



INCIDENT COMMAND SYSTEM

Technical Search and Rescue Incident Operational System Description FIRESCOPE ICS 162

This document contains information relative to the Incident Command System (ICS) component of the National Interagency Incident Management System (NIIMS). This is the same Incident Command System developed by FIREScope. Knowledge of the Incident Command System is required to understand the terminology and variety of ways in which the management of resources can be applied.

Additional information and documentation can be obtained from the following sources:

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DEDICATION



The FIREScope organization is made up of dedicated individuals whose focus is on continually improving the incident command system, which is applied daily toward mitigating the ever-challenging incidents California's fire service encounters. As members of the technical search and rescue sub-committee, our aim is supplying solutions specific to our discipline that support the goals mentioned above. We genuinely love what we do and enjoy working together in service to our communities. In the process, we have had the privilege to work with many great people who are true "subject-matter experts". The fire service lost a brother, friend, leader, mentor, and team member when Los Angeles Fire Department Captain II John Ruedy passed away on May 22, 2021. John was a true professional. He was detail oriented and laser focused on supplying the best solutions in a practical fashion for all who would consult FIREScope products for guidance.

We dedicate this document to his memory. John worked hard with this group for many years. He patiently helped many of us gain our footing as newly added members to the group. He worked hard on this and earlier revisions of the Technical Search and Rescue Operating System Description. He worked hard in his final assignment, which directly supported US&R operations for the City of Los Angeles. Our goal is to emulate him as best we can as we strive to continue his legacy of excellence in public service. He is and will continue to be greatly missed.

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Introduction

The FIREScope ICS 162 Technical Search and Rescue Incident Operational System Description is designed to provide supervision and control of essential functions at incidents where technical rescue expertise and equipment are needed for safe and effective operations. This standard shall identify and establish levels of capability for conducting safe operations at technical search and rescue incidents. This standard is developed to define levels of preparation and operational capability that should be achieved by any agency in California that has responsibility for technical search and rescue operations. These defined levels provide a system used to manage an incident efficiently and effectively, to maximize personnel safety, and conclude in successful rescue of victims.

California developed and has adopted the Incident Command System (ICS) as its incident management system. The National Incident Management System (NIMS) was developed from and based on the Incident Command System. Initial technical search and rescue operations are directed by the first arriving public safety officer who assumes command and serves as the initial Incident Commander. Subsequent changes in the incident command structure will be based on the resource and management needs of the incident following established ICS procedures and requirements.

For the context of this document, technical search and rescue is identified as tasks, tactical decisions and strategic efforts involved in all aspects of saving life and/or property that employ the use of specialized tools and skills that would typically exceed those normally reserved for emergency medical services or firefighting. Such specialized tools and equipment are identified as meeting or exceeding those skills found in the minimum requirements of the State of California, Firefighter I and Firefighter II or equivalent.

Emergency incidents requiring the use of technical search and rescue knowledge, skills, and abilities involve: technical search, large area search and determining the location of potential victims, the initial medical stabilization and extrication of victims trapped in structural collapse, mine rescue, tower and/or crane rescue, collapsed trenches, floods, mud and debris flows, and mass transportation incidents. System resources are part of the California Fire Service and Rescue Emergency Mutual Aid System and follow the California Fire Service and Rescue Emergency Mutual Aid Plan. The state follows the “closest resources concept”, which endeavors to use the closest available appropriate resource to mitigate the incident. Resources may be deployed to incidents for “initial-attack”, “immediate need”, “planned need”, or may also be “pre-positioned” as determined by Cal OES. California’s technical search and rescue system provides a scalable, yet rigorous, standard for local, tribal, regional, state, national, non-governmental, and private sector resources. It has been collaboratively developed with the assistance of stakeholders and subject matter experts from all levels of public safety & government.

The ICS 162 incorporates revisions recommended to the FIREScope Task Force and Operations Team by the Technical Search and Rescue Specialist Group, based on public safety agency representative comment, regional and operational area agency feedback, and proposals pursuant to ANSI Standards, Federal Emergency Management Agency, California State Fire Training, California Office of Emergency Services, as well as end user input.

Chapter 1: Technical Search and Rescue Resource Administration

Purpose

This chapter establishes the minimum acceptable performance for the management and administration for operational readiness required of a technical search and rescue resource for any agency choosing to participate and support the California US&R System.

Application

This document applies to any organization having a technical rescue capability seeking alignment with California US&R Response System requirements and those units and/or task forces seeking enhancements through the application of a recognized assessment standard for certification and validation.

Training Plan

A sponsoring agency should have an ongoing training plan to include initial and continuing education covering each of the functional areas of NFPA 1670 and NFPA 1006, as well as any required AHJ, State Fire Marshal, or CICCIS certification training for new and incumbent members, succession training for supervisory and managerial levels, and the maintenance of expiring certifications. The training plan should include annual mobilization and full-scale exercises.

Program Management

The Sponsoring Agency and/or Authority Having Jurisdiction (SA/AHJ) should have documented management processes delivered through enabling authorities that establishes and provides for the readiness and response of the technical search and rescue resource(s).

The enabling authorities of the SA and/or AHJ when organized with multiple agencies and/or jurisdictions must designate the primary agency, department, organization, or office empowered with the primary authority to manage the operations, maintenance and sustainment of the technical search and rescue resource(s).

The SA and/or AHJ should have personnel assigned for the management and administration of the technical search and rescue resource(s) that conducts supervisory, administrative, training, and logistical duties. The SA and/or AHJ shall determine personnel resources necessary for management and administrative duties outlined above.

Technical search and rescue resource(s) shall have a process in accordance with the SA and/or AHJ policies for verifying participating members meet the necessary license, certification, or other professional qualification requirements of their assigned position at time of deployment. The unit and/or task force shall ensure that the documentation for certifications and licenses is on file to verify currency.

The unit and/or task force should maintain a roster of deployable personnel in each functional position in accordance with the appropriate position descriptions.

Technical search and rescue resource(s) should provide the unit and/or task force policies and procedures and include information on or reference to the following items:

1. Member recruitment, appointment, assignment, and separation policies
2. Reimbursement policies including time and payroll reporting for intra and interstate deployments.
3. Travel policies and procedures.
4. Position descriptions for program manager and staff.
5. Organization charts.
6. Issuance and turn-in, of personal clothing/protective equipment procedures.
7. Worker's compensation procedures.
8. Ethics' policies/code of conduct.
9. Administrative files to include SA and/or AHJ reports, budgets, grant applications, enabling authority documents (Directives and Memorandums), personnel files, MOA/MOU.
10. Audit/inspection policies and procedures.
11. Public Relations Activities procedures.
12. Family support procedures during deployments.
13. Return to Readiness procedures
14. Post mission medical screening processes and worker compensation claims.
15. After Action Report/Corrective Action Plan established by the enabling authority.

Technical search and rescue resource(s) should provide information on or reference to the following items:

1. Describe the composition, capabilities, and limitations of the technical rescue resource.
2. Describe the process through which the Resource will be alerted, activated, and deployed.
3. Delineate organizational responsibilities and roles.
4. Describe the relationship between the US&R Resource and Federal, State, and local resources and other supporting organizations.
5. Provide procedures and guidelines for transporting multiple entities as needed and task forces.
6. Describe the purpose of the mobilization center, staging areas, and activities related a resource or task force's occupation of these facilities; and

7. Identify the procedures for on-site operations, task force reassignment, and demobilization.

Incident Management

Technical search and rescue resource(s) participating in the California US&R System shall operate under the Incident Command System (ICS). Incident management personnel shall be proficient in the National Incident Management System (NIMS), recognizing that significant technical rescue incidents and disasters, both natural and man-made, often require requesting national and international resources. Incident management personnel shall have an operational knowledge of the [California Mutual Aid System \(which is based on the California Emergency Services Act\)](#), and its application to the California US&R system.

Technical search and rescue resource(s) shall have procedures for implementation of the ICS elements specified in this standard.

A certificate of completion for each required course in accordance with current position descriptions must be on file. *For skill sets not covered by certification under established state or federal course curriculums, a member's training record must reflect satisfactory knowledge of such skill sets for the positions they hold.*

Technical search and rescue resource(s) shall have procedures for implementation and operation of the ICS to include enabling authorities for those specific to inter-agency and intra-agency coordination, integration into existing on-scene command structures, coordination with other higher, lateral, and subordinate coordination and command structures, and interoperable communications.

Mobilization Plan

Mobilization plans should identify and assign specific actions for activating a technical search and rescue resource(s) for deployment. The plan shall include the following items:

1. 24-hour points of contact.
2. Team or unit notification procedures for advisories, alerts, and activations.
3. Call-out procedures and methodologies.
4. When appropriate, canine health and authorization procedures.
5. Safety and security procedures while enroute.
6. PPE Issuance/Check-in procedure, as appropriate.
7. As needed, load plans for ground and air deployment.
8. As appropriate, a schedule to be at Point of Departure within assigned timeframes.
9. Convoy plan with appropriate vehicles.
10. Deployment data for cache movement vehicles, command vehicles, and equipment.

11. Set-up procedures for a Base of Operations (BoO), as appropriate.

Technical search and rescue resource(s) must have developed plans to initiate, receive, and/or relay notifications to alert key decision makers and emergency personnel. This capacity should be designed for the requirements of the jurisdiction's potential operating environments and should include redundancy to provide alternative means of notification in case of failure in primary system(s).

Primary and alternate notification systems should be regularly tested on an established schedule under operational conditions.

Technical search and rescue resource(s) should develop and maintain written procedures to ensure personnel familiarity with and the effective operation capabilities and utilization of the notification systems and equipment. Procedures should address requirements of the incident's operating environment(s), clearly delineate any decision-making processes or triggering events, and are reviewed and updated regularly.

Training and Exercises

Training plans should describe training and scheduled events to include the following:

1. A calendar of all significant national, regional, state, tribal, and local activities.
2. Periodic training sessions and drills including topics applicable to position, functions, dates/times, duration, frequency; and
3. Exercises to include equipment deployment.

Technical search and rescue resource(s) shall ensure personnel are trained in accordance with established technical search and rescue position descriptions.

Technical search and rescue resource(s) shall have a policy for the security of personnel records and maintain a centrally located and secure filing system for general and position specific functional training/certification records (completion certificates) for all rostered members.

Technical search and rescue resource(s) should conduct and document techniques to maintain readiness including, but not limited to deployment exercises, mobilization exercises, and training sessions/drills.

A process for after action reporting should be established to submit reports within 90 days of completion of the exercise and/or training activity to all participating members.

The process should track lessons learned and prioritize resolutions of deficiencies within exercise and training events.

Technical search and rescue resource(s) equipment management should include a documented process for the regular testing, maintenance, repair, and replacement of equipment on an established schedule. Technical search and rescue resource(s) equipment management includes a documented process for the retention of logs and records established.

Technical search and rescue resource(s) communications systems and equipment must meet the requirements of an all-hazards environment. Communication systems and equipment are interoperable among internal and external higher, lateral, and subordinate levels and sufficiently robust to support all components of required operations and include redundancy to provide alternative means of communications in case of failure in primary system(s) and are maintained at a state of readiness for response.

Technical search and rescue resource(s) shall ensure that the communications capability for a specific resource type is maintained in a state of readiness for response. Service agreements, as required, should be in place for immediate use of equipment upon activation.

Technical search and rescue resource(s) shall have assigned transportation resources capable of deploying all available personnel caches, and assets during both routine and emergency situations.

Chapter 2: General Personnel Requirements

Single Resource & Task Force

Capabilities

Technical Search and Rescue Personnel

1. Must be able to meet the physical requirements of the sponsoring agency with or without accommodations.
2. Must possess a fundamental knowledge of technical search and rescue operations.
3. Must be available on short notice to mobilize and/or respond to a request and be self-sufficient for at least 24 hours for a response assignment of up to 14 days in austere environments.
4. Must be capable of improvising and functioning for long hours under adverse conditions.
5. Complete initial blood-borne pathogen training in accordance with OSHA 29 CFR 1910.1030/CCR Title 8 Section 5193.
6. Must maintain current inoculations as set by the Sponsoring Agency, Authority Having Jurisdiction (SA/AHJ).
7. Must be able to function safely at heights and on or around rubble.
8. Complete critical incident stress awareness training and must be aware of the signs, symptoms, and corrective measures of critical incident stress syndrome.
9. Must understand and adhere to safe working practices and procedures as required in the urban disaster environment.
10. Must have a working knowledge of California's Fire and Rescue Mutual-Aid System, the California US&R system with its organizational structure, operating procedures, safety practices, and terminology, knowledge of all technical rescue equipment of their assigned unit, and relevant communications protocols.
11. Must have successfully completed the First Responder Operational Level for Hazardous Materials in accordance with OSHA Standard 29 CFR 1910/CCR Title 8 Section 5192.
12. Must be currently certified in Cardiopulmonary Resuscitation - Basic Life Support.
13. Must have a working knowledge of the Incident Command System including successful completion of the ICS-100, ICS-200 and the on-line courses IS-700 and IS-800.
14. Successful completion of Respiratory Protection training and fit test per 29 CFR 1910.134 (k)/CCR Title 8 Section 5144(F)(e).
15. Complete refresher training as required for respiratory protection training per OSHA 29 CFR 1910.134 (k)/CCR Title 8 Section 5144(k).
16. Successful completion of appropriate level training per NFPA 1670 and 1006.

17. Complete NFPA 1670 awareness level training for the following:
 - a. Confined space rescue operations
 - b. Water rescue operations
 - c. Structural collapse operations
18. Successful completion of a GPS awareness level training as per MEL.
19. The authority having jurisdiction shall assure that the individual meets or exceeds the required knowledge, skills, and abilities (KSA's) outlined in this document.

US&R-Technical Rescue Typing Capability Requirements

California resources are typed by their operational capabilities.

US&R Company Type-4 (Basic):

Operational Level represents the minimum capability to conduct safe and effective search and rescue operations at incidents involving non-structural entrapment in non-collapsed structures. Organizations typed and operating at the US&R Type-4 level shall meet the awareness level for structural collapse incidents.

Personnel shall be trained in hazard recognition, equipment use, and techniques required to operate safely and effectively at incidents involving non-structural entrapment. Personnel at this level shall be competent at surface rescue that involves minimal removal of debris and building contents to extricate easily accessible victims from damaged, but non-collapsed structures.

Training at the basic level should at a minimum include the following:

1. Size-up of existing and potential conditions and the identification of the resources necessary to conduct safe and effective urban search and rescue operations.
2. Process for implementing the Incident Command System (ICS).
3. Procedures for the acquisition, coordination, and utilization of resources.
4. Procedures for implementing site control and scene management.
5. Identification, utilization, and proper care of personal protective equipment required for operations at structural collapse or failure incidents.
6. Identification of four types of collapse patterns and potential victim locations.
7. Recognition of the potential for secondary collapse.
8. Recognition of the general hazards associated with a structure collapse or failure situation and the actions necessary for the safe mitigation of those hazards.
9. Procedures for implementing the structure/hazard marking system.
10. Procedures for conducting searches at non-collapsed structures using appropriate methods for the type of building configuration.
11. Procedures for implementing the search marking system.
12. Recognition and response to the emergency signaling system.

13. Procedures for the extrication of easily accessible victims from non-structural entrapments involving minimal removal of debris and /or building contents.
14. Procedures for providing disaster first aid medical care to victims.
15. Members shall be trained to the Hazardous Materials First Responder Operational Level (FRO).

US&R Company Type-3 (Light):

Operational Level represents the minimum capability to conduct safe and effective search and rescue operations at structure collapse incidents involving the collapse or failure of Light Frame Construction and low angle or one-person load rope rescue. Organizations typed and operating at the US&R Type-3 level shall meet the operations level for structural collapse and rope rescue.

Personnel shall meet all US&R Type-4 level training requirements. In addition, personnel shall be trained in hazard recognition, equipment use, and techniques required to operate safely and effectively at structural collapse incidents involving the collapse or failure of Light Frame Construction and low angle or one-person load rope rescue as specified below:

1. Personnel shall be trained to recognize, evaluate, and communicate the unique hazards associated with the collapse or failure of Light Frame Construction.
2. Must possess a fundamental knowledge of firefighting and rescue operations including a California State Firefighter 2 or equivalent.
3. Site safety and hazard recognition for personal protective equipment required for site.
4. Recognition of the building materials and structural components associated with Light Frame Construction.
5. Recognition of unstable collapse and failure zones of Light Frame Construction.
6. Recognition of collapse patterns and probable victim locations associated with Light Frame Construction.
7. Knowledge of, and procedures for implementing the emergency signaling system.
8. Personnel shall have an awareness of the resources and the ability to perform search operations intended to locate victims who are not readily visible and who are trapped inside and beneath debris of Light Frame Construction.
9. Training should include but not be limited to the following:
 - a. Conducting non-technical searches.
 - b. Procedures for implementing the FEMA victim marking system.
 - c. Capabilities and procedures for requesting US&R canine search teams and technical search equipment such as video and optical visual search devices and seismic or acoustic electronic listening devices.

Personnel shall be trained in the procedures for performing access operations intended to reach victims trapped inside and beneath debris associated with Light Frame Construction. Training should include but not be limited to the following:

1. Lifting techniques to lift structural components of walls, floors, or roofs safely and efficiently.
2. Develop and communicate a shoring plan. Safely and efficiently construct temporary structures needed to stabilize and support structural components to prevent movement of walls, floors, or roofs.
3. Breaching techniques to create openings safely and efficiently in structural components of walls, floors, or roofs.
4. Operating appropriate tools and equipment to accomplish the above tasks safely and efficiently.

Personnel shall be trained in the procedures for performing extrication operations involving packaging, treatment and removal of victims trapped inside and beneath debris associated with Light Frame Construction. Training should include but not limited to the following:

1. Packaging victims within confined areas.
2. Removing victims from elevated or below grade areas.
3. Providing medical treatment to victims at a minimum to the Basic Life Support level.
4. Operating appropriate tools and equipment to accomplish the above tasks safely and efficiently.

Personnel shall be trained in the procedures for performing low angle or one-person load rope rescue involving accessing, packaging, treating, and removing victims. Training should include but not be limited to the following:

1. Rope system anchors
2. Evacuation litters
3. Rescuer and patient packaging
4. Lowering and raising systems
5. Mechanical advantage systems

US&R Company Type-2 (Medium):

Operational Level represents the minimum capability to conduct safe and effective search and rescue operations at structure collapse incidents involving the collapse or failure of Heavy Wall Construction, high angle rope rescue, and trench and excavation rescue. Organizations typed and operating at the US&R Type-2 level shall meet the awareness level for surface water search and rescue, the operations level for rope rescue, confined space, trench and excavation, vehicle, and machinery search and rescue, and the technician level for structural collapse.

Personnel shall meet all US&R Type-3 level training requirements. In addition, personnel shall be trained in hazard recognition, equipment use, and techniques required to operate safely and effectively at structural collapse incidents involving the collapse or failure of Heavy Wall Construction, high angle rope rescue, and trench and excavation rescue.

Personnel shall be trained to perform search functions and to evaluate and assess an incident using established standard search operational procedures. Training should include but not be limited to the following:

1. Searching structures in US&R environments.
2. Structural markings and search markings.
3. Document and marking of victims, potential victims, and hazards.
4. Basic land navigation and site mapping.
5. Cooperating with and assisting other search & rescue resources.
6. Participating in wide area search operations.

Personnel shall be trained to recognize, evaluate, and communicate the unique hazards associated with the collapse or failure of Heavy Wall Construction. Training should include but not be limited to the following:

1. Site safety, atmospheric monitoring, hazard assessment and personal protective equipment required for site.
2. Recognition of the building materials and structural components associated with Heavy Wall Construction.
3. Recognition of unstable collapse and failure zones of Heavy Wall Construction.
4. Recognition of collapse patterns and probable victim locations associated with Heavy Wall Construction.

Personnel shall have a working knowledge of the resources and procedures for performing search operations intended to locate victims who are not readily visible and who are trapped inside and beneath debris of Heavy Wall Construction.

Personnel shall be trained in the procedures for performing access operations intended to reach victims trapped inside and beneath debris associated with Heavy Wall Construction. Training should include but not be limited to the following:

1. Lifting techniques to lift structural components of walls, floors, or roofs safely and efficiently.
2. Develop and communicate a shoring plan. Safely and efficiently construct temporary structures needed to stabilize and support structural components to prevent movement of walls, floors, or roofs.
3. Breaching techniques to create openings safely and efficiently in structural components of walls, floors, or roofs.
4. Operating appropriate tools and equipment to accomplish the above tasks safely and efficiently.

Personnel shall be trained in the procedures for performing extrication operations involving packaging, treatment and removal of victims trapped inside and beneath debris associated with Heavy Wall Construction. Training should include but not be limited to the following:

1. Packaging victims within confined areas.

2. Removing victims from elevated or below grade areas.
3. Operating appropriate tools and equipment to accomplish the above tasks safely and efficiently.

Personnel shall be trained in the procedures for performing high angle rescue involving accessing, packaging, treating, and removing victims. Training should include but not be limited to the following:

1. Rope system anchors
2. Evacuation litters
3. Rescuer and patient packaging
4. Lowering and raising systems
5. Mechanical advantage systems
6. Fall protection and/or limiter systems

Personnel shall be trained in the procedures for performing trench and excavation rescue operations. Training shall include but not be limited to the following:

1. Familiarity with the California Code of Regulations, Title 8, Sections regarding trench and excavation rescue.
2. Site safety; atmospheric monitoring, hazard recognition and hazard assessment.
3. Containing or controlling hazards within the rescue site.
4. Providing a recognized "Protective System" for victim(s) and rescuer(s) in individual trenches.
5. Packaging and removal of victim(s) from within rescue site.
6. Members shall be trained to the Hazardous Materials First Responder Operational Level (FRO).
7. Complete the FEMA Enhanced Operations in the Contaminated Environment – Computer Based Training" Course (Recommended)

Personnel shall be trained in the procedures for performing confined space rescue (non-permit required) operations. Training shall include but not be limited to the following:

1. Familiarity with the California Code of Regulations, Title 8, Sections regarding confined space rescue.
2. Site safety: atmospheric monitoring, hazard recognition and hazard assessment in permit-required confined spaces, tunnels or other long remote entries, high vertical access, and hazardous environmental entries.
3. Containing and controlling hazards within the rescue site.

US&R Company Type-1 (Heavy):

Operational Level represents the minimum capability to conduct safe and effective search and rescue operations at structure collapse incidents involving the collapse or failure of Heavy Floor, Pre-cast Concrete and Steel Frame Construction, high angle rope rescue, confined space rescue (permit required), and mass transportation rescue.

Organizations typed and operating at the Type-1 level shall meet technician level for: structural collapse, rope rescue, confined space, trench and excavation, vehicle, and machinery search and rescue.

Personnel shall meet all US&R Type-2 level training requirements. In addition, personnel shall be trained in hazard recognition, equipment use, and techniques required to operate safely and effectively at structural collapse incidents involving the collapse or failure of Heavy Floor, Pre-cast Concrete and Steel Frame Construction, high angle rope rescue, confined space rescue (permit required) and mass transportation rescue.

Personnel shall be trained to recognize, evaluate, and communicate the unique hazards associated with the collapse or failure of Heavy Floor, Pre-cast Concrete and Steel Frame Construction. Training should include but not be limited to the following:

1. Must possess a knowledge of firefighting and rescue operations including a California State Firefighter 2 or equivalent.
2. Site safety, atmospheric monitoring, hazard assessment and personal protective equipment required for site.
3. Recognition of the building materials and structural components associated with Heavy Floor, Pre-cast Concrete and Steel Frame Construction.
4. Recognition of unstable collapse and failure zones of Heavy Floor, Precast Concrete and Steel Frame Construction.
5. Recognition of collapse patterns and probable victim locations associated with Heavy Floor, Pre-cast Concrete and Steel Frame Construction.

Personnel shall have a working knowledge of the resources and procedures for performing search operations intended to locate victims who are not readily visible and who are trapped inside and/or beneath debris of Heavy Floor, Pre-cast Concrete and Steel Frame Construction.

1. Must understand State and Federal standardized search modalities and methods of detecting and locating trapped victims.
2. Must possess a knowledge of how to read and use standardized federal & state search markings.
3. Knowledge of coring or breaching techniques that enable the use of visual devices for searching for entombed victims in void spaces.
4. Knowledge on the appropriate listening devices to detection of victims.
5. Basic understanding of the proper use of canine search teams.
6. Must possess a basic understanding of how to operate a Global Positioning System (GPS) unit in the technical search and rescue environment, and how to transfer search data for analysis.
7. Must possess a good understanding of wide area search operations in a large geographic area.

Personnel shall be trained in the procedures for performing access operations intended to reach victims trapped inside and beneath debris associated with Heavy Floor, Pre-cast Concrete and Steel Frame Construction. Training should include but not be limited to the following:

1. Lifting techniques to lift structural components of walls, floors, or roofs safely and efficiently.
2. Develop and communicate a shoring plan. Safely and efficiently construct temporary structures needed to stabilize and support structural components to prevent movement of walls, floors, or roofs.
3. Breaching techniques to create openings safely and efficiently in structural components of walls, floors, or roofs.
4. Operating appropriate tools and equipment to accomplish the above tasks safely and efficiently.

Personnel shall be trained in the procedures for performing extrication operations involving packaging, treatment and removal of victims trapped inside and beneath debris associated with Heavy Floor, Pre-cast Concrete and Steel Frame Construction. Training should include but not be limited to the following:

1. Packaging victims within confined areas.
2. Removing victims from elevated or below grade areas.
3. Operating appropriate tools and equipment to accomplish the above tasks safely and efficiently.

Personnel shall be trained in the procedures for performing high angle rescue involving accessing, packaging, treating, and removing victims. Training should include but not be limited to the following:

1. Rope system anchors
2. Evacuation litters
3. Rescuer and patient packaging
4. Lowering and raising systems
5. Mechanical advantage systems
6. Fall protection and/or limiter systems

Personnel shall be trained in the procedures for performing confined space rescue (permit required) operations. Training shall include but not be limited to the following:

1. Familiarity with the California Code of Regulations, Title 8, Sections regarding confined space rescue.
2. Site safety: atmospheric monitoring, hazard recognition and hazard assessment in permit-required confined spaces, tunnels or other long remote entries, high vertical access, and hazardous environmental entries.
3. Containing and controlling hazards within the rescue site.
4. Packaging and removal of victims within confined spaces.

Personnel shall be trained in the procedures for performing extrication operations involving packaging, treating, and removing victims trapped within mass transportation systems. Training should include but not limited to the following:

1. Procedures to conduct a size-up of existing and potential hazards.
2. Recognition of special hazards, safety systems and construction of transportation systems.
3. Packaging and removal of victim(s) from within rescue site.
4. Extrication techniques to gain access safely and efficiently to trapped victims.
5. Procedures to stabilize, support, and lift diverse types of transportation vehicles safely and efficiently.
6. Operating specialized tools and equipment to accomplish the above tasks safely and efficiently.

California Regional US&R Task Force (RTF):

Operational level represents the minimum capability to conduct safe and effective search and rescue operations at structure collapse incidents involving the collapse or failure of Heavy Floor, Pre-cast Concrete and Steel Frame Construction, high angle rope rescue (including high-line systems), confined space rescue (permit required), and mass transportation rescue.

The California Regional US&R Task Force is comprised of 30 members and is configured to rapidly respond to incidents within the state. As an initial attack and extended attack resource, California Regional US&R Task Forces deploy within 45 minutes of activation. Emphasis is given to speed of deployment and equipment is non-palletized for quick access and deployment. Coordinates and conducts search and rescue response efforts for all hazards, including locating, accessing, medically stabilizing, and extricating survivors from damaged structures.

Operates in environments with and without infrastructure, including compromised access to roadways, utilities, transportation, and limited availability for shelter, food, and water. Capable of operations in heavy frame, reinforced concrete, high-angle rope rescue (including highline systems), confined space rescue (permit required), trench/excavation, heavy rigging, wide area search, mass transportation (subway, rail, bus, etc.) rescue and mud & debris flow rescue. California Regional US&R Task Forces are self-sustaining for 24 hours and are deployable for up to 14 days.

Personnel shall meet all Type-1 US&R Company-level training minimum requirements and all specialty position training requirements as they may be assigned. In addition, personnel shall be trained in hazard recognition, equipment use, and techniques required to operate safely and effectively at structural collapse incidents involving the collapse or failure of Heavy Floor, Pre-cast Concrete and Steel Frame Construction, high angle rope rescue, confined space rescue (permit required), and mass transportation rescue.

Personnel shall be trained to recognize, evaluate, and communicate the unique hazards associated with the collapse or failure of Heavy Floor, Pre-cast Concrete and Steel Frame Construction. Training should include but not be limited to the following:

1. Must possess a knowledge of firefighting and rescue operations including a California State Firefighter 2 or equivalent.
2. Site safety, atmospheric monitoring, hazard assessment and personal protective equipment required for site.
3. Recognition of the building materials and structural components associated with Heavy Floor, Pre-cast Concrete and Steel Frame Construction.
4. Recognition of unstable collapse and failure zones of Heavy Floor, Precast Concrete and Steel Frame Construction.
5. Recognition of collapse patterns and probable victim locations associated with Heavy Floor, Pre-cast Concrete and Steel Frame Construction.

Personnel shall have a working knowledge of the resources and procedures for performing search operations intended to locate victims who are not readily visible and who are trapped inside and/or beneath debris of Heavy Floor, Pre-cast Concrete and Steel Frame Construction.

1. Must understand State and Federal standardized search modalities and methods of detecting and locating trapped victims.
2. Must understand the principles of area reconnaissance, highest area of probable victim detection and how to expedite victim locating efforts.
3. Must possess a knowledge of how to read and use standardized federal & state search markings.
4. Knowledge of coring or breaching techniques that enable the use of visual devices for searching for entombed victims in void spaces.
5. Knowledge on the appropriate listening devices for the detection of victims.
6. Basic understanding of the proper use of canine search teams.
7. Must possess an operational understanding of how to operate a Global Positioning System (GPS) unit in the technical search and rescue environment, and how to transfer search data for analysis.
8. Must possess a good understanding of wide area search operations in a large geographic area.

Personnel shall be trained in the procedures for performing access operations intended to reach victims trapped inside and beneath debris associated with Heavy Floor, Pre-cast Concrete and Steel Frame Construction. Training should include but not be limited to the following:

1. Lifting techniques to lift structural components of walls, floors, or roofs safely and efficiently.
2. Develop and communicate a shoring plan. Safely and efficiently construct temporary structures needed to stabilize and support structural components to prevent movement of walls, floors, or roofs.

3. Breaching techniques to create openings safely and efficiently in structural components of walls, floors, or roofs.
4. Operating appropriate tools and equipment to accomplish the above tasks safely and efficiently.

Personnel shall be trained in the procedures for performing extrication operations involving packaging, treatment and removal of victims trapped inside and beneath debris associated with Heavy Floor, Pre-cast Concrete and Steel Frame Construction. Training should include but not be limited to the following:

1. Packaging victims within confined areas.
2. Removing victims from elevated or below grade areas.
3. Operating appropriate tools and equipment to accomplish the above tasks safely and efficiently.

Personnel shall be trained, per the SA and/or AHJ, to the Rope Technician Level per NFPA 1006 job performance requirements defined in Section 5.2 and 5.3.1 through 5.3.6. Training should include but not be limited to the following:

Personnel shall be trained in the procedures for performing confined space rescue (permit required) operations. Training shall include but not be limited to the following:

1. Site safety: atmospheric monitoring, hazard recognition and hazard assessment in permit-required confined spaces, tunnels or other long remote entries, high vertical access, and hazardous environmental entries.
2. Containing and controlling hazards within the rescue site.
3. Packaging and removal of victims within confined spaces.

Personnel shall be trained in the procedures for performing extrication operations involving packaging, treating, and removing victims trapped within mass transportation systems. Training should include but not limited to the following:

1. Procedures to conduct a size-up of existing and potential hazards.
2. Recognition of special hazards, safety systems and construction of transportation systems.
3. Packaging and removal of victim(s) from within rescue site.
4. Extrication techniques to gain access safely and efficiently to trapped victims.
5. Procedures to stabilize, support, and lift diverse types of transportation vehicles safely and efficiently.
6. Operating specialized tools and equipment to accomplish the above tasks safely and efficiently.

Operates in environments with and without infrastructure, including compromised access to roadways, utilities, transportation, and limited availability for food, and water.

California Regional US&R Task Forces are capable of operations in heavy frame, reinforced concrete, Technician-Level rope rescue, confined space rescue (permit

required), trench, excavation, wide area search, mass transportation (subway, rail, bus, etc.) rescue and mud & debris flow rescue.

Requestor/Agency Having Jurisdiction (AHJ) and resource provider must address, prior to deployment, certain needs, including:

1. Communications beyond the resource's intra-team communications (such as programmable inter-operable communications with command, logistics, military, etc.)
2. Type of incident, such as confined space, and terrain
3. Type of construction and collapse conditions per US&R definitions of Heavy, Medium, and Light
4. Additional specialized personnel, such as advanced medical, and rescue, logistics, advisors, or helicopter support, or for unique operating environments
5. Additional transportation or specific vehicles, trailers, drivers, mechanics, equipment, supplies, and fuel, etc.
6. Any additional aviation support, such as helicopter or fixed wing
7. Tools, hardware, software, ropes, and survivor evacuation equipment that is beyond what is listed for this resource
8. Contaminated environments, decontamination needs and related personal protective equipment (PPE), respiratory protection, clothing, and equipment.
9. Logistics support needs for this resource (security and force protection, lodging, transportation, meals, etc.)

The California Regional US&R Task Force is equipped with two US&R Paramedics for task force medical needs and rapid Advanced Life Support Intervention of trapped victims. The US&R RTF relies on local emergency medical infrastructure for patient transfer.

The California Regional US&R Task Force is equipped with two Haz-Mat Specialists for recognizing environments that may be immediately dangerous to life and health (IDLH), per ASTM International (ASTM) F2890 Standard Guide for Hazard Awareness for Search and Rescue Personnel. The requesting entity must consider the need for additional recognized capability or endorsement.

Heavy Equipment and Rigging capabilities that provide the understanding of basic crane physics to assist the AHJ in requesting the proper heavy equipment specific to the US&R incident. Assist and/or manage in lifting debris and other heavy objects, calculate load weights, sling angles, identification of the center of gravity of objects, and the types and use of cutting torches during search and rescue operations.

California FEMA US&R Task Force - Type IV Configuration:

A multi-disciplined organization which conducts search, rescue, and recovery in the technical rescue disciplines to include non-structural collapse and rope rescue. A Type IV California FEMA US&R Task Force can operate in one 12-hour shift, self-sustaining for 72 hours and deployable for up to 14 days.

Does not have a National US&R Response System-defined CBRNE functional Hazardous materials capability. Deploys with sufficient Hazardous materials and Personal Protective Equipment for personnel to complete the structural collapse core capability mission.

