESF 3)		KIND: Tea	am				
MINIMUM CA	PABILITIES:	TYPE I	TYPE II	TYPE III	TYPE IV	OTHER			
Component	Metric								
MINIMUM CA Component Services		Long & Short Term  Management of national and international situations and events for manmade and natural occurrences that would produce debris requiring the resources to successfully complete the recovery process of debris management; Maintains a current and active debris removal operations plan; Highest training in debris management and recovery operations; Highest experience level in meeting federal record keeping requirements and processing procedures; Highest knowledge in managing multiple service levels of manmade and/or natural disasters; Financial capabilities to manage progressive recovery processes; Has required and necessary liability coverage for all aspects of operation; Highest ability to manage work programs and its personnel safely and with the highest regard to safety and applicable regulations protecting employees of the company and community. Highest capabilities to recruit support staffing within acceptable timeframe;	Long & Short Term  Management of national and international situations and events for manmade and natural occurrences that would produce debris requiring the resources to successfully complete the recovery process of debris management; Maintains a current and active debris removal operations plan; Highest training in debris management and recovery operations; Highest experience level in meeting federal record keeping requirements and processing procedures; Highest knowledge in managing multiple service levels of manmade and or natural disasters; Financial capabilities to manage progressive recovery processes; Has required and necessary liability coverage for all aspects of operation; Highest ability to manage work programs and its personnel safely and with the highest regard to safety and applicable regulations protecting employees of the company and community. Highest capabilities to recruit support staffing within acceptable timeframe;	Long & Short Term  Management of national and international situations and events for manmade and natural occurrences that would produce debris requiring the resources to successfully complete the recovery process of debris management; Management of multiple community resources through its management teams; Maintains a current and active debris removal operations plan; Highest training in debris management and recovery operations; Highest experience level in meeting federal record keeping requirements and processing procedures; Highest knowledge in managing multiple service levels of manmade and or natural disasters; Financial capabilities to manage progressive recovery processes; Has required and necessary liability coverage for all aspects of operation; Highest ability to manage work programs and its personnel safely and with the highestregard to safety and applicable regulations protecting employees of the	TYPE IV	OTHER			



			RESOURCE: DEBRIS M	ANAGEMENT TEAM			
CATEGORY:	Public Works	and Engineering (ESF 3)		KIND:	Tear	m	
MINIMUM CA	PABILITIES:	TYPE I	TYPE II	Type III		Type IV	OTHER
Component	Metric						
		48 hours—75%, 72 hours— 100%; Debris removal will commence following the first 24 hours	48 hours—50%, 72 hours—75%, 96 hours? 100%; Debris removal will commence following the first 24-36 hours	support staffing within acceptable timeframe; Mobilization timeframe: 3 hours—25%, 48 hours—50%, 72 hours—75%, 96 hours—100%; Debris removal will commence following the first 24-36 h	Š		
Equipment		Ability to supply, support, and maintain an inventory of varying equipment specialties in handling all aspects of disaster recovery	Ability to supply, support, and maintain an inventory of varying equipment specialties in handling all aspects of disaster recovery	Utilization of all available community support equipment; Ability to sup support, and maintain additional inventory of varying equipment specialties in handling all aspects of disaster recov	oply,		
Personnel  Comments:		The highest trained and experienced in the field of debris management and recovery; Sufficient quantity of personnel to support all required services; Highest capability to train assisting resources; Highest ability to comply with OSHA regulations to which services are being applied; No use restriction as it relates to assignment; Fully mobilized and fully equipped; Permanently assigned to completion of task	The highest trained and experienced in the field of debris management and recovery; Sufficient quantity of personnel to support all required services; Highest capability to train assisting resources; Highest ability to comply with OSHA regulations to which services are being applied; No use restriction as it relates to assignment; Fully mobilized and fully equipped; Permanently assigned to completion of task	The highest trained and experienced in the field of debris management and recovery; Sufficient quant of personnel to support a required services; Interactive available community management resources are levels and managing their performance; Highest capability to train all assist resources; Highest ability comply with OSHA regulations to which servare being applied; No use restriction as it relates to assignment; Fully mobilizand fully equipped; Permanently assigned to completion of task	ntity all cti ng at all ir sting / to vices e		



			RESOURCE: G	ENERATORS			
CATEGORY:	Public Works	and Engineering (ESF 3)		KIND: Equ	ipment		
MINIMUM CA	PABILITIES:	Type I	TYPE II	Type III	TYPE IV	TYPE V	
Component	Metric						
Equipment	KW	XO2000  2000 kW Generator; Sound attenuated; Trailer mounted (semi tractor); Up to 3015  Amps@ 480 Volts, 3 Phase, 60 Hz; Dry weight 89,000 lbs Fuel tank capacity 1250  Gallons; Dimensions 40'  Long x 8' Wide x 13'.5" Tall; Potential application example—Single or multiple units for: Power plants, heavy industrial facility, highrise buildings; Setup time (cables from generator to main power feed estimated at 5+ hours)	Fuel tank capacity 1250 Gallons; Dimensions 40' Long x 8' Wide x 13'.5" Tall; Potential application example—Single or multiple units for: Universities, hospitals, medium to large manufacturing facility; Setup time (cables from	XQ600 600 kW Generator; Sound attenuated; Trailer mounted (semi tractor); Up to 2080 Amps@ 208 Volts, 3 Phase, 60 Hz / up to 902 Amps@ 480 Volts 3 Phase, 60 Hz; Dry weight 37,000 lbs; Fuel tank capacity 660 Gallons; Dimensions 40' Long x 8' Wide x 13'.5" Tall; Potential application examples: Retail stores, HVAC system power, multistory/buildings, light manufacturing, apartment buildings; Setup time (cables from generator to main power feed estimated at 3+	XQ400 400 kW Generator; Sounattenuated; Trailer mount (pull behind); Multi-voltag distribution panel; Up to 1 Amps @ 208 Volts, 3 Ph. 60 Hz/up to 602 Amps@ Volts 3 Phase, 60 Hz; Drweight 16,800 lbs; Fuel tacapacity 470 Gallons; Dimensions 23' Long x 8 Wide x 11' Tall; Potential application example: Large office building, public schools, libraries, and communicate equipment. Setup time (cables from generator to main power	attenuated; Trailer mounted (pull behind); Multi-voltage distribution panel; Up to 433 Amps@ 208 Volts, 3 Phase, 60 Hz / up to 188 Amps@ 480 Volts 3 Phase, 60 Hz; Dry weight 10,610 lbs; Fuel tank capacity 223 Gallons; Dimensions 18'.5" Long x 6'.5" Wide x 9' Tall; Potential application example: Small office building, emergency mobile trailers & operations, restaurants. Setup time (cables from	
	0500 "			hours)	estimated at 2+ hours)	estimated at 1 hour)	
COMMENTS:	2500-gallon external fuel tanks available. Fuel consumption is estimated at 7% of the kW usage (example: fuel consumption on a 100 kW Generator operating at full load is approximately 7 gallons per hour). Technicians are available for hookup and monitoring of equipment. 4/0 Quick connect (Cam-Lock) cable is available for tie-in to power feed, rated at 400 Amps each cable. Fuel supply, and/or fuel vendors available. Power distribution equipment available. Transformers & Load Banks are available.						
		XQ2000	XQ1500	XQ600-4	100	XQ125	



			RESOURCE: GI	ENERATORS		
CATEGORY:	Public Works	and Engineering (ESF 3)		KIND:	Equipment	
MINIMUM CA	PABILITIES:	Type I	TYPE II	Type III	TYPE IV	Type V
Component	Metric					
	GAT Restal	WANT COM 1-800 FRANCA	CAT CAT	The second secon	CAT	
	EAT		Cor Cor			



		RESOURCE: HYDRAULI	C EXCAVATOR-(MEDIUM	MASS EXCAVATION 4 CY	TO 1.75 CY BUCKETS)			
CATEGORY:	Public Works	and Engineering (ESF 3)	•	KIND: Equipment				
MINIMUM CA	PABILITIES:	TYPE I	TYPE II	Type III	TYPE IV	OTHER		
Component	Metric	1						
Equipment	Cubic Yard	345B L Series II Net HP (321); Operating Weight-Long Undercarriage (111180 lb for UHD? 97940lb); Bucket Capacity -HDR (3 yd3); Bucket Capacities General Purpose GP (4 yd3); Max. Digging Depth (23.7 ft); Max. Reach at Ground Level (37.2 ft); Max. Loading Height (22.6 ft); Max. Drawbar Pull (74380 lb); Fuel Tank (190 gal); Overall Width (11.5 ft); Height To Top Of Cab (15.1 ft); Track Length-Std. (17.7 ft)	330C-325C L In respective order of size; Net HP (247-188); Operating Weight-Long Undercarriage (77400 lb-63100 lb); Bucket Capacities-HDR (2.12 yd3- 1.75 yd3); Bucket Capacities General Purpose GP (3 yd3- 2.5 yd3); Max. Drawbar Pull (66094 lb54853 lb); Fuel Tank (163 gal-132 gal); Max. Digging Depth (24.3 ft-23.3 ft); Max. Reach at Ground Level (35.10 ft-34.6 ft); Max. Loading Height (23.7 ft-23.4 ft); Minimum Loading Height (8.11 ft-8 ft); Overall Width (11.3 ft-11.1 ft); Height To Top Of Cab (11 ft-10.11 ft); Track Length-Std. (16.6 ft- 15.3 ft)	322C L-320C L **Note In respective order of size; Net HP (168-138); Operating Weight-Long Undercarriage; (53600 lb-46300 lb); Bucket Capacities-HDR (2.12 yd31 yd3) - General Purpose GP (3 yd3-1.75 yd3); Max. Drawbar Pull (50132 - 44040); Fuel Tank (132 gal- 106 gal); Max. Digging Depth (22 ft-22 ft); Max. Reach at Ground Level (32.10 ft-32.4 ft); Max. Loading Height (22.1ft-21.4 ft); Overall Width (11.6ft-9.6 ft); Height To Top Of Cab (10.9-9.11ft); Track Length-Std. (15.3 ft-13.4ft)	Net HP (168-138); Operating Weight-Long Undercarriage; (50927 lb-50700 lb); Max. Drawbar Pull (44063 - 44040); Fuel Tank (66 galgal); Bucket capacities and other handling performances will be similar to 320 C L			
COMMENTS:					ong Undercarriage. Mobilization mons for difference applications. Uti			
	345B L Ser	ries II UHD 345B	L Series II	330C-325C L	322C-320C L	321B-320C L Utility		



			LIC EXCAVATOR-(LARGE	MASS EXCAVATION-		TS)
CATEGORY:	Public Works	and Engineering (ESF 3)	-	KIND:	Equipment	
MINIMUM CA	PABILITIES:	TYPE I	TYPE II	Type III	TYPE I	V OTHER
Component	Metric	1				
Equipment	Cubic Yard	5130B ME Net HP (800); Operating Weight-Std. (399000 lb); Bucket Capacity -HDR (13.7 yd3); Max. Digging Depth (27.6 ft); Max. Reach at Ground Level (48.9 ft); Max. Dump Height (29.8 ft); Max. Drawbar Pull (196000); Fuel Tank (987 gal); Overall Width (21.7 ft); Height To Top Of Cab (21.4 ft); Track Length- Std. (23.8 ft) Mining Machine	385B-L Net HP (513); Operating Weight-Std. (183940 lb); Operating Weight-Long (L) Undercarriage (189770 lb); Bucket Capacities-HDR (2.5 yd3) - General Purpose GP (5.5 yd3); Max. Drawbar Pull (132810); Fuel Tank (328 gal); Max. Digging Depth (38.7 ft); Max. Reach at Ground Level (56.11 ft); Max. Dump Height (37.11 ft); Minimum Loading Height (11.1 ft); Overall Width (12.7 ft); Height To Top Of Cab (12 ft); Track Length-Std. (19.2 ft)	375–L, 365B—L Series In respective order of siz Net HP (428-404); Opera Weight-Std. (173100 lb- 149000 lb); Operating Weight-Long (L) Undercarriage (179800 lb); Bucket Capacities-HDR (2.5 yd3 yd3) - General Purpose (5 yd3); Max. Drawbar P (126300 -103820); Fuel (261gal211 gal); Max. Digging Depth (37.7ft-31 Max. Reach at Ground L (52ft-46 ft); Max. Dump Height (33.11ft-30 ft); Overall Width (13.6ft11 Height To Top Of Cab (12.2ft-11.11ft); Track Length-Std. (20.10 ft-19.	te; ating lb- 3-1.6 GP Pull Tank lft); Level	
COMMENTS:	To better match trailer.	oucket needs to material condition	ns, contact dealer and or owner.	The reference to "L" mean	s Long Undercarriage. Mo	obilization may require more than one truck-
		do con				
		5130B	385B & L		375 & L	365B L Series II



			RESOURCE: HYDRAU	LIC TRUCK CRANES		
CATEGORY:	Public Works	and Engineering (ESF 3)		KIND:	Equipment; Personne	; Vehicle
MINIMUM CA	PABILITIES:	TYPE I	TYPE II	Type III	Type IV	OTHER
Component	Metric					
Equipment & Personnel	Tons	75-70 Crane type with boom reach of 190-170 feet. With jib add approx. 30 feet. Self-propelled/driven over the road. Operator furnished. Setup time minimal. Counter weight transported by tractortrailer. No other special transport permit required	65-60 Crane type with boom reach of 160-150 feet. With jib add approx. 30 feet. Self-propelled/driven over the road. Operator furnished. Setup time minimal and ready for use. No special transport permit required	40-35 Crane type with boom re of 140 feet. With jib add approx. 30 feet. Self- propelled/driven over the road. Operator furnished Setup time minimal and ready for use. No specia transport permit required	d.	
COMMENTS:	Check with your	ocal/state transportation and law	enforcement organizations to de	termine mobilization requir	ements.	