Requestor/Agency Having Jurisdiction (AHJ) and resource provider must address, prior to deployment, certain needs, including:

1. Communications beyond the resource's intra-team communications (such as programmable inter-operable communications with command, logistics, military, etc.)
2. Type of incident, such as confined space, and terrain
3. Type of construction and collapse conditions per US&R definitions of Heavy, Medium, and Light
4. Additional specialized personnel, such as advanced medical, animal search and rescue, logistics, advisors, or helicopter support, or for unique operating environments
5. Additional transportation or specific vehicles, trailers, drivers, mechanics, equipment, supplies, and fuel, etc.
6. Any additional aviation support, such as helicopter or fixed wing
7. Tools, hardware, software, ropes, and survivor evacuation equipment that is beyond what is listed for this resource
8. Contaminated environments, and related personal protective equipment (PPE), respiratory protection, clothing, and equipment.
9. Logistics support needs for this resource (security and force protection, lodging, transportation, meals, etc.)

The requestor must specify if the incident necessitates a Hazardous Materials and/or Chemical, Biological, Radiological, Nuclear, and Explosives (CBRNE) response and ensure that the resource provider deploys the US&R Task Force equipped with the additional Hazardous materials and/or CBRNE specific equipment to perform in an environment requiring Level B PPE for at least 12 hours.

The task force relies on local emergency medical infrastructure for patient hand-off.

Operations in SAR environments may be recognized as immediately dangerous to life and health (IDLH), per ASTM International (ASTM) F2890 Standard Guide for Hazard Awareness for Search and Rescue Personnel.

A Type IV Task Force performs the following functions:

Conducts search, rescue, recovery, including:

1. Wide-area search
2. Structural collapse assessment,
3. search, rescue, and rigging in light frame construction
4. Supporting the transport of service or companion animals with persons rescued

5. Coordinate and conduct search and rescue response efforts for all hazards, including locating, accessing, medically stabilizing, and extricating survivors from the damaged structures area.

California FEMA US&R Task Force - Type III Configuration:

A multi-disciplined organization which conducts search, rescue, and recovery in the technical rescue disciplines to include structural collapse, rope rescue, vehicle extrication, machinery extrication, confined space (permit-required, non-cave, non-mine), trench, excavation, and water operations in a US&R environment. A Type III California FEMA US&R Task Force can operate in one 12-hour shift, self-sustaining for 72 hours and deployable for up to 14 days.

Focus is on structural collapse core capability. ***Does not have a National US&R Response System-defined CBRNE functional Hazardous materials capability.*** Deploys with sufficient Hazardous materials and Personal Protective Equipment for personnel to complete the structural collapse core capability mission.

Deploys with offensive water operations capability.

A Type III Task Force performs the following functions:

Conducts search, rescue, recovery, including:

1. Wide-area search
2. Structural collapse assessment, search, rescue, and rigging in light through heavy frame construction, including reinforced concrete
3. Associated technical rope rescue (including high lines)
4. Confined space search and rescue (permit-required, non-mine, non-cave)
5. Trench and excavation rescue
6. Mass transportation vehicle rescue (subway, rail, bus, etc.)
7. Supporting the transport of service or companion animals with persons rescued

Coordinate and conduct search and rescue response efforts for all hazards, including locating, accessing, medically stabilizing, and extricating survivors from the damaged structures.

Operates in environments with and without infrastructure, including compromised access to roadways, utilities, transportation, and limited availability for shelter, food, and water.

Type III Task Forces are capable of operations in heavy frame, reinforced concrete, high-angle rope rescue (including highline systems), confined space rescue (permit required), trench/excavation, wide area search, still water/flood water operations, and mass transportation (subway, rail, bus, etc.) rescue can operate in one 12-hour shift.

Requestor/Agency Having Jurisdiction (AHJ) and resource provider must address, prior to deployment, certain needs, including:

1. Communications beyond the resource's intra-team communications (such as programmable inter-operable communications with command, logistics, military, etc.)
2. Type of incident, such as confined space, and terrain, and water conditions
3. Type of construction and collapse conditions per US&R definitions of Heavy, Medium, and Light
4. Additional specialized personnel, such as advanced medical, animal search and rescue, boat operators and bowman, logistics, advisors, or helicopter support, or for unique operating environments
5. Additional transportation or specific vehicles, boats, trailers, drivers, mechanics, equipment, supplies, and fuel, etc.
6. Any additional aviation support, such as helicopter or fixed wing
7. Tools, hardware, software, ropes, and survivor evacuation equipment that is beyond what is listed for this resource
8. Contaminated environments, and related personal protective equipment (PPE), respiratory protection, clothing, and equipment.
9. Logistics support needs for this resource (security and force protection, lodging, transportation, meals, etc.)

The requestor must specify if the incident necessitates a Hazardous Materials and/or Chemical, Biological, Radiological, Nuclear, and Explosives (CBRNE) response and ensure that the resource provider deploys the US&R Task Force equipped with the additional Hazardous materials and/or CBRNE specific equipment to perform structural collapse operations in an environment requiring Level B PPE for at least 12 hours.

Type III Task Forces rely on local emergency medical infrastructure for patient hand-off.

Operations in SAR environments may be recognized as immediately dangerous to life and health (IDLH), per ASTM International (ASTM) F2890 Standard Guide for Hazard Awareness for Search and

Rescue Personnel. The requesting entity must consider the need for additional recognized capability or endorsement.

California FEMA US&R Task Force - Type II Configuration:

A multi-disciplined organization which conducts search, rescue, and recovery in the technical rescue disciplines to include structural collapse, rope rescue, vehicle extrication, machinery extrication, confined space (permit-required, non-cave, non-mine), trench, excavation, and water operations in a US&R environment. A Type II California FEMA US&R Task Force can operate in two 12-hour shift, self-sustaining for 72 hours and deployable for up to 14 days.

Focus on structural collapse core capability. ***Does not have a Federal National US&R Response System-defined CBRNE functional Hazardous materials capability.***

Deploys with sufficient Hazardous materials and Personal Protective Equipment for personnel to complete the structural collapse core capability mission. Deploys with offensive water operations capability.

Personnel shall meet all US&R single resource level training requirements. In addition, personnel shall be trained in hazard recognition, equipment use and techniques required to operate safely and effectively at structural collapse incidents involving the collapse or failure of Heavy Floor, Pre-cast Concrete and Steel Frame Construction, high angle rope rescue (including highline systems), confined space rescue (permit required) and mass transportation rescue.

A Type II US&R Task Force performs the following functions:

Conducts search, rescue, recovery, including:

1. Wide-area search
2. Structural collapse assessment, search, rescue, and rigging in light through heavy frame construction, including reinforced concrete
3. Associated technical rope rescue (including highlines)
4. Confined space search and rescue (permit-required, non-mine, non-cave)
5. Trench and excavation rescue
6. Mass transportation vehicle rescue (subway, rail, bus, etc.)
7. Supporting the transport of service or companion animals with persons rescued

Coordinate and conduct search and rescue response efforts for all hazards, including locating, accessing, medically stabilizing, and extricating survivors from the damaged structures area

Operates in environments with and without infrastructure, including compromised access to roadways, utilities, transportation, and limited availability for shelter, food, and water

Type 2 US&R Task Forces are capable of operations in heavy frame, reinforced concrete, high-angle rope rescue (including high line systems), confined space rescue (permit required), trench/excavation, wide area search, still water/flood water operations, and mass transportation (subway, rail, bus, etc.) rescue.

Requestor/Agency Having Jurisdiction (AHJ) and resource provider must address, prior to deployment, certain needs, including:

1. Type of incident, such as confined space, and terrain, and water conditions.
2. Type of construction and collapse conditions per US&R definitions of Heavy, Medium, and Light

3. Additional specialized personnel, such as advanced medical, animal search and rescue, boat operators and bowman, logistics, advisors, or helicopter support, or for unique operating environments
4. Any additional aviation support, such as helicopter or fixed wing
5. Contaminated environments, and related personal protective equipment (PPE), respiratory protection, clothing, and equipment.
6. Long term logistics support needs for this resource (security and force protection, lodging, transportation, meals, etc.)

Task Force has advanced medical capability to stabilize victims but relies on local emergency medical infrastructure for latent patient hand-off.

Operations in SAR environments may be recognized as immediately dangerous to life and health (IDLH), per ASTM International (ASTM) F2890 Standard Guide for Hazard Awareness for Search and Rescue Personnel. The requesting entity must consider the need for additional recognized capability or endorsement.

Heavy Equipment and Rigging capabilities that provide the understanding of basic crane physics to assist the AHJ in requesting the proper heavy equipment specific to the US&R incident. Assist and/or manage in lifting debris and other heavy objects, calculate load weights, sling angles, and the center of gravity of objects, and the types and use of cutting torches during search and rescue operations.

California FEMA Type I US&R Task Force

Operational level represents the minimum capability to conduct safe and effective search and rescue operations at structure collapse incidents involving the collapse or failure of Heavy Floor, Pre-cast Concrete and Steel Frame Construction, high angle rope rescue (including high-line systems), confined space rescue (permit required), and mass transportation rescue. Deploys with a CBRNE functional Hazardous materials capability, to include appropriate Personal Protective Equipment. Deploys with offensive water operations capability.

Focus on structural collapse core capability with a *National US&R Response System-defined CBRNE functional Hazardous materials capability*. Deploys with sufficient Hazardous materials and Personal Protective Equipment for personnel to complete the structural collapse core capability mission. Deploys with offensive water operations capability.

A Type 1 US&R Task Force is required to be self-sufficient for the first 72 hours when in theater and engaged in operations and capable of 24-hour (around the clock) operations for an estimated mission length of up to 14 days. The equipment cache for the Type 1 US&R Task Force is not intended to support the task force for the entire 14 days.

A Type 1 US&R Task Force performs the following functions:

Communications capable of interoperable communications with aircraft, marine resources and various other types of federal, state, and local resources found nationally.

1. UHF range 1, UHF range 2, VHF, VHF AM, and 700-800 MHz radio systems
2. Mobile Satellite Communications (MSAT)
3. Internal Mobile Cellular Communications
4. Data Communications

Conducts search, rescue, recovery, including:

1. Wide-area search
2. Structural collapse assessment, search, rescue, and rigging in light through heavy frame construction, including reinforced concrete
3. Associated technical rope rescue (including high lines)
4. Confined space search and rescue (permit-required, non-mine, non-cave)
5. Trench and excavation rescue
6. Mass transportation vehicle rescue (subway, rail, bus, etc.)

Personnel shall be trained to recognize, evaluate, and communicate the unique hazards associated with the collapse or failure of Heavy Floor, Pre-cast Concrete and Steel Frame Construction. Training should include but not be limited to the following:

1. Site safety, atmospheric monitoring, hazard assessment and personal protective equipment required for site.
2. Recognition of the building materials and structural components associated with Heavy Floor, Pre-cast Concrete and Steel Frame Construction.
3. Recognition of unstable collapse and failure zones of Heavy Floor, Precast Concrete and Steel Frame Construction.
4. Supporting the transport of service or companion animals with persons rescued

Coordinate and conduct search and rescue response efforts for all hazards, including locating, accessing, medically stabilizing, and extricating survivors from the damaged structures area.

Operates in environments with and without infrastructure, including compromised access to roadways, utilities, transportation, and limited availability for shelter, food, and water.

Type 1 US&R Task Forces are capable of operations in heavy frame, reinforced concrete, high-angle rope rescue (including high-line systems), confined space rescue (permit required), trench, excavation, wide area search, still water/flood water operations, and mass transportation (subway, rail, bus, etc.) rescue.

Heavy Equipment and Rigging capabilities that provide the understanding of basic crane physics to assist the AHJ in requesting the proper heavy equipment specific to the US&R incident. Assist and/or manage in lifting debris and other heavy objects,

calculate load weights, sling angles, and the center of gravity of objects, and the types and use of cutting torches during search and rescue operations.

Recognition of collapse patterns and probable victim locations associated with Heavy Floor, Pre-cast Concrete and Steel Frame Construction.

1. Containing and controlling hazards within the rescue site.
2. Packaging and removal of victims within confined spaces.

Requestor/Agency Having Jurisdiction (AHJ) and resource provider must address, prior to deployment, certain needs, including:

1. Type of incident, such as confined space, and terrain, and water conditions
2. Additional specialized personnel, such as advanced medical, animal search and rescue, boat operators and bowman, logistics, advisors, or helicopter support, or for unique operating environments
3. Additional transportation mechanics, supplies, and fuel, etc.
4. Any additional aviation support, such as helicopter or fixed wing
5. Contaminated environments, and related personal protective equipment (PPE), respiratory protection, clothing, and equipment.
6. Long term logistics support needs for this resource (security and force protection, lodging, transportation, meals, etc.)

The requestor must specify if the incident necessitates a Hazardous Materials and/or Chemical, Biological, Radiological, Nuclear, and Explosives (CBRNE) response and ensure that the resource provider deploys with the additional Hazardous materials and/or CBRNE specific equipment to perform structural collapse operations in an environment requiring Level B PPE for at least 12 hours.

Task Force has advanced medical capability to stabilize victims but relies on local emergency medical infrastructure for latent patient hand-off.

Operations in SAR environments may be recognized as immediately dangerous to life and health (IDLH), per ASTM International (ASTM) F2890 Standard Guide for Hazard Awareness for Search and Rescue Personnel. The requesting entity must consider the need for additional recognized capability or endorsement.

Note: All types of US&R Task Forces perform limited operations in hazardous materials or contaminated environments. Hazardous materials capability is limited to one operational period of 12 hours and is limited to defensive operations. The Type 1 is also capable of a 12-hour operational period in a CBRNE environment and capable of being extended up to an additional 24 hours when augmented with additional equipment. Level B and Level C PPE as defined by 29 CFR 1910.120 and consistent with NFPA 472: Standard for Competence of Responders to Hazardous Materials/Weapons of Mass Destruction Incidents or equivalent.

Chapter 3: ICS Modular Development and Task Force Configurations

ICS Modular Development

US&R incidents will occur that require rescue operations that exceed a resource's identified capability. When the magnitude or type of incident is not commensurate with a capability level, the Incident Commander will have the flexibility to conduct rescue operations in a safe and appropriate manner using existing resources within the scope of their training and equipment until adequate resources can be obtained or the incident is terminated.

The flexibility and modular expansion capabilities of the Incident Command System provides several ways technical search and rescue resources can be arranged and managed. A series of modular development examples are included to illustrate several possible methods of expanding the incident organization based on existing emergency conditions, available resources, and incident objectives.

The ICS Modular Development examples shown are not meant to be restrictive, nor imply these are the only ways to build an ICS organizational structure to manage US&R resources at an incident. To the contrary, the ICS Modular Development examples are provided only to show conceptually how one can arrange and manage resources at an US&R incident that builds from an initial response to a Multi-Branch organization.

ICS Modular Development Examples

Initial Response Organization:

The first arriving Public Safety Officer will assume command of the incident as the Incident Commander (IC). The IC will assume all Command and General Staff functions and responsibilities and manage initial response resources. If the potential for escalation is low, then no specific ICS functional positions are established.

If the incident requires an upgraded response, then the IC should consider the early establishment of ICS positions. The following examples illustrate this modular growth of the ICS structure to keep pace with increased resource response.

Reinforced Response Organization:

In addition to the initial response, more Law Enforcement, local Engine and Truck Companies and Mutual Aid resources have arrived. The IC forms a Unified Command with the senior ranking Law Enforcement official on scene and has established a Safety Officer to assure personnel safety. A Public Information Officer has been assigned to manage the large media presence. An Operations Section has been assigned to

manage the tactical assignments and responsibilities. A Staging Area is established to check-in arriving resources. A US&R Group has been established to better coordinate the search and rescue efforts. Public Works is removing debris from the street to improve access and egress routes.

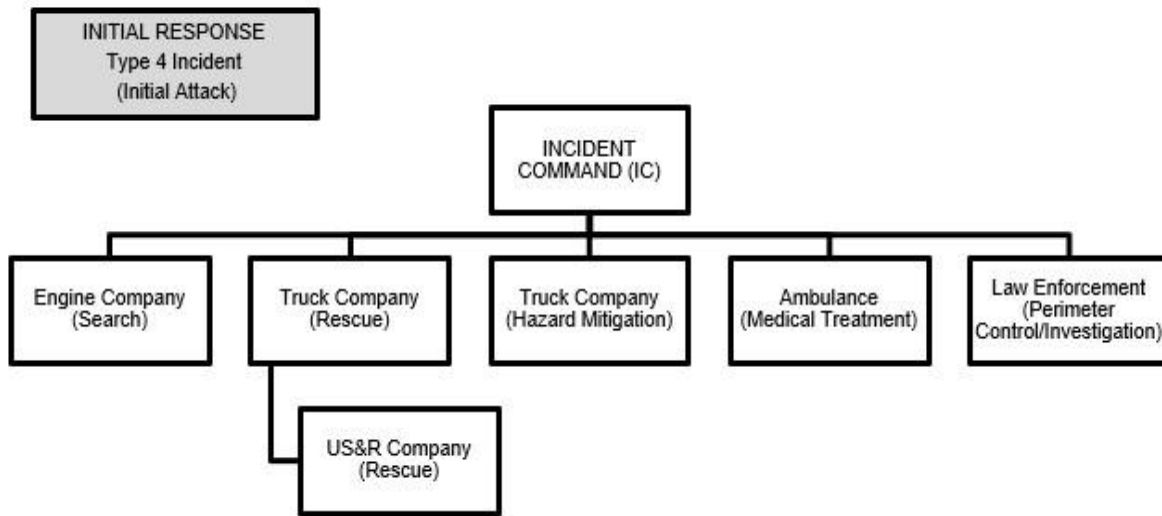
Multi-Group/Division Response Organization:

The IC has added a Liaison Officer to the Command Staff to coordinate assisting agencies participation and assigned a Planning and Logistics Section. One US&R Technical Specialist who understands the unique complexities and resource requirements at US&R incidents is assigned to the Planning Section.

The Operations Section has established several Groups and Divisions to better coordinate the large volume of diverse resources at the incident. A Law Group and Medical Group have been formed. One California FEMA US&R Task Force has arrived and is assigned to Division "A". One Structural Engineer (Technical Specialist) from the Planning Section is assigned to Division "B" to conduct structural damage assessment. A Hand Crew Strike Team is assisting with debris removal.

Multi-Branch Response Organization:

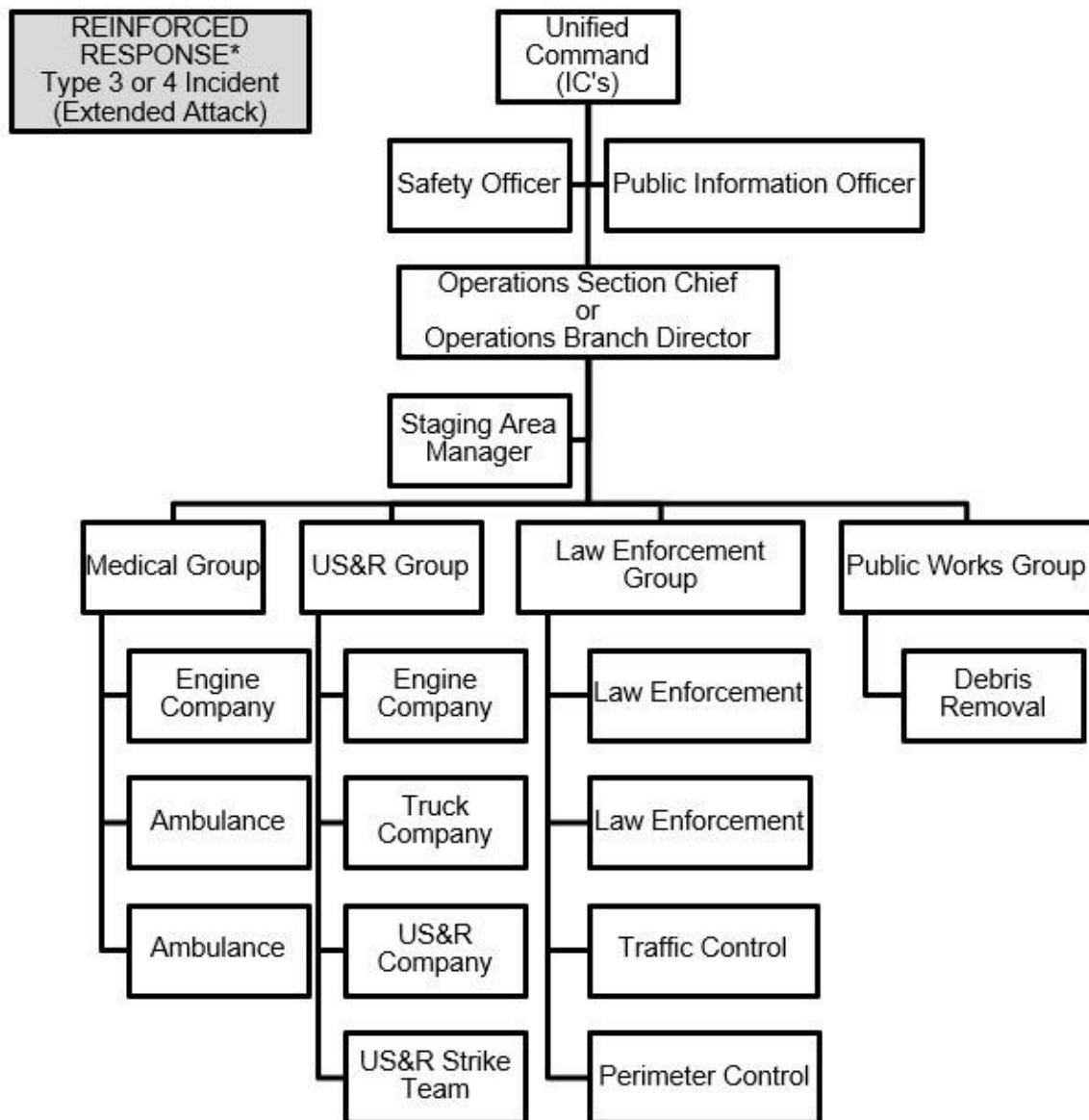
The Incident Commander has assigned a Finance/Admin Section. The Operations Section has established five branches with similar functions to better coordinate and manage resources. The Planning, Logistics and Finance/Admin Section have several Units operational to support the substantial number of resources at the incident.



*INITIAL RESPONSE ORGANIZATION (EXAMPLE)

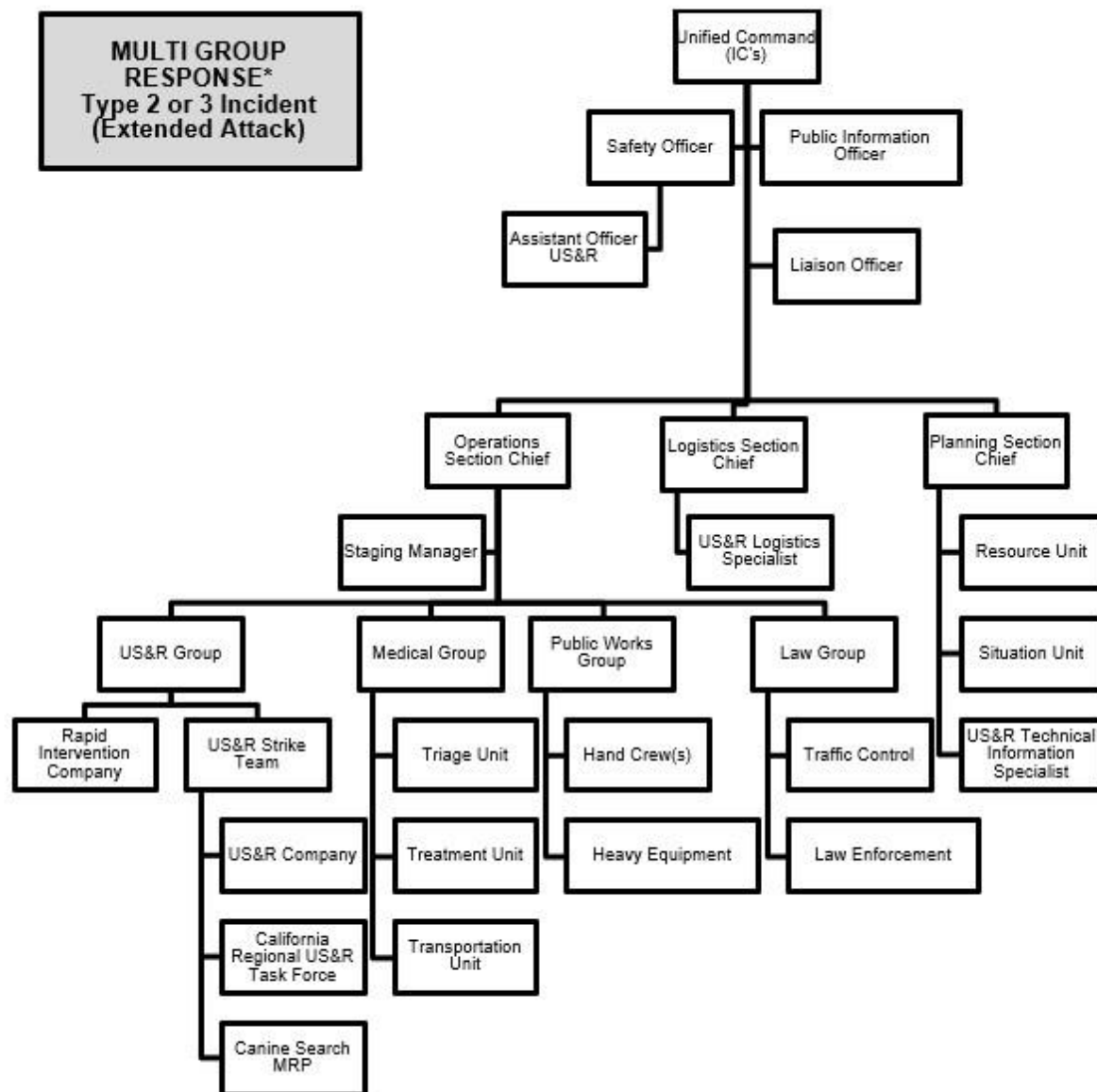
Initial Response Organization

The first arriving Public Safety Officer will assume command of the incident as the Incident Commander (IC). The IC will assume all Command and General Staff functions and responsibilities and manage initial response resources. If the potential for escalation is low, then no specific ICS functional positions are established. If the incident requires an upgraded response, then the IC should consider the early establishment of ICS positions. The following examples illustrate this modular growth of the ICS structure to keep pace with increased resource response.

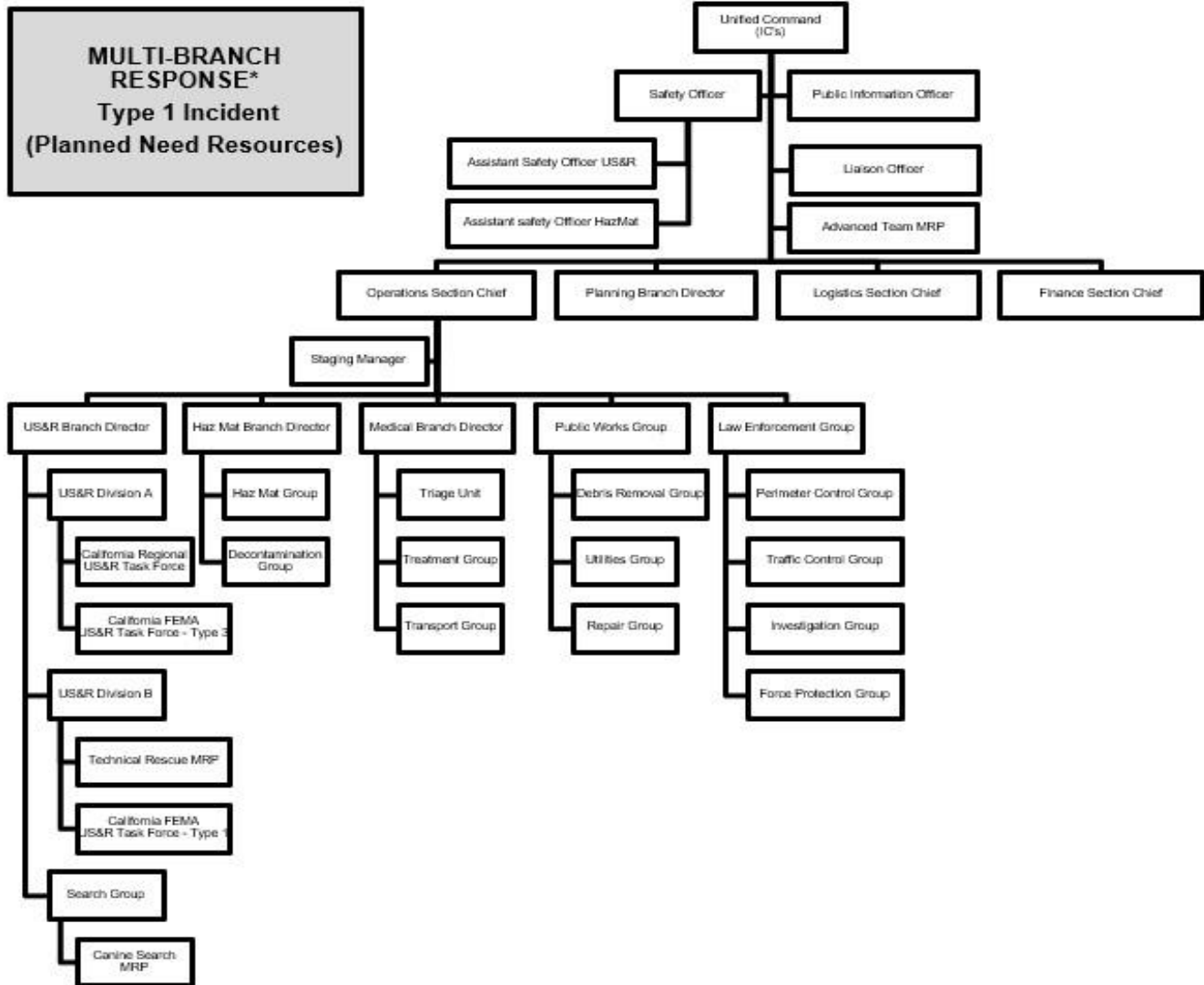


*REINFORCED RESPONSE ORGANIZATION (EXAMPLE)

In addition to the initial response, more Law Enforcement, local Engine and Truck Companies and Mutual Aid resources have arrived. The IC forms a Unified Command with the senior ranking Law Enforcement official on scene and has established a Safety Officer to assure personnel safety. A Public Information Officer has been assigned to manage the large media presence. An Operations Section has been assigned to manage the tactical assignments and responsibilities. A Staging Area is established to check-in arriving resources. A US&R Group has been established to better coordinate the search and rescue efforts. Public Works is removing debris from the street to improve access and egress routes.

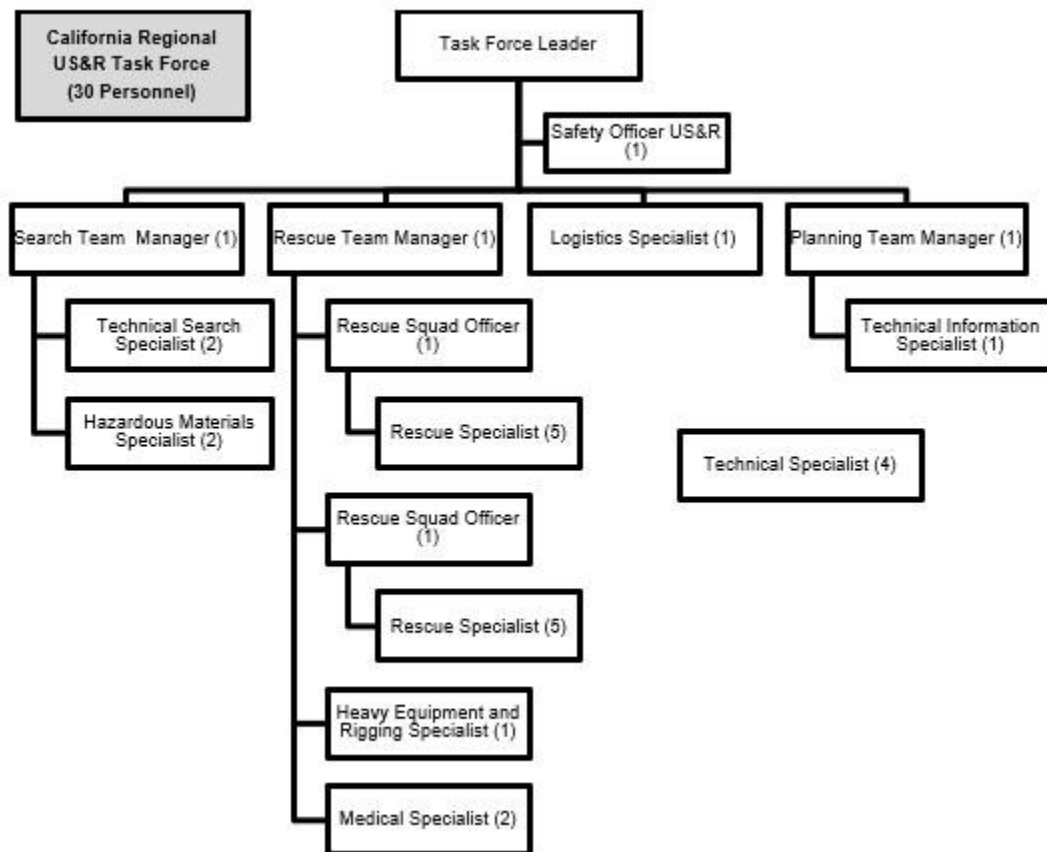


The IC has added a Liaison Officer to the Command Staff to coordinate assisting agencies along with an Assistant Safety Officer (US&R) under the Incident Safety Officer to address specific US&R operations. One US&R Technical Information Specialist who understands the unique complexities and resource requirements at US&R incidents is assigned to the Planning Section. The Logistics Section has added a US&R Logistics Specialist to assist with the needs of US&R resources. The Operations Section has established several Groups and Divisions to better coordinate the large volume of diverse resources at the incident. A Law Group and Medical Group have been formed. A California Regional US&R Task Force and a Canine Search Mission Ready Package has been assigned to the US&R Group. A Hand Crew Strike Team is assisting with debris removal.

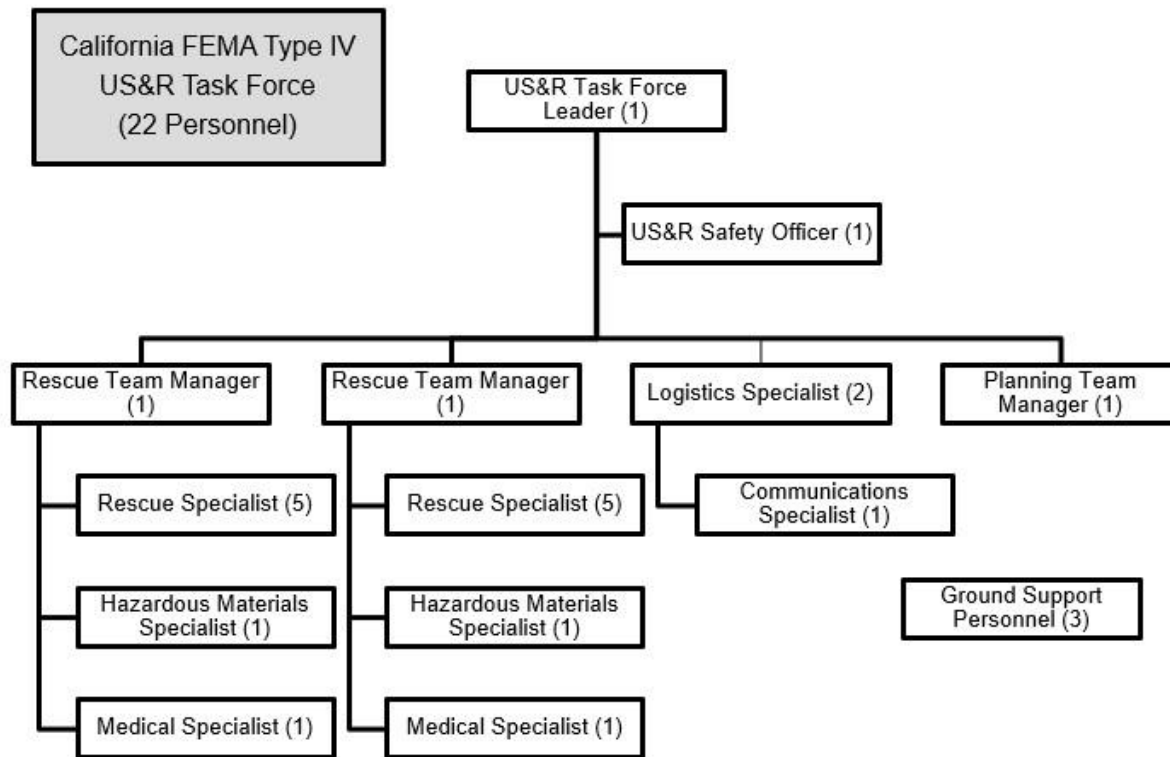


The Incident Commander has assigned a Finance/Admin Section. The Operations Section has established three branches and two groups with similar functions to better coordinate and manage resources. A Type 1 and a Type 3 California FEMA US&R Task Force have been added under the US&R Branch along with a Technical Rescue Mission Ready Package.

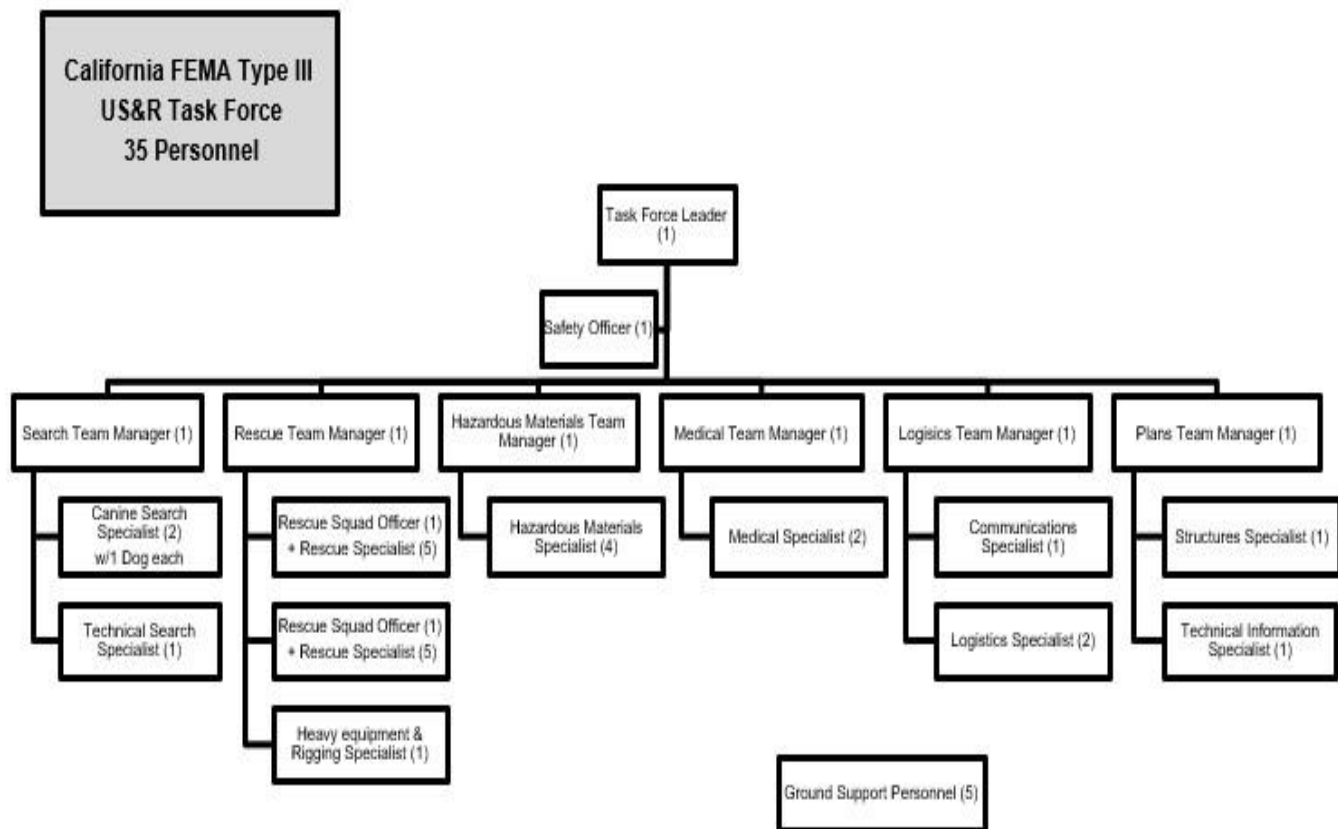
US&R TASK FORCE MODELS



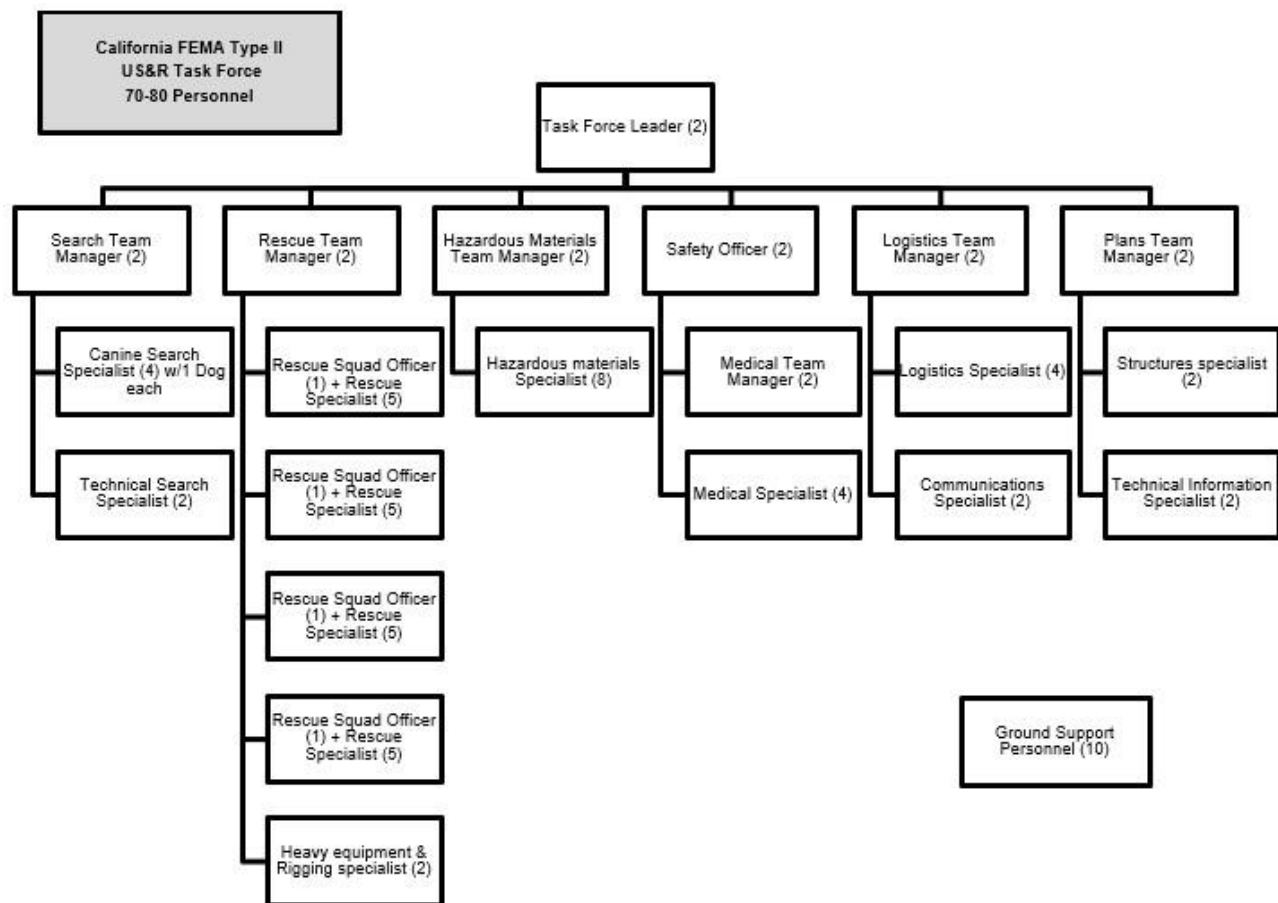
The California Regional US&R Task Force is comprised of 30 members and is configured to rapidly respond to incidents within the state. As an initial attack and extended attack resource, California Regional US&R Task Forces deploy within 45 minutes of activation. Emphasis is given to speed of deployment and equipment is non-palletized for quick access and deployment. The California Regional US&R Task Force coordinates and conducts search and rescue response efforts for all hazards, including locating, accessing, medically stabilizing, and extricating survivors from damaged structures. They operate in environments with and without infrastructure, including compromised access to roadways, utilities, transportation, and limited availability for shelter, food, and water. They are capable of search and rescue operations involving the collapse or failure of Heavy Floor, Pre-cast Concrete and Steel Frame Construction, high angle rope rescue (including high-line systems), confined space rescue (permit required), mass transportation (subway, rail, bus, etc.) rescue, trench/excavation, heavy rigging, wide area search and mud & debris flow. California Regional US&R Task Forces are self-sustaining for 24 hours and deployable for up to 14 days.



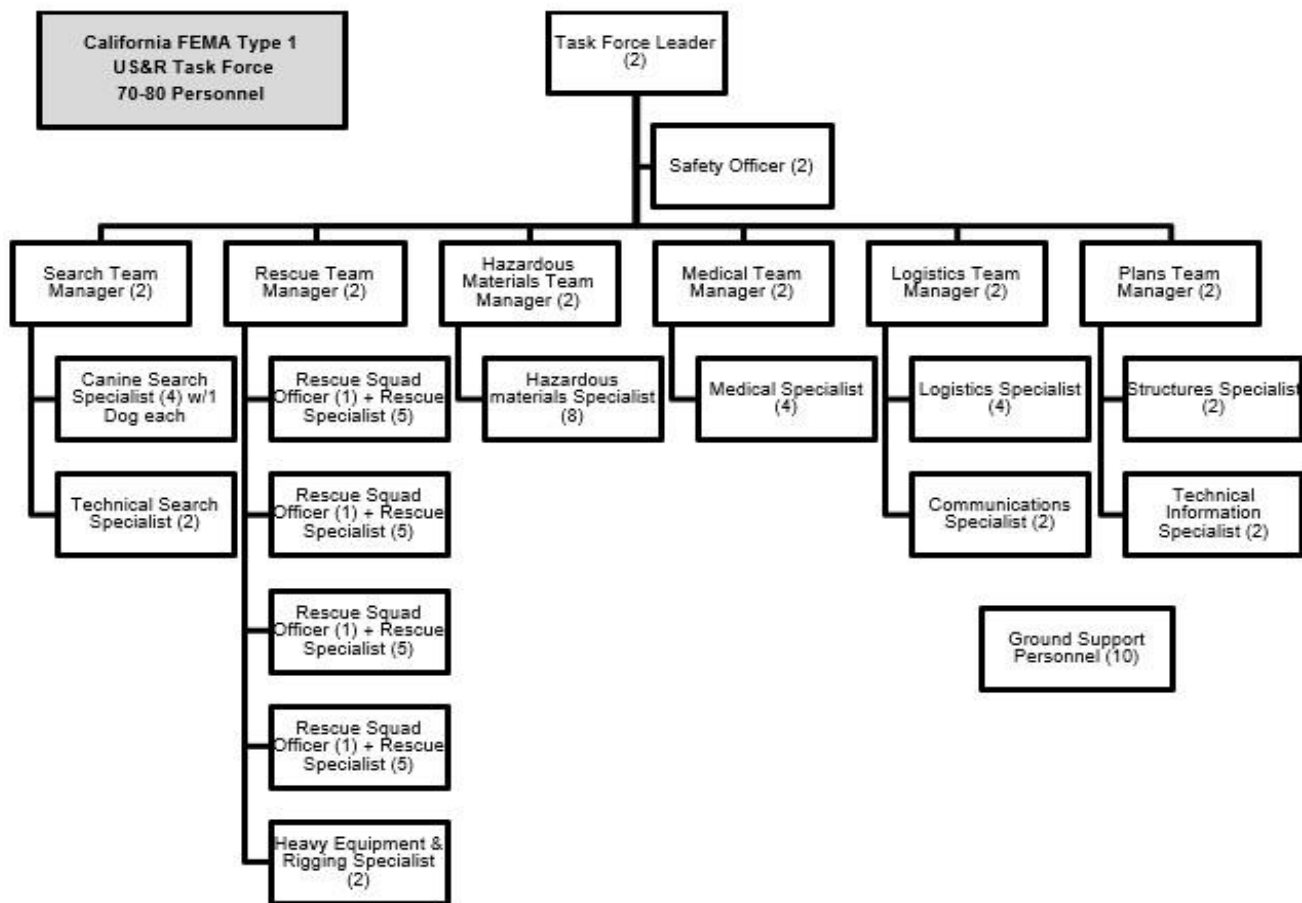
The California FEMA Type 4 Task Force is capable of operations in light frame and concrete construction, rope rescue, confined space rescue, wide area search. In this configuration at least two of the Rescue Team Managers and Rescue Specialists must maintain currency as Technical Search Specialists. (See both *National US&R Response System* and *NIMS Typing Definition* documents for further). They operate in one 12-hour shift. All types of California FEMA US&R Task Forces are self-sustaining for 72 hours and deployable for up to 14 days.



The California FEMA Type 3 Task Force operates in environments with and without infrastructure, including compromised access to roadways, utilities, transportation, and limited availability for shelter, food, and water. They are capable of operations in heavy frame, reinforced concrete, high-angle rope rescue (including highline systems), confined space rescue (permit required), trench/excavation, wide area search, still water/flood water operations, and mass transportation (subway, rail, bus, etc.) rescue and mud & debris flow. In this configuration, the Search Team Manager is also certified as a Canine Search Specialist (See both *National US&R Response System* and *NIMS Typing Definition* documents for further). The task force coordinates and conducts search and rescue response efforts for all hazards, including locating, accessing, medically stabilizing, and extricating survivors from damaged structures. All types of California FEMA US&R Task Forces are self-sustaining for 72 hours and deployable for up to 14 days.



The California FEMA Type 2 Task Force consists of four Rescue Squad Officer's and twenty Rescue Specialists who must maintain currency as NIMS Type 1 Structural Collapse Rescue Technicians (See both *National US&R Response System* and *NIMS Typing Definition* documents for further). 14 of the 70 task force personnel must also maintain currency consistent with NFPA 1006 Chapter 11 (Level 2). The task force coordinates and conducts search and rescue response efforts for all hazards, including locating, accessing, medically stabilizing, and extricating survivors from damaged structures. It operates in environments with and without infrastructure, including compromised access to roadways, utilities, transportation, and limited availability for shelter, food, and water. It is capable of operations in heavy frame, reinforced concrete, high-angle rope rescue (including highline systems), confined space rescue (permit required), trench/excavation, wide area search, still water/flood water operations, and mass transportation (subway, rail, bus, etc.) rescue and mud & debris flow. All types of California FEMA US&R Task Forces are self-sustaining for 72 hours and deployable for up to 14 days.



The California FEMA Type 1 Task Force consists of four NIMS Type 1 Structural Collapse Rescue Squad Officer's and twenty NIMS Type 1 Structural Collapse Rescue Technicians must maintain currency as NIMS Type 1 Structural Collapse Rescue Technicians (See both *National US&R Response System* and *NIMS Typing Definition* documents for further). 14 of the 70 task force personnel must also maintain currency consistent with NFPA 1006 Chapter 11 (Level 2). The task force coordinates and conducts search and rescue response efforts for all hazards, including locating, accessing, medically stabilizing, and extricating survivors from damaged structures. It operates in environments with and without infrastructure, including compromised access to roadways, utilities, transportation, and limited availability for shelter, food, and water. It is capable of operations in heavy frame, reinforced concrete, high-angle rope rescue (including highline systems), confined space rescue (permit required), trench/excavation, wide area search, still water/flood water operations, and mass transportation (subway, rail, bus, etc.) rescue and mud & debris flow. Deploys a CBRNE functional Haz-Mat capability, to include appropriate Level B PPE that can perform operations in a structural collapse contaminated environment for at least 12 hours and capable of being extended up to an additional 24 hours when augmented with additional equipment. Level B PPE is included for response to CBRNE incidents. All types of California FEMA US&R Task Forces are self-sustaining for 72 hours and deployable for up to 14 days.

Chapter 4: Position Descriptions and Training Requirements

Training Requirements Concept of Operations

With the ever-increasing complexity, frequency and breadth of emergencies and disasters; interoperability between responding agencies and emergency responders is extremely important.

At the most basic level, skills interoperability means there is an expectation of reasonable equality of skills based on a specific position within a technical search and rescue resource's standard position description. Responders must be confident of each other's standard training, standard operating procedures (SOPs), and policies. technical search and rescue resource(s) within the tiered response of the California US&R System must be able to work together to achieve their common goal of search, rescue, preventing further injury and reducing property damage, including and especially their own.

The development of positive relationships between different agencies must continue to be an on-going priority. The effort to understand not only the basics of each other's operational responsibilities, but to share common certifications whenever possible and ensure "cross-over" or equivalencies are allowed and understood is particularly important. Mission tasking, levels of responsibility, logistical capability and whether a technical search and rescue resource(s) is considered an initial attack, extended attack, or planned need resource all effects Position Specific Training Requirements.

Considering existing California and nationally accepted standards, relevant education, training, experience, physical/medical fitness, certification, and licensing criteria to define the baseline criteria for each job title listed in this chapter. These baseline criteria represent the minimum requirement for Technical Rescue/US&R personnel to participate and meet California FIRESCOPE standards.

This chapter outlines requirements for all typed technical search and rescue resource(s) within the California FIRESCOPE system, in accordance with Cal OES guidelines. This chapter also includes all federal training requirements in accordance with the Federal Emergency Management Agency (FEMA). Federal requirements are included in this document to allow participating local agencies to understand National Response Framework capabilities and limitations. The federal requirements included will also aid in interoperable training efforts and reference for local public safety agencies who participate in the Federal US&R Response System.

All listed required training is based on current course presentation and naming convention(s). Accepted state or federal course equivalencies are recognized.

Search and Rescue Personnel Training General Requirements

1. Must be able to meet the physical requirements of the sponsoring agency with or without accommodations.
2. Must possess a knowledge of technical search and rescue operations.
3. Complete initial blood-borne pathogen training in accordance with OSHA 29 CFR 1910.1030/CCR Title 8 Section 5193.
4. Must maintain current inoculations for AHJ.
5. Must be able to function safely at heights and on or around rubble.
6. Complete critical incident stress awareness training and must be aware of the signs, symptoms, and corrective measures of critical incident stress syndrome.
7. Must understand and adhere to safe working practices and procedures as required in the urban disaster environment.
8. Must have a working knowledge of the California's US&R Response System, organizational structure, operating procedures, safety practices, terminology, communications protocols, and knowledge of all US&R and technical rescue equipment of assigned unit.
9. Must have completed the First Responder Operational Level for Hazardous Materials as per OSHA Standard 29 CFR 1910.120 Hazardous Waste Operations and Emergency Response. CCR Title 8 Section 5192.
10. Must be currently certified in Cardiopulmonary Resuscitation - Basic Life Support.
11. Must have a working knowledge of the Incident Command System including successful completion of the ICS-100, ICS-200 and the on-line courses IS-700 and IS-800.
12. Complete initial and refresher training as required for respiratory protection training per OSHA 29 CFR 1910.134 (k)/CCR Title 8 Section 5144(F)(e).
13. Complete the FEMA Enhanced Operations in the Contaminated Environment Course.
14. Completion of the appropriate training and Job Performance Requirements (JPR's) in *NFPA 1006: Standard for Technical Rescue Personnel Professional Qualifications* and *NFPA 1670: Standard on Operations and Training for Technical Search and Rescue Incidents* may be considered for qualification in place of the SFT course for meeting the training requirements for specific positions.
15. Completion of search and data collection awareness level training.
16. The authority having jurisdiction shall assure that the individual meets or exceeds the required knowledge, skills, and abilities (KSA's) outlined in this document under the system position requirements.

Swiftwater/Flood Search and Rescue Position Specific Requirements:

SWIFTWATER/FLOOD SEARCH AND RESCUE TECHNICIAN

The Swiftwater/Flood Search and Rescue Technician performs search, rescue, and recovery in various water environments. The Swiftwater/Flood Search and Rescue Technician reports directly to a Rescue Squad Officer.

Description of Duties:

- Implementing technical skills and operating equipment necessary for completing the water rescue portion of the action plan in a safe manner
- Performing supervised water operations and providing periodic progress reports as needed
- Operating and ensuring accountability and maintenance for all issued equipment
- Performing additional tasks or duties as assigned
- Evaluating and modifying water operational tactics as needed

Position Requirements and Criteria:

Individuals who meet the following requirements and criteria will be eligible to become Swiftwater/Flood Search and Rescue Technician. The intent of these requirements is to select personnel who are fully capable of providing the water operational tactics and techniques required in a disaster environment.

Required Training:

1. Complete all General Training requirements.
2. Complete FEMA GPS Awareness Level course, or equivalent
 - a. Meet requirements of NFPA 1006 Rescue Technician
3. Complete the required:
 - a. California State Fire Training, Firefighter 1 or equivalent
 - b. California State Fire Training, Rope Rescue Operations
 - c. California State Fire Training, Structural Collapse Specialist 1
 - d. California State Fire Training, Confined Space Rescue Technician
 - e. California State Fire Training, Structural Collapse Specialist 2
 - f. California State Fire Training, Trench Rescue Technician
 - g. California State Fire Training, Rope Rescue Technician
 - h. California State Fire Training, River & Flood Rescue Technician

NOTE: (For SFT courses that have been updated or changed, previous courses that have been taken may be historically recognized)

4. Current Certification as a California Emergency Medical Technician

5. Annual demonstration of swimming proficiency pool swim evaluation. Minimum 500 yards in 19 minutes or International Association Dive and Rescue Specialist (IADRS) Watermanship evaluation per NFPA 1006. Possible additional requirements per AHJ.
6. Annual refresher of related search and rescue skills and abilities in water environments per NFPA 1006
7. Refresher of rescue skills in moving water by functioning in this position during an operational incident, planned event, participation in exercise, drill, or simulation once every three years or at the determination of the AHJ
8. GPS and data collection awareness with annual refresher training
9. Helicopter Awareness Training
10. Every 5 years, Peer Evaluation
 - a. Evaluation of staffing and requirements for staffing
 - b. Evaluation of training records
 - c. Evaluation of required equipment

Recommended Training:

1. Complete the Cal OES Regional Technical Search Specialist Course

-OR-

The FEMA Technical Search Specialist course, or equivalent.

Required Experience:

1. Satisfactory performance as a California State Fire Training Firefighter II or equivalent.

SWIFTWATER/FLOOD SEARCH AND RESCUE TECHNICIAN - BOAT OPERATOR

The Swiftwater/Flood Search and Rescue Technician - Boat Operator is a qualified Swiftwater/Flood Search and Rescue Technician that operates the boat and provides direction to the Boat Bowman and is ultimately responsible for all aspects of boat operations. The Swiftwater/Flood Search and Rescue Technician - Boat Operator reports directly to a Rescue Squad Officer.

Description of Duties:

- Operating and performing routine field maintenance of watercraft and equipment
- Performs search, rescue, and recovery in various water environments
- Operates within the Incident Command System (ICS) in a specialized position within the Swiftwater/Flood Search and Rescue Team

Position Requirements and Criteria:

Individuals who meet the following requirements and criteria will be eligible to become Swiftwater/Flood Search and Rescue Technician - Boat Operator. The intent of these requirements is to select personnel who are fully capable of providing the water operational tactics and techniques required in a disaster environment.

Required Training:

1. Complete all General Training requirements.
2. Complete all Swiftwater/Flood Search and Rescue Technician requirements
3. California Boating Safety Course
4. Obtain California Boater Card
5. California State Fire Training, River/Flood Rescue Boat Technician

California Regional US&R Task Force Position Specific Requirements:

REGIONAL HAZARDOUS MATERIALS SPECIALIST

The Regional Hazardous Materials Specialist is responsible for performing the various hazardous materials functions for the task force during incident operations. The Hazardous Materials Specialist reports directly to the Search Team Manager or other supervisor, as appropriate.

Description of Duties:

- Provide an initial and ongoing survey (detection, monitoring) for, and identification of, the presence of hazardous materials at search and rescue sites.
- Proficiency with the set up and use of decontamination systems and equipment.
- Directing decontamination for task force members, victims, canine, or equipment.
- Performing minor mitigation operations.
- Technical expertise to advise Team Managers regarding all hazardous material issues in order to plan for tactical operations.
- Document all related information regarding the incident
- Adhere to all safety procedures
- Properly utilizing the detection monitors and devices in US&R cache.
- Proficiency in donning/doffing personnel protective equipment in US&R cache.
- Proficiency in building triage and US&R marking systems.
- Performing regular assessments for hazardous conditions, such as carbon monoxide from generators, or any other contaminants
- Establishing and maintain a liaison with hazardous materials personnel from other resources
- Performing additional tasks or duties as assigned

Position Requirements and Criteria:

Individuals who meet the following requirements and criteria will be eligible to deploy as a Hazardous Materials Specialist in support of a resource's activities. The intent of these requirements is to select personnel fully capable of providing competent hazardous materials assessments and advice to Task Force personnel in the urban disaster environment.

Required Training:

1. Complete all General Training requirements.
2. Meet and maintain the requirements as a certified Hazardous Materials Technician or Specialist as per OSHA Standard 29 CFR 1910.120 Hazardous Waste Operations and Emergency Response. CCR Title 8 Section 5192.
3. Meet and maintain the AHJ competencies in accordance with National Fire Protection Association standard 472 Standard for Professional Competence of Responders to Hazardous Materials Incidents.
4. Complete the required:
 - a. California State Fire Training, Firefighter 1, or equivalent training
 - b. California State Fire Training, Rope Rescue Operations
 - c. California State Fire Training, Structural Collapse Specialist 1
 - d. California State Fire Training, Confined Space Rescue Technician

NOTE: (For SFT courses that have been updated or changed, previous courses that have been taken may be historically recognized)

Required Experience:

1. Satisfactory performance as a California State Fire Training, Firefighter 2 or equivalent

Recommended Training:

1. Complete the Weapons of Mass Destruction Radiological/Nuclear for Hazardous Materials Technician (Course PER-241), U.S. Department of Energy National Security Administration Nevada Test Site.
2. Complete the WMD Hazardous Materials Technician Training (HT) (Course PER 261), Centers for Domestic Preparedness, Anniston Alabama.
3. California State Fire Training, Structural Collapse Specialist 2
4. California State Fire Training, Trench Rescue Technician
5. California State Fire Training, Rope Rescue Technician

REGIONAL HEAVY EQUIPMENT & RIGGING SPECIALIST

The Regional Heavy Equipment and Rigging Specialist is responsible for performing various assessments and construction-related liaison for the task force during incident operations. The Heavy Equipment and Rigging Specialist reports directly to the Rescue Team Manager.

Position Requirements and Criteria:

Individuals who meet the following requirements and criteria will be eligible to deploy as a Heavy Equipment & Rigging Specialist in support of a resource's activities. The intent of these requirements is to select personnel fully capable of providing competent assessments and advice to task force personnel in the urban disaster environment.

Description of Duties:

- Ensure the safety of Task Force members at disaster sites pertaining to the positioning and operations of cranes and other heavy equipment.
- Assess the need for and capabilities of several types of construction-related equipment to assist task force personnel in US&R activities.
- Preparing site for and assisting with positioning and setup of cranes and other heavy equipment.
- Identify various rigging techniques to assist in the rescue of victims or stabilization of collapsed buildings, including development of rigging plans and procedures.
- Interact with and coordinate efforts between the task force personnel and heavy equipment operators, contractors, and organized labor.
- Adhering to all safety procedures.
- Providing documentation to assist Task Force in procuring cranes and other heavy equipment, as well as maintaining daily logs.
- Providing accountability, maintenance, and minor repairs for all issued equipment.
- Performing additional tasks or duties as assigned.

Required Training:

1. Complete all General Training requirements.
2. Complete the FEMA Heavy Equipment and Rigging Specialist curriculum or equivalent.
3. Complete the required:
 - a. California State Fire Training, Firefighter 1, or equivalent training
 - b. California State Fire Training, Rope Rescue Operations
 - c. California State Fire Training, Structural Collapse Specialist 1
 - d. California State Fire Training, Confined Space Rescue Technician

- e. California State Fire Training, Structural Collapse Specialist 2
- f. California State Fire Training, Trench Rescue Technician
- g. California State Fire Training, Rope Rescue Technician

NOTE: (For SFT courses that have been updated or changed, previous courses that have been taken may be historically recognized)

Additional Specific Requirements:

1. Experience in the heavy construction field, such as heavy equipment operator, crane operator, iron worker, rigger, or another applicable field

-OR-

A minimum of three years of experience as a Rescue Specialist

REGIONAL LOGISTICS SPECIALIST

The Regional Logistics Specialist is responsible for ensuring the preparation and maintenance of the task force equipment cache. The Logistics Specialist reports directly to the Task Force Leader.

Description of Duties:

- Coordinate the transporting, distribution, and maintenance of the Task Force equipment prior, during, and after mission assignments
- Procure equipment as directed by the Task Force Leader
- Ensure accountability and security of the task force equipment cache
- Maintain accurate and timely records and reports
- Adhere to all safety procedures
- Maintain and repairs the task force equipment cache
- Assist with over-all management of task force facilities and fleet
- Coordinate with military and/or civilian officials for transportation needs
- Perform additional tasks or duties as assigned

Position Requirements and Criteria:

Individuals who meet the following requirements and criteria will be eligible to deploy as a Logistics Specialist in support of Resource's activities. The intent of these requirements is to select personnel capable of managing the logistics needs of the Task Force in the urban disaster environment.

Required Training:

1. Complete all General Training requirements.
2. Complete FEMA GPS Awareness Level course or equivalent

Recommended Training:

1. California State Fire Training, Firefighter 1, or equivalent training
2. California State Fire Training, Rope Rescue Operations
3. California State Fire Training, Structural Collapse Specialist 1
4. California State Fire Training, Confined Space Rescue Technician
5. California State Fire Training, Structural Collapse Specialist 2
6. California State Fire Training, Trench Rescue Technician
7. California State Fire Training, Rope Rescue Technician

NOTE: (For SFT courses that have been updated or changed, previous courses that have been taken may be historically recognized)

REGIONAL PLANNING TEAM MANAGER

The Regional Planning Team Manager is responsible for planning aspects of the Task Force during incident operations. The Plans Team Manager supervises the Technical Information Specialist. The Planning Team Manager reports directly to the Task Force Leader.

Description of Duties:

- Developing and implementing the operational planning of the Task Force
- Coordinating, managing, and supervising all planning component activities
- Determining the planning component organizational and logistics needs
- Receiving briefings and situation reports and ensures that all planning personnel are kept informed of status changes
- Providing situation reports and maintaining records and reports
- Performing additional tasks or duties as assigned

Position Requirements and Criteria:

Individuals who meet the following requirements and criteria will be eligible to deploy as a Planning Team Manager in support of resources activities. The intent of these requirements is to select functional managers capable of effectively managing and supervising the planning component in the urban disaster environment.

Required Training:

1. Complete all General Training requirements
2. Complete ICS-300 Intermediate ICS
3. Complete ICS-400 Advanced ICS
4. FEMA US&R Plans Team Manager Course or equivalent (Plans Section Chief-L962)

Recommended Training:

1. Complete FEMA National US&R Task Force Leaders course or equivalent
2. Large Area Search Course
3. Complete O-305: All Hazard Incident Management Training
4. Complete L965 All Hazard Resource Unit Leader course or equivalent
5. Complete L964 All Hazard Situation Unit Leader course or equivalent

REGIONAL RESCUE SPECIALIST

The Regional Rescue Specialist is responsible for performing the rescue function of the Task Force incident operation. The Rescue Specialist reports directly to a Rescue Squad Officer.

Description of Duties:

- Implementing technical skills and operating equipment necessary for completing the rescue portion of the action plan
- Performing rescue operations under the direct supervision of a Rescue Squad Officer and providing periodic progress reports as needed
- The operation and routine field maintenance of rescue tools and equipment
- Ensuring accountability and maintenance for all issued equipment
- Evaluating and modifying rescue tactics as needed
- Performing additional tasks or duties as assigned

Position Requirements and Criteria:

Individuals who meet the following requirements and criteria will be eligible to deploy as a Rescue Specialist in support of Resource's activities. The intent of these requirements is to select personnel fully capable of providing the rescue tactics and techniques required in a disaster environment.