			RESOURCE: LATTICE	TRUCK CRANES		
CATEGORY:	Public Works	and Engineering (ESF 3)		KIND: Equ	ipment; Personnel; Vehicle	
MINIMUM CA	PABILITIES:	TYPE I	TYPE II	Type III	TYPE IV	OTHER
Component	Metric					
Equipment	Tons	Manitowoc Reach of 430 feet; Requires 7 tractor-trailers to mobilize & demobilize; setup time 6 hours				
Personnel		Operator with one (1) oiler/rigger				
COMMENTS:	Check with your	local/state transportation and law ent	orcement organizations to dete	rmine mobilization requirements	5.	



MINIMUM CAPABILITIES: TYPE		RESOURCE: WHEEL LOADERS (LARGE 41CY TO 8CY)									
Component   Metric   Equipment   Cubic Yards   P94D   Gross Power 1027 kW (1375 hp): Operating Weight 191200 kg (421600 lb); Rated Payload-Standard 34.5 tonnes (38 tons); Bucket Capacity Range 15-31 m3 (19.5-41 yd3); Reach at Max. Lift/Dump-Sid 2263 mm (7.4 ft); Clearance at Max. Lift/Dump-Sid 2569 mm (18.4 ft); Bucket pivot at Max. Lift/St 8157 mm (26.8 ft); Overall Height Bucket Raised-Std 100996 mm (36.1 ft); Overall Length-Std 16809 mm (55.1 ft); Width Over Tires 5499 mm (18 ft); Fuel Tank (1226 gal)   P99 Series II Gross Power 503 kW (675 hp); Operating Weight (77141 kg (170067 lb); Rated Payload-Standard 11.4 tonnes (12.5 tons); Bucket Capacity Range 6.4-9.2 m3 (11-12 yd3); Static Tipping Load, Full Turn 38243 kg (84311 lb); Reach at Max. Lift/Dump-Std 2133 mm (19.7 ft); Overall Length-Std 1799 mm (5.9 ft); Clearance at Max. Lift/Dump-Std 2113 mm (6.9 ft); Clearance at Max. Lift/Dump-Std 3971 mm (13 ft); Overall Length-Std 16809 mm (42.1 ft); Width Over Tires 4071 mm (13.3 ft); Fuel Tank (176.5 gal)   Tank (126 gal)   Ta	CATEGORY:	Public Works	and Engineering (ESF 3)		KIND: Equ	ipment					
Equipment   Cubic Yards   Gross Power 1027 kW (1375 hp); Operating Weight 191200 kg (421600 lb); Rated Payload-Standard 34.5 tonnes (38 tons); Bucket Capacity Range 15-31 m3 (19.5-41 yd3); Reach at Max. Lift/Dump-Std 2263 mm (7.4 ft); Clearance at Max. Lift/Dump-Std 5592 mm (18.4 ft); Bucket pivot at Max. Lift/Sump-Std 8157 mm (26.8 ft); Overall Height Bucket Raised-Std 100996 mm (55.1 ft); Width Over Tires 5499 mm (18 ft); Fuel Tank (1226 gal)   Gross Power 503 kW (675 hp); Operating Weight Gross Power 388 kW (520 hp); Operating Weight 77141 kg (170067 lb); Rated Payload-Standard 15 tonnes (12.5 tons); Bucket Capacity Range 8.4-9.2 m3 (11-12 yd3); Static Tipping Load, Full Turn 38243 kg (84311 lb); Reach at Max. Lift/Dump-Std 2563 mm (7.4 ft); Evel Tank 413 gal)   Gross Power 503 kW (675 hp); Operating Weight 77141 kg (170067 lb); Rated Payload-Standard 15 tonnes (12.5 tons); Bucket Capacity Range 8.4-9.2 m3 (11-12 yd3); Static Tipping Load, Full Turn 38243 kg (84311 lb); Reach at Max. Lift/Dump-Std 279 mm (5.9 ft); Clearance at Max. Lift/Dump-Std 2713 mm (6.9 ft); Clearance at Max. Lift/Dump-Std 2713 mm (6.9 ft); Overall Length-Std 16809 mm (55.1 ft); Width Over Tires 5499 mm (18 ft); Fuel Tank (1226 gal)   Fuel Tank (1226 gal)   Fuel Tank (1236 gal)   Fuel Tank	MINIMUM CA	PABILITIES:	TYPE I	TYPE II	TYPE III	TYPE IV	OTHER				
Gross Power 1027 kW (1375 hp); Operating Weight 191200 kg (421600 lb); Rated Payload-Standard 34.5 tonnes (38 tons); Bucket Capacity Range 15-31 m3 (19.5-41 yd3); Reach at Max. Lift/Dump-Std 2263 mm (7.4 ft); Clearance at Max. Lift/Dump-Std 5592 mm (18.4 ft); Bucket pivot at Max. Lift-Std 8157 mm (26.8 ft); Overall Height Bucket Raised-Std 100996 mm (36.1 ft); Overall Length-Std 16809 mm (55.1 ft); Width Over Tires 5499 mm (18 ft); Fuel Tank (1226 gal)  Gross Power 656 kw (880 hp); Operating Weight 77141 kg (170067 lb); Rated Payload-Standard 15 tonnes (16.5 tons); Bucket Capacity lb; Operating Weight 77141 kg (170067 lb); Rated Payload-Standard 15 tonnes (16.5 tons); Bucket Capacity Range 8.4-9.2 m3 (11-12 yd3); Static Tipping Load, Full Turn 38243 kg (84311 lb); Reach at Max. Lift/Dump-Std 4315 mm (13.7 ft); Overall Height Bucket Raised-Std 100996 mm (36.1 ft); Overall Length-Std 16809 mm (55.1 ft); Width Over Tires 5499 mm (18 ft); Fuel Tank (1226 gal)  Gross Power 503 kW (675 hp); Operating Weight 77141 kg (170067 lb); Rated Payload-Standard 15 tonnes (16.5 tons); Bucket Capacity Range 8.4-9.2 m3 (11-12 yd3); Static Tipping Load, Full Turn 38243 kg (84311 lb); Reach at Max. Lift/Dump-Std 1799 mm (5.9 ft); Clearance at Max. Lift/Dump-Std 2113 mm (6.9 ft); Clearance at Max. Lift/Dump-Std 2113 mm (6.9 ft); Clearance at Max. Lift/Dump-Std 3971 mm (13 ft); Overall Length-Std 3971 mm (13 ft); Fuel Tank (176.5 gal)	Component	Metric									
Comments: Caterpillar products used in typing. To better match bucket needs to material conditions, contact dealer and or owner.	Equipment		Gross Power 1027 kW (1375 hp); Operating Weight 191200 kg (421600 lb); Rated Payload-Standard 34.5 tonnes (38 tons); Bucket Capacity Range 15-31 m3 (19.5-41 yd3); Reach at Max. Lift/Dump-Std 2263 mm (7.4 ft); Clearance at Max. Lift/Dump-Std 5592 mm (18.4 ft); Bucket pivot at Max. Lift-Std 8157 mm (26.8 ft); Overall Height Bucket Raised-Std 100996 mm (36.1 ft); Overall Length-Std 16809 mm (55.1 ft); Width Over Tires 5499 mm (18 ft); Fuel Tank (1226 gal)	Gross Power 656 kw (880 hp); Max. Bucket Capacity 12.3 m3 (16 yd3); Operating Weight 93779 kg (206783 lb); Dump Clearance 4636 mm (19 ft); Fuel Tank 413 gal)	Gross Power 503 kW (675 hp); Operating Weight 77141 kg (170067 lb); Rated Payload-Standard 15 tonnes (16.5 tons); Bucket Capacity Range 8.4-9.2 m3 (11-12 yd3); Static Tipping Load, Full Turn 38243 kg (84311 lb); Reach at Max. Lift/Dump-Std 1799 mm (5.9 ft); Clearance at Max. Lift/Dump-Std 4135 mm (13.7 ft); Overall Length-Std 12839 mm (42.1 ft); Width Over Tires 4071 mm (13.3 ft); Fuel Tank (284 gal)	Gross Power 388 kW (520 hp); Operating Weight 50183 kg (110634 lb); Rated Payload-Standard 11.4 tonnes (12.5 tons); Bucket Capacity Range 6.3-7 m3 (8.2-9.2 yd3); Static Tipping Load, Full Turn 26960 kg (59436 lb); Reach at Max. Lift/Dump-Std 2113 mm (6.9 ft); Clearance at Max. Lift/Dump-Std 3971 mm (13 ft); Overall Length-Std slightly less that 990 Series; Fuel Tank (176.5 gal)					
	COMMENTS:	Caterpillar produc	cts used in typing. To better mate	ch bucket needs to material condi	itions, contact dealer and or owne	er.	D. C.				
994D 992G 990 Series 988G				u.T.							



		Re	SOURCE: WHEEL LOADE	RS (MEDIUM-7CY TO 3 CY		
CATEGORY:	Public Works	and Engineering (ESF 3)			uipment	
MINIMUM CA	PABILITIES:	TYPE I	TYPE II	TYPE III	TYPE IV	OTHER
Component	Metric					
Equipment	Cubic Yards	980G, 972G In respective order; Max. Flywheel Power 238 kW-213 kW (319 hp-285 hp); Operating Weight 30207 kg- 25490 kg (66576 lb-56180 lb); Static Tipping Load 18032 kg (39743 lb); Breakout Force 210 kN (47277 lb); Bucket Capacity Range 3.8- 5.7m (7.55 yd3); Fuel Tank (124-100 gal)	966G Series II  Max. Flywheel Power 194  kW (260 hp); Operating  Weight 22870 kg (50400 lb);  Bucket Capacity Range 3.5- 4.25 m3 (4.5-5.5 yd3); Fuel  Tank (100 gal)	962G Series II, IT62G, 950G Series II Max. Flywheel Power 157- 146 kW (210-196 hp) Operating Weight 18547- 17780 kg (40889-39198 lb); Static Tipping Load 11966- 10619 kg (26380-23411 lb); Breakout Force 154-125 kN (34666-28210 lb); Bucket Capacity Range 2.7- 3.8 m3 (5-3.5 yd3); Fuel Tank (75 gal)	938G, IT38G In respective order; Max. Flywheel Power kW (172 hp) Operating Weight 130 13030 kg (28731-287' Static Tipping Load 92 7621 kg (20373-16800 Breakout Force 109-1 (25096-28020lb); Bucket Capacity Rang 2.5 m3 (3.65-2.9 yd3); Tank (67 gal)	062- 14 lb); 241- 0 lb); 24 kN ge 2.8- ; Fuel
COMMENTS:	Cate pillar product	ats used in typing, to better mater	n bucket needs to material conditi	ons, contact dealer and or owner	Thiodes offer multip	e attachmens.
		980G	972G	9660	j	962G
				10 12 o		
		950G	938G	IT620	G	IT38G



		R	ESOURCE: WHEEL LOADE	RS (SMALL 7CY TO 2CY	7)	
CATEGORY:	Public Works	and Engineering (ESF 3)			quipment	
MINIMUM CA	PABILITIES:	TYPE I	TYPE II	Type III	TYPE IV	OTHER
Component	Metric					
Equipment	Cubic Yards	928G, IT28G In respective order; Max. Flywheel Power 107 kW (144 hp); Operating Weight 11836 kg-12134 kg (26094 lb-26751 lb); Bucket Capacity Range 2- 5.35 m3 (2.5-7 yd3); Fuel Tank (59 gal)	In respective order; Max. Flywheel Power 98 kW (132 hp); Operating Weight 10328 kg-9844 kg (22769 lb-21702 lb); Bucket Capacity Range 1.7-5 m3 (2.2-6.5 yd3); Fuel Tank (59-51 gal)	IT14G, 914G In respective order; Max. Gross Power 73 kW (9 hp); Operating Weight 7906 kg-7243 kg (17393 lb-15935 lb); Breakout Force (17270-14007 lb); Static Tipping Load (10094-11737 lb); Dump Clearance 9.58-8.75 feet; Bucket Capacity Range 1.4 m3 (1.8 yd3); Fuel Tank (59-51 gal)		
COMMENTS:	Caterpillar produc	ets used in typing; to better match	n bucket needs to material condition	ons, contact dealer and or own	ner. IT models offer mu	Iltiple attachments.
		928G	IT28G	92	4G	924Gz
					GIG.	
		IT14G			914	4G