Required Training:

1. Complete all General Training requirements.
2. Complete FEMA GPS Awareness Level course, or equivalent
3. Meet requirements of NFPA 1006 Rescue Technician Level 1 & 2 (Excluding Chapter 1 Administration: Section 1.3.3):
 - a. Job Performance Requirements – Chapter 5
 - b. Vehicle and Machinery Rescue – Chapter 10
4. Complete the required:
 - a. California State Fire Training, Firefighter 1, or equivalent training
 - b. California State Fire Training, Rope Rescue Operations
 - c. California State Fire Training, Structural Collapse Specialist 1
 - d. California State Fire Training, Confined Space Rescue Technician
 - e. California State Fire Training, Structural Collapse Specialist 2

- f. California State Fire Training, Trench Rescue Technician
- g. California State Fire Training, Rope Rescue Technician
- h. California State Fire Training, Vehicle Extrication

NOTE: (For SFT courses that have been updated or changed, previous courses that have been taken may be historically recognized) Note for cutoff date for SCS/RS3

5. Current Certification as a California Emergency Medical Technician

Required Experience:

1. Satisfactory performance as a California State Fire Training Firefighter 2 or equivalent

Recommended Training:

1. Cal OES, Regional Technical Search Specialist Course
2. California State Fire Training, River & Flood Water Rescue Technician
3. California State Fire Training, Rescue Boat Operations
4. California State Fire Training, Personal Watercraft Rescue Operations
5. California State Fire Training, Animal Technical Rescue Technician
6. California State Fire Training, ICS-300 Intermediate ICS
7. California State Fire Training, S-270 Basic Air Operations

NOTE: (For SFT courses that have been updated or changed, previous courses that have been taken may be historically recognized)

REGIONAL RESCUE SQUAD OFFICER

The Regional Rescue Squad Officer is responsible for supervising one or more Task Force Rescue Squad(s). The Rescue Squad Officer reports directly to the Rescue Team Manager.

Description of Duties:

- Directly supervising Rescue Squad(s) and other assigned personnel
- Implementing the rescue component of the Task Force
- Determining organizational and logistical needs for the Rescue Squad(s) and work site
- Providing periodic progress reports to the Rescue Team Manager
- Maintaining records and reports
- Preparing performance evaluations for assigned personnel
- Ensuring accountability and maintenance for all issued equipment
- Evaluating and modifying rescue tactics as needed
- Performing additional tasks or duties as assigned

Position Requirements and Criteria:

Individuals who meet the following requirements and criteria will be eligible to deploy as a Rescue Squad Officer in support of the resource's activities. The intent of these requirements is to select functional officers capable of effectively managing and supervising the Rescue Squad(s) and assigned personnel in the urban disaster environment.

Required Training:

1. Complete all General Training requirements.
2. Complete FEMA GPS Awareness Level course, or equivalent
3. Meet requirements of NFPA 1006 Rescue Technician Level 1 & 2 (Excluding Chapter 1 Administration: Section 1.3.3):
 - a. Job Performance Requirements – Chapter 5
 - b. Vehicle and Machinery Rescue – Chapter 10
 - i. California State Fire Training, Firefighter 1, or equivalent training
 - ii. California State Fire Training, Rope Rescue Operations
 - iii. California State Fire Training, Structural Collapse Specialist 1
 - iv. California State Fire Training, Confined Space Rescue Technician
 - v. California State Fire Training, Structural Collapse Specialist 2
 - vi. California State Fire Training, Trench Rescue Technician
 - vii. California State Fire Training, Rope Rescue Technician
 - viii. California State Fire Training, Vehicle Extrication

NOTE: (For SFT courses that have been updated or changed, previous courses that have been taken may be historically recognized)

5. Current Certification as a California Emergency Medical Technician

Required Experience:

1. Shall have experience in structural collapse operations to include participation in field exercise(s) and/or a deployment as a Rescue Specialist

Recommended Training:

1. Complete Technical Search Specialist course
2. California State Fire Training, Rescue Boat Operations
3. California State Fire Training, Personal Watercraft Rescue Operations
4. California State Fire Training, Animal Technical Rescue Technician
5. California State Fire Training, ICS-300 Intermediate ICS
6. California State Fire Training, S-270 Basic Air Operations
7. California State Fire Training, River & Flood Water Rescue

NOTE: (For SFT courses that have been updated or changed, previous courses that have been taken may be historically recognized)

REGIONAL RESCUE TEAM MANAGER

Reports directly to the US&R Task Force Leader. Is responsible for managing US&R Rescue Operations and supervising assigned resources:

- Assisting in the development and implementation of the Task Force Tactical Action Plan
- Coordinating, managing, and supervising all functional groups involved in rescue activities
- Determining rescue organizational and logistical needs
- Receiving briefings and situation reports and ensuring that all rescue personnel are kept informed of mission objectives and status changes
- Providing situation updates and maintaining records and reports
- Preparing performance evaluations for assigned personnel
- Ensuring accountability and maintenance for all issued equipment
- Ensuring accountability of all assigned personnel
- Provide a mission specific Rapid Intervention Plan including personnel and equipment needs
- Performing additional tasks or duties as assigned

Position Requirements and Criteria:

Individuals who meet the following requirements and criteria will be eligible to deploy as a Rescue Team Manager in support of the resource's activities. The intent of these requirements is to select functional managers capable of effectively managing and supervising rescue operations in the urban disaster environment.

Required Training:

1. Complete all General Training requirements.
2. Complete FEMA GPS Awareness Level course, or equivalent
3. Meet requirements of NFPA 1006 Rescue Technician Level 1 & 2 (Excluding Chapter 1 Administration: Section 1.3.3):
 - a. Job Performance Requirements – Chapter 5
 - b. Vehicle and Machinery Rescue – Chapter 10
4. Complete the required:
 - a. California State Fire Training, Firefighter 1, or equivalent training
 - b. California State Fire Training, Rope Rescue Operations
 - c. California State Fire Training, Structural Collapse Specialist 1
 - d. California State Fire Training, Confined Space Rescue Technician
 - e. California State Fire Training, Structural Collapse Specialist 2
 - f. California State Fire Training, Trench Rescue Technician
 - g. California State Fire Training, Rope Rescue Technician
 - h. California State Fire Training, Vehicle Extrication

NOTE: (For SFT courses that have been updated or changed, previous courses that have been taken may be historically recognized)

5. Current Certification as a California Emergency Medical Technician

Required Experience:

1. Shall have experience in structural collapse operations to include participation in field exercise(s) and/or a deployment as a Rescue Squad Officer

Recommended Training:

1. Cal OES or FEMA, Technical Search Specialist Course
2. Complete ICS-400 in accordance with the NIMS Training Program
3. Complete FEMA GPS Operations Level course, or equivalent
4. Complete Heavy Equipment Rigging Specialist (HERS) course
5. Complete California or FEMA Task Force Leaders course, as appropriate
6. Complete FEMA Plans Team Manager course
7. California State Fire Training, S-270 Basic Air Operations
8. California State Fire Training, River & Flood Water Rescue
9. California State Fire Training, Rescue Boat Operations
10. California State Fire Training, Personal Watercraft Rescue Operations

NOTE: (For SFT courses that have been updated or changed, previous courses that have been taken may be historically recognized)

REGIONAL SAFETY OFFICER

The task force Regional Safety Officer is responsible for monitoring and assessing the safety aspects of the task force during training, exercises, and incident operations. The task force Safety Officer reports directly to the Task Force Leader.

Description of Duties:

- Overseeing all health and safety of all task force personnel during day-to-day operations, training, and exercises as well as on deployment
- Coordinating with task force Team Managers relative to the health, welfare, and safe operations of their assigned personnel
- Preventing injuries and illness of task force members through appropriate administrative and engineering controls of hazards including enforcement of safety policies and procedures
- Conduct site safety analysis, complete required ICS documents for IAP/TAP, develop safety messages and conduct safety briefings
- Work with Task Force Team Managers to establish acceptable entry conditions and appropriate personal protective equipment to be worn by personnel entering the hazard zone
- Establish and enforce the use of a personnel accountability system to be used during training, exercises, and actual disaster deployments
- Immediate intervention of activities to prevent the loss of life and prevention of injuries

- Conduct incident/accident investigations with appropriate task force personnel under the direction of the Task Force Leader. Prepare post incident injury reports and submit them to the Task Force Leader
- Preparing and maintaining entry permits, records, and reports
- Performing additional tasks or duties as assigned

Position Requirements and Criteria:

Individuals who meet the following requirements and criteria will be eligible to deploy as a (Task Force) Safety Officer in support of Resource's activities. The intent of these requirements is to select functional managers capable of effectively managing and supervising the safety function in the urban disaster environment.

Required Training:

1. Complete all General Training requirements.
2. Complete FEMA GPS Awareness Level course, or equivalent
3. Complete ICS-300
4. Complete ICS-400
5. California State Fire Training: S-404 Safety Officer Course

-OR-

E/L-954 All Hazards Safety Officer Course

OR

FEMA US&R Safety Officer Course

6. Meet requirements of NFPA 1006 Rescue Technician Level 1 & 2 (Excluding Chapter 1 Administration: Section 1.3.3):
 - a. Job Performance Requirements – Chapter 5
 - b. Vehicle and Machinery Rescue – Chapter 10
7. Complete the required:
 - a. California State Fire Training, Firefighter 1, or equivalent training
 - b. California State Fire Training, Rope Rescue Operations
 - c. California State Fire Training, Structural Collapse Specialist 1
 - d. California State Fire Training, Confined Space Rescue Technician
 - e. California State Fire Training, Structural Collapse Specialist 2
 - f. California State Fire Training, Trench Rescue Technician
 - g. California State Fire Training, Rope Rescue Technician
 - h. California State Fire Training, Vehicle Extrication

NOTE: (For SFT courses that have been updated or changed, previous courses that have been taken may be historically recognized)

8. Current Certification as a California Emergency Medical Technician

Required Experience:

1. Shall have experience in structural collapse operations to include participation in field exercise(s) and/or a deployment as a Rescue Specialist

Recommended Training:

1. Cal OES or FEMA, Technical Search Specialist Course
2. Complete FEMA GPS Operations Level course, or equivalent
3. Complete Heavy Equipment Rigging Specialist (HERS) course
4. Complete California or FEMA Task Force Leaders course, as appropriate
5. Complete FEMA Planning Team Manager course.
6. Complete O-305: All Hazard Incident Management Training
7. California State Fire Training, River & Flood Water Rescue

REGIONAL SEARCH TEAM MANAGER

The Search Team Manager is responsible for managing the search function of the task force or the search element during a US&R or technical rescue incident. The Search Team Manager supervises the Technical Search Specialists. The Search Team Manager reports directly to the Task Force Leader.

Description of Duties:

- Developing and implementing the search component of the Task Force Tactical Action Plan
- Coordinating, managing, and supervising all search and reconnaissance activities
- Participating in the oversight, administrative and operational control of the development, implementation, and operational aspects of search component training
- Providing research and development input at the task force level for the implementation and evaluation of modern technologies, equipment, tactics, and skills as they pertain to the search component
- Land navigation and site mapping
- Determining search and reconnaissance operational, organizational, and logistical needs
- Ensuring that all assigned personnel are kept informed of mission objectives and status changes to include briefings and debriefings
- Preparing performance evaluations for assigned personnel
- Provides situation updates, documents, and maintains records and reports
- Providing oversight for accountability, maintenance, and minor repairs for all issued/assigned equipment
- Performing additional tasks or duties as assigned

Position Requirements and Criteria:

Individuals who meet the following requirements and criteria will be eligible to deploy as a Search Team Manager in support of resource's activities. The intent of these requirements is to select functional managers, capable of effectively managing and supervising the search component, in the urban disaster environment.

Required Training:

1. Complete all General Training requirements.
2. Complete FEMA GPS Awareness Level course, or equivalent
3. Complete ICS-300 in accordance with the NIMS Training Program
4. Complete the Cal OES, Regional Technical Search Specialist Course

-OR-

The FEMA Technical Search Specialist Course

5. Meet requirements of NFPA 1006 Rescue Technician Level 1 & 2 (Excluding Chapter 1 Administration: Section 1.3.3):
 - a. Job Performance Requirements – Chapter 5
 - b. Vehicle and Machinery Rescue – Chapter 10
6. Complete the required:
 - a. California State Fire Training, Firefighter 1, or equivalent training
 - b. California State Fire Training, Rope Rescue Operations
 - c. California State Fire Training, Structural Collapse Specialist 1
 - d. California State Fire Training, Confined Space Rescue Technician
 - e. California State Fire Training, Structural Collapse Specialist 2
 - f. California State Fire Training, Trench Rescue Technician
 - g. California State Fire Training, Rope Rescue Technician

NOTE: (For SFT courses that have been updated or changed, previous courses that have been taken may be historically recognized)

7. Current Certification as a California Emergency Medical Technician

Required Experience:

1. Shall have experience in technical or canine search operations to include but not limited to participation in field exercise(s) and SAR deployments or equivalent qualification as determined by the SA/AHJ
2. Shall have experience in structural collapse operations to include participation in field exercise(s) and/or a deployment as a Technical Search Specialist

Recommended Training:

1. California State Fire Training, River & Flood Water Rescue
2. FEMA Canine Search Specialist Course
3. FEMA Task Force Leaders' course, or equivalent
4. Complete FEMA GPS Operations Level course, or equivalent
5. Complete ICS-400; Advanced ICS

REGIONAL TASK FORCE LEADER

The Regional Task Force Leader is responsible for managing all aspects of a mission including operational and administrative issues from the time of activation through the return to the home jurisdiction. This includes all personnel and equipment resources as well as overseeing and directly supervising the task force management. The TFL is responsible for the development and completion of all task force tactical objectives as well as the proper reporting, record keeping, and after-action requirements. The TFL reports directly to one of the following:

1. Incident Commander, or
2. Operation Chief / Division Group Supervisor. or
3. The Incident Support Team (IST) Leader at a mission location

Description of Duties:

- Oversee the mobilization and movement activities of the task force
- Familiarity with task force operations, including search, rescue, medical, logistical, and hazardous materials decontamination procedures
- Developing and implementing the Task Force Tactical Action Plan
- Addressing the coordination, management, and supervision of all task force activities
- Ensuring the development of all task force organizational and logistical needs
- Receiving briefings and ensuring that all task force personnel are kept informed of mission objectives and status changes
- Providing regular situation reports to the IC, Division or Group Supervisor or the IST Leader
- Contacting the Cal OES AREP for assistance with problems encountered on the incident, including mechanical, operational, or logistical issues
- Performing additional task and duties, as assigned during a mission
- Adhering to all safety procedures
- Ensuring the completion of all the required reports and maintenance records
- Ensuring incident stress management activities are planned and conducted
- Ensuring resource acquisitions are properly processed
- Preparing performance evaluations- ICS-225 for assigned personnel
- Manage all demobilization and return to readiness issues

Position Requirements and Criteria:

Individuals who meet the following requirements and criteria will be eligible to deploy as a Task Force Leader in support of a resource's activities. The intent of these requirements is to select functional managers capable of effectively managing and supervising all aspect of the task force in the urban disaster environment.

The requirements and criteria for the Task Force Leader are as follows:

- A comprehensive knowledge of NIMS/ICS; the NRP; the California US&R Response Plan, and the FEMA, the organizational structure, operating procedures, safety practices, terminology, and communications protocols of both State & Federal systems.
- A comprehensive knowledge of the Task Force functions, and urban search and rescue operations, tactics, strategy, and safety considerations
- An understanding of other disaster response organization.
- Knowledge of available technology in support of US&R missions and objectives
- An awareness of the hazards associated with various disaster environments
- A knowledge of supervisory and personnel management techniques

Required Training:

1. Complete all General Training requirements
2. California State Fire Training, Firefighter 1, or equivalent training
3. Complete ICS-300 Intermediate ICS
4. Complete ICS-400 Advanced ICS
5. Complete FEMA GPS Awareness Level course, or equivalent
6. Complete the Cal OES, Regional US&R Task Force Leaders Course

-OR-

FEMA US&R Response System Task Force Leaders' course, or equivalent

7. Obtain CICCIS or NWCG Strike Team Leader Qualification or Certified Trainee.

Recommended Training:

1. Complete Cal OES, Technical Search Specialist Course
2. Complete a FEMA Structural Collapse Technician Course
3. Meet all requirements of Structural Collapse Technician as per NFPA 1670
4. Complete a FEMA Technical Search Specialist course, or equivalent
5. Complete a FEMA Planning Team Training course, or equivalent
6. Complete E/L 950: All Hazards Incident Commander Course or equivalent
7. Complete E/L 958: All Hazards Operations Section Chief Course or equivalent
8. Complete E/L 962: All Hazards Planning Section Chief Course or equivalent
9. Complete E/L 960: All Hazards Division/Group Supervisor Course or equivalent
10. California State Fire Training, Rope Rescue Operations

11. California State Fire Training, Structural Collapse Specialist 1
12. California State Fire Training, Confined Space Rescue Technician
13. California State Fire Training, Structural Collapse Specialist 2
14. California State Fire Training, Trench Rescue Technician
15. California State Fire Training, Rope Rescue Technician
16. California State Fire Training, River & Flood Water Rescue
17. Complete S-270: Basic Air Operations
18. Current Certification as a California Emergency Medical Technician

NOTE: (For SFT courses that have been updated or changed, previous courses that have been taken may be historically recognized)

REGIONAL TECHNICAL INFORMATION SPECIALIST

The Regional Technical Information Specialist is responsible for documenting, tracking, data transfer and retrieving all pertinent information for the Task Force during incident operations. The Technical Information Specialist reports directly to the Planning Team Manager or appropriate supervisor.

Description of Duties:

- Gathering requested information from all available sources and forwarding to the Planning Team Manager for incorporation in the planning function
- Transferring operational data generated from search & rescue operations to appropriate incident and task force managers
- Creating, displaying, providing, and compiling documentation for all pertinent Task Force and incident information via written, audio, and visual mediums
- Performing additional tasks or duties as assigned

Position Requirements and Criteria:

Individuals who meet the following requirements and criteria will be eligible to deploy as a Technical Information Specialist in support of the resource's activities. The intent of these requirements is to select personnel fully capable of providing competent information management for the task force in the urban disaster environment.

Required Training:

- Complete all general training requirements

Recommended Training:

1. California State Fire Training, Firefighter I or equivalent
2. Complete ICS-300 Intermediate ICS
3. Complete FEMA GPS Awareness Level course, or equivalent
4. Complete Cal OES, Technical Search Specialist Course

-OR-

Complete FEMA Technical Search Specialist Course

5. California State Fire Training, Rope Rescue Operations
6. California State Fire Training, Structural Collapse Specialist 1
7. California State Fire Training, Confined Space Rescue Technician
8. California State Fire Training, Structural Collapse Specialist 2
9. California State Fire Training, Trench Rescue Technician
10. Current Certification as a California Emergency Medical Technician or equivalent
11. Complete E/L 962: All Hazards Planning Section Chief Course or equivalent
12. Complete S-244: Field Observer
13. Complete S-341: GIS Specialist for Incident Management
14. Complete S-245: Display Processor
15. Complete a FEMA Planning Team Training course, or equivalent
16. Complete a FEMA Structural Collapse Technician Course
17. Complete G/E/L - 965 All Hazard Resource Unit Leader Course
18. Complete G/E/L - 964 All-Hazards Situation Unit Leader Course
19. Complete ICS-400 Advanced ICS
20. Complete the Cal OES, Regional US&R Task Force Leaders Course

-OR-

FEMA US&R Response System Task Force Leaders' course, or equivalent

REGIONAL TECHNICAL SEARCH SPECIALIST

The Regional Technical Search Specialist is responsible for performing the technical search function of the incident. The Technical Search Specialist reports directly to the Search Team Manager. The Technical Search Specialist may operate as a single resource or as assigned to a task force, as appropriate.

Description of Duties:

- Searching structures in US&R environments or other locations indicated in the mission assignment, utilizing appropriate technical search equipment and techniques
- Documenting and marking locations of victims, potential victims, and hazards
- Making assessments using technical search equipment
- Transfers search data to Technical Information Specialist or Plans Section personnel, as appropriate
- Land navigation, site mapping and GPS operations
- Cooperating with and assisting other search and rescue resources
- Providing accountability, maintenance, and minor repairs of all issued equipment
- Performing additional tasks or duties as assigned

Position Requirements and Criteria:

Individuals who meet the following requirements and criteria will be eligible to deploy as a Technical Search Specialist in support of Resource's activities. The intent of these requirements is to select competent personnel, fully capable of providing state-of-the-art search techniques and tactics required, in the urban disaster environment.

Required Training:

1. Complete all General Training requirements.
2. Complete the Cal OES Regional Technical Search Specialist Course

-OR-

The FEMA Technical Search Specialist course, or equivalent

3. Complete FEMA GPS Awareness Level course, or equivalent
4. Complete ICS-300 in accordance with the NIMS Training Program
5. Meet requirements of NFPA 1006 Rescue Technician Level 1 & 2 (Excluding Chapter 1 Administration: Section 1.3.3):
 - a. Job Performance Requirements – Chapter 5
 - b. Vehicle and Machinery Rescue – Chapter 10
6. Complete the required:
 - a. California State Fire Training, Firefighter 1 or equivalent
 - b. California State Fire Training, Rope Rescue Operations
 - c. California State Fire Training, Structural Collapse Specialist 1
 - d. California State Fire Training, Confined Space Rescue Technician
 - e. California State Fire Training, Structural Collapse Specialist 2
 - f. California State Fire Training, Trench Rescue Technician
 - g. California State Fire Training, Rope Rescue Technician

NOTE: (For SFT courses that have been updated or changed, previous courses that have been taken may be historically recognized)

7. Current Certification as a California Emergency Medical Technician

Required Experience:

1. Satisfactory performance as a California State Fire Training Firefighter 2 or equivalent

Recommended Training:

1. California State Fire Training, River & Flood Water Rescue
2. Complete NWCG GPS for Fire Management and ICS course or equivalent
3. Complete ICS-400; Advanced ICS
4. Complete a FEMA Canine Search Specialist course, or equivalent
5. Complete the Wide Area Search course

REGIONAL US&R PARAMEDIC

The Regional US&R Paramedic reports directly to the Task Force Leader or Rescue Team Manager as appropriate. The Regional US&R Paramedic is responsible for performing the medical function of the task force or for a single resource during incident operations.

Description of Duties:

- The general health considerations of and delivery of medical care to all single resource resources they are assigned to and/or task force personnel, victims, and search dogs, during disaster events
- Implementing the medical action plans specified by the incident.
- Accountability, maintenance, and minor repairs for all issued equipment
- Performing additional tasks or duties as assigned

Position Requirements and Criteria:

Individuals who meet the following requirements and criteria will be eligible to deploy as a US&R Paramedic in support of resource's activities. The intent of these requirements is to select personnel fully capable of providing medical care required by the incident or the task force in the urban disaster environment.

Required Training:

1. Complete all General Training requirements.
2. Complete FEMA GPS Awareness Level course, or equivalent
3. Meet requirements of NFPA 1006 Rescue Technician Level 1 & 2 (Excluding Chapter 1 Administration: Section 1.3.3):
 - a. Job Performance Requirements – Chapter 5
 - b. Vehicle and Machinery Rescue – Chapter 10
4. Complete the required:
 - a. California State Fire Training, Firefighter 1 or equivalent
 - b. California State Fire Training, Rope Rescue Operations
 - c. California State Fire Training, Structural Collapse Specialist 1
 - d. California State Fire Training, Confined Space Rescue Technician
 - e. California State Fire Training, Structural Collapse Specialist 2
 - f. California State Fire Training, Trench Rescue Technician
 - g. California State Fire Training, Rope Rescue Technician

NOTE: (For SFT courses that have been updated or changed, previous courses that have been taken may be historically recognized)

5. Current license as a California Paramedic (EMT-P)

Required Experience:

1. Satisfactory performance as a California State Fire Training Firefighter 2 or equivalent
2. At least 1 year as a licensed and operational paramedic in the field

Recommended Training:

1. Fireline EMPF(S-223)
2. S-270: Basic Air Operations
3. Cal OES, Technical Search Specialist Course
4. FEMA Medical Specialist Course
5. California State Fire Training, River & Flood Water Rescue

National US&R Response System Task Force Position Specific Requirements:

FEMA CANINE SEARCH SPECIALIST

Reports directly to the Search Manager. The US&R Canine Search Specialist is responsible for performing the canine search function of the incident. Responsibilities include searching collapsed structures, water, debris piles, land and mudslides, or fire areas as assigned, using appropriate search techniques and dog handler skills. The US&R Canine Search Specialist is responsible for documenting locations of alerts and estimating the status of victims and cooperating with and assisting other search and rescue resources:

Position Requirements and Criteria:

Individuals who meet the following requirements and criteria will be eligible to deploy as a Canine Search Specialist in support of Resource's activities. The intent of these requirements is to provide canine teams capable of using the search techniques and tactics required to support the Search function with the canine resource in various disaster environments.

Required Training:

1. Complete all General Training requirements.
1. Complete IS-33.XX FEMA Ethics Orientation annually ("XX" represents the current calendar year version) www.training.fema.gov/EMIWeb/IS
2. Have current certification as a FEMA Canine Search Specialist Team member, SUSAR Type I canine certification standard, or equivalent certification.
3. Complete the FEMA Canine Search Specialist course, or equivalent.
4. Complete the FEMA GPS Awareness Level course, or equivalent.
5. Complete the required Technical Rescue Skill Sets.

Recommended Training:

1. Complete the FEMA Technical Search Specialist course or equivalent.
2. Complete FEMA GPS Operations Level course or equivalent
3. Complete a canine emergency field care course

FEMA COMMUNICATIONS SPECIALIST

The Communications Specialist is responsible for managing, and maintaining, all communications and communications systems for the task force. The Communications Specialist reports directly to the Logistics Team Manager or appropriate supervisor.

Description of Duties:

- Keeping the Task Force Leader and Logistics Manager informed of the capabilities and/or limitations of incident communications
- Assessing overall communications needs, obtaining frequencies, and developing the Task Force Incident Communications Plan
- The installation, operation, and maintenance of the task force communications systems, including radio, satellite, telephone, internet, GPS, and networks during incidents
- Coordinating communications with other entities
- Adhering to all safety procedures
- Accountability, preventive maintenance, and minor repairs of communications equipment
- Maintaining appropriate records and reports
- Always maintaining the communications cache in an operational state
- Developing requests for replacement, or repair, for consumable, inoperative, lost, damaged, or destroyed communications items
- Develop a Task Force Communications Plan (ICS 205) as part of Tactical Action Plan
- Operate as an IST Communications Center Dispatcher

Position Requirements and Criteria:

Individuals who meet the following requirements and criteria will be eligible to deploy as a Communications Specialist in support of Resource's activities. The intent of these requirements is to select personnel capable of managing the communications needs of the task force in the disaster environment.

Required Training:

1. Complete all General Training requirement
2. Complete IS-33.XX FEMA Ethics Orientation annually ("XX" represents the current calendar year version) <http://www.training.fema.gov/EMIWeb/IS>
3. Complete FEMA GPS Awareness Level course, or equivalent
4. Complete FEMA Communications Specialist course or equivalent

Recommended Training:

1. Complete the DHS/OEC All Hazards Communications Unit Leader course
2. Complete the DHS/OEC All Hazards Communications Technician Course
3. FEMA US&R Communications Network Technician Workshop
4. S258 Communications Technician
5. S358 Communications Unit Leader
6. ITSS Information Technology Services Specialist
7. Advanced Communications Specialist Qualification (ACOM US&R)

FEMA HAZARDOUS MATERIALS SPECIALIST

The Hazardous Materials (Haz-Mat) Specialist is responsible for performing the various hazardous materials functions for the task force during incident operations. The Hazardous Materials Specialist reports directly to the Hazardous Materials Team Manager or other supervisor, as appropriate.

Description of Duties:

- Providing an initial and ongoing survey (detection, monitoring, and sampling) for, and identification of, the presence of hazardous materials at search and rescue sites
- Proficiency with the set up and use of the decontamination system and equipment
- Directing decontamination procedures for any task force member victim, canine, or equipment
- Performing minor mitigation operations
- Utilizing their technical expertise to advise Team Managers regarding all hazardous material issues in order to plan for tactical operations
- Document all related information regarding the incident
- Adhering to all safety procedures
- Properly utilizing the detection monitors and devices in the US&R cache
- Proficiency in donning and doffing all personnel protective equipment in the US&R cache
- Proficiency in building triage and US&R marking systems
- Working with Logistics Team personnel to establish and maintain a regular maintenance schedule for hazardous materials cache items requiring some, including calibration, battery charging, function tests, and field repair
- Performing regular assessments of the base of operations for hazardous conditions, such as carbon monoxide from generators, or any other contaminants
- Establishing and maintaining a liaison with hazardous materials personnel from other task forces
- Performing additional tasks or duties as assigned

Position Requirements and Criteria:

Individuals who meet the following requirements and criteria will be eligible to deploy as a Hazardous Materials Specialist in support of Resource's activities. The intent of these requirements is to select personnel fully capable of providing competent hazardous materials assessments and advice to Task Force personnel in the urban disaster environment.

Required Training:

1. Complete all General Training requirements.
2. Complete IS-33.XX FEMA Ethics Orientation annually ("XX" represents the current calendar year version) www.training.fema.gov/EMIWeb/IS
3. Meet and maintain the requirements as a certified Hazardous Materials Technician as per OSHA Standard 29 CFR 1910.120 Hazardous Waste Operations and Emergency Response
4. Meet and maintain the AHJ competencies in accordance with National Fire Protection Association standard 472 Standard for Professional Competence of Responders to Hazardous Materials Incidents to the level of Hazardous Materials Technician
5. Complete a WMD - Considerations for Hazardous Materials Specialist course
6. Complete all Technical Rescue Skill Set

Recommended Training:

1. Complete the Weapons of Mass Destruction Radiological/Nuclear for Hazardous Materials Technician (Course PER-241), U.S. Department of Energy National Security Administration Nevada Test Site.
2. Complete the WMD Hazardous Materials Technician Training (HT) (Course PER 261), Centers for Domestic Preparedness, Anniston Alabama.
3. Complete Task Force water purification system training
4. Complete Hazardous materials CONOP training

FEMA HAZARDOUS MATERIALS TEAM MANAGER

The Hazardous Materials Team Manager is responsible for managing the Hazardous materials functions of the task force and supervising the Hazardous Materials Specialists of the Task Force. The Hazardous Materials Team Manager reports directly to the Task Force Leader.

Description of Duties:

- Developing and implementing the Haz-Mat component of the Task Force Tactical Action Plan
- Coordinating, managing, and supervising all Haz-Mat activities
- Providing input in the development of the site safety plan in cooperation with Medical Team Manager and Safety Officers
- Determining Haz-Mat organizational and logistical needs

- Receiving briefings and situation reports and ensuring that all Haz-Mat personnel are kept informed of mission objectives and status changes
- Providing situation updates and maintaining records and reports
- Providing accountability, maintenance, and minor repairs for all issued equipment
- Possessing knowledge of the practical application of available (detection, PPE, and decontamination) technology used to support US&R missions and objectives

Position Requirements and Criteria:

Individuals who meet the following requirements and criteria will be eligible to deploy as a Hazardous Materials Managers in support of Resource's activities. The intent of these requirements is to select functional managers capable of effectively managing and supervising the Haz-Mat component in the urban disaster environment.

Required Training:

1. Complete all General Training requirements.
2. Complete IS-33.XX FEMA Ethics Orientation annually ("XX" represents the current calendar year version) www.training.fema.gov/EMIWeb/IS
3. Meet and maintain the requirements as a certified Hazardous Materials Technician as per OSHA Standard 29 CFR 1910.120 Hazardous Waste Operations and Emergency Response
4. Meet and maintain the AHJ competencies in accordance with National Fire Protection Association standard 472 Standard for Professional Competence of Responders to Hazardous Materials Incidents to the level of Hazardous Materials Technician
5. Complete the FEMA WMD Considerations for Hazardous Materials Specialist course
6. Complete FEMA GPS Awareness Level course or equivalent
7. Complete all Technical Rescue Skill Sets.

Recommended Training:

1. Complete the Weapons of Mass Destruction Radiological/Nuclear for Hazardous Materials Technician (Course PER-241), U.S. Department of Energy National Security Administration Nevada Test Site.
2. Complete the WMD Hazardous Materials Technician Training (HT) Course (PER 261), Center for Domestic Preparedness.
3. Complete FEMA GPS Operations Level course or equivalent
4. Complete ICS 300 in accordance with the NIMS Training Program.
5. Complete NIMS IS-703 Resource Management course in accordance with the NIMS Training Program

FEMA HEAVY EQUIPMENT & RIGGING SPECIALIST

The Heavy Equipment and Rigging Specialist is responsible for performing various assessments and construction-related liaison for the task force during incident operations. The Heavy Equipment and Rigging Specialist reports directly to the Rescue Team Manager.

Position Requirements and Criteria:

Individuals who meet the following requirements and criteria will be eligible to deploy as a Heavy Equipment & Rigging Specialist in support of Resource's activities. The intent of these requirements is to select personnel fully capable of providing competent assessments and advice to task force personnel in the urban disaster environment.

Description of Duties:

- Ensuring the safety of Task Force members by assessing hazards at disaster sites pertaining to the positioning and operations of cranes and other heavy equipment
- Assessing the need for and capabilities of several types of construction-related equipment to assist task force personnel in US&R activities
- Preparing site for and assisting with positioning and setup of cranes and other heavy equipment
- Identifying various rigging techniques to assist in the rescue of victims or stabilization of collapsed buildings, including the development of rigging plans and procedure
- Interacting with and coordinating efforts between the task force personnel and heavy equipment operators, contractors, and organized labor
- Adhering to all safety procedures
- Providing documentation to assist Task Force in procuring cranes and other heavy equipment, as well as maintaining daily logs
- Providing accountability, maintenance, and minor repairs for all issued equipment
- Performing additional tasks or duties as assigned

Required Training:

1. Complete all General Training requirements
2. Complete IS-33.XX FEMA Ethics Orientation annually ("XX" represents the current calendar year version) www.training.fema.gov/EMIWeb/IS
3. Complete the FEMA Heavy Equipment and Rigging Specialist course or equivalent

Additional Specific Requirements:

1. Experience in the heavy construction field, such as heavy equipment operator, crane operator, iron worker, rigger, or another applicable field

OR

2. A minimum of three years of experience as a Rescue Specialist on a Task Force

Recommended Training:

1. Complete all Technical Rescue Skill Sets as defined in general training requirements unless qualified as a Rescue Specialist
2. Complete FEMA Structural Collapse Technician training course or equivalent

FEMA LOGISTICS SPECIALIST

The Logistics Specialist is responsible for ensuring the preparation and maintenance of the task force equipment cache. The Logistics Specialist reports directly to the Logistics Team Manager.

Description of Duties:

- Coordinating the packaging, transporting, distribution, and maintenance of the Task Force equipment cache prior, during, and after mission assignments
- Coordinating with military and/or civilian officials for transportation needs
- Procuring equipment as directed by the Logistics Team Manager
- Ensuring accountability and security of the task force equipment cache
- Maintaining accurate and timely records and reports
- Adhering to all safety procedures
- Maintains and repairs the task force equipment cache
- Assist with over-all management of task force facilities and fleet
- Coordinate and direct Support Specialists (when staffed)
- Performing additional tasks or duties as assigned

Position Requirements and Criteria:

Individuals who meet the following requirements and criteria will be eligible to deploy as a Logistics Specialist in support of Resource's activities. The intent of these requirements is to select personnel capable of managing the logistics needs of the Task Force in the urban disaster environment.