## Search and and Rescue



		Re	SOURCE: COLLAPSE SEA	RCH AND RESCUE TEAMS		
CATEGORY:	Search & Res	scue		KIND: Tea	ım	
MINIMUM CA	PABILITIES:	TYPE I	TYPE II	TYPE III	TYPE IV	OTHER
Component	Metric					
Personnel	Training and Certification	Trained to the HazMat Technician Level (NFPA 472). Comply with NFPA 1006 Technician Level requirements for their area of specialization or organization Operations Level for support personnel as outlined in NFPA 1670.	Trained to the HazMat First Responder Operational Lev el (NFPA 472). Comply with organization Operations Level for support personnel as outlined in NFPA 1670.	Trained to the HazMat First Responder Operational Level (NFPA 472). Comply with organization Operations Level for support personnel as outlined in NFPA 1670	Trained to HazMat First Responder Awareness Level (NFPA 472). Comply with organization Awareness 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 Wall Construction, High Angle Rope Rescue (not including highline systems), Confined Space (no permit required) and Trench and Excavation Rescue	Trained for Light Frame Construction and Low Angle Rope Rescue	Trained for Surface Rescue and Non-Structural Entrapment in Non- Collapsed Structures	
Team	Sustained Operations	Capable of sustained heavy operations for 18-24 hours	Medium operations for 12-24 hours. Typically require relief for sustained 24-hour operations	Light operations for 612 hours. Typically require assistance from additional team for sustained 12-hour operations	Basic operations for 3-6 hours. Typically require assistance for sustained 6-hour operations	
Team	Safe and Effective Response Operation Incidents	Conduct safe and effective search and rescue operations at incidents involving collapse or failure of heavy floor, pre-cast concrete, and steel frame construction	Conduct safe and effective search and rescue operations at structural incidents involving the collapse of failure of heavy wall construction	Conduct safe and effective search and rescue operations at structure collapse incidents involving the collapse or failure of light frame construction	Conduct safe and effective search and rescue operations at incidents involving non-structural entrapments and minimal removal of debris and building contents	
Team	Specialty Search and Rescue Capabilities	Conduct High Angle Rope Rescue (including highline systems), Confined Space Rescue (permit required), and extraction of entrapped victims for Mass Transportation Rescue Confined Space Permit	Conduct High Angle Rope Rescue (not including highline systems), Confined Space Rescue, and Trench and Excavation Rescue	Conduct Low Angle Rope Rescue		



		RE	SOURCE: COLLAPSE SEA	RCH AND RESCUE TEAMS		
CATEGORY:	Search & Res	cue		KIND: Tea	m	
MINIMUM CA	PABILITIES:	TYPE I	TYPE II	Type III	Type IV	OTHER
Component	Metric					
Equipment	Technical Search Resources	Audible and optical search equipment to conduct technical search, shoring assortment, rebar cutters, demolition hammers, rotary hammers, reciprocating saws, hydraulic concrete breakers, hydraulic vehicle rescue system, hammer drill, chain saw, nail gun, cutting torch, assorted hand tools, generator, lights, extensions cords, hoisting slings and shackles, rope equipment (kernmantal and lifeline rope, ascenders/descenders, pulleys, tripod hauling system, carabineers) air blower, fire extinguishers, visual inspection devices, listening devices(seismic and acoustic), hand held radios	Shoring assortment, rebar cutters, demolition hammers, rotary hammers, reciprocating saws, hydraulic concrete breakers, hydraulic vehicle rescue system, hammer drill, chain saw, nail gun, cutting torch, assorted hand tools, generator, lights, extensions cords, ho isting slings and shackles, rope equipment (kernmantal and lifeline rope, ascenders/descenders, pulleys, tripod hauling system, carabineers) air blower, fire extinguishers	Shoring assortment, rebar cutters, demolition hammers, rotary hammers, reciprocating saws, hydraulic concrete breakers, hydraulic vehicle rescue system, hammer drill, chain saw, nail gun, cutting torch, assorted hand tools, generator, lights, extensions cords, hoisting slings and shackles, rope equipment (kernmantal and lifeline rope, ascenders/descenders, pulleys, tripod hauling system, carabineers) air blower, fire extinguishers	Shoring assortment, rebar cutters, reciprocating saws, chain saw, assorted hand tools, generator, lights, extensions cords, air blower, fire extinguishers	
Breathing Apparatus	Materials and Supplies	Breathing apparatus, self- contained (SCBA), respiratory protection, air bags	Air bags	Air bags		
Medical Equipment	Materials and Supplies	Medical aid equipment, backboards, Stokes stretcher	Medical aid equipment, backboards Stokes, stretcher	Medical aid equipment, backboards, Stokes stretcher	Medical aid equipment, backboards, Stokes stretcher	
HazMat Equipment	Materials and Supplies	HazMat monitoring equipment, sampling detection kit, 4-gas meters, rad monitoring, decontamination equipment, 4-gas meter	HazMat monitoring equipment, sampling detection kit, 4-gas meters, rad monitoring, decontamination equipment, 4-gas meter	4-gas meter		
COMMENTS:	A state, local, or p	private technical rescue team that	responds to locate, rescue, and	recover individuals trapped in a f	fallen structure or buried in structu	ıral colla <mark>pse.</mark>



		Rı	ESOURCE: MOUNTAIN SEA	RCH AND RESCUE TEAM		
CATEGORY:	Search & Re	scue (ESF 9)		KIND: Tea	ım	
MINIMUM CA	PABILITIES:	TYPE I	TYPE II	TYPE III	TYPE IV	OTHER
Component	Metric	1				
Team	Personnel	Field team leader; field team members; medical specialist	Field team leader; field team members; medical specialist	Field team leader; field team members; medical specialist	Field team leader; field team members; medical specialist	
Personnel Training	Navigation Training	Same as Type II	Same as Type III	Same as Type IV, plus proficiency in back country navigation including the ability to triangulate a position, ascertain a UTM, utilize GPS, and follow a route to a new location using a topographical map and compass	Navigation (map and compass)	
Personnel Training	Survival Training	Operational and technical proficiency in personal survival in mountainous terrain and snow and ice environments	Operational and technical proficiency in personal survival in mountainous terrain and snow and ice environments	Technical proficiency in personal survival in mountainous terrain and snow and ice environments	Technical proficiency in personal survival in mountainous terrain	
Personnel Training	Technical Training	Same as Type II, plus proficient at estimating the mechanical forces involved in technical rescue systems and estimating factors of safety; proficiency in the use, placement and analysis of mechanical anchors and anchor systems; proficiency in the use of highlines; proficiency in the use of slings, etriers, Prusik hitches and mechanical ascenders; proficiency in the organization and direction of technical litter evacuation	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 in technical litter evacuation and transport; litter descents (on steep, vertical, and overhanging rock, on scree and snow, and traversing); lowering of a subject without a litter; raising a subject or litter; knowledge of procedures involved with helicopter transport	Proficiency in bagging, coiling, throwing and storing static and dynamic ropes; proficiency in tying common knots, and knowledge of their applications and strength efficiencies; proficiency in search techniques including in hasty and line search techniques, directing line searches and probe lines		