Required Training:

1. Complete all General Training requirements.
2. Complete IS-33.XX FEMA Ethics Orientation annually ("XX" represents the current calendar year version) <http://www.training.fema.gov/EMIWeb/IS>
3. Complete FEMA GPS Awareness Level course or equivalent

4. Complete the FEMA Logistics Specialist course, or equivalent
5. Complete OSHA 29 CFR 1910.178 (forklift training) course
6. Complete a DOT Hazardous Materials Handler/Packer/Labeler course as established by 49 CFR, Part 172.704

Recommended Training:

1. Complete Ordering Manager course (J-252)
2. Complete Receiving and Distribution Manager course (J-253)
3. Complete Base Camp Manager course (J-254)
4. Complete Equipment Manager course (J-255)
5. Complete Security Manager course (J-259)
6. Complete and maintain certification as a Certifying Official for Transportation Requirements and Regulations – Air and Ground
 - a) IATA
 - b) Title 49 CFR
 - c) AFMAN 24-204

FEMA LOGISTICS MANAGER

The Logistics Team Manager is responsible for the logistics function of the Urban Search and Rescue Task Force and supervising the Task Force Logistics Specialist, Communications Specialist, Support Specialist, and other personnel as assigned. The Logistics Team Manager reports directly to the Task Force Leader.

Description of Duties:

- All duties and responsibilities of the Logistics Specialist
- Completion of all Task Force Transportation documents (cargo manifests, shipping declarations, bills of lading, etc.)
- Coordinating, managing, and supervising all logistical activities
- Maintaining accurate and timely records and reports
- Preparing performance evaluations for assigned personnel
- Ensuring accountability, maintenance, and repairs for all task force equipment
- Provide for operation and maintenance for all facilities and associated equipment
- Coordinate with IST Logistics Section on task force issues
- Management of task force transportation fleet
- Performing additional tasks or duties as assigned

Position Requirements and Criteria:

Individuals who meet the following requirements and criteria will be eligible to deploy as a Logistics Team Manager in support of Resource's activities. The intent of these requirements is to select functional managers capable of effectively managing and supervising the logistical component in the urban disaster environment.

Required Training:

1. Complete all General Training requirements.
2. Complete IS-33.XX FEMA Ethics Orientation annually ("XX" represents the current calendar year version) www.training.fema.gov/EMIWeb/IS
3. Complete FEMA GPS Awareness Level course or equivalent
4. Complete the FEMA Logistics Specialist course or equivalent
5. Complete OSHA 29 CFR 1910.178 (forklift training) course
6. Complete a DOT Hazardous Materials Handler/Packer/Labeler course as established by 49 CFR, Part 172.704
6. Complete and maintain certification, as appropriate or required by the AHJ, as a Certifying Official for Transportation Requirements and Regulations – Air and Ground.
 - a) IATA
 - b) Title 49 CFR
 - c) AFMAN 24 – 204

Recommended Training:

1. Complete Ordering Manager course (J-252)
2. Complete Receiving and Distribution Manager course (J-253)
3. Complete Base Camp Manager course (J-254)
4. Complete Equipment Manager course (J-255)
5. Complete Security Manager course (J-259)
6. Complete Facility Unit Leader (S-354)
7. Complete Ground Support Unit Leader (S-355)
8. Complete Supply Unit Leader (S-356)
9. Complete Food Unit Leader (S-357)
10. Complete Federal Property Custodial Officer
11. Complete NWCG All-Hazards Logistics Section Chief course or equivalent

FEMA MEDICAL SPECIALIST

The Medical Specialist is responsible for performing the medical function of the task force incident operation. The Medical Specialist reports directly to the Medical Team Manager

Description of Duties:

- The general health considerations of and delivery of medical care to all task force personnel, victims, and search dogs, while under the supervision of the Medical Team Manager, during disaster events
- Implementing the medical action plans specified by the Medical Team Manager
- Accountability, maintenance, and minor repairs for all issued equipment
- Performing additional tasks or duties as assigned

Position Requirements and Criteria:

Individuals who meet the following requirements and criteria will be eligible to deploy as a Medical Specialist in support of Resource's activities. The intent of these requirements is to select personnel fully capable of providing medical care required by the task force in the urban disaster environment.

Required Training:

1. Complete all General Training requirements.
2. Complete IS-33.XX FEMA Ethics Orientation annually ("XX" represents the current calendar year version) www.training.fema.gov/EMIWeb/IS29T
3. Be currently certified / licensed as an EMT-Paramedic and have met all the requirements in their local jurisdiction. Must be actively participating in pre-hospital care.

-OR-

Be currently certified / licensed as a Physician Assistant, Registered Nurse-Practitioner or Registered Nurse who is currently certified / licensed as a Physician Assistant, Registered Nurse-Practitioner or Registered Nurse – certified within an accredited organization or municipality and meets the National Registry of Emergency Medical Technician – Paramedic Standards or State certification requirements and actively practices advanced pre-hospital life support. Must be certified and maintain the following, BTLS, ACLS, and PALS regimens (or equivalent).

4. Complete the FEMA Medical Team Training course or equivalent
5. Complete the FEMA WMD Considerations for The Medical Team course or equivalent
6. Complete the Technical Rescue Skill Sets.

Recommended Training:

1. Completed a canine emergency medical course

FEMA MEDICAL TEAM MANAGER

The Medical Team Manager has overall responsibility for the management and supervision of the medical function of the task force during incident operations. The Medical Team Manager reports directly to the Task Force Leader.

Description of Duties:

- Developing and implementing the medical component of the Task Force Tactical Action Plan
- Directly supervising the Medical Specialists
- Assisting in the development of the safety plan in coordination with the Task Force Safety Officer and Task Force Hazardous Materials Manager
- Coordinating, managing, and supervising of all medical activities

- Determining the medical organizational and logistics needs
- Receiving briefings and situation reports and ensuring that all medical personnel are kept informed of status changes
- Responsible for providing situation reports and maintaining records and reports
- Directing medical care delivery to task force personnel, search dogs, and victims
- Ensuring a continuum of medical care and coordinating interaction with all appropriate outside medical entities
- Ensuring accountability, maintenance, and minor repairs for all issued equipment
- Performing additional tasks or duties as assigned

Position Requirements and Criteria:

Individuals who meet the following requirements and criteria will be eligible to deploy as a Medical Team Manager in support of Resource's activities. The intent of these requirements is to select functional managers capable of effectively managing, coordinating, and supervising the medical component in the urban disaster environment.

Required Training:

1. Complete all General Training requirements.
2. Complete IS-33.XX FEMA Ethics Orientation annually ("XX" represents the current calendar year version) www.training.fema.gov/EMIWeb/IS29T
3. Must be a licensed physician who is emergency medicine residency-trained and/or Board-certified in emergency medicine and actively practicing clinical emergency Medicine and having experience with pre-hospital medical care

-OR-

Must be currently licensed Physician with current ACLS, ATLS and PALS certification (or equivalent) whose medical activities include clinical medicine and or pre-hospital care

4. Complete the FEMA Medical Team Training course or equivalent

Recommended Training:

1. Complete the FEMA WMD considerations for The Medical Team course
2. Completed a canine emergency medicine course
3. Complete Technical Rescue Skill Sets.
4. Complete ICS-300 in accordance with the NIMS Training Program
5. Complete ICS- 400 in accordance with the NIMS Training Program

FEMA PLANNING TEAM MANAGER

The Task Force Planning Team Manager is responsible for planning aspects of the Task Force during incident operations. The Planning Team Manager supervises the Structures Specialist and Technical Information Specialist. The Planning Team Manager reports directly to the Task Force Leader.

Description of Duties:

- Developing and implementing the planning components of the Task Force Tactical Action Plan
- Coordinating, managing, and supervising all planning component activities
- Determining the planning component organizational and logistics needs
- Receiving briefings and situation reports and ensures that all planning personnel are kept informed of status changes
- Providing situation reports and maintaining records and reports
- Preparing performance evaluations for assigned personnel
- Providing accountability, maintenance, and minor repairs for all Planning Team equipment
- Performing additional tasks or duties as assigned

Position Requirements and Criteria:

Individuals who meet the following requirements and criteria will be eligible to deploy as a Planning Team Manager in support of Resource's activities. The intent of these requirements is to select functional managers capable of effectively managing and supervising the planning component in the urban disaster environment.

Required Training:

1. Complete all General Training requirements.
2. Complete IS-33.XX FEMA Ethics Orientation annually ("XX" represents the current calendar year version) www.training.fema.gov/EMIWeb/IS29T
3. Complete ICS-300 in accordance with the NIMS Training Program
4. Complete FEMA Planning Team Training course or equivalent

Recommended Training:

1. Complete FEMA US&R Task Force Leaders course or equivalent
2. Complete the NWCG All-Hazards Planning Section Chief course or equivalent
3. Complete Wide Area Search course
4. Complete Situation Unit Leader course
5. Complete Resource Unit Leader course
6. Complete Documentation Unit Leader course
7. Complete and Demobilization Unit Leader course.

FEMA RESCUE SPECIALIST

The Rescue Specialist is responsible for performing the rescue function of the Task Force incident operation. The Rescue Specialist reports directly to a Rescue Squad Officer.

Description of Duties:

- Implementing technical skills and operating equipment necessary for completing the rescue portion of the action plan
- Performing rescue operations under the direct supervision of a Rescue Squad Officer and providing periodic progress reports as needed
- The operation and routine field maintenance of rescue tools and equipment
- Ensuring accountability and maintenance for all issued equipment
- Evaluating and modifying rescue tactics as needed
- Performing additional tasks or duties as assigned

Position Requirements and Criteria:

Individuals who meet the following requirements and criteria will be eligible to deploy as a Rescue Specialist in support of Resource's activities. The intent of these requirements is to select personnel fully capable of providing the rescue tactics and techniques required in a disaster environment.

Required Training:

1. Complete all General Training requirements
2. Complete IS-33.XX FEMA Ethics Orientation annually ("XX" represents the current calendar year version) www.training.fema.gov/EMIWeb/IS29T
3. Complete FEMA GPS Awareness Level course, or equivalent
4. Meet requirements of NFPA 1006 Rescue Technician Level 1 & 2 (Excluding Chapter 1 Administration: Section 1.3.3):
 - a) Job Performance Requirements – Chapter 5
 - b) Rope Rescue Level 1 & 2 – Chapter 6
 - c) Confined Space Rescue Level 1 & 2 – Chapter 7
 - d) Trench Rescue Level 1 & 2 – Chapter 8
 - e) Vehicle and Machinery Rescue – Chapter 10
 - f) Surface Water Rescue – Chapter 11
5. Complete the FEMA Structural Collapse Technician course or equivalent
6. Current Certification as a California Emergency Medical Technician or equivalent

FEMA RESCUE SQUAD OFFICER

The Rescue Squad Officer is responsible for supervising one or more Task Force Rescue Squad(s). The Rescue Squad Officer reports directly to the Rescue Team Manager.

Description of Duties:

- Directly supervising Rescue Squad(s) and other assigned personnel
- Implementing the rescue component of the Task Force Tactical Action Plan
- Determining organizational and logistical needs for the Rescue Squad(s) and work site
- Providing periodic progress reports to the Rescue Team Manager
- Maintaining records and reports
- Preparing performance evaluations for assigned personnel
- Ensuring accountability and maintenance for all issued equipment
- Evaluating and modifying rescue tactics as needed

Position Requirements and Criteria:

Individuals who meet the following requirements and criteria will be eligible to deploy as a Rescue Squad Officer in support of Resource's activities. The intent of these requirements is to select functional officers capable of effectively managing and supervising the Rescue Squad(s) and assigned personnel in the urban disaster environment.

Required Training:

1. Complete all General Training requirements
2. Complete IS-33.XX FEMA Ethics Orientation annually ("XX" represents the current calendar year version) www.training.fema.gov/EMIWeb/IS31T
3. Complete FEMA GPS Awareness Level course or equivalent
4. Meet requirements of NFPA 1006 (2008) Rescue Technician Level 1 & 2 (Excluding Chapter 1 Administration: Section 1.3.3):
 - a) Job Performance Requirements – Chapter 5
 - b) Rope Rescue Level 1 & 2 – Chapter 6
 - c) Confined Space Rescue Level 1 & 2 – Chapter 7
 - d) Trench Rescue Level 1 & 2 – Chapter 8
 - e) Vehicle and Machinery Rescue – Chapter 10
 - f) Surface Water Rescue – Chapter 11
5. Complete the FEMA Structural Collapse Technician course, or equivalent
6. Current Certification in Basic First aid for First Responder or equivalent
7. Shall have experience in structural collapse operations to include participation in field exercise(s) and/or a deployment as a Rescue Specialist

Recommended Training:

1. Complete the FEMA GPS Operations Level course
2. Complete ICS-300 in accordance with the National Standard Curriculum Training
3. Complete the FEMA Rescue Officers course

FEMA RESCUE TEAM MANAGER

Reports directly to the US&R Task Force Leader. Is responsible for managing US&R Rescue Operations and supervising assigned resources:

- Assisting in the development and implementation of the Task Force Tactical Action Plan
- Coordinating, managing, and supervising all functional groups involved in rescue activities
- Determining rescue organizational and logistical needs
- Receiving briefings and situation reports and ensuring that all rescue personnel are kept informed of mission objectives and status changes
- Providing situation updates and maintaining records and reports
- Preparing performance evaluations for assigned personnel
- Ensuring accountability and maintenance for all issued equipment
- Ensuring accountability of all assigned personnel
- Provide a mission specific Rapid Intervention Plan including personnel & equipment needs
- Performing additional tasks or duties as assigned

Position Requirements and Criteria:

Individuals who meet the following requirements and criteria will be eligible to deploy as a Rescue Team Manager in support of Resource's activities. The intent of these requirements is to select functional managers capable of effectively managing and supervising rescue operations in the urban disaster environment

Required Training:

1. Complete all General Training requirements
2. Complete IS-33.XX FEMA Ethics Orientation annually ("XX" represents the current calendar year version) www.training.fema.gov/EMIWeb/IS
3. Complete FEMA GPS Awareness Level course, or equivalent
4. Meet requirements of NFPA 1006 Rescue Technician Level 1 & 2 (Excluding Chapter 1 Administration: Section 1.3.3)
 - a) Job Performance Requirements – Chapter 5
 - b) Rope Rescue Level 1 & 2 – Chapter 6
 - c) Confined Space Rescue Level 1 & 2 – Chapter 7
 - d) Trench Rescue Level 1 & 2 – Chapter 8
 - e) Vehicle and Machinery Rescue – Chapter 10
 - f) Surface Water Rescue – Chapter 11
5. Meets current Training Program Administration Manual.
6. Current Certification in California Emergency Medical Technician
7. Shall have experience in structural collapse operations to include participation in field exercises and/or a deployment as a Rescue Specialist

Recommended Training:

1. Complete ICS-400 in accordance with the NIMS Training Program
2. Complete FEMA Disaster Search Planning & Management Course
3. Complete FEMA GPS Operations Level course
4. Complete the FEMA Rescue Officers Course

FEMA SAFETY OFFICER

The Task Force Safety Officer is responsible for monitoring and assessing the safety aspects of the task force during training, exercises, and incident operations. The Task Force Safety Officer reports directly to the Task Force Leader.

Description of Duties:

- Overseeing all health and safety of all task force personnel during day-to-day operations, training, and exercises as well as on deployment
- Coordinating with task force Team Managers relative to the health, welfare, and safe operations of their assigned personnel
- Preventing injuries and illness of task force members through appropriate administrative and engineering controls of hazards including enforcement of safety policies and procedures
- Conduct site safety analysis, complete required ICS documents for IAP/TAP, develop safety messages and conduct safety briefings
- Work with Task Force Team Managers to establish acceptable entry conditions and appropriate personal protective equipment to be worn by personnel entering the hazard zone
- Establish and enforce the use of a personnel accountability system to be used during training, exercises, and actual disaster deployments
- Immediate intervention of activities to prevent the loss of life and prevention of injuries
- Conduct incident/accident investigations with appropriate task force personnel under the direction of the Task Force Leader. Prepare post incident injury reports and submit them to the Task Force Leader
- Preparing and maintaining entry permits, records, and reports
- Performing additional tasks or duties as assigned

Position Requirements and Criteria:

Individuals who meet the following requirements and criteria will be eligible to deploy as a (Task Force) Safety Officer in support of Resource's activities. The intent of these requirements is to select functional managers capable of effectively managing and supervising the safety function in the urban disaster environment.

Required Training:

1. Complete all General Training requirements.
2. Complete IS-33.XX FEMA Ethics Orientation annually ("XX" represents the current calendar year version) www.training.fema.gov/EMIWeb/IS
3. Complete FEMA GPS Awareness Level course, or equivalent
4. Complete ICS-300 in accordance with the NIMS Training Program
5. Complete FEMA US&R Safety Officer course, or equivalent
6. Meet requirements of NFPA 1006 Rescue Technician Level 1 & 2 (Excluding Chapter Administration: Section 1.3.3):
 - a) Job Performance Requirements – Chapter 5
 - b) Rope Rescue Level 1 & 2 – Chapter 6
 - c) Confined Space Rescue Level 1 & 2 – Chapter 7
 - d) Trench Rescue Level 1 & 2– Chapter 8
 - e) Vehicle and Machinery Rescue – Chapter 10
 - f) Surface Water Rescue – Chapter - 11
7. Complete the FEMA Structural Collapse Technician course or equivalent.
8. Current Certification in Basic First aid for First Responder or equivalent

FEMA SEARCH TEAM MANAGER

The Search Team Manager is responsible for managing the search function of the task force or the search element during a US&R or technical rescue incident. The Search Team Manager supervises the Technical Search Specialists assigned and may supervise the Canine Search Specialists. The Search Team Manager reports directly to the Task Force Leader.

Description of Duties:

- Developing and implementing the search component of the Task Force Tactical Action Plan
- Coordinating, managing, and supervising all search and reconnaissance activities
- Participating in the oversight, administrative and operational control of the development, implementation, and operational aspects of search component training (Canine Search Specialists, Technical Search Specialists and Search Managers)
- Participating in the Canine Search Specialist evaluation process at the task force level
- Providing research and development input at the task force level for the implementation and evaluation of modern technologies, equipment, tactics, and skills as they pertain to the search component
- Land navigation and site mapping
- Determining search and reconnaissance operational, organizational, and logistical needs
- Ensuring that all assigned personnel are kept informed of mission objectives and status changes to include briefings and debriefings

- Preparing performance evaluations for assigned personnel
- Provides situation updates, documents, and maintains records and reports
- Providing oversight for accountability, maintenance, and minor repairs for all issued/assigned equipment
- Performing additional tasks or duties as assigned

Position Requirements and Criteria:

Individuals who meet the following requirements and criteria will be eligible to deploy as a Search Manager in support of Resource's activities. The intent of these requirements is to select functional managers, capable of effectively managing and supervising the search component, in the urban disaster environment.

Required Training:

1. Complete all General Training requirements.
2. Complete the FEMA Technical Search Specialist course, or equivalent
3. Complete the FEMA Canine Search Specialist course, or equivalent
4. Shall have experience in technical or canine search operations to include but not limited to participation in field exercise(s) and SAR deployments or equivalent qualification as determined by the SA/AHJ

Recommended Training:

1. Complete the FEMA Structural Collapse Technician course, or equivalent
2. Complete the FEMA Task Force Leaders' course
3. Complete the FEMA Planning Team Training course
4. Complete the FEMA GPS/Land Navigation Technician Course
5. Complete a canine emergency field care course
6. Meet requirements of NFPA 1006 Rescue Technician Level 1 & 2 (Excluding Chapter 1 Administration: Section 1.3.3):
 - a) Job Performance Requirements – Chapter 5
 - b) Rope Rescue Level 1 & 2 – Chapter 6
 - c) Confined Space Rescue Level 1 & 2 – Chapter 7
 - d) Trench Rescue Level 1 & 2– Chapter 8
 - e) Vehicle and Machinery Rescue – Chapter 10
 - f) Surface Water Rescue Level 1 & 2– Chapter 11
7. Complete ICS-300
8. Complete all Technical Rescue Skill Sets.

FEMA STRUCTURES SPECIALIST (StS)

The Structures Specialist is responsible for performing the various structural assessments for the task force during incident operations. The Structures Specialist reports directly to the Planning Team Manager.

Description of Duties:

- Assessing the structural condition within the area of task force operations, which includes identifying structure types and specific damage and structural hazards
- Recommending the appropriate type and amount of structural hazard mitigation to minimize risks to task force personnel
- Provide input necessary to the development of task force tactical action plans
- Cooperating with and assisting other search and rescue resources
- Providing accountability, maintenance, and minor repairs for all issued equipment
- Performing additional tasks or duties as assigned during a mission
- Monitoring assigned structure for condition changes while rescue and recovery operations are proceeding
- Assuming an active role in implementing approved structural hazard mitigation as a designer, inspector, and possibly a supervisor
- Coordinating and communicating the structural related hazard mitigation
- Performing additional tasks or duties as assigned

Position Requirements and Criteria:

Individuals who meet the following requirements and criteria will be eligible to deploy as a Structures Specialist in support of Resource's activities. The intent of these requirements is to select personnel fully capable of providing competent assessments and advice to task force personnel in the urban disaster environment.

Required Training:

1. Complete all General Training requirements.
2. Complete FEMA GPS Awareness Level course, or equivalent
3. Complete the FEMA USACE Structures Specialist Training (StS-1) course
4. Complete all Technical Rescue Skill Sets

Additional Specific Requirements:

1. Be currently licensed as a Professional Engineer; specialization in structures or equivalent as sanctioned by the FEMA US&R Structures Sub-Group
– and –
2. Have a minimum of 5 years of experience in structure design and analysis to include evaluation of existing structures, field investigation or construction observation experience

The criteria for qualifying as Equivalent to a P.E. are as follows:

- Graduation with B.S. in Civil Engineering (or similar curriculum) from a College or University recognized by a State Licensing Board
- Five years of experience in any phase of Structural Engineering including the teaching of subjects pertaining to Structures, Structural Safety and Structural Collapse

- Individuals, who are licensed as Architects by any State may be considered as having equivalent certification, based on their qualifications and the above

Recommended Training:

1. Complete FEMA Structural Collapse Technician course (except for SCT01c), or equivalent
2. Complete FEMA Planning Team Training course, or equivalent
3. Completion of FEMA /USACE Structures Specialist Training (StS-2) every 5 Years.
4. Completion of USACE StS Regional Training every 2 years

FEMA US&R TASK FORCE LEADER

The US&R Task Force Leader is responsible for managing all aspects of a mission including operational and administrative issues from the time of activation through the return to the home jurisdiction. This includes all personnel and equipment resources as well as overseeing and directly supervising the task force management. The TFL is responsible for the development and completion of all task force tactical objectives as well as the proper reporting, record keeping, and after-action requirements. The TFL reports directly to:

- Incident Commander
- The Incident Support Team (IST) Leader at a mission location.
- Operation Chief / Division Group Supervisor

Description of Duties:

- Developing and implementing the Task Force Tactical Plan
- Addressing the management, and supervision of all task force activities
- Ensuring the development of all task force organizational and logistical needs
- Interacting with the IST Leader and his/her designee for coordination of all task force activities and support requirements
- Receiving briefings and ensuring that all task force personnel are kept informed of mission objectives and status changes
- Providing regular situation reports to the IST
- Performing additional tasks and duties, as assigned during a mission
- Adhering to all safety procedures
- Ensuring the completion of all the required reports and maintenance of records
- Ensuring incident stress management activities are planned and conducted
- Ensuring resource acquisitions are properly processed
- Preparing performance evaluations ICS #226 for assigned personnel
- Manage all demobilization and return to readiness issues

Position Requirements and Criteria:

Individuals who meet the following requirements and criteria will be eligible to deploy as a Task Force Leader in support of Resource's activities. The intent of these requirements is to select functional managers capable of effectively managing and supervising all aspect of the task force in the urban disaster environment.

The requirements and criteria for the Task Force Leader are as follows:

- A comprehensive knowledge of NIMS/ICS; the NRP; the California US&R Response Plan, and the FEMA , the organizational structure, operating procedures, safety practices, terminology, and communications protocols of both State & Federal systems.
- A comprehensive knowledge of the Task Force functions, and urban search and rescue operations, tactics, strategy, and safety considerations
- An understanding of other disaster response organizations
- Knowledge of available technology used in support of US&R missions and objectives
- An awareness of the hazards associated with various disaster environments
- A knowledge of supervisory and personnel management techniques

The TFL should:

- Be competent in the development and use of integrated action planning concepts and processes
- Be competent in emergency incident management
- Be competent at developing and maintaining interpersonal relations
- Possess the interpersonal skills to manage the assigned personnel and lead the task force to the accomplishment of the stated mission objectives
- Be a competent planner and organizer
- Be capable of effectively coordinating and directing multiple functions of the Task Force during mission assignment
- Be able to be flexible, to improvise, to share information, resolve conflicts, and solve problems
- Be able to effectively communicate orally and in writing
- Possess good interagency coordination skills and work well with various technical components and other organizations
- Can lead in a stressful disaster environment with limited resources
- Can follow directions and carry out duties without supervision

Required Training:

1. Complete all General Training requirements.
2. Complete ICS-300 and ICS-400 in accordance with NIMS
3. Meet current FEMA Task Force Leaders' course, or equivalent

FEMA TECHNICAL INFORMATION SPECIALIST

The Technical Information Specialist is responsible for documenting, tracking, and retrieving all pertinent information for the Task Force during incident operations. The Technical Information Specialist reports directly to the Planning Team Manager or appropriate supervisor.

Description of Duties:

- Gathering requested information from all available sources and forwarding to the
- Planning Team Manager for incorporation in the planning function
- Creating, displaying, providing, and compiling documentation for all pertinent Task Force and incident information via written, audio, and visual mediums
- Providing accountability, maintenance, and minor repairs for all Planning Team equipment
- Performing additional tasks or duties as assigned

Position Requirements and Criteria:

Individuals who meet the following requirements and criteria will be eligible to deploy as a Technical Information Specialist in support of Resource's activities. The intent of these requirements is to select personnel fully capable of providing competent information management for the task force in the urban disaster environment.

Required Training:

1. Complete all General Training requirements.
2. Complete the FEMA Planning Team Training course, or equivalent

Recommended Training:

1. Complete ICS-300 in accordance with the NIMS Training Plan

FEMA TECHNICAL SEARCH SPECIALIST

The Technical Search Specialist is responsible for performing the technical search function of the incident. The Technical Search Specialist reports directly to the Search Manager. The Technical Search Specialist may operate as a single resource or as assigned to a single resource, as appropriate.

Description of Duties:

- Searching structures in US&R environments or other locations indicated in the mission assignment, utilizing appropriate technical search equipment and techniques
- Documenting and marking locations of victims, potential victims, and hazards
- Making assessments using technical search equipment
- Land navigation and site mapping
- Cooperating with and assisting other search and rescue resources

- Providing accountability, maintenance, and minor repairs of all issued equipment
- Performing additional tasks or duties as assigned

Position Requirements and Criteria:

Individuals who meet the following requirements and criteria will be eligible to deploy as a Technical Search Specialist in support of Resource's activities. The intent of these requirements is to select competent personnel, fully capable of providing state-of-the-art search techniques and tactics required, in the urban disaster environment.

Required Training:

1. Complete all General Training requirements.
2. Complete the FEMA Technical Search Specialist course, or equivalent
3. Complete all Technical Rescue Skill Sets
4. Complete the FEMA Structural Collapse Technician course or FEMA approved equivalent

Recommended Training:

1. Complete a FEMA Canine Search Specialist course, or equivalent
2. Complete the FEMA Search Planning & Management course
3. Complete a canine emergency field care course
4. Meet requirements of NFPA 1006 Technical Rescuer Level 1 & 2 (Excluding Chapter 1 Administration: Section 1.3.3):
 - a) Job Performance Requirements – Chapter 5
 - b) Rope Rescue Level 1 & 2 – Chapter 6
 - c) Confined Space Rescue Level 1 & 2 – Chapter 7
 - d) Trench Rescue Level 1 & 2– Chapter 8
 - e) Vehicle and Machinery Rescue – Chapter 10
 - f) Surface Water Rescue Level 1 & 2– Chapter 11

FEMA WATER RESCUE SPECIALIST

The Water Rescue Specialist is responsible for performing water operations of the task force incident operation. The Water Rescue Specialist reports directly to a Rescue Squad Officer.

Description of Duties:

- Implementing technical skills and operating equipment necessary for completing the water rescue portion of the action plan in a safe manner
- Performing supervised water operations and providing periodic progress reports as needed
- Operating and performing routine field maintenance of watercraft and equipment
- Ensuring accountability and maintenance for all issued equipment
- Performing additional tasks or duties as assigned
- Evaluating and modifying water operational tactics as needed

Position Requirements and Criteria:

Individuals who meet the following requirements and criteria will be eligible to become Water Rescue Specialists in the National US&R Response System. The intent of these requirements is to select personnel who are fully capable of providing the water operational tactics and techniques required in a disaster environment.

Required Training:

- Complete all administrative and general training requirements
- Complete the FEMA GPS / Land Navigation Operations Course, or equivalent.
- Chapter 5: Job Performance Requirements
- Chapter 6: Rope Rescue (Levels 1 & 2)
- Chapter 11: Surface Water Rescue (Levels 1 & 2)
- Safe boating certificate recognized by the National Safe Boating Council
- Boat operator requirements as outlined in FEMA National US&R
- Response System Water Rescue Specialist Position Task Book, or equivalent.

Chapter 5: Single Resource Mission Essentials and Mission Ready Packages

Single Resources

A Single Resource is defined as an individual, a piece of equipment and its personnel complement, or a crew or team of individuals with an identified work supervisor. A single Resource may be assigned to a geographical area in which an individual or supervisor of a single resource is assigned authority and responsibility for the coordination of a task assignment or unit assignment and implementation of planned tactics. The assignment of single resource(s) may be in support of other resources, a task force or a portion of a Division or an area inside or outside the perimeter of an incident.

Mission Ready Packages

While historically the term “modular deployment” has been used to describe the mobilization and grouping of specialized, single resources or discipline specific resources, the term “Mission Ready Packages” is more consistent with NIMS descriptive terminology. The use of MRPs also brings the System in line with Emergency Management Assistance Compact (EMAC) terminology. EMAC has developed a pre-deployment outline to assist agencies to facilitate a faster state to state mutual aid response.

MRPs are defined as “specific response and recovery resource capabilities that are organized, developed, trained, and exercised prior to an emergency or disaster”. These MRPs are designed to provide additional support and/or to augment a needed capability to resources already operating at an incident or event.

For State and local government’s urban search and rescue programs with robust capabilities, MRPs may also be deployed to provide specific mission capabilities to a requesting agency in support of the Authority Having Jurisdiction (AHJ).

MRPs are intended to support both internal (California) and external (Federal or EMAC) requests for assistance. They are designed for rapid deployment and can be requested, located within the System, ordered, and tracked effectively during an emergency, when time is of the essence. While it is preferred that all members of each MRP be from the same agency, it is not required.

All California Mission Ready Package activities are coordinated through the State Office of Emergency Services (OES), who serves as the primary point of contact for

FEMA/DHS and States requesting assistance thru the Emergency Management Assistance Compaq (EMAC).

Agency Requirements- The Agency(s) providing a MRP must ensure each deployed member meets all the requirements for being fully deployable. Each member must be furnished with all personal protective equipment necessary to perform in the environment expected.

Deployment- Cal OES will maintain a list of MRPs which are available. The appropriate MRP will be selected by the OES based on the requested capability, location of the request, and availability. When an MRP is requested Cal OES will contact the task force(s) from which the MRP will be deployed.

Mobilization- The task force(s) providing the MRP should have a specific mobilization plan in place for the MRP. This plan should describe the actions that must occur from receipt of an alert or activation order until the MRP has reached the designated reporting location. Detailed planning is required to ensure that the MRP can meet the four-hour time frame for departure by ground transportation or the six-hour time frame for an Aerial Port of Embarkation (APOE), as appropriate.

Media management procedures must be identified during the initial briefing. All MRP personnel must clearly understand appropriate procedures when interacting with different forms of media. The local Public Information Officer (PIO) is responsible for the release of information regarding the incident.

Work Period Scheduling and Rotations-The IST or AHJ Command will need to determine how MRPs will be deployed at the onset of mission operations. MRPs are designed to engage in single operational periods typically not exceeding 12-hours. If 24-hour operations are desired MRPs may need to be modified or additional MRPs may be required.

Health and Medical Considerations-The MRP Leader will maintain communications with the IST Medical Officer or local Medical Unit Leader and keep that individual updated on medical issues. The need for additional medical assistance for civilian injuries will be directed through the IST to local authorities if available.

Transportation Requirements- Transportation assets required to move the MRP should be identified prior to deployment. If the Sponsoring Agency does not have the necessary vehicles in-house, then contracts with local vendors should be in place to provide transportation to the incident location, designated staging location, or APOE.

Enough trucks and trailers should be available to transport the MRP equipment and all personal gear.

If responding by ground, the deploying task force(s) should provide the MRP with the vehicles needed to transport the required personnel and equipment for the mission. The exact type of vehicle may be determined by the deploying task force(s). If air transportation is utilized, vehicle and supplies must be provided by the requesting IST or AHJ.

Support Requirements- If deployed by land, MRPs will be self-sustaining with food and water for 72 hours of continuous operation. This self-sustainment will also include fuel for fuel-powered equipment but does not include fuel for vehicles.

If deployed by air, MRPs will be self-sustaining with food and water for 72- hours of continuous operation. Fuel for fuel-powered equipment shall be provided by the requesting AHJ.

Canine Health and Welfare- All canines must be in good health and have a current health certificate from a licensed veterinarian to deploy. For canines to ride un-caged in a military aircraft, their handlers must have a waiver letter, available from the Air Force, stating so. One copy of this letter should be carried with the canine handler, and another copy should be provided to the MRP Leader. The letter must be available on short notice at the APOE prior to aircraft loading

California Urban Search & Rescue Single Resource Types

Always use the prefix US&R for Urban Search and Rescue (US&R) resources.

Order Single Resource or Strike Team by Type (Capability – Type 1, Type 2, Type 3, OR Type 4)

Type 1 (Heavy)	Type 2 (Medium)	Type 3 (Light)	Type 4 (Basic)
Heavy Floor Construction Pre-cast Concrete Construction Steel Frame Construction High Angle Rope Rescue (including highline systems) Confined Space Rescue (permit required) Mass Transportation Rescue Mud and Debris Flow Rescue Organizations typed and operating at the Type-1 level shall meet technician level for structural collapse, rope rescue, confined space, trench and excavation, vehicle, and machinery search and rescue.	Heavy Wall Construction High Angle Rope Rescue (not including highline systems) Confined Space Rescue (no permit required) Trench and Excavation Rescue Organizations typed and operating at the US&R Type-2 level shall meet the awareness level for surface water search and rescue, the operations level for rope rescue, confined space, trench and excavation, vehicle and machinery search and rescue, and the technician level for structural collapse.	Light Frame Construction Low Angle Rope Rescue Single-Person Load Rope Rescue Organizations typed and operating at the US&R Type-3 level shall meet the operations level for structural collapse and rope rescue.	Surface Rescue Non-Structural Entrapment in Non-Collapsed Structures Organizations typed and operating at the US&R Type-4 level shall meet the awareness level for structural collapse incidents.