		Ri	SOURCE: MOUNTAIN SEA	RCH AND RESCUE TEAM		
CATEGORY:	Search & Res	cue (ESF 9)		KIND: Tea	ım	
MINIMUM CA	PABILITIES:	Type I	Type II	Type III	Type IV	OTHER
Component	Metric					
Personnel Training	Alpine Training	Proficiency in winter camping in any area, including above timberline; proficiency in snow and ice climbing; proficiency in avalanche search and rescue, including recognition of avalanche hazards, avalanche search and rescue organization and leadership, scuff searches, use of SAR dogs; proficiency in high and low-angle, technical snow and ice rescues and evacuations	Ability to recognize avalanche hazards and to perform avalanche search and rescue including probe lines and avalanche. Avalanche awareness training	Understanding of the fundamentals of mountain weather. Avalanche awareness training	Basic understanding of mountain weather. Ability to walk in mountainous terrain; ability to backpack personal equipment plus one rope at least four miles with an elevation gain of at least 2000 feet. Avalanche awareness training	
Personnel	Basic Training	Same as Type II, plus technical proficiency in one-person rescue and self rescue techniques; proficiency in mantracking; ability to integrate into and operate using ICS; ability to plan, organize and direct search and rescue missions	Same as Type III, plus ability to operate using ICS	Same as Type IV	Proficiency in search techniques; awareness of mantracking and maintaining site integrity; understanding of the ICS	
Medical Specialist	Training	National standard EMT curriculum; ACLS, BTLS	National standard EMT-B curriculum or advanced wilderness first responder; BTLS	Same as Type IV	National standard first responder or wilderness first responder curriculum; BTLS	
Team	Sustained Operations	60 hours	48 hours	24 hours	12 hours	
Team	Rescue Capabilities	Same as Type II, plus: highly trained rescue personnel with multipitch, high-angle experience on vertical rock, ice, and steep snow	Same as Type III, plus single-pitch, high-angle rock rescue	Backcountry, low-angle scree evacuation	Trained rescue personnel with experience in non-technical backcountry evacuation/carryouts	



		Rı	ESOURCE: MOUNTAIN SEA	ARCH AND RESCUE TEAM		
CATEGORY:	Search & Res	scue (ESF 9)		KIND: Tea	ım	
MINIMUM CA	PABILITIES:	Type I	TYPE II	TYPE III	Type IV	OTHER
Component	Metric					
Team	Search Capabilities	Capable of searching during the day or night; capable of searching any terrain, including severe rock. Competent IC and section chief	Capable of searching steep, timbered terrain, excluding severe rock, day or night. Competent search team leaders/technicians	Self-sustaining for 48 hours in all weather/terrain, except severe winter/rock	Capable of searching moderate terrain. May be outdoorsmen with basic training	
Team Rescue Equipment	Supplies and Materials	Same as Type II, plus 8-10 ropes of various lengths (200-400 ft)	Same as Type III, plus 6-8 ropes of various lengths and a full complement of rescue/climbing gear	Same as Type IV, plus 4-6 ropes of various lengths	Harnesses, helmets, basic hardware, rope & radio communications on a common frequency	
Search Equipment	Supplies and Materials	Equipped to be self- sustaining for 60 hours in all environments; radio communications on common frequency	Equipped to be self- sustaining for 48 hours in all environments; radio communications on common frequency	Equipped to be self- sustaining for 24 hours in all weather/terrain, except severe winter/rock	Equipped to be self- sustaining for 12 hours in all weather/terrain, except severe winter/rock	
Personal Equipment	Supplies and Materials	Same as Type II, plus food for 60 hours	Same as Type III, plus water container of two- liter capacity and/or quantity of water appropriate for the conditions; food for 48 hours; second light source	Same as Type IV	Appropriate clothes and footgear for both fair and foul weather; water container of 1-liter capacity and/or quantity of water appropriate for the conditions; day pack; five large, heavy-duty plastic trash bags; food for 24 hours; headlamp or flashlight; lighter, matches and candle, or equivalent waterproof fire source; knife; compass; personal First Aid Kit; waterproof pen/pencil and paper; whistle; and two pairs plastic or vinyl examination gloves	
Medical Equipment	Supplies and Materials	As appropriate for level of training, as applied in wilderness environment and meeting local protocols and requirements	As appropriate for level of training, as applied in wilderness environment and meeting local protocols and requirements	As appropriate for level of training, as applied in wilderness environment and meeting local protocols and requirements	As appropriate for level of training, as applied in wilderness environment and meeting local protoc ols and requirements	



	RESOURCE: MOUNTAIN SEARCH AND RESCUE TEAM									
CATEGORY:	Search & Res	cue (ESF 9)		KIND: Tea	m					
MINIMUM CAPABILITIES:		TYPE I	Type II	Type III	TYPE IV	Other				
Component	Metric									
COMMENTS:	Search for and rescue people in trouble either above the timberline or in high-angle areas below the timberline, which can include glacier, crevasse, backcountry and alpine search and rescue, and educate the population in safe activities so they will be able to avoid the dangers that result in the need for rescue.									
	Definitions									
	GPS Global Positioning System									
	Navigation The practice of charting a course for a group of people (team) using basic tools such as a map and compass.									



			RESOURCE: US&R Inci	dent Support Team		
CATEGORY:	Search & Re	escue (ESF 9)		KIND: Tea	am	
MINIMUM CA	PABILITIES:	TYPE I	TYPE II	TYPE III	TYPE IV	OTHER
Component	Metric					
Personnel	Number of People per Response	30-60-person response depending on the needs of the incident	22-person response			
Personnel	Training	Qualified National US&R Response System	Qualified National US&R Response System			
Personnel	Areas of Specializa- tion	Provide staffing to fill all necessary ICS functions to the assigned incident: provide technical assistance in the acquisition and utilization of ESF 9 resources through advice, incident command assistance, incident response planning, management and coordination of US&R task forces, and obtaining ESF 9 logistical support	Provide staffing for 14 ICS functions activated to provide technical assistance in the acquisition and utilization of ESF 9 resources through advice, incident command assistance, incident response planning, management and coordination of US&R task forces, and obtaining ESF 9 logistical support			
Personnel	Sustained Operations	24-hour operations for a minimum of 14 days before requiring personnel rotations and can provide administrative and living support if necessary	Type 2 is an advanced element of Type 1; will require supplemental IST staff to perform 24-hour operations rotations			
Personnel	Organization	Fully staffed US&R multi- functional management team; organized based on ICS guidelines, Command and Command Staff and Operations, Planning, Logistics, Finance and Administration	Organized based on ICS guidelines, Command and Command Staff and Operations, Planning, Logistics, Finance and Administration			
Equipment		Living support as necessary	Living support as necessary			
Equipment	Computer Supplies	Ink cartridge, CD, computer, disk, DVD, modem, mouse, mouse pad, printer, scanner	Ink cartridge, CD, computer, disk, DVD, modem, mouse, mouse pad, printer, scanner			