RESOURCE	RADIO ID's	COMPONENT	TYPE 1	TYPE 2	TYPE 3	TYPE 4
US&R Company	Agency Identifier US&R (phonetic) Number Identifier <i>VNC US&R 54</i>	Equipment	Type 1 Inventory	Type 2 Inventory	Type 3 Inventory	Type 4 Inventory
		Staffing	6 Personnel	6 Personnel	3 Personnel	3 Personnel
		Transportation	Agency Specific	Agency Specific	Agency Specific	Agency Specific
US&R Crew**	Agency Identifier US&R (phonetic) Number Identifier <i>KRN US&R Crew 2</i>	Trained Personnel	5	5	2	2
		Supervisor	1	1	1	1
		Transportation	Agency Specific	Agency Specific	Agency Specific	Agency Specific

*Requests should include vehicle capabilities when necessary (i.e., four-wheel drive, off-road truck, etc.)

**The agency/department sending the US&R Crew will identify the Supervisor.

California Urban Search & Rescue Task Force Types

RESOURCE	RADIO IDENTIFIER	ELEMENT	PERSONNEL
CA-Regional US&R Task Force	OES Identifier Type of resource Task Force Number	Trained Personnel	30
		Supervision	1-Task Force Leader, 1- Planning Team Manager, 1- Search Team Manager, 1- Rescue Team Manager, 2 Squad Officer
<i>California Regional Task Force</i>	<i>FRN US&R RTF-5</i> "RTF-5"	Transportation	Agency Specific: Total max 10 of vehicles, up to 2- Type 1 US&R Units (Heavy) up to 2- Engines (Type 1 or 3)

RESOURCE	RADIO IDENTIFIER	ELEMENT	TYPE 1	TYPE 2	TYPE 3	TYPE 4
CA-FEMA US&R Task Force	State ID Task Force Number	Trained Personnel	70	70	35	22
		Supervision	2-TF Leader 2-Search Team Manager 2-Rescue Team Manager 2-Med Team Manager 2-HM Team Managers 2-Logs Team Manager 2-Planning Team Manager 4-Squad Officer	2-TF Leader 2-Search Team Manager 2-Rescue Team Manager 2-Med Team Manager 2-HM Team Manager 2-Logs Team Manager 2-Planning Team Manager 4-Squad Officer	1-TF Leader 1-Search Team Manager 1-Rescue Team Manager 1-Med Team Manager 1-HM Team Manager 1-Logs Team Manager 1-Planning Team Manager 2-Squad Officer	1-TF Leader 2-Squad Officer
<i>California FEMA US&R Task Force</i>	<i>CA-TF4</i>	Transportation	Agency Specific	Agency Specific	Agency Specific	Agency Specific

California US&R Strike Team Resource Standard

Kind	Strike Team Types	Number/ Type	Minimum Task Capabilities	Per Single Resource	Total Personnel
US&R	GR	2 – Type 1 (Heavy)	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	6	13 (Incl. 1-Leader)
US&R	HR	2 – Type 2 (Medium)	Trained for Heavy Wall Construction, High Angle Rope Rescue (not including highline systems), and Trench and Excavation Rescue	6	13 (Incl. 1-Leader)
US&R	IR	5 – Type 3 (Light)	Trained for Light Frame Construction and Low Angle Rope Rescue	3	16 (Incl. 1-Leader)
US&R	JR	5 – Type 4 (Basic)	Trained for Surface Rescue and Non-Structural Entrapment in Non-Collapsed Structures	3	16 (Incl. 1-Leader)

R- Urban Search & Rescue Resource

MRP RESOURCES

See Appendix B – Mission Ready Packages Description

Chapter 6: Construction Types

Training and Experience Requirements

- Rope Rescue Operations (RRO) or equivalent– all
- High Angle Rope Rescue Operations or equivalent – 2 team members
- Leader – Single Resource Boss Qualified
- Team Members - Firefighter 1 or 2 Wildland Fireline qualified
- Arduous physical fitness level

See FIREScope ICS 223, *Rapid Extrication Module Support (REMS) Incident Command System Position Manual* for current directive.

Considerations

- Terrain will likely be very steep and unstable in areas where REMS use is applicable.
- In many cases walking a patient out of an area with the litter basket and wheel combination may not be possible due to terrain features.
- Rope systems may be employed to ensure that a victim and the REMS team can safely transition from the incident location to the medical evacuation site.
- Long lowering and hauling distances may be encountered in REMS operations. This may require the patient to be moved in multiple pitches, or rope lengths. As a result, anchors may also be required to secure the patient while the system is moved and reset.
- Anchor systems should be kept as simple as possible due to the multiple, and progressive anchor systems required and the urgent need to reach definitive medical care.
- Hand Crews may deploy in front of the litter basket to clear the trail and identify hazards.
- A Rigger in front of the system pre-setting anchors saves valuable time.
- A REMS standard equipment cache should be assembled and stored prior to an incident so it is readily available at the time an Incident Management Team decides to implement REMS at an incident.
- Utilization of the raising/lowering system may be beneficial during the hike into a patient as well as during an extraction.

Chapter 7: US&R Task Force Concept of Operations

California FEMA US&R Task Forces

California FEMA US&R Task Forces deploy in four types of nationally recognized (NIMS) configurations. The NIMS configurations include personnel position identification, position descriptions, training requirements as listed in Chapter 5 of this standard. The Federal Government, through the Federal Emergency Management Agency (FEMA), under the Department of Homeland Security (DHS), has established 28 Urban Search & Rescue (US&R) Task Forces throughout the nation, eight of which are in California. All California FEMA US&R Task Force activities are coordinated through the State Office of Emergency Services (OES), who serves as the primary point of contact for FEMA/DHS.

US&R Task Forces located in California are available as a state resource that can be acquired without a request for Federal assistance. All requests for US&R Task Forces must go through normal Mutual-Aid request procedures. A full, 70-person, Type I & 2, US&R Task Force can deploy within four to six hours of activation.

Each US&R Task Force is comprised of specifically trained and equipped personnel for large or complex urban search and rescue operations. The multidisciplinary organization can provide up to seven functional elements that include Supervision, Search, Rescue, Hazardous materials, Medical, Logistics and Planning. The US&R Task Force is totally self-sufficient for the first 72 hours and has a full equipment cache to support its operation. Either State or Federal resources provide transportation and logistical support.

Depending on the request, a Type 1 and 2 Task Force is comprised of 70 personnel with staffing for all seven functional elements that include Supervision, Search, Rescue, Haz-Mat, Medical, Logistical and Planning. Depending on mode of transportation, 10 additional personnel may deploy to assist with movement of personnel and equipment.

Type 3 Task Force configurations are comprised of 35 personnel, plus up to 5 ground support personnel, with staffing for all seven functional elements. The Type 3 configuration is focused on structural collapse as its core capability. The Type 3 Task Force deploys with sufficient Hazardous materials and Personal Protective Equipment for personnel to complete the structural collapse core capability mission. Type 3 Task Forces may deploy with a water capability (see National US&R Response System Operations Manual: Annex C – Water Operations Concept of Operations).

Type 4 Task Forces consists of 22 personnel, plus up to 3 ground support personnel. The Type 4 Task Force focus is on structural collapse core capability. Type 4 task forces are made up of two or more Rescue Squad personnel trained in wide area and technical search skills. Single resources may be added as needed with approval of requesting authority (i.e., Structures Specialists, Canine Search Teams, Heavy Equip. Rigging Specialists, etc.) The Type 4 Task Force does not typically deploy with a US&R operations in a water environment capability.

Minimum Equipment Lists for NIMS Type 1, 2, 3 and 4 can be found in Appendix D.

Five General Construction Categories

Identifying the general construction category of a structure that has experienced a collapse or failure will help determine the appropriate US&R operational capability required to mitigate the incident. The five general construction categories the rescuer will most likely encounter in collapse or failure situations are light frame, heavy wall, heavy floor, pre-cast concrete, and steel frame. Several common structures are built utilizing a combination of these general construction categories such as light frame multi-unit residential structures built on top of a one or more-story concrete parking garage, reinforced with steel reinforcing bars (rebar) or post-tensioned cables and steel frame buildings constructed on top of concrete commercial and/or parking structures.

Light Frame Construction (Wood and Light Metal Stud)

Structures in this general construction category are typically built with a vertical load resisting system of closely spaced wood or light gauge metal studs for bearing walls and joists for floors and rafters for roof. The lateral resistance is provided by wall and floor sheathing, which enables these “Box Type” structures to remain square and plumb providing a high degree of structural flexibility to applied lateral forces from earthquakes and high winds.

These buildings are configured as follows:

Roofs	Wood or metal rafters or trusses spaced 16” to 32” o.c. Sheathing may be spaced, solid boards laid straight or diagonally, or plywood.
Floors:	Wood or metal joists or flat trusses spaced 12” to 24” o.c. Sheathing may be wood boards laid straight or diagonally or plywood. Floors of newer construction may have 1” or 2” concrete topping over plywood sheathing.
Exterior Walls	Wood or metal studs spaced 16” to 24” o.c. Sheathing may consist of wood boards laid straight or diagonally or plywood. For smaller and older buildings, lath and plaster, or gypsum board is used for sheathing.
Interior Columns and Walls:	Most have walls with wood or metal studs spaced 16” to 24” o.c. that are sheathed with any of the types listed for exterior walls. Wood lath and gypsum plaster were used in older wood buildings. Larger buildings of this type may include column and beam framing in addition to the stud-bearing walls.
Number of Stories:	Up to 4 stories for wood stud multi-unit residential buildings Up to 6 stories for metal stud multi-unit residential and mixed-use buildings
Occupancy Types:	Types may include single family and multi-unit residential buildings, low-rise commercial, institutional, and light industrial.

Heavy Wall Construction (Exterior walls of Reinforced Masonry (RM), Unreinforced Masonry (URM), and Tilt-up Concrete (TU))

Structures in this general construction category are “Box Type” structures typically built with heavy, fire-resistant exterior walls and lightweight wood floors and roof. The exterior walls are constructed of Reinforced Masonry (RM), Unreinforced Masonry (URM), or Tilt-up Concrete (TU). The adequacy of the interconnection of the walls and floors plus roof usually determines how well these structures resist the effects of earthquake forces and high winds. State law in California requires URM structures be strengthened to reduce the collapse potential of these vulnerable walls in major earthquakes.

These buildings are configured as follows:

Roofs	<p>URM roofs usually have wood rafters or nailed wood trusses made from 2x and 1x members that are sheathed with straight 1x wood sheathing. Bowstring (curved top with flat bottom) and other trusses are the main roof supports, with 2x joists and 1x straight sheathing.</p> <p>A Tilt-Up is usually built with a panelized system with long-span, glued laminated (glulam) wood beams, 4x purlins, 2x sub-purlins, and plywood sheathing or other lightweight roof systems.</p>
Floors:	<p>URM floors usually have 2x or 3x wood joists with straight 1x wood sheathing. Tilt-Up floors are usually built using large wood joists or flat wood trusses with plywood sheathing.</p>
Exterior Walls	<p>URM exterior walls usually have 9” thick parapet walls with 4” added to the thickness for each story. A typical two-story URM building will have 13” thick walls and a 9” thick parapet wall.</p> <p>Tilt-Up walls are reinforced concrete, 6” or greater in thickness. They are cast flat onsite in approximately 24’ widths and tilted into position.</p>
Interior Columns and Walls:	<p>URM may have wood stud walls. Large wood columns and beams may also be used. There may or may not be a uniform grid layout.</p> <p>Tilt-Up walls usually have steel pipe/tube columns spaced in a 24’ on center by 50’ or similar spacing. They typically have a uniform structural grid. Buildings with long-span trusses may have no interior columns.</p>
Number of Stories:	<p>URM construction is up to eight stories high, but most are two stories or less. Tilt-Ups are mostly one story, up to 24’ high. Some may be two or three story with up to 40’ high walls.</p>
Occupancy Types:	<p>URM may include occupancies such as Tilt-Ups, multi-family residential, and institutional structures.</p> <p>Tilt-Ups may include office, commercial, educational (gymnasiums), or industrial and warehouse buildings.</p>

Heavy Floor Construction (Cast-in-Place Concrete)

Structures in this general construction category are typically built utilizing Cast-in-Place Concrete (CIP) construction consisting of heavy, concrete floors. Steel reinforcing bars (rebar) provide the tension resistance within each concrete member, but post-tensioned steel cables may also be employed. These structures may be built utilizing concrete beam/column frame to provide “Moment Frame” resistance or concrete shear walls to provide “Box Type” resistance to earthquake forces and high winds.

These buildings are configured as follows:

Roof and Floors:	Concrete slabs with beams, concrete joists with girders, and waffle or two-way flat slab assemblies
Exterior Columns and Walls:	Concrete “Moment Frame” structures use reinforced concrete columns as the primary exterior supports. The spaces between columns are enclosed with infill or panel walls of glass in metal frames, metal studs and plaster, brick, brick or stone veneer on metal studs, or pre-cast concrete panels. Combinations of these materials may also be used. In older and non-west coast buildings, infill walls may be constructed using very brittle materials such as URM and hollow clay tile. These structures are very vulnerable to earthquake damage. “Box Type” structures may have some concrete columns with infill walls as with concrete framed structures, but reinforced concrete, shear walls are used for the main exterior walls.
Interior Columns and Walls:	Both concrete framed and Box Types may have a grid of concrete columns. Interior spaces are divided using non-structural walls constructed of metal studs and gypsum board, or URM. Box Type structures often have interior concrete shear walls.
Number of Stories:	Heights vary from single-story to high-rise structures.
Occupancy Types:	Occupancies may include any type. The most common occupancies are offices, schools, apartments, hospitals, hotels, parking structures, and multi-purpose facilities. Highway bridges and overpasses are a particular form of very heavy floor construction.

Pre-cast Concrete Construction

Structures in this general construction category are typically built utilizing modular pre-cast concrete components that include floors, walls, beams, columns, and other subcomponents that are field connected upon placement on site. Floor and roof components are normally reinforced using pre-tensioned steel cables that are bonded to the concrete as it is cast around the cables in the pre-casting factory. Individual concrete components utilize imbedded steel weldments and cast-in-place, topping slabs for the interconnection that provides for structural stability. These interconnections are critical to prevent widespread collapse problems during earthquakes. These structures are usually built using a regular grid of columns and beams, and most often have concrete or masonry shear walls to provide “Box Type” resistance to earthquake forces and high winds.

These buildings are configured as follows:

Roof and Floors:	Single and double “T” components are used in longer-span systems to span between pre-cast beams. Hollow core or solid concrete planks are used to span shorter distances between beams or walls. Cast-in-place (rebar or post-tensioned) concrete slabs over pre-tensioned pre-cast concrete girders are often used in garages and office buildings.
Exterior Columns and Walls:	Pre-cast concrete columns are often used as the primary exterior supports. The spaces between columns may be enclosed with infill or panel walls of glass in metal frames, metal studs and plaster, reinforced masonry shear walls, brick or stone veneer on metal studs, and pre-cast concrete panels. Combinations of these materials may also be used. Pre-cast concrete frames and cast-in-place concrete shear walls have been used as the primary exterior supports for these structures.
Interior Columns and Walls:	A pre-cast concrete or steel columns grid is usually used to support the beams and girders. Interior spaces may be divided using non-structural walls constructed using metal studs and gypsum board or concrete masonry unit (CMU) blocks. Non-structural walls in non-west coast types may employ URM.
Number of Stories:	Heights vary from single-story to high-rise structures.
Occupancy Types:	Occupancies may include commercial, office, or multi-use/multi-function structures, including parking structures and large occupancy facilities. Highway bridges and overpasses may be constructed using pre-cast concrete segments or pre-cast beams in combination with cast-in-place concrete slabs.

Steel Frame Construction

Structures in this general construction category are typically built using some type of steel beam and column system that is configured in a grid pattern. Lateral resistance against earthquake and severe wind forces is provided either by specially designed frames or diagonal bracing.

These buildings are configured as follows:

Roof:	Roof purlins and beams are comprised of solid steel or light steel “Bar Joists” that are sheathed with a corrugated metal deck. In all but some prefab types, the sheathing is covered with insulation to form a flat surface. Purlins, beams, and bar joists are supported by steel girders or trusses. Some steel frame structures may have wood sheathing, joists, and beams supported by steel girders and/or trusses.
Floors:	Floors are typically built using concrete fill on corrugated metal decks, but in some cases, pre-cast concrete planks or even wood truss joists with plywood sheathing may be used. Solid steel beams and steel trusses are typically used to span between the steel girders.
Exterior Columns and Walls:	Steel columns are the main exterior supports. The spaces between columns may be enclosed with infill/panel walls of glass in metal frames, metal studs and plaster, brick or stone veneer on metal studs, metal siding, or pre-cast concrete panels. Combinations of these materials may also be used. In older and non-west coast buildings, infill walls may be constructed using very brittle materials such as URM, terra cotta tiles, or hollow clay tiles.
Interior Columns and Walls:	A grid of steel columns is usually used to support the beams and girders. Interior spaces may be divided using non-structural walls constructed using metal studs and gypsum board. Non-structural walls may employ URM.
Occupancy Types:	Prefabricated metal buildings include mostly one-story, light industrial buildings. <u>Low Rise</u> , non-fireproofed buildings and other structures include one and two-story commercial, office, large industrial facilities, institutional structures, and convention and sports arenas with high, exposed roof systems. <u>High Rise</u> , fireproofed buildings include multi-story structures configured with fire sprinklers, standpipes, smoke-proof stairs, and other fire protection systems. Fireproofing may consist of sprayed-on fiber, layers of gypsum board or concrete, and masonry encasement in older buildings.

Chapter 8: Heavy Equipment Resource Typing

Heavy equipment must only be used and supervised by qualified personnel. Equipment selection lies in finding the right tool for a given operation. It means ensuring that the given piece of equipment is configured in a manner that allows it to maximize safe rescue or recovery potential as well as minimize downtime. As such, there are several basic considerations for selecting the right piece of equipment for any given task.

Selection of the right piece of equipment, affects operational success. Using a machine can pose a substantial risk to rescuers and/or victims and should be used in rescue operations with extreme caution.

Using a machine with too large capacity might increase effectiveness to some extent but will ultimately pose too high of risk for safe use. The work activity includes all factors associated with the specific physical task. Mechanical operations are typical for each classification of excavation and lifting equipment. Failure to match the appropriate machine to the work task usually results in operating and placing the personnel at extreme risk due to improper use. Using machines matched to the task will greatly increase the chance of avoiding injuries and undue risk to rescuers and/or victims.

One of the most important considerations when selecting a piece of equipment is the availability of the right machine with proper and timely service, maintenance, and repair. The right machine must not only match mechanical functions, but also power, capacity, and control requirements.

The physical properties of building debris, concrete, construction material, clay, gravel, organic matter, rock, sand, or silt to be moved or excavated has a direct influence on the type and capacity of equipment selected for a specific work activity. The ease or difficulty of removing and handling material directly influences the amount of machine productivity. This will also determine capacities and types of buckets, blades, and attachment or accessories.

How the collapse debris and various types of soil break apart or stick together will influence how much can be put in a bucket, blade, bowl, or bed. The composition of the material and the amount of moisture contained in debris will influence the heaped capacity that the bucket can hold, or the blade can push. Debris and/or soil type and stability are also important to the engineer because the size of the particles, physical properties, and behavior when the moisture content is changed greatly influences operations. These decisions influence the types and capacities of the equipment needed by rescuers or recovery personnel for the site and ultimate removal of victims.

If there is a large volume of debris that needs to be moved quickly, a large piece of machinery will probably be most efficient but can also pose the biggest risk. If there is a small volume of debris to be excavated, a smaller piece of machinery should be considered.

HEAVY EQUIPMENT RESOURCE TYPING

RESOURCE	COMPONENT	Type 1	Type 2	Type 3	Type 4
Hydraulic Truck Crane	Rating (Tons) Radius (Feet)	100 ton+ Up to 275 feet	50-100 ton Up to 200 feet	Up to 50 ton Up to 150 feet	
Hydraulic Rough Terrain Crane	Rating (Tons) Radius (Feet)	Up to 50 ton Up to 100 feet			
Conventional Truck Crane	Rating (Tons) Radius (Feet)	150 ton+ Up to 300 feet	75-150 ton Up to 250 feet	Up to 75 ton Up to 150 feet	
Conventional Crawler Crane	Rating (Tons) Radius (Feet)	350 ton+ Up to 350+ feet	100-350 ton Up to 275 feet	Up to 100 ton Up to 160 feet	
Excavator Crawler	Rating (Lbs.) Reach	80k lbs.+ Up to 70 feet	40-80k lbs. Up to 50 feet	Up to 40k lbs. Up to 40 feet	Mini
Loader Rubber Tire	Rating (Cubic Yards)	5 cubic yards	3-5 cubic yards	1-3 cubic yards	Backhoe Skid Steer Mini
Forklift Conventional	Rating (Tons)	25 ton+	10-25 ton	5-10 ton	
Forklift All-Terrain Extendable	Rating (Lbs.)	3-6 tons (6-12k lbs.)			
Dozer	HP	Heavy 200 HP D-7, D-8	Medium 100 HP D-5, D-6	Light 50 HP D-4	

RESOURCE	COMPONENT (ALL TYPES 1-4)
Backhoe Excavators	Multifunctional (universal excavator), wheel or track mounted Attachment slewing ability: \pm 90 degrees. Auxiliary attachments: front bucket or blade
Vacuum Truck	Commercial vacuum trucks which collect sludge usually have a volume of 350–1,940 cu ft. However various smaller versions for specialized applications or low-resource settings can be found with tanks as small as 130 US gal). Generally use a low-volume <u>sliding vane pump</u> or a <u>liquid ring pump</u> to create a <u>negative air pressure</u> .

Chapter 9: Reconnaissance & Search Operations

Search operations are the foundation of the US&R mission. If resources cannot find potential victims and confirm their location, successful rescues will not occur. It is the responsibility of all Technical Search and Rescue responders to implement a comprehensive search operation and to note and collect related information. Search personnel should use nationally recognized search terminology and marking systems when engaged in operations. Accurate and timely information gathered during search operations is critical for maximizing US&R resource effectiveness and mission tasking.

Reconnaissance

Recon is a function of the search element but in most cases is not searching for victims. Recon is the preliminary survey for the purpose of determining the scope and magnitude of the incident and identifying the resources needed to manage the incident. Emphasis should be placed on identifying the highest areas of victim survivability.

Upon arrival to a US&R incident, two potential situations will be present:

1. Initial reconnaissance has been completed with specific areas designated as priority search and/or rescue operations.

-Or-

2. Reconnaissance is either not completed or unreliable and critical assessment is needed.

In the conduct of a reconnaissance, personnel should remain mobile and should not engage in rescue activity until completed. Considerations for Recon operations include:

- Initial visual check of damaged area and/or assigned area of operation
- May be conducted on foot, by vehicle, by watercraft, or by air
- For isolated structure collapse incidents, the primary purpose of this action is structural assessment and hazardous materials assessment
- Known locations of live or deceased victims will be recorded and appropriate rescue or recovery resources will be requested
- Size and make up of recon teams are incident driven and flexible
- Identification of areas of highest probability for rescuing the maximum number of victims
- Timely reporting of recon information is critical to the health and safety of responders, survivability of victims, and effective management of the incident
- Recon teams should not engage in rescue operations

Structural Triage

Technical Search and Rescue responders should “triage” structures, when appropriate, and when there are multiple structures compromised. If available a Structures Specialist may complete the structure triage prior to any US&R operations in partially collapsed, racked structure or when a building is totally collapsed. This is not intended to limit the ability of rescuers to engage in operations if a Structures Specialist is not available. A Hazardous Materials Specialist should also be included during reconnaissance or during structure triage to assist in identifying hazardous conditions. During the structure triage personnel should note:

- Type of Occupancy
- Time of Day
- Structure Type
- Collapse Type
- Resources Available
- General Structure Condition
- Any prior Intelligence Information

General “Go or No-Go” recommendations should be analyzed, and information should be conveyed to the US&R resource supervisor and if applicable to US&R Task Force Leader(s), Safety Officer-US&R, Search Team Manager and Rescue Team Manager.

Five Phases of Search:

- Assessment of the area
- Surface victim removal
- Exploration of void spaces
- Specific breaching and/or debris removal
- General debris removal

Generally accepted search procedures should be followed and standard procedures such as “Go right, stay right” and “Line abreast” formations should be used as appropriate.

Search Types:

Hasty Search (Rapid Search)

Hasty Search is a fast paced and methodical search to locate victims that are in immediate need of rescue. **This type of search is considered DETECTION MODE** which is a search to determine if victims are present.

Other considerations for Hasty Search include:

- May be conducted on foot, by vehicle, by watercraft, or by air
- Size and make up of Hasty Search teams are incident driven and flexible
- If live victims are located and can be easily evacuated, they will be immediately removed and moved to the identified casualty collection point
- Known locations of live or deceased victims will be recorded and appropriate rescue or recovery resources will be requested
- Documentation of areas searched must be recorded and reported
- Rapid Search may be accomplished simultaneously with Recon

Primary Search

Primary Search is a quick search of structures likely to contain survivors. Detection of victims, present is the priority during this phase of search operations. Primary searches are ground or waterborne operations conducted by walking or boating around every structure looking for victims. This is accomplished by looking into every window/opening, knocking on doors, and hailing for live victims.

If there are signs of victims (dead or alive) appropriate action will be taken based on the incident objectives. **This type of search is considered a DETECTION MODE** which is a search to determine if victims are present. When available live victim search canines are in many cases the best resource to use during this phase for rapid completion. Use of Human Remains Detection canines (HRD) may be considered during this phase.

Other considerations for Primary Search are:

- Fast paced, quick scan of surface debris in and around structures and selected voids
- Size and makeup of the search team is incident driven and flexible
- Detection resources may include physical, canine, and technical
- Known locations of live or deceased victims will be recorded and appropriate rescue or recovery resources will be requested
- Actions necessary to immediately correct life-threatening injuries may be performed by this team
- Searched structures will be marked utilizing the Search Marking System
- Victim locations will be marked utilizing the Victim Marking System and GPS

Secondary Low Coverage Search

Is the systematic search of every room of every structure in the assigned area of operation. Forced entry of structures may be required to accomplish this objective but will only be done in accordance with the AHJ's rules of engagement and with the authority of the Incident Commander. This may involve selective debris removal of building materials to expose void spaces.

This type of search is considered a LOCATION MODE and following detection, is used to confirm and pinpoint victim's location for rescue.

When available live victim search canines are in many cases the best resource to use during this phase for rapid completion. Confirmation of a victim location should be conducted by a second canine whenever possible. Use of Human Remains Detection canines (HRD) should be considered during this phase as appropriate.

- Slower and more methodical search of structures, debris, and voids
- Size and makeup of the search team is incident driven and flexible
- Resources may include physical, canine, and technical to locate victim(s)
- The priority during this phase of search is the discovery and removal of live victims and may require a long-term commitment of resources to complete
- Known locations of live or deceased victims will be recorded and appropriate rescue or recovery resources will be requested
- Actions necessary to immediately correct life-threatening injuries may be performed by this team
- Searched structures will be marked utilizing the Search Marking System
- Victim locations will be marked utilizing the Victim Marking System and GPS

Secondary High Coverage Search

Is the systematic search of every room of every structure in the assigned area of operation. Forced entry of structures may be required to accomplish this objective but will only be done in accordance with the AHJ rules of engagement and with the authority of the Incident Commander.

This type of search is considered a LOCATION MODE and following detection, is used to confirm and pinpoint victim's location for rescue.

This includes complete delayering and removal of collapsed debris and may include use of heavy equipment.

- Slow methodical search of structures, debris, and voids
- Size and makeup of the search team is incident driven and flexible
- Resources may include physical, canine, and technical to locate victim(s)
- The priority during this phase of search is the discovery and removal of live victims is unlikely and efforts must still be thorough. During this phase incident operations may convert from “rescue operations” to “recovery operations” as determined by the Incident Commander(s). This phase may still require a long-term commitment of resources to complete.
- Known locations of live or deceased victims will be recorded and appropriate rescue or recovery resources will be requested
- Actions necessary to immediately correct life-threatening injuries may be performed by this team
- Searched structures will be marked utilizing the Search Marking System
- Victim locations will be marked utilizing the Victim Marking System and GPS

- Approval for the use of heavy equipment must be approved by the Incident Commander(s) and extreme caution should be used when operating around any heavy equipment or machinery.

Targeted Search (Special Response Search)

A Targeted Search is conducted in most cases prior to an event occurring such as a hurricane event. The Targeted Search is a search implemented to gather information regarding the need for evacuation or rescue of pre-identified special needs populations. Targeted Search may be conducted pre or post incident at these pre-identified locations. Such pre-identified locations may include, hospitals, nursing homes, evacuation shelters, and other critical infrastructure facilities.

Wide Area Search

Search personnel must coordinate with command personnel whenever possible to assist in determining priorities for a wide area search. Conditions may warrant to shelter victims in place based on intelligence gathered during wide area searches. Intelligence gathered during a wide area reconnaissance and search is critical in deciding when, where, and what resources should be used to begin more focused US&R operations. Incidents requiring wide area searches may require a long-term commitment of personnel to complete. Rapid exchange of information during wide area searches will assist incident command and operational supervisors to deliver accurate and efficient briefings to personnel assigned to rescue operations.

Structure/Hazards Marking System

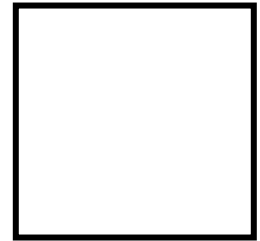
At incidents involving several structures or large areas of damage, the identity and location of individual structures is crucial. The use of existing street names and addresses should always be considered first. If due to damage this is not possible, use the existing hundred block and place all even numbers on one side of the street and all odd numbers on the other side. Mark the new numbers on the front of the structure with orange spray paint. If due to damage the name of the street is not identifiable start with the letter "A" using the phonetic alphabet "Alpha", "Bravo", Charlie, etc.

Structure hazards identified during initial size up activities and throughout the incident should be noted. This Structure/Hazards Mark should be made on the outside of all normal entry points. Search placards or orange spray paint are most easily seen on most backgrounds and line marking or downward spray cans apply the best paint marks. Lumber chalk or lumber crayons should be used to mark additional information inside the search mark itself because they are easier to write with than spray paint. The search marking sticker provides users with information to apply consistent FEMA required search markings and is used as an alternative to spray-paint. It is a high-visibility, peel-and-stick label that can be applied to structures to display the appropriate search markings.

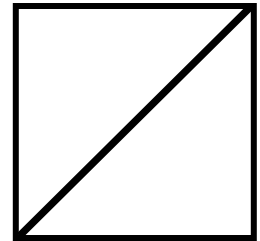
A large square box (approximately two feet) is outlined at any entrance accessible for entry into any compromised structure. Use orange paint for this marking. Specific markings will be clearly made adjacent to the box to indicate the condition of the structure and any hazards found at the time of this assessment. Normally the square box marking would be made immediately adjacent to the entry point identified as safe. An arrow will be placed next to the box indicating the direction of the safe entrance if the Structure/Hazards marking must be made somewhat remote from the safe entrance.

Structure Hazard Markings

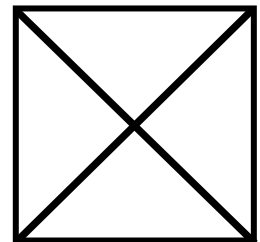
Low Risk for US&R operations, with low probability of Further collapse. Victims could be trapped by contents, or building could be completely pancaked or soft 1st story.



Medium Risk for US&R operations, and structure is significantly damaged. May need shoring, bracing, removal, and/or monitoring of hazards. The structure may be partly collapsed.



High Risk for US&R operations and may be subject to sudden collapse. Remote search operations may proceed at significant risk. If rescue operations are undertaken, significant and time-consuming mitigation should be done.



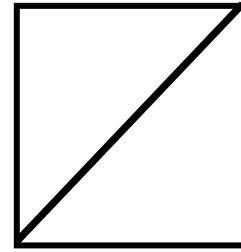
Arrow located next to a marking box indicates the direction of the safest entry point to the structure. This arrow is added when the marking box must be drawn at a distance from the indicated entrance.



Hazardous Material condition exists in or adjacent to the structure. Personnel may be in jeopardy. Consideration for operations should be made in conjunction with the Hazardous materials Specialist. Type of hazard may also be noted.

HM

Structure/hazards evaluation markings require that the TIME, DATE, and TF ID, are noted outside the box on the right-hand side. This information is written with a paint stick or lumber crayon. Paper (or cardboard), placards that have adhesive backing may need to be attached using duct tape as well to ensure proper and secure positioning.



7/15/91 1310 hrs.
HM - natural gas
CA - TF1



Search Marking System

Search Markings must be easy to make, easy to read and easy to understand. To be easily seen the search mark must be large and of a contrasting color to the background surface. Orange spray paint seems to be the most easily seen color on most backgrounds and line marking or downward spray cans apply the best paint marks. A lumber marking device may be used to write additional information inside the search mark itself when it would be difficult to write the additional information with spray paint.

A large distinct marking will be made outside the main entrance of each building, structure, or area to be searched. This "Main Entrance" search marking will be completed in two steps. First, a large single slash (approximately two feet) shall be made starting at the upper left moving to the lower right near the main entrance at the start of the search. The Search Team identifier and time that the structure was entered shall be marked to the left of the mid-point of the slash and the date shall be marked near the top of the slash on the opposite side.

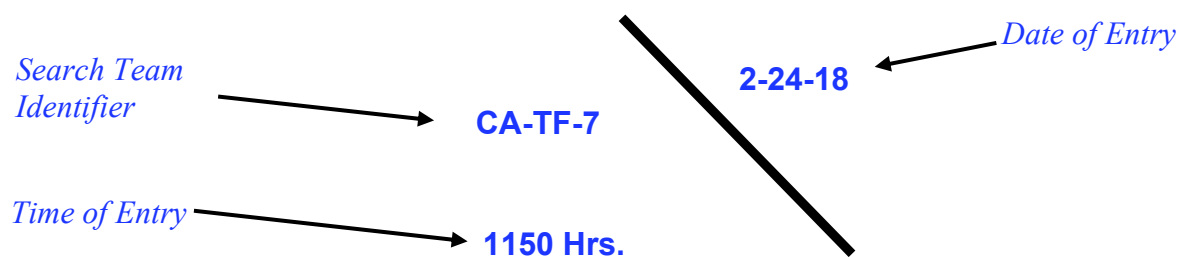
When the search of the entire structure is complete and the Search Team exits the building, a second large slash shall be made in the opposite direction forming an "X" on the Main Entrance search marking. Additional information summarizing the entire search of the structure will be placed in three quadrants of the "X". The left quadrant will already contain the Search Team identifier and time when the team first entered the structure. In the top quadrant enter the time the Search Team exited the structure under the date. Change the date if different from date the structure was entered. The right quadrant is for any significant hazards located inside the structure. The bottom quadrant is for the number of live "L" or dead "D" victims still inside the structure. Use a small "0" in the bottom quadrant if no victims are inside the structure.

If the search of the entire structure is incomplete, make a circle (approximately 1' diameter) in the middle of the single slash. The left side will already contain the Search Team identifier and time when the team first entered the structure. At the top end of the slash enter the time the Search Team exited the structure under the date. Change the date if different from date the structure was entered. On the right side, midpoint of the slash, is for any significant hazards located inside the structure. The bottom end of the slash is for the number of live "L" or dead "D" victims still inside the structure. Use a small "X" at the bottom if no victims are inside the structure.

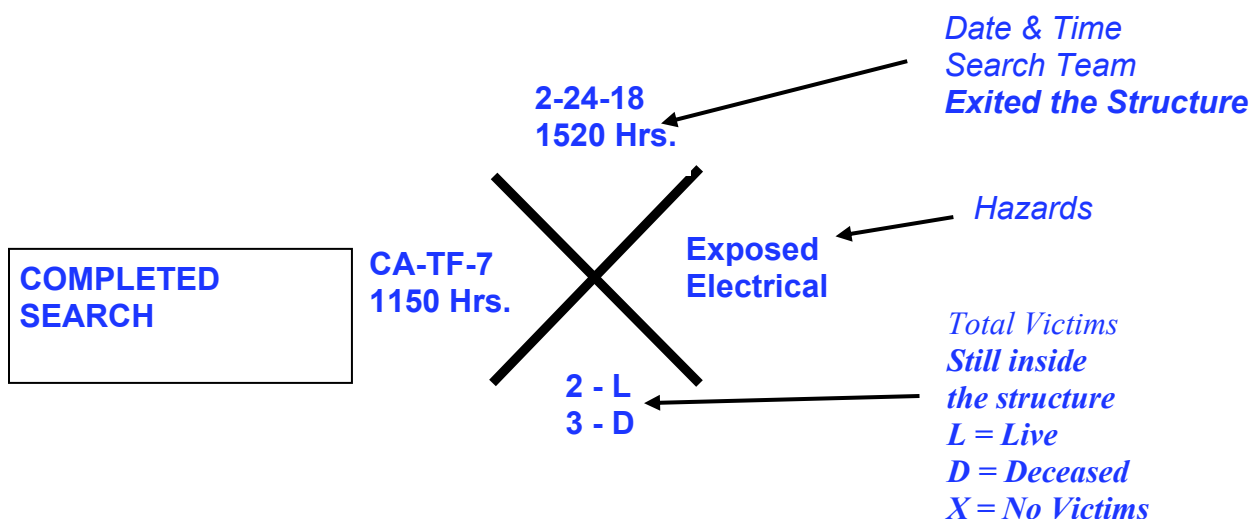
During the search function while inside the structure a large single slash shall be made upon entry of each room, area, or floor. After the search of the room or area has been completed, a second large slash shall be drawn in the opposite direction forming an "X". The only additional information placed in any of the "X" quadrants while inside the structure shall be that pertaining to any significant hazards and the number of live "L" or dead "D" victims, as indicated by "L" for live and "D" for dead.

Search Markings

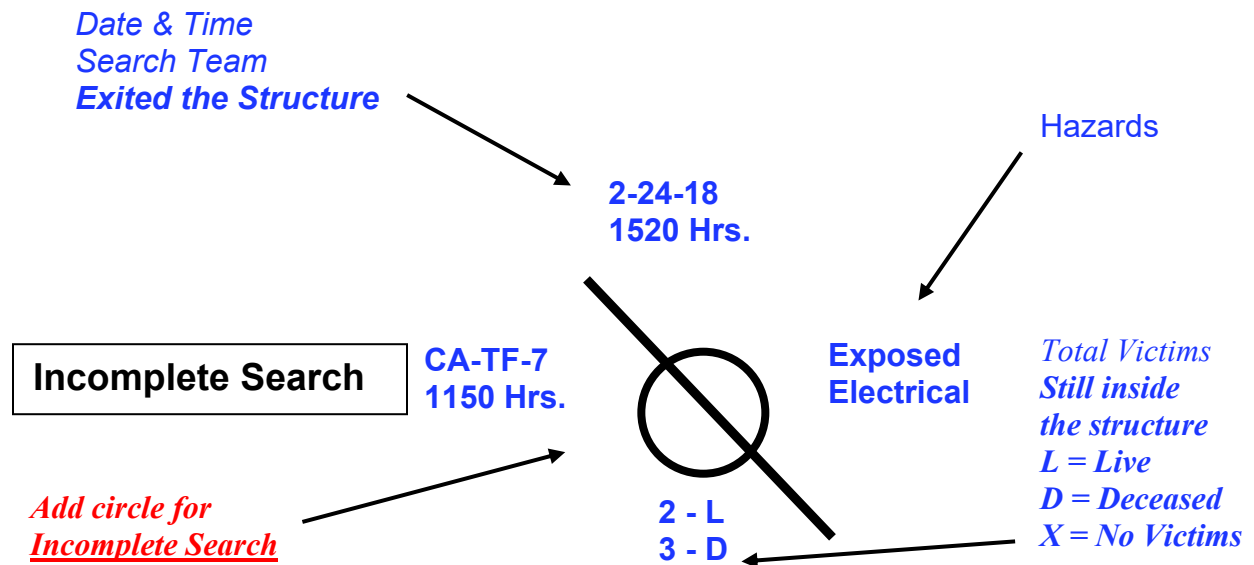
Main Entrance Search Marking- WHEN YOU ENTER



Main Entrance Search Marking- WHEN YOU EXIT

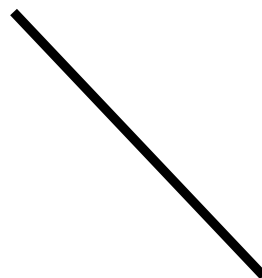


Main Entrance Search Marking- WHEN YOU EXIT

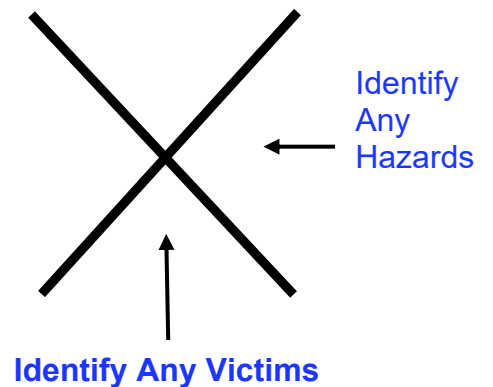


INTERIOR SEARCH MARKINGS- EACH ROOM, AREA OR FLOOR

WHEN YOU ENTER

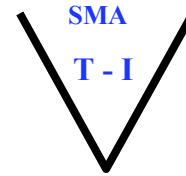


WHEN YOU EXIT

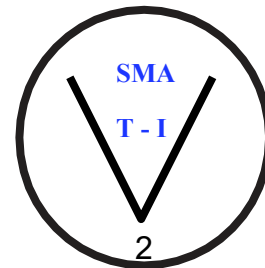


Victim Marking System

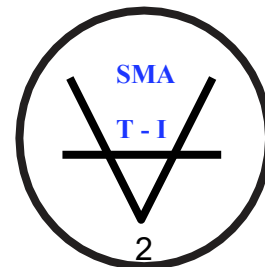
Make a large (2' x 2') "V" with orange spray paint near the location of a **potential** victim. Mark the name of the search team or crew identifier in the top part of the "V" with paint or a lumber marker type device.



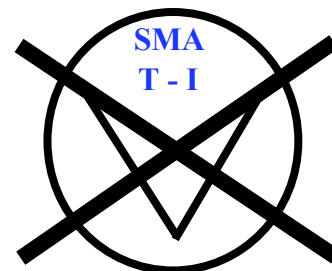
Paint a circle around the "V" when a potential victim is **confirmed** to be **alive** either visually, vocally, or hearing specific sounds that would indicate a high probability of a live victim. If more than one confirmed live victim, mark the total number of victims under the "V".



Paint a horizontal line through the middle of the "V" when a **confirmed** victim is determined to be **deceased**. If more than one confirmed deceased victim, mark the total number of victims under the "V". Use both the live and deceased victim marking symbols when a combination of live and deceased victims are determined to be in the same location.



Paint an "X" through the confirmed victim symbol after all victim(s) have been removed from the specific location identified by the marking.



An arrow may need to be painted next to the "V" pointing towards the victim when the victim's location is not immediately near where the "V" is painted.



Chemical Light and Flagging Tape Plan

Chemical light marking for low light and night operation should include flagging tape of the same color as the light stick.

	Marker-Neutral
RED	No Go, Hazard
YELLOW	Caution
GREEN	Entry Location, Personnel
BLUE	Victim

***Each lighted location should be accompanied by the appropriate building, search or victim marking as referenced on pages xx thru xx as necessary.**

Emergency Signaling System

Because of the high potential of secondary collapse, dangerous conditions, and the need to communicate other essential information, an emergency signaling system should be adopted and in use by all personnel at the incident site. Emergency signals must be a loud, identifiable, and sounded when conditions require immediate attention. Emergency signals can be made using devices such as a whistle, air horn, vehicle horn or bell. Each structure or larger area of operations may need to have its own distinct emergency signal device when multiple rescue operations are taking place in the same area to reduce confusion.

Supervisors should identify and inform assigned personnel of a designated place of assembly and/or safe zone for a Personal Accountability Report (PAR) to be conducted should an evacuation signal be sounded. A place of assembly is usually a safe location outside the evacuation area. A safe zone is usually a safe location within a building or disaster site that can be entered within the evacuation area. When an evacuation signal is sounded, all supervisors must conduct a roll call of their assigned personnel and communicate the results of the PAR to their supervisor.

Evacuate the area

Short signals repeated for 10 seconds, pause for 10 seconds, and repeat for 3 repetitions. Total signal time – 50 seconds.

Cease Operations / All quit

One long signal (8 to 10 seconds)

Resume Operations

One long and one short signal.

Chapter 10: Hazardous Material/CBRNE Technical Rescue Considerations

Haz-Mat/CBRNE Considerations

The release of hazardous materials may result from a natural disaster, the actions of terrorists, or may be present as part of a site's normal environment. The health and safety of rescuers is of paramount concern and is the primary focus of the Hazardous materials Specialists. Preparation for, response to, recovery from, and the mitigation of the contaminated SAR environment will require a coordinated response involving federal, state, local and tribal governments. Non-governmental organizations and private sector resources may also be requested for support. Hazardous materials Specialist positions were added to each national and state task forces for the specific hazards of a contaminated environment that often occurs during a disaster.

The initial focus and mission for technical search and rescue resources has also expanded to include response to terrorist incidents and hurricane disasters covering large geographic areas. Recent experience has demonstrated the need for US&R personnel to be fully prepared to work in a contaminated environment. Conducting SAR operations in a contaminated environment is dangerous and challenging. The health and safety of Task Force members is the top priority. As such, hazard and risk assessments by the Hazardous Materials Specialists, in conjunction with Medical Specialists, US&R Paramedics, and Safety Officers is necessary and will dictate a defensive or offensive posture. Local first responders may not have conducted an initial site characterization prior to US&R resource arrival. Therefore, US&R task forces will be required to verify atmospheric conditions prior to commencing operations. US&R task forces carry a limited supply of atmospheric monitors and personal protective equipment. Technical Rescue and US&R resources will need logistics support to continue extended SAR operations in a contaminated environment.

Logistics support includes but is not limited to:

- Water for decontamination
- Grade D breathing air
- Definitive site characterization from other agencies
- Reach-back analytical support services
- Hazardous waste and wastewater removal services

Technical Search and Rescue resources often will be operating within a Unified Command structure and will be working with responders from all levels of government. These may include but are not limited to:

- Local fire department hazardous materials teams
- State hazardous materials teams
- Environmental Protection Agency (EPA)
- Department of Justice (DOJ)
- Department of Defense (DoD), i.e.,
 - National Guard Bureau Civil Support Teams (CST)
 - Chemical, Biological, Radiological/Nuclear, and Explosive (CBRNE)
 - Enhanced Response Force Package Teams (CERFP))
- Department of Energy (DOE)
- Department of Labor (DOL), Occupational Safety and Health Administration (OSHA)
- Department of Homeland Security (DHS)
 - United States Coast Guard (USCG)
 - Customs and Border Protection (CBP)
 - Prepositioned Equipment Program Pods (PEP)
- Department of Health and Human Services (DHHS)
 - National Disaster Medical System (NDMS)
 - Centers for Disease Control (CDC)
- Department of Interior (DOI)

Standards and procedures for hazardous materials operations will meet existing regulatory guidelines and follow safe operating practices for contaminated environments. The utilization of NFPA 1994: “Standard on Protective Ensembles for First Responders to Hazardous Materials Emergencies and CBRN Terrorism Incidents” is critical to providing for the health and safety of US&R members.

Operational safety concerns include:

- Site characterization and Site Safety Plans
- Modified work cycles and medical surveillance

All Technical Search and Rescue members should receive basic training on response to hazardous materials incidents as well as added hazardous materials recognition, use of equipment, and decontamination training. The Medical Specialists, US&R Paramedics and Hazardous materials Specialists additionally should receive advanced training in their disciplines, relative to hazardous materials release situations. US&R task forces are not equipped, nor intended to operate as a hazardous materials team.

The following operations are not conducted by US&R task forces due to equipment limitations.

1. Bonding & grounding operations
2. Plugging & patching operations
3. Off-loading
4. Capping
5. Flaring
6. Definitive chemical agent identification (beyond presumptive determination)
7. Absorbing or removal (the use of dirt or other onsite materials to absorb small quantities of liquids is possible)
8. Site mitigation
9. Mass decontamination
10. Sustained refill of breathing air for SCBA
11. Containing more than 600 gallons of contaminated decontamination water

In a contaminated environment, California FEMA US&R Type 1 & 2 Task Forces are equipped, trained for, and designed to do the following using a combination of protective clothing and detection equipment. US&R task forces can:

1. Presumptively characterize a contaminated rescue site
2. Decontaminate task force personnel and limited survivors
3. Perform limited debris pile tunneling*
4. Perform limited breaching*
5. Perform limited shoring*
6. Perform limited search*
7. Perform limited survivor rescue/extraction*
8. Perform limited survivor and US&R personnel medical treatment
9. Shut off working valves
10. Perform other US&R functions where engineered controls can be used to manage the environment or limit the risk of protective equipment failure

* The limiting factor is determined by the capability and availability of the Personal Protective Equipment (PPE) for the environmental conditions.

Hazardous materials Specialists assigned to Technical Search and Rescue resources and/or incidents are essential to ensure the health and safety of survivors and rescuers. This can be accomplished through the application of limited monitoring, detection, and contamination-reduction capabilities.

In addition to their regular duties and responsibilities, these position-specific considerations should be in effect:

Safety Officer:

- Be knowledgeable in the operations being implemented at the emergency response site, with specific responsibility to recognize and identify hazards, and to provide direction regarding the safety of operations being conducted
- Assess the need for site security and determine what measures may be appropriate to ensure security. Make recommendations to the TFL for implementing a site security plan.
- If possible, be cross-trained as a hazardous materials technician (recommendation, but not a requirement).

Medical Team Manager (California FEMA Type 1 & 2 US&R Task Forces):

- Have extensive knowledge of the signs, symptoms, and effects of exposure to industrial and military grade agents, toxins, and contaminants. In addition to the regular duties and responsibilities of the Medical Team Manager, he/she also should:
- Have a deep awareness of hazardous materials exposure-related health issues, including prophylaxis and acute and chronic care.
- Remain in constant contact with the TFL and Safety Officer for situational updates.
- Rigorously monitor the health of all task force members and canines.

Hazardous Materials Team Manager or Hazardous Materials Specialists (California FEMA Type 1 & 2 US&R Task Forces):

- Meet all requirements of the Hazardous materials Specialist. In addition to the regular duties and responsibilities of the Hazardous materials Team Manager, he/she also should:
- Interface with the on-scene Incident Management Team and/or Incident Support Team (IST) Hazardous materials Specialist, and hazardous materials/environmental agencies at all levels of government.
- Evaluate the impact of current and future weather conditions.
- Provide safety briefing to personnel before commencing operations.
- Ensure that control zones have been established and enforced to protect the site and task force members.

This includes establishing:

- Hazard zones
- Decontamination corridors and methods
- Operational work areas
- Safe Refuge areas
- Begin the overall assessment process of operational areas to determine: Functional requirements and immediate needs
- Work schedules for extended operations, including rest and rotation periods for personnel
- Adequacy and availability of external agencies to provide support services (e.g., decontamination water supply, SCBA refill source, decontamination wastewater removal, and analytical laboratory resources)
- Ensure that ongoing site hazard and risk assessments are performed
- Develop the Site Safety Plan in coordination with the Safety Officer, other US&R resources and task forces, and hazardous materials/environmental agencies at all levels of government. This includes:
 1. Identifying emergency signaling procedures
 2. Planning contingencies for the rescue of task force personnel
 3. Establishing escape routes and safety zones

Providing input to the Safety Officer to ensure that the health and welfare needs of task force members are addressed

- Determine the proper level of chemical PPE for initial reconnaissance and subsequent operations.
- Ensure medical and decontamination functions are operational prior to entry into exclusion zones.
- Assign Hazardous materials Specialists as needed.
- Document hazardous materials group findings, actions, and activities.

The Site Safety Plan

In addition to the necessary components of the Operational Action, the Site Safety Plan should encompass all health and safety aspects of conducting SAR operations in or near a contaminated environment.

- Location and size of control zones and access control points Some of the areas that should be addressed in the Site Safety Plan are:
- Proper level of PPE in each zone

- Development of a decontamination plan to include:
 - Decontamination site locations, including access and egress for the decontamination corridor
 - Decontamination methods
 - Proper setup of the decontamination corridor
 - Safe refuge areas
 - Establishing a Rapid Intervention Team (RIT) outfitted with chemical protective clothing
- Medical monitoring of responders operating in chemical protective clothing
- Emergency signaling procedures, escape routes, and safety zones
- Responder accountability
- Establishment of a Responder Medical Treatment Team
- Work cycles and entry time parameters

All personnel operating on a US&R incident must be proficient in building triage and US&R marking systems. Standard building marking includes identification and identifying the presence of hazardous materials. Haz-Mat personnel operating during rescue and recovery operations should working with logistics personnel to establish and maintain a regular maintenance scheduled for hazardous materials cache items requiring calibration, battery charging, function tests, and field repair.

Haz-Mat personnel should gather appropriate hazardous material information from local sources and conduct a local site survey (and if possible, an aerial reconnaissance) for the general area (approximately a five-mile radius).

Efforts should include a sketch the general area and note the following:

- Location and status of major fixed facilities and transportation lines (i.e., nuclear power facilities, hazardous waste sites, refineries, etc.)
- Topography
- Prevailing weather conditions (i.e., present, 6-hour, 24- hour, and 72-hour forecasts)
- Evidence of smoke, flame, vapor cloud, etc.
- Visible structural damage to critical facilities

An assessment on the local capacity to treat possible hazardous material exposure to victims or rescuers and availability of decontamination, in the event of contact, as appropriate. Consideration must be given to rapid emergency decontamination to be followed by a more thorough technical decontamination if indicated.

Identify issues that could require the determination of:

1. Conditional entry, or

2. The cessation of operations, such as damage to nuclear facilities or installations causing the migration of hazardous products toward the specific rescue area.

- Flammable atmospheres (10% of the Lower Explosive Limit)
- Oxygen deficiencies
- Radiation levels
- Biological agents or contaminants
- Asbestos contamination
- Other specific products, as indicated

If indicated the Haz-Mat personnel should take steps to deny entry, unless appropriate protective action is taken, if the following conditions exist:

- Any positive flammable gas indicator readings
- Oxygen levels below 19.5% or above 22.0%
- Any toxic material readings within 10% of its Immediate Danger to Life and Health (IDLH)
- Obvious or perceptible fumes, odors, smoke, or vapor from a confined space, or where vision is obscured within five-foot levels
- Asbestos hazards
- Verify meter readings with a second meter and different operator, if possible. All readings will be documented according to operator and meter unit number, and will denote the findings, time, and location

Monitoring of working rescue sites must be ongoing as necessary. Haz-Mat technical assistance should be provided to the appropriate supervisory positions and any tactical accomplishments or conflicts, supplies deficiencies, or equipment malfunctions.

Chapter 11: Swiftwater/Flood Search & Rescue

This chapter updates and replaces ICS USAR 120-2: Swiftwater/Flood Search and Rescue Operational System Description and Law Enforcement Mutual Aid Plan (SAR) Annex (January 24, 2001), and ICS-SF-SAR 020-1: Swiftwater/Flood Search and Rescue Recommended Training, Skills, and Equipment List (January 24, 2001), both of which are hereby incorporated and codified within this document, ICS-162: Technical Search and Rescue Incident Operational System Description.

Firefighters and other rescuers in California encounter a wide range of Swiftwater and Flood Search & Rescue (SF/S&R) emergencies and disasters, including victims swept away in rivers, streams, and aqueducts, fast-moving flood control channels that can carry victims miles downstream through urban areas (requiring an organized response by multiple fire department and other public safety resources to intercept them); and victims caught in the hydraulics of low head dams. Other common rescue encounters include victims trapped by flash floods and mud & debris flows (which sometimes occur in the same weather events); victims submerged in lakes, ponds, reservoirs, and other bodies of water; widespread flooding events; the failure of dams¹ and levees, and even tsunamis and hurricane storm surges that can impact the coast and run up estuaries and river valleys and flood low-lying areas. These incidents sometimes strain local capabilities, creating the need for mutual aid resources.

For decades, Swiftwater and Flood Search & Rescue has been recognized as a formal mission of the California Fire Service, often operating in conjunction with California Law Enforcement Search and Rescue elements. This chapter identifies FIRESCOPE-recognized standards, and FIRESCOPE-typed resources that may be requested and employed by Incident Commanders (IC's) for the safe and effective resolution of SF/S&R emergencies and disasters. It focuses on the development and identification of SF/S&R resources that are part of the California Fire and Rescue Mutual Aid System². It includes but is not limited to:

- Organizational Development
- SF/S&R Resource Typing
- Training and Equipment
- Procedures and Guidelines for Emergency and Disaster Operations

From the first-arriving public safety unit that must size up and recognize hazards and take initial action, to other resources on a First Alarm assignment, to more advanced

¹ The second-worst life loss disaster in California history was the 1928 failure of the St. Francis Dam in Los Angeles County's San Francisquito Canyon, sending a 120-foot high wall of water down the canyon into the Santa Clara River Valley, wiping out settlements on its way to the Pacific Ocean. Deaths from this event are estimated around 500 people, many of whom were never recovered.

² The California Law Enforcement Mutual Aid Plan, SAR Annex, also includes parallel standards SF/S&R resources standards, part of the state's efforts to maintain consistent mutual aid resource typing standards and knowledge, skills and abilities (KSA's).

elements of local response, to regional and state resources requested through California's Mutual Aid System, to disaster response elements of the National Urban Search & Rescue Response System and the potential for interstate mutual aid, this chapter of the FIRESCOPE Technical Search & Rescue Operational System Description is intended to help ensure a standardized approach to saving lives while providing for the safety of rescuers.

These standards are intended to facilitate the safe and efficient rescue of victims in moving and still water; effectively searching areas that have become flooded; conducting search & rescue operations in collapsed structures inundated by rising water; reaching and rescuing persons and companion animals trapped by flood waters; maintaining rescuer safety precautions and conducting Rapid Intervention operations when necessary; performing waterborne rapid needs assessment (RNA) when conditions warrant; conducting waterborne search & rescue from watercraft; supporting rotocraft-based swiftwater and flood rescue operations, providing water access for specialized units to complete critical tasks; and augmenting local, state or federal resources during water-related disasters.

Since some of the same conditions that create flood hazards also can result in mud & debris flows (sometimes simultaneous to floods), it is recognized that SF/S&R resources may play an important role in search and rescue under those conditions, sometimes in combination with Urban Search & Rescue resources, heavy equipment, and other assets.

The requirements and standards herein are consistent with NFPA 1670, NFPA 1006, requirements of the State Fire Marshal (State Fire Training), CICCIS (California Incident Command Certification System), and NIMS Typing Standards. It is the responsibility of agencies responding to California Fire & Rescue Mutual Aid System requests to provide qualified personnel and equipment that meet or exceed the standards herein.

Initial Response to Swiftwater/Flood Search & Rescue Emergencies and Disasters

The first arriving public safety officer will direct initial SF/S&R operations. This officer will assume initial command of the operation as the Incident Commander (IC). Subsequent changes in the incident command structure will be based on the needs of the incident, with consideration of jurisdictional responsibilities, established agreements, state and local statutes and shall be accomplished by following established ICS procedures. Additional resources specifically trained and equipped for SF/S&R operations may be required. These SF/S&R resources may be requested and assigned as single resources, as Strike Teams, or as Task Forces.

Due to the unique hazards and complexity of swiftwater and flood rescue incidents, the IC may require a variety of different multi-disciplinary resources to accomplish the mission. FIREScope SF/S&R typing reflects identified operational capabilities based on specialized training, skills, and equipment, providing the I.C. with the tools and flexibility to conduct swiftwater/flood search and rescue operations in a safe and appropriate manner.

Unified Command

Unified Command should be considered at SF/S&R incidents and disasters when multiple agencies or jurisdictions with statutory or political authority and financial responsibility are involved. Unified Commanders involved in a Unified Command shall be co-located. A single Command Post has been demonstrated to be the best method to ensure effective communications, coordination of resources, and overall operational management of the incident.

Size Up

Swiftwater and flood rescue operations shall be coordinated, conducted, and managed based on the principles herein, beginning with determination of the nature and scope of the operations, and information from AHJ (Authority Having Jurisdiction), direction from Incident Command, interview witnesses, etc. Resources should assess conditions, hazards, situation and needs, including:

- Water conditions such as inundation with still or moving water, natural or manmade waterways, strainers and other navigation hazards, potential for additional inundation (levee failure, dam failure, storm surge, additional tsunamis, flash flooding, mud & debris flows, etc.), potential for still water to become moving water (levee failure, etc.), potential water contamination (all water should be assumed contaminated until determined otherwise), and other conditions and hazards.
- Evaluate the capabilities of responding assets and determine if additional resources like SF/S&R resources or other specialized assets are needed.
- Current and changing weather (be cognizant of weather events in the total runoff area for the impact area in which you are operating).
- Determine the most appropriate resources (including watercraft, rotorcraft, high water vehicles, heavy equipment, etc.) to conduct or support operations.
- Considerations for useable daylight hours (time of day) for current and extended operational periods.
- Other factors that may affect the viability and safety of water operations. Conduct a risk-benefit analysis to identify the risks and determine the most appropriate tactics and strategy.

Search Operations in Water Environment

The most effective search strategy should blend tactical capabilities into a logical strategy to meet the objective. Naturally this will vary based on the scene conditions and needs. The search for a missing swimmer, or a victim swept away in a natural river, a flash flood, or a manmade aqueduct, a flood channel that may have carried a victim several miles downstream requiring a coordinated intercept rescue, or the failure of a dam or even a storm surge or tsunami, will necessitate different tactics and resources. Weather, time of day (e.g., daylight or darkness), current or anticipated water conditions, and the victim survivability profile, must be considered for effective, methodical, and timely initial and (if necessary) sustained search operations.

Some resources with limited Swiftwater/Flood Search & Rescue training and equipment may be restricted to shore-based search operations, while others with more advanced capabilities will be prepared to conduct in-water, on-water, or over-water search functions.

Providing Lookouts, Downstream Safety, and other safety measures is key where moving water, flood, mud & debris flow, dam failure, tsunami, or other conditions merit.

Wide Area Flood-Impacted or Waterborne Search

General accepted strategy for wide area search operations in a flood-impacted or waterborne environment begins with evaluating the scope and nature of the area to be searched, and the conditions that created the need for search operations and how those conditions may affect present and future operations. In some cases, there may be many structures damaged or surrounded by water or buried in mud and debris. The search area may be segmented by city block or other easily definable criteria, or it may be in a canyon, on a mountainside, along a beach, or in a flood plain. Each will require or organized approach for timely and safe access and search operations.

Wide Area Search (WAS) data collection methodology and tools are rapidly evolving and improving the accuracy, reportability, and use of Wide Area Search Data. The Incident Commander should ensure that appropriate Wide Area Search Data Collection methodology is being applied to the emergency or disaster, an example being SARCOP (SAR Common Operating Platform), which has been adopted by the California Urban Search & Rescue and the California Fire & Rescue Swiftwater/Flood Search & Rescue Systems.

Search and Rescue in Structures in the Water Environment

Proper search methodology is critical, including identifying structures that have been searched, how, by whom, and when (see Chapter 10, section Structure Hazard Markings, and refer to the Structure Triage, Assessment, and Marking System

Handbook.) All locations searched will be identified and logged with current data collection platforms (SARCOP, GPS coordinates), and photographed as necessary with results.

Triage of occupancies may be necessary to determine search focus in structures that present the highest likelihood of survivability (factors like type of construction, height/number of stories, proximity to high ground, and others). Access and proximity also may affect decisions about triaging search operations. Consideration should be paid to single story occupancies where there would have been fewer places to escape rising water. Particular attention should be focused on roofs and in attics where survivors may have found shelter and may be trapped within or on top.

The tactics for searching structures compromised by water will depend on the depth of the water remaining in the structure. If the water has been evacuated from the structure, the search and rescue operations will be consistent with current standards. If water remains in the structure, a thorough risk benefit analysis must be completed. Considerable damage may be sustained and unable to be assessed due to being underwater.

If water remains in the structure, it is probable that survivors will have moved to the highest levels of the structure, specifically in upper floors, on the roof, or in the crawl space in an attic. Rescuers must be prepared to perform inspection holes and to breach roofs to gain access to the attic space.

Recommended tool cache for boat-based search operations (with appropriate adjustments made for rotorcraft-based search/rescue)

- Forcible entry tools: Axe with cover, Halligan etc.
- Water Floatable Rope throw bags
- Survivor PFDs
- Chain Saw with protective cover-optional or stage at launch site
- Data collection device and/or GPS
- Marking paint
- Marking stickers
- Search camera
- Thermal Imaging Camera
- Atmospheric monitor
- Hot Stick
- Companion animal essentials
- Flashlights

Helicopter Access and Search/Rescue Operations

The transportation of boats and rescue crews to operational sites by helicopter may be dictated by conditions of the emergency or disaster, including current and anticipated weather, daylight or darkness, rotorcraft availability and typing, training of the helicopter crews, etc. Personnel should take into consideration the size of the boats, motors, and associated equipment in addition to the crew when requesting helicopter resources. The helicopter crew chief shall dictate the securing of boats and equipment.

Companion Animal Rescue

The rescue of “companion animals” has long been a factor in the successful evacuation and rescue of victims in flood emergencies and disasters. Some people simply will not self-evacuate with no means for taking their companion animals, and they may resist rescue if their companion animals are not accommodated. This creates additional complications for rescuers that may be relieved by determining early that companion animals will be rescued where feasible, and that any companion animals forced by conditions to be left behind will be the focus of appropriate follow-up actions (i.e., rescue when conditions allow).

On 10/6/2006, the Robert T. Stafford Disaster Relief and Emergency Assistance act was amended to include the Pet Evacuation and Transportation standards act (PETS). PETS requires responders to consider pet owners, household pets and service animals when engaging in emergency operations. This act does not apply to horses, cattle, or any livestock, but public safety personnel should report conditions where those animals also may be in need of rescue or support, so appropriate measures can be taken to save those that can be located and evacuated from flood zones (or so they can be fed and sheltered in placed until flood conditions de-escalate).

Use caution when transporting animals on boats or in rotorcraft. If possible, secure the safety of humans first, and if necessary return for animals, in accordance with the PETS amendment of the Stafford Act. Precautions should be taken to protect the survivors and rescuers from adverse actions by any animal taken on board a boat during rescue operations. Consider the use of muzzles and restraints. Rescuers must communicate with personnel at designated collection points the number, size and condition of animals being rescued, so that appropriate accommodations may be made for their care and evacuation.

Hazardous Materials & Decontamination for Water Environment

Water operations may include working in bodies of water contaminated with hazardous substances or microorganisms harmful to humans and canines. Water Rescue Teams shall have the ability to decontaminate all personnel, canines, PPE, boats, trailers, and

water operations cache equipment following operations in contaminated water environments.

Waters may contain various chemical and biological waste products. This may be the result of saturated ground, the overwhelming of sewage and septic systems, or industrial run-off. Potential contamination is always a consideration when entering floodwaters; therefore, all appropriate PPE, will be used. Decontamination (Decon) should be performed after each entry. Completion of exposure reports is recommended for all entries into floodwaters.

Decontamination

Personnel

After exiting the water, even for short periods during the operational period, members should go through a Decon* wash with soap and clean water.

All members are required to wash hands before entering vehicles and eating areas. Hand washing is essential to reduce secondary contamination.

Water samples should be taken for testing from areas entered by the team. All personnel exposed to the contaminants should be monitored following any exposure.

Hazardous Materials / Biological Hazards

The following is a list of common illnesses associated with exposure to flood waters:

- Gastrointestinal illnesses following ingestion of contaminated water or food
- Infectious hepatitis or aseptic meningitis from viruses in sewage contaminated water
- Leptospirosis following exposure to flood waters contaminated by animal urine
- Intestinal bacteria such as: E. Coli, Salmonella, Shigella, Hepatitis A Virus, and agents of typhoid, paratyphoid, and tetanus

Equipment

When contaminated, equipment should be decontaminated per manufacturer recommendation or as recommended by on-scene Hazardous Materials personnel.

Table 1 – Swiftwater/Flood Search and Rescue Team Skills

The following skills are required for FIREScope-typed SF/S&R Teams (see Chapter 4: Position Descriptions and Training Requirements). A number indicates the minimum number of members on the team with indicated skills. “X” indicates required skills for all team members.

*Table 1 Swiftwater/Flood Search and Rescue Team (X=required for all Team Personnel, * = optional item)*

Swiftwater/Flood Search & Rescue Team	Type 1	Type 2	Type 3	FEB
Animal Rescue Technician	2	0	0	1
Communications (Radios)	1			
EMS-ALS Capability	2			
EMS-BLS Capability	X	X	X	X
Hazardous Materials Training for First Responders (FRO)	X	X	X	X
Helicopter/Aquatic Rescue Operations Training*	4	2		
Helicopter Operations Awareness Training	X	X	X	
Motorized Boat Operator	4	3	2	2
Rope Rescue Technician	X	X	X	
Public Safety Diver Certified*	4*			

***All team personnel trained to the NFPA standard of River and Flood Technician level*

Table 2 - Swiftwater/Flood Search and Rescue Resource Typing

Table 2 Swiftwater / Flood Search and Rescue Resource Typing

Type	Type 1	Type 2	Type 3
Capabilities	S&R Operations Motorized Boat Operations Helicopter/Aquatic Rescue Operations (4*) Rope Rescue Technician Hazmat FRO Animal Rescue Technician ALS (2) Radios Helicopter-based operations Self-sufficient 24-hours	S&R Operations Motorized Boat Operations Helicopter/Aquatic Rescue Operations (2*) Rope Rescue Technician Hazmat FRO BLS Radios Helicopter -based operations Self-sufficient 24-hours	S&R Operations Motorized Boat Operations Rope Rescue Technician Hazmat FRO BLS Radios Self-sufficient 24-hours

Table 3 – Swiftwater/Flood Search and Rescue Organization Table

Table 3 Swiftwater / Flood Search and Rescue Organization Table

Resource	Component	Type 1 *Meets requirements for Mission Ready Package	Type 2	Type 3
Swiftwater/ Flood Search and Rescue Team	Equipment	Type 1 Inventory	Type 2 Inventory	Type 3 Inventory
	Personnel	16 Member Team: 2 Team Leader 4 Boat Operators 4 Boat Bowman 2 Animal Rescue Technician 1 Logistics Specialist skill set 1 Communications Specialist skill set 2 Swiftwater Technicians	12 Member Team: 2 Team Leader 3 Boat Operators 3 Boat Bowman 1 Logistics Specialist skill set 3 Swiftwater Technicians	6 Member Team: 1 Team Leader 2 Boat Operators 2 Boat Bowman 1 Swiftwater Technicians
	Transportation	Transportation Equipment trailer Personnel transport vehicles	*	*

**Requests should include vehicle capabilities when necessary (i.e., four-wheel drive).*

***All team personnel trained to the NFPA standard of River and Flood Technician level*

Table 4 - Flood Evacuation Boat Typing

Table 4 Flood Evacuation Boat Typing (Order these resources by type, hull design, and power type if critical)

Type		Type 1	Type 2	Type 3	Type 4	Type 5
Minimum Victim Transport per Trip		5+	3 – 5	3	2	2
Special Needs and Notes		May need launch ramp Power Boat	May need launch ramp Power Boat	Hand Launch Power Boat	Hand Launch 2 Personal Watercraft (PWC)	Hand Launch No Motor
Flood Evacuation Boat	Equipment	FEB Inventory	FEB Inventory	FEB Inventory	FEB Inventory	FEB Inventory
	Minimum Personnel	2	2	2	2	2
	Transportation	*	*	*	*	*

*Requests should include vehicle capabilities when necessary (i.e., four-wheel drive).

**All team personnel trained to the NFPA standard of River and Flood Technician level.I

** For further details refer to the Minimum Equipment List (Appendix A)

Boat-Based SF/S&R Staffing & Personnel Configuration:

Team consideration should be made for personnel that are cross-trained in water operations and the following disciplines.

- Logistics
- Medical
- Search
- Hazardous materials
- Safety
- Communications

These standards require a minimum of two qualified Boat Operators assigned to each boat when a Type1 Swiftwater/Flood Search and Rescue Team is deployed and a minimum of one Boat Operator assigned to each boat when a Type 2 Swiftwater/Flood Search and Rescue Team is deployed (see Swiftwater/Flood Search and Rescue Team Skills Table 1 on page 135.

The minimum Personal Protective Equipment (PPE) worn/carried by Team personnel engaging in water operations shall include:

- Personal flotation device (PFD)
- Helmet appropriate for water operations
- Cutting device (knife, scissors, etc.) attached to the PFD
- Whistle
- Locating light (i.e.: strobe, light stick, etc.)
- Throw bags (minimum two per watercraft)
- Personal Waist Throw Bag
- Footwear appropriate to conditions and operations
- Respiratory protection when conditions warrant
- Eye protection when conditions warrant
- Appropriate gloves
- Thermal protection
- Contamination protection (dry suit) as conditions dictates
- Headlamp and other lighting appropriate for inclement weather and/or low light conditions.

Boat-Based (Waterborne) Water Operations

Review strategic and tactical objectives, launch point and potential exit points, communications plan including hand signals, emergency protocols, medical plan, etc.:

- All passengers/survivors shall properly don a PFD and helmet
- A minimum of 4 spare helmets and PFDs should be carried anytime survivors may be encountered
- Anyone entering the water shall wear a dry suit or hip waders that provide contamination protection
- The depth of the water shall be assessed prior to entry
- Ensure that Team and Boat capabilities are adequate for conditions encountered
- All boats shall have radio communications with land-based Team members
Boat Teams need to be prepared for extenuating developments such as combative animals.
- Team members should be aware of conditions that produce heat stress, dehydration, hyper and hypothermia

Safe Boating Operations

- Operation of boat should be in accordance with boat manufacturers' recommended specifications and boat operations training
- Rescuers should provide downstream safety
- It is recommended that Teams operate in tandem when possible
- Special consideration should be used with flat bottom boats as they can become unstable in moving water
- Boats used in night operations shall have appropriate navigational lights.

- Personnel should monitor weather and “sea-state” conditions to assist in decision making for limited use of boats

Launch Operations

During urban flooding situations, alternative boat launch locations may be needed. Teams may need to utilize flooded roadways, ramps and, bridge approaches as launch ramps. Partnering with local or military assets may prove valuable as they have high clearance vehicles to transport over areas that are too shallow for launch of a boat. When the water is too deep for high water vehicles, then the boat can be launched from the cargo area. Any launch area should be evaluated for the possibility of being unusable due to high or low water conditions/hazards.

Plan for alternate launch/recovery sites due to changes in water levels.

Deployment by Ground

Ensure that appropriate equipment such as ratchet straps, chains; binders, etc. are provided to tie down boats and equipment. All Teams should have appropriate travel plans in place prior to deployment.

Deployment by Air

Configure the SF/S&R Team equipment cache to be deployed by air, including proper packaging and required shipping documentation (i.e. hazardous materials packaging and labeling, etc). Vehicles and trailers to be air-transported should be pre-certified as such when feasible. A best practice is to conduct joint training and exercises with an affiliated airlift facility to ensure that vehicles, trailers, and water operations equipment cache are ready to be deployed by air. Appropriate equipment such as ratchet straps, chains; binders, etc. are provided to tie down boats and equipment into and/or onto boat and/or support trailers.

Training

- Swiftwater/Flood Search and Rescue Technician and Swiftwater/Flood Search and Rescue Technician – Boat Operator training shall be consistent with NFPA 1006: Professional Qualifications of the Technical Rescuer
 - Chapter 16, Surface Water Rescue Technician
 - Chapter 17, Swiftwater Rescue Technician
 - Chapter 21, Watercraft Rescue Technician
 - Chapter 22, Floodwater Rescue Technician

Chapter 12: Incident Support Team Roles and Responsibilities

This chapter provides a description and duties of the Urban Search and Rescue (US&R) Incident Support Team (IST).

This description details the methods of operation, organization, position descriptions, administrative and general guidelines for IST members, and their integration into a federal response.

The IST is designed to supply a group of highly qualified specialists readily available to mobilize within two hours of an activation and deploy to carry out the IST mission statement. IST members are self-sufficient for at least 24 hours and prepared for a response assignment of up to 14 days. The IST is supported by FEMA with equipment caches dispatched upon deployment. FEMA maintains three separate IST equipment caches containing communications equipment, computers, printers, office supplies, food, water, tents, limited medical supplies, and vehicles to support an IST.

The IST provides Federal, State, and Local officials with technical assistance in the acquisition and utilization of ESF #9 resources through advice, Incident Command assistance, management, coordination, and logistical support of National US&R Response System resources. Based on the needs of the affected State, IST activation could occur prior to a confirmed need to the alert and activation of other System resources.

A FEMA US&R IST coordinates the arrival of System resources. The IST can provide overhead management and logistical support to the resources while on deployment if the appropriate ICS organization is not in place. If an ICS organization is in place, the IST will integrate into that structure and any operational System resources will work within the local incident command structure.

Upon activation by FEMA Headquarters and under direction of the IST Leader, the IST rapidly responds to an impending incident or one that has just occurred and assesses the need for and potential use of System, or other, resources.

Incident Support Team Advanced

The initial element of the IST, referred to as the Advanced IST, represents FEMA's initial efforts to establish on-site management and support for anticipated or actual arrival of one or more System resources at a disaster or pre-planned event. The Advanced IST is composed of 14 positions and 15 personnel. The Advanced IST will be deployed when the expected scope and complexity of the mission are not yet known, such as a weather related standby, or if a full IST is not required at the time of activation.

The IST-Advanced is made up of:

- 1-Federal US&R Officer (ESF #9 Group Supervisor)
- 1-IST Leader
- 1-IST Safety Officer
- 2-IST Liaison Officers
- 1-IST Medical Officer
- 1-Operations Section Chief
- 1-Aviation Branch Director
- 1-Planning Section Chief
- 1-IST Situation Unit Leader
- 1-IST Logistics Section Chief
- 1-IST Communications Unit Leader
- 1-IST Ground Support Unit Leader
- 1-IST POA/Mobilization Center Specialist
- 1-Federal Contracting Officer

Full Incident Support Team (IST)

As the scope of the disaster is realized or the IST becomes operationally involved in the incident, the IST Leader will consult with the AHJ and the FEMA US&R Branch to recommend an expansion of the IST to fill all the IST positions necessary to maintain timely and effective incident management. The Full IST is composed of 20 positions and 32 personnel and is made up of:

- 2-Federal US&R Officer (ESF #9 Group Supervisor)
- 2-IST Leader
- 2-IST Safety Officer
- 1-IST Public Information Officer
- 2-IST Liaison Officers-Type 1
- 2-IST Liaison Officers-Type 2
- 2-IST Medical Officer
- 2-IST Operations Section Chief
- 2-IST Division Supervisors
- 1-Aviation Branch Director
- 2-Planning Section Chief
- 1-IST Situation Unit Leader
- 1-IST Resource Unit Leader
- 1-IST Structures Specialist
- 1-IST Hazardous Materials Specialist
- 2-IST Logistics Section Chief
- 2-IST Communications Unit Leader
- 1-IST Ground Support Unit Leader
- 1-IST POA/Mobilization Center Specialist
- 2-Federal Contracting Officer

IST Expanded Team

Dependent upon the scope of the disaster the IST may be expanded to maintain timely and effective incident management. The IST Leader will consult with the AHJ, the FEMA IMAT or Region they are reporting to, the ESF #9 Group Supervisor, and the US&R Branch to recommend an expansion of the IST and request the additional staffing. The Expanded IST may include multiple positions depending on the operational area and complexity of the incident, and the number of Division or Group Supervisors, Liaison Officers, and Field Observers may be increased as needed.

Chapter 13: Resource Quality Assurance and Recertification

Pre-Incident and Post Incident Exercise and Evaluation

Pre or post incident/exercise evaluations can be valuable for conducting future training and to evaluate personnel. This process can be of immense value to individual department members as well as the organization supporting technical rescue resources. Placing emphasis in instituting the lessons learned from Post Incident Analysis and informal critiques will re-enforce safety and efficiency.

Exercises allow personnel to validate training and practice strategic and tactical prevention, protection, and response capabilities in a risk-reduced environment. Exercises are the primary tool for assessing preparedness and identifying areas for improvement, while demonstrating department efforts to prepare for major incidents. Exercises aim to help the department gain objective assessments of its capabilities so that gaps, deficiencies, and vulnerabilities can be addressed prior to a real incident.

The evaluated exercise is capabilities and performance based and provides a standardized policy, methodology, and terminology for exercise design, development, conduct, evaluation, and improvement planning.

In accordance with Homeland Security Presidential Directive 8 (HSPD-8) and the National Preparedness Goal, technical rescue resources should use a capabilities-based approach to individual exercises and exercise program management.

Foundation

The following activities must be accomplished to provide the foundation for an effective exercise:

1. Create a base of support (i.e., establish buy-in from the appropriate command personnel).
2. Develop a project management timeline and establish milestones.
3. Identify an exercise planning team.
4. Schedule planning conferences.

Design and Development

Building on the exercise foundation, the design and development process focuses on identifying:

1. Objectives
2. Designing the scenario
3. Creating documentation
4. Coordinating logistics
5. Selecting an evaluation and improvement methodology.

Conduct

After the design and development steps are complete, the exercise takes place. Exercise conduct steps include setup, briefings, facilitation/control/evaluation, and wrap-up activities.

Evaluation

The evaluation phase for all exercises includes:

1. A formal exercise evaluation,
2. An integrated analysis and
3. An After-Action Report that identifies strengths and areas for improvement in an entity's preparedness, as observed during the exercise.

Improvement Planning

During improvement planning, the corrective actions identified in the evaluation phase are assigned, with due dates, to responsible parties; tracked to implementation; and then validated during subsequent exercises.

Corrective Action

After an exercise or major incident, an evaluation produces an After-Action Report (AAR), which defines specific corrective actions that should be taken to remedy issues observed during an incident or exercise evaluation. An AAR assigns all corrective actions to a responsible person, division, or bureau, and includes incremental benchmarks and deadlines for completion. An AAR is a requirement if the exercise is federally or state grant funded (Ref. Homeland Security Exercise and Evaluation Program).

Identifying Exercise Stakeholders

1. Exercise managers should identify stakeholders as possible and seek to create a database, cataloging stakeholder points of contact (POCs). This database lists each POC's contact information, areas of expertise, and prior exercise experience.
2. When identifying stakeholders, exercise managers should consider individuals who would be involved in an actual incident or event, including:

- a. Individuals with administrative responsibility relevant to exercise
- b. Representatives from all disciplines to be included in exercises
- c. Representatives from important private sector entities
- d. Federal, State, local, private, and non-government officials who impact or are affected by exercise activities.

Exercise Types

The type of exercise that best meets a specific goal requirement is identified through analysis of the capabilities that a resource is attempting to validate; the incident lessons learned and the training and exercises that has already been conducted; and the resources available for exercise planning, conduct, and evaluation.

Discussion-Based Exercises

Discussion-based exercises are normally used as a starting point in the building-block approach of escalating exercise complexity. Discussion-based exercises include seminars, workshops, and tabletop exercises (TTXs).

These types of exercises typically highlight existing plans, policies, interagency/inter-jurisdictional agreements, and procedures. Discussion-based exercises are valuable tools for familiarizing personnel with current or expected capabilities. Discussion-based exercises typically focus on strategic, policy-oriented issues.

Tabletop Exercises (TTX)

TTXs involve key personnel discussing hypothetical scenarios in an informal setting. This type of exercise can be used to assess plans, policies, and procedures or to assess the systems needed to guide the response to a defined incident. TTXs typically are aimed at facilitating understanding of concepts, identifying strengths and shortfalls, and achieving changes in the approach to a particular situation.

Participants are encouraged to discuss issues in depth and develop decisions through slow-paced problem solving, rather than the rapid, spontaneous decision making that occurs under actual or simulated emergency conditions. The effectiveness of a TTX is derived from the energetic involvement of participants and their assessment of recommended revisions to current policies, procedures, and plans.

Operations-Based Exercises

Operations-based exercises represent the next level of the exercise cycle. They are used to validate the plans, policies, agreements, and procedures solidified in discussion-based exercises. Operations-based exercises include drills, functional exercises (FEs), and full-scale exercises (FSEs). They can clarify roles and responsibilities, identify gaps in resources needed to implement plans and procedures, and improve individual and team performance.

Operations-based exercises are characterized by actual reaction to simulated intelligence; response to emergency conditions; mobilization of apparatus, resources, and/or networks; and commitment of personnel, usually over an extended period.

Drills

A drill is a coordinated, supervised activity usually employed to validate a single, specific operation or function in a single agency or organizational entity. Drills are commonly used to provide training on new equipment, develop or validate new policies or procedures, or practice and maintain current skills. Typical attributes of drills include: a narrow focus, measured against established standards; immediate feedback; a realistic environment; and performance in isolation.

Functional Exercises (FE)

An FE is designed to validate and evaluate individual capabilities, multiple functions, activities within a function, or interdependent groups of functions. Events are projected through an exercise scenario with event updates that drive activity. An FE simulates the reality of operations in a functional area by presenting complex and realistic problems that require rapid and effective responses by trained personnel in a highly stressful, time-constrained environment.

Full-Scale Exercises (FSE)

The FSE is the most complex type of exercise. FSEs are typically multi-agency and multi-organizational exercises that validate many areas of preparedness. They focus on implementing and analyzing the plans, policies, procedures, and cooperative agreements developed in discussion-based exercises and hone previous, smaller, operations-based exercises.

During FSEs, events are projected through a scripted exercise scenario with built-in flexibility to allow updates to drive activity. FSEs are conducted in real time, creating a stressful, time-constrained environment that closely mirrors real events. The level of support needed to conduct an FSE is greater than that needed during other types of exercises.

FSEs include operating under the principles of the ICS system to respond to an incident effectively and efficiently. Personnel and resources are mobilized and deployed to the scene where they conduct their activities as if a real incident had occurred (with minor exceptions). An FSE also may include functional play from participants not located at the exercise incident response site, such as multi-agency coordination centers (MACCs), EOCs, or hospitals.

Exercise Planning Team

The exercise planning team is responsible for the successful execution of all aspects of an exercise, including exercise planning, conduct, and evaluation. The planning team determines exercise objectives; tailors the scenario to the needs; and develops documents used in exercise simulation, control, and evaluation. While each exercise has its own planning team, personnel may carry over from one exercise to the next, and it may be advantageous to include team members with previous exercise planning experience.

The exercise planning team should seek to incorporate representatives from each major participating entity but should be kept to a manageable size. The membership of an exercise planning team can be modified to fit the type or scope of an exercise. The team can most effectively be structured using Incident Command System (ICS) principles. The team's project management should clearly define roles and responsibilities and a manageable span of control.

Planning team members also help develop and distribute pre-exercise materials and conduct exercise briefings and training sessions. Due to this elevated level of involvement, planning team members are ideal selections for facilitator, controller, and/or evaluator positions during the exercise.

However, the advanced scenario and events knowledge gained by exercise planning team members renders them ineligible to participate in the exercise as players. Planning team members should not release scenario-related information to players prior to an exercise.

Capabilities, Tasks, and Objectives

Exercise capabilities, tasks, and objectives are key to design and development. The planning team must consider all the capabilities being evaluated. Each capability has specific tasks associated with it that should be performed and validated during the exercise.

Well-defined objectives provide a framework for scenario development, guide objective development, create evaluation criteria, and synchronize various agencies' efforts towards common goals to prevent duplication of effort and focus support on exercise priorities.

Use of objectives that are simple, measurable, achievable, realistic, and task-oriented (SMART). Exercise planners should limit the number of exercise objectives to enable timely execution and to facilitate design of a realistic scenario.

Scenario

A scenario provides the storyline that drives an exercise.

The first step in designing a scenario is determining the type of threat/hazard (e.g., chemical, explosive, natural disaster) to be used in an exercise. The hazards selected for an exercise should realistically stress the resources an entity is attempting to improve through the exercise. The scenario should also be a realistic representation of potential threats and hazards faced by the resource being evaluated.

The next step in designing a scenario is to determine the venue (i.e., facility or site) in which exercise will take place. Venue selection should reflect the hazard selected, allowing for realistic, exercise-based simulation of the hazard.

Documentation

The list below briefly describes the important document types associated with most exercises.

1. A **Situation Report** is a participant report for discussion-based exercises, particularly TTXs. It provides background information on exercise scope, schedule, and objectives. It also presents the scenario narrative that will drive participant discussions during the exercise.
2. An **Exercise Plan** typically used for operations-based exercises, provides an exercise synopsis, and is published and distributed to players and observers prior to the start of the exercise. The Exercise Plan gives objectives and scope and assigns roles and responsibilities that must be carried out for successful exercise execution.
3. A **Controller and Evaluator** supplements for the Exercise Plan, containing more detailed information about the exercise scenario and describing exercise controllers' and evaluators' roles and responsibilities. Because the Controller & Evaluator Section contains information on the scenario and exercise administration, it is distributed only to those individuals specifically designated as controllers or evaluators.
4. A **Scenario Event Timeline** is a chronological order of expected actions and scripted events (i.e., injects) to be inserted into exercise play by controllers to generate or prompt player activity. It ensures necessary events happen so that all exercise objectives are met.

5. A **Player Handout** is a 1–2-page document, usually handed out the same day of an operations-based exercise provides a quick reference for exercise players on safety procedures, logistical considerations, exercise schedule, and other essential information.
6. **Exercise Evaluators Guidelines (EEG)’s** help evaluators collect and interpret relevant exercise observations. EEGs provide evaluators with information on what tasks they should expect to see accomplished or discussed during an exercise, space to record observations, and questions to address after the exercise as a first step in the analysis process and development of the After-Action Report. EEGs are not report cards—rather, they are intended to guide an evaluator’s observations so that the evaluator focuses on capabilities and tasks relevant to exercise objectives to support development of the AAR.
 - Exercise **policies** are implemented to prevent or, at a minimum, mitigate the impact of an action that may cause bodily harm to participants, destruction of property.
7. **Logistical** details are important (but often overlooked) aspects of an exercise. They can make the difference between a smooth, seamless exercise and one that is confusing and ineffective. Discussion-based exercises require attention to logistical details, such as the availability of appropriately sized and comfortable meeting and briefing rooms, food and refreshments, audiovisual equipment, facilitation and note-taking supplies, badges and table tents, registration assistance, and direction signs.

Operations-based exercises require badge/role identification, access to restrooms, food and water, on-site communications, arrangement of videotaping, props, site security, adherence to the weapons check policy, and observation of safety precautions.

Exercise Conduct

After design and development activities are complete, the exercise takes place. Prominent steps in exercise conduct include setup; briefings; management of facilitators, controllers, evaluators, players, and actors; and wrap-up activities.

Setup

1. The exercise planning team should visit the exercise site at least 1 day prior to the event to set up the site. On the day of the exercise, planning team members should arrive several hours before the scheduled start to handle any remaining logistical or administrative items pertaining to setup and to arrange for registration.

2. For a discussion-based exercise, room layout is particularly important. When setting up an operations-based exercise, planners must consider the assembly area, response route, response operations area, parking, registration, observer/media accommodations, and a possible Simulation Cell (Green Cell) facility.
3. Restrooms and water must be available to all participants, observers, and actors.
4. All individuals permitted at the exercise site must wear some form of identification.
5. Perimeter security and site safety during setup and conduct are essential.

Presentations/Briefings

Presentations and briefings are important tools for delivering necessary exercise-related information to participants.

A discussion-based exercise generally includes a multimedia presentation to present the scenario.

An operations-based exercise may include briefings for controllers/evaluators, actors, players, and observers/media. Briefings and presentations are opportune times to distribute exercise documentation, provide necessary instructions and administrative information, and answer any outstanding questions.

Personnel

In both discussion-based and operations-based exercises, **facilitators**, and **controllers** guide exercise play. During a discussion-based exercise, the facilitator is responsible for ensuring that participant discussions remain focused on the exercise objectives and making sure all issues and objectives are explored as thoroughly as possible within the available time.

In an operations-based exercise, controllers plan and manage exercise play, set up and operate the exercise incident site, give key data to players, and may prompt or initiate certain player actions.

All controllers are accountable to one senior controller.

Evaluators are selected from participating agencies to evaluate and comment on designated functional areas of the exercise. Evaluators are chosen based on their expertise in the functional areas they evaluate. Evaluators have a passive role in the exercise and should only record the actions/decisions of players; they should not interfere with exercise flow. Evaluators use EEGs to record observations and notes.

Players have an active role in responding to an incident by either discussing (in a discussion-based exercise) or performing (in an operations-based exercise) their regular roles and responsibilities.

Actors are volunteers who simulate specific roles, such as disaster casualty victims, to add realism to an exercise.

Simulators, generally controllers, perform the roles of individuals, agencies, or organizations that are not actually participating in the exercise to drive realistic exercise play.

Evaluation

Evaluation is key to exercises; it documents strengths and areas for improvement in the participant's preparedness. The analytical outputs of the evaluation phase feed improvement-planning activities.

Hot Wash and Debrief

Both hot washes (for exercise players) and debriefs (for facilitators, or controllers and evaluators) follow discussion- and operations-based exercises.

A hot wash is conducted in each functional area by that functional area's controller or evaluator immediately following an exercise, and it allows players the opportunity to provide immediate feedback. A hot wash enables controllers and evaluators to capture events while they remain fresh in players' minds to ascertain players' level of satisfaction with the exercise and identify any issues, concerns, or proposed improvements. The information gathered during a hot wash can be used during the AAR.

A debrief is a more formal forum for planners, facilitators, controllers, and evaluators to review and provide feedback on the exercise. It may be held immediately after or within a few days following the exercise.

The exercise planning team leader facilitates discussion and allows each person an opportunity to provide an overview of the functional area observed. Discussions are recorded and identified strengths and areas for improvement are analyzed for inclusion in the AAR.

After Action Report / Improvement Plan

An AAR is used to provide feedback to the Department on its performance during the exercise. The AAR summarizes exercise events and analyzes performance of the tasks identified as important during the planning process. It also evaluates achievement of the selected exercise objectives and demonstration of the overall capabilities being validated.

To prepare the AAR, exercise evaluators analyze data collected from the hot wash, debrief, EEGs, and other sources (e.g., plans, procedures) and compare actual results with the intended outcome. The level of detail in an AAR is based on the exercise type and scope.

AAR conclusions are discussed and validated at an After-Action Conference that occurs within several weeks after the exercise is conducted.

Improvement Planning

During improvement planning, corrective actions from the AAR—such as additional training, planning, and/or equipment acquisition—are assigned, with due dates, to responsible parties. They are then tracked to completion, ensuring that exercises result in tangible benefits to preparedness.

Improvement Plan

The IP portion of an AAR converts lessons learned from the exercise into concrete, measurable steps that result in improved response capabilities. It specifically details the actions that the Department should take to address each recommendation presented in the draft AAR, who or what division is responsible for taking the action, and the timeline for completion.

Improvement Tracking and Planning

Once recommendations, corrective actions, responsibilities, and due dates are clearly identified in the AAR, the Training Division and Operations Bureau ensures that each corrective action is tracked to completion.

Continual AAR tracking and implementation should be part of a corrective action program. A corrective action program ensures AAR are living, breathing documents that are continually monitored and implemented, and that they are part of the larger cycle of improving preparedness.

Conclusions

The “Conclusions” section of the report should be used as a summary of all the sections of the AAR. It should include the following:

- *Participants demonstrated capabilities*
- *Lessons learned for improvement and major recommendations*
- *A summary of what steps should be taken to ensure that the concluding results will help to further refine plans, procedures, training for this type of incident.*

Recertification

Cal OES typed resources should submit copies of exercise AAR's to their respective Cal OES Operational Area Coordinator periodically and/or as directed by the individual Area Coordinator. All California FEMA US&R Task Forces shall be evaluated every five (5) years. Evaluations for California FEMA Task Forces shall follow established evaluation guidelines according to FEMA. Copies of evaluations should be provided to Cal OES thru established procedures.

All California Regional US&R Task Forces shall be evaluated every 5 years. Task Force evaluation exercises will be scenario based and should exercise a wide range of performance expectations, including but not limited to:

- Ability to effectively mobilize in a reasonable timeframe; 45 minutes for Regional US&R Task Forces
- Provide appropriate level of vehicle and logistical support to function as a Task Force
- Ability to effectively mitigate rescue problems encountered
- Ability to provide for safe, effective operations overall

The Regional US&R Task Force Working Group will provide qualified evaluators for Regional US&R Task Force exercises and will set evaluation levels and expectations. Evaluation reports will be provided to the Cal OES Agency Representative for the Task Forces corresponding Operational Area.

Chapter 14: After Action Review Process

Post-Incident Review

A formal After-Action Review (AAR) shall be conducted in the following instances:

- Large commitment of technical rescue resources.
- Any incident in which there is a good opportunity to collect valuable lessons learned and deemed appropriate by the responding agency(s).
- At the request of Cal OES.

The individual agency(s) initiating the AAR should notify their respective Cal OES Agency Rep. The appropriate resource command supervisor, company officers participating at the incident shall complete a basic synopsis of the incident as soon as possible, by no longer than 24 hours after the incident. The completed AAR synopsis shall be faxed or emailed to the Cal OES Agency Rep as soon as possible, but no longer than 72 hours after the incident.

Post-incident critics of major and significant incidents provide an opportunity to review the effectiveness of actions and procedures in their applications during actual incidents. It is also an opportunity to review the overall quality of the services provided to the customers at the incident. This review is extremely valuable in improving procedures and incident operations.

Informal Incident Critique

The resource supervisor(s) may conduct an informal incident critique, as they deem necessary. The critique is an opportunity for open discussion amongst supervisor personnel from host or outside agencies, stakeholder, or all involved personnel. The informal critique may serve as a fact-finding opportunity if a After Action Review will be performed or it may just be a facilitated discussion.

After Action Review

An After-Action Review should be conducted on incidents where formal lessons learned, and recommended improvements are made, and a formal document is produced. Operational PIA's are for an incident **not** involving a fatality or an incident involving a large commitment of resources.

The resource performing the AAR should follow the format below:

*AAR should be limited to a maximum of 1 to 1 ½ hours in duration if possible.

1. Introduction
2. General introduction to the incident
3. Unique circumstances/problems, etc.
4. Review Tactical Preplan Information
5. Building Structure/Site Layout
6. Review type of structure, and post-incident structure analysis, or incident site layout.
7. Dispatch and Response
8. Play tapes of reporting, dispatch, on scene reports, if available
9. Analyze dispatch, on scene reports
10. Was dispatch appropriate for nature of reports?
11. Site Operations

Analyze integrity of building(s), trench, excavation, space and/or environment based on arrival, at 10 minutes, at 20 minutes, 30 minutes, 2 hours, 6 hours, 12 hours

1. Review size-up decisions by commanders
2. Review strategy/action plan
3. Review offensive/defensive decisions by commanders
4. Review risk analysis applied to the incident
5. Review division operations
6. Review heavy equipment & rigging placement
7. Review entry point decision
8. Review nighttime and interior lighting operations

Search Operations

1. Review reconnaissance operations
2. Review Hasty Search operations
3. Review Primary search operations
4. Review Secondary Low Coverage Search Operations
5. Review Secondary High Coverage Search Operations
6. Review Special Response Team (search) Operations
7. Were all victims located? If no, why not?

Rescue Group/Division/Operations

1. Review group/rescue activities
2. Review apparatus positioning
3. Review search plan
4. Review rescue plan
5. Review equipment selection decisions
6. Discuss problems encountered

Staging

1. Review base of operations set up
2. Equipment cache
3. Sleeping location
4. Decon set up
5. Command location
6. Briefing area
7. Overall Location adequacy
8. Communications
9. Site Access

Communications

1. Review dispatch and deployment functions during incident
2. Review the communication process
3. Did commanders receive adequate, accurate and timely information?
4. Did commanders effectively communicate their plan, objectives and other information to divisions, groups, and companies?
5. Did division/group commanders communicate plans, objectives, and other information to companies?

Support Functions

1. Review rehab operations
2. Review equipment/apparatus failures, repairs
3. Review logistical and equipment supply
4. Lumber
5. Tools
6. Fuel

Safety

1. Discuss safety aspects of the incident
2. Review injuries, causes, etc.
3. Review corrective actions

Accountability

1. Discuss incident accountability
2. Credentialing process (by who, how secure, necessary?)
3. Determine if accountability was accurate
4. Were accountability locations easily identified
5. Where accountability officers assigned, describe accountability operations, problems
6. Accountability Benchmarks

APPENDIX A

California Single Resource Type 1 - 4: California Regional Task Force, California Swiftwater/Flood Type 1 – 3 **(Minimum Equipment List)**

COMMUNICATIONS

BATTERIES

Batteries	T4 Qty	T3 Qty	T2 Qty	T1 Qty	RTF Qty	FEB	S-F T3	S-F T2	S-F T1	Unit
Batteries, Alkaline, AAA (sufficient QTY for team electronics)	10	10	10	10	100	0	10	20	20	Each
Batteries, Alkaline, AA (sufficient QTY for team electronics)	20	20	50	50	200	0	20	50	50	Each
Batteries, Alkaline, C (sufficient QTY for team electronics)	10	10	20	20	100	0	10	20	20	Each
Batteries, Alkaline, D (sufficient QTY for team electronics)	10	10	20	20	50	0	10	20	20	Each
Batteries, Alkaline, 9 Volt (sufficient QTY for team electronics)	5	5	5	5	10	0	5	5	5	Each

COMPUTER AND NETWORKING EQUIPMENT

Computer and Networking Equipment	T4 Qty	T3 Qty	T2 Qty	T1 Qty	RTF Qty	FEB	S-F T3	S-F T2	S-F T1	Unit
Computer, Laptop, Tablet or Touch GUI Device w/ Applicable applications for US&R, w Charger, case and associated cables and accessories to interface applicable peripherals	0	0	0	0	3	0	0	0	0	Each
Printer, portable w/ charger, associated cables (unless wireless) and accessories	0	0	0	0	2	0	0	0	0	Each
Spare Toner or ink cartridges	0	0	0	0	2	0	0	0	0	Each

PORTABLE RADIOS

Portable Radios	T4 Qty	T3 Qty	T2 Qty	T1 Qty	RTF Qty	FEB	S-F T3	S-F T2	S-F T1	Unit
Radio, Handheld, compatible with California VHF programming (Type-1 USAR & RTF require intrinsically safe radios & batteries)	3	3	6	6	30	3	6	12	16	Each
Battery Pack, clamshell (if rechargeable -not required-see rechargeable option)	3	3	6	6	30	3	6	12	16	Each
Battery, rechargeable	3	3	6	6	30	3	6	12	16	Each
Battery Charger (required if using rechargeable batteries)	3	3	6	6	15	3	4	6	8	Each

Portable Radios (continued)	T4 Qty	T3 Qty	T2 Qty	T1 Qty	RTF Qty	FEB	S-F T3	S-F T2	S-F T1	Unit
Base Radio, High Output UHF/VHF/800 Encryption Capable (Recommended)	0	0	0	0	2	0	0	0	0	Each
Cellular, Telephone. SMART phone Windows, Android, or IOS w/waterproof, Ruggedized Carrying case, spare battery (where applicable), battery charger, 12v adapter, renewable yearly service (Provider and model determined by task force purchasing guidelines). Ability to Hotspot for any non-cellular devices carried. *Recommended	1	1	2	2	4	1*	1	1	2	Each
Radio, Handheld, Air Operations VHF-AM 108-136 MHz, Field Programmable, with antenna, rechargeable battery (Recommended)	0	0	0	0	0	0	1	1	2	Each
Aircraft Radio Battery, spare/charger	0	0	0	0	0	0	1	1	2	Each
Mobile Radio per Vehicle	1	1	1	1	1	1	1	1	1	Each

SATELITE AND TELEPHONE COMMUNICATIONS

Satellite and Telephone Communications	T4 Qty	T3 Qty	T2 Qty	T1 Qty	RTF Qty	FEB	S-F T3	S-F T2	S-F T1	Unit
Satellite Phone w/ case, AC & DC charger, activation plan per agency contract *Recommended