			RESOURCE: US&R Incid	dent Support Tear	n		
CATEGORY:	Search & Re	escue (ESF 9)		KIND:	Tea	m	
MINIMUM CA	PABILITIES:	TYPE I	TYPE II	TYPE III		TYPE IV	OTHER
Component	Metric						
Equipment	Communi- cation Equipment	Antennas, celwave, fax,. GPS, microphone, pager, phone, radio, repeater, receiver, recorder, repeater, satellite, Satellite phone, speaker phone	Antennas, celwave, fax, GPS, microphone, pager, phone, radio, repeater, receiver, recorder, repeater, satellite, Satellite phone, speaker phone				
Equipment	Tools	Blade, can opener, chisel, drill, drill bit, fire extinguisher, flashlight, guywire, hammer, handtruck, knife, level, lightstick, measuring tape, nails, paint, pump, rope, shovel, screwdriver smoke detector, saw, wrench, toolkit, tool bag, wire brad, wrecking bar, wrench	Blade, can opener, chisel, drill, drill bit, fire extinguisher, flashlight, guywire, hammer, handtruck, knife, level, lightstick, measuring tape, nails, paint, pump, rope, shovel, screwdriver smoke detector, saw, wrench, toolkit, tool bag, wire brad, wrecking bar, wrench				
Equipment	Power Supply	Battery, bulb, charger, electric cord, extension cord, generator, grounding, power adapter, power cord, power supply, socket, surge protector, transformer, watt meter	Battery, bulb, charger, electric cord, extension cord, generator, grounding, power adapter, power cord, power supply, socket, surge protector, transformer, watt meter				
Equipment	Administrative Supplies	Accounting book, acetate, binder clip, chalk, chalk line bracket, calculator, clipboard, envelope, etcher, FEMA logo, filing box, flip chart, folder, form, glue, handbook, hole punch, laminating sheets, letter tray, marker, marker-board, measuring tape, memo pad, name tag, note pad, paint, paper, paper clip, pen, pencil, push pins, rubber band, ruler, scissor, sheet protector, shrink wrap, sign, stamp, staple, stapler, staple remover, stationery, stenopad, tape, tape	Accounting book, acetate, binder clip. chalk, chalk line bracket, calculator, clipboard, envelope, etcher, FEMA logo, filing box, flip chart, folder, form, glue, handbook, hole punch, laminating sheets, letter tray, marker, marker-board, measuring tape, memo pad, name tag, note pad, paint, paper, paper clip, pen, pencil, push pins, rubber band, ruler, scissor, sheet protecbr, shrink wrap, sign, stamp, staple, stapler, staple remover, stationery, steno pad, tape, tape				



			RESOURCE: US&R Incider	nt Support Team		
CATEGORY:	Search & R	escue (ESF 9)		KIND: Tea	am	
MINIMUM CA	PABILITIES:	TYPE I	TYPE II	Type III	TYPE IV	OTHER
Component	Metric					
		dispenser, three hole punch, white out, writing pad	dispenser, three hole punch, white out, writing pad			
Equipment	Logistics Equipment	Can opener, cleaner, clock, cup, garbage bag, road atlas, tissue, toilet paper, zip-lock bags, A/C unit, blanket, chair, commode, cot, fan, MRE, pillow, sheet, sleeping bag, sleeping pad, table, tarp, tent, towel, water	Can opener, cleaner, clock, cup, garbage bag, road atlas, tissue, toilet paper, zip-lock bags, A/C unit, blanket, chair, commode, cot, fan, MRE, pillow, sheet, sleeping bag, sleeping pad, table, tarp, tent, towel, water			
COMMENTS:			ocal officials with technical assistance R task forces, and obtaining ESF #9			



			RESOURCE: US&F	R TASK FORCES			
CATEGORY:	Search & Res	scue (ESF 9)		KIND:	Tear	m	
MINIMUM CA	PABILITIES:	TYPE I	TYPE II	TYPE III		Type IV	OTHER
Component	Metric						
Personnel	Number of People per Response	70-person response	28-person response				
Personnel	Training	NFPA 1670 Technician Level in area of specialty. Support personnel at Operations Level.	NFPA 1670 Technician Level in area of specialty. Support personnel at Operations Level.				
Personnel	Areas of Specializa- tion	High angle rope rescue (including highline systems); confined space rescue (permit required); Advanced Life Support (ALS) intervention; communications; WMD/HM operations; defensive water rescue	Light frame construction and basic rope rescue operations; ALS intervention; HazMat conditions; communications; and trench and excavation rescue				
Personnel	Sustained Operations	24-hour S&R operations. Self-sufficient for first 72 hours.	12-hour S&R operations. Self-sufficient for first 72 hours.				
Personnel	Organization	Multidisciplinary organization of Command, Search, Rescue, Medical, HazMat, Logistics, and Planning.	Multidisciplinary organization of Command, Search, Rescue, Medical, HazMat, Logistics, and Planning.				
Equipment	Sustained Operations	Potential mission duration of up to 10 days.	Potential mission duration of up to 10 days.				
Equipment	Rescue Equipment	Pneumatic Powered Tools, Electric Powered Tools, Hydraulic Powered Tools, Hand Tools, Electrical, Heavy Rigging, Technical Rope, Safety	Pneumatic Powered Tools, Electric Powered Tools, Hydraulic Powered Tools, Hand Tools, Electrical, Heavy Rigging, Technical Rope, Safety				
Equipment	Medical Equipment	Antibiotics/ Antifungals, Patient Comfort Medication, Pain Medications, Sedatives/Anesthetics/Paraly tics, Steroids, IV Fluids/Volume, Immunizations/Immune Globulin, Canine Treatment,	Antibiotics/Antifungals, Patient Comfort Medication, Pain Medications, Sedatives/ Anesthetics/Paralytics, Steroids, IV Fluids/Volume, Immunizations/Immune Globulin, Canine Treatment, Basic Airway, Intubation, Eye				



			RESOURCE: US&R	TASK FORCES		
CATEGORY:	Search & Re	scue (ESF 9)		KIND:	Team	
MINIMUM CA	PABILITIES:	TYPE I	TYPE II	Type III	Type IV	OTHER
Component	Metric					
		Basic Airway, Intubation, Eye Care Supplies, IV Access/Administration, Patient Assessment Care, Patient Immobilization/Extrication, Patient/PPE, Skeletal Care, Wound Care, Patient Monitoring	Care Supplies, IV Access/ Administration, Patient Assessment Care, Patient Immobilization/ Extrication, Patient/ PPE, Skeletal Care, Wound Care, Patient Monitoring			
Equipment	Technical Equipment	Structures Specialist Equip., Technical Information Specialist Equip., HazMat Specialist Equip., Technical Search Specialist Equip., Canine Search Specialist Equip.	Structures Specialist Equip., Technical Information Specialist Equip, HazMat Specialist Equip, Technical Search Specialist Equip., Canine Search Specialist Equip.			
Equipment	Communi- cations Equipment	Portable Radios, Charging Units, Telecommunications, Repeaters, Accessories, Batteries, Power Sources, Small Tools, Computer	Portable Radios, Charging Units, Telecommunications, Repeaters, Accessories, Batteries, Power Sources, Small Tools, Computer			
Equipment	Logistics Equipment	Water/Fluids, Food, Shelter, Sanitation, Safety, Administrative Support, Personal Bag, Task Force Support, Cache Transportation/ Support, Base of Operations, Equipment Maintenance	Water/Fluids, Food, Shelter, Sanitation, Safety, Administrative Support, Personal Bag, Task Force Support, Cache Transportation/ Support, Base of Operations, Equipment Maintenance			
COMMENTS:	equipped by FEI		d rescue in collapsed buildings, pro			ntinental United States trained and s and control gas, electrical services



RESOURCE: SWIFTWATER/FLOOD SEARCH AND DIVE RESCUE TEAM									
CATEGORY:	Search & Re		KIND: Team						
MINIMUM CA	PABILITIES:	TYPE I	Type II	Type III	TYPE IV	OTHER			
Component	Metric								
Personnel	# of people	14-member team	6-member team	4-member team	3-member team				
Technical	Minimum	2	1	1					
Animal	number								
Rescue									
Personnel									
ALS Certified	Minimum	2							
Personnel	number								
Helicopter/	Minimum	4	2						
Aquatic	number								
Rescue									
Operations									
Personnel		4							
Powered	Minimum	4	2						
Boat	number								
Operators		4		2					
SCUBA	Minimum	4	2	2					
Trained	number								
Support Personnel									
with									
Equipment									
EMTs	Number and	EMT-B (14), EMT-P (2)	EMT-B (1)	EMT-B (1)	EMT-B (1)				
LIVITS	level	2 5 (1.1)/ 2 (2)	2 5 (.)	2 5 (.)	2 5 (1)				
Team	Composition	2 managers, 2 squad leaders, 10 personnel	1 squad leader, 5 personnel	1 squad leader, 3 personnel	1 squad leader, 2 personnel				
Team	Sustained operations	24-hour operations	24-hour operations	18-hour operations	18-hour operations				
Team	Capabilities	Manage search operations, power vessel operations, helicopter rescue operational, HazMat, animal rescue, ALS, communications, logistics	Manage search operations, power vessel operations, helicopter rescue operational, HazMat, animal rescue, BLS	Assist in search operations, nonpowered water craft, HazMat, animal rescue, BLS	Low-risk operations, land- based, HazMat, BLS				
Team	Specialty S&R Capabilities	In-water contact rescues, dive rescue, technical rope systems	In-water contact rescues, dive rescue, technical rope systems	In-water contact rescue and dive rescue					



RESOURCE: SWIFTWATER/FLOOD SEARCH AND DIVE RESCUE TEAM										
CATEGORY:	Search & Res	scue	KIND: Team							
MINIMUM CA	PABILITIES:	Type I	TYPE II	Type III	Type IV	OTHER				
Component	Metric									
Team	Training	Class 3 paddle skills, contact and self-rescue skills, HazMat, Helicopter operations Awareness, ICS, Swiftwater rescue technician, technical rope rescue, divers to have 80 hours of formal public safety diver training.	Class 3 paddle skills, contact and self-rescue skills, HazMat, Helicopter operations Awareness, ICS, Swiftwater rescue technician, technical rope rescue, divers to have 60 hours of formal public safety diver training.	Class 3 paddle skills, contact and self-rescue skills, HazMat, ICS, Swiftwater rescue technician, divers to have 60 hours of formal public safety diver training.	Class 3 paddle skills, contact and self-rescue skills, HazMat, ICS, Swiftwater rescue technician					
Team	Certifications	ALS, Advanced First Aid & CPR	BLS, Advanced First Aid & CPR	BLS, Advanced First Aid & CPR	BLS, Advanced First Aid & CPR					
Equipment	Transportation Resources	Equipment trailer, personnel support vehicle								
Communi- cations Equipment	Materials and Supplies	Aircraft radio, batteries, headset, portable radios, cell phone	Aircraft radio, batteries, headset, portable radios, cell phone	Batteries, headset, portable radios, cell phone	Batteries, portable radios, cell phone					
Medical Equipment	Materials and Supplies	ALS medical kit, blankets, spineboard, litter	BLS medical kit, blankets, spineboard, litter	BLS medical kit, blankets, litter	BLS medical kit, blankets					
Personal Equipment	Materials and Supplies	Flares, markers, bags, life vests, fins, flashlight, gloves, HEED, lamps, helmets, light sticks, PFD Type V, knives, shoes, whistles	Flares, markers, bags, fins, life vests, flashlight, gloves, HEED, lamps, helmets, light sticks, PFD Type V, knives, shoes, whistles	Flares, markers, bags, fins, flashlight, gloves, lamps, helmets, light sticks, PFD Type III/IV, knives, shoes, whistles	Flares, markers, bags, flashlight, gloves, helmets, light sticks, PFD Type III/IV, knives, shoes, whistles					
SCUBA Equipment	Materials and Supplies	SCUBA cylinder, buoyancy compensator, weight belt, 2 cutting tools, chest harness & snap shackle, full face mask, U/W communication, dry suit, search line, spare SCUBA cylinder	SCUBA cylinder, buoyancy compensator, weight belt, 2 cutting tools, chest harness & snap shackle, full face mask, U/W communication, dry suit, search line, spare SCUBA cylinder	SCUBA cylinder, buoyancy compensator, weight belt, 2 cutting tools, chest harness & snap shackle, full face mask, U/W communication, dry suit, search line, spare SCUBA cylinder						
Rescue Boat and Equipment	Type and number	Fueled (2)	Fueled (1)	Non-powered 4 person (1)						
COMMENTS:	Conduct search and rescue operations in all water environments including swiftwater and flood conditions. Water rescue teams come with all team equipment required to safely an effectively conduct operations.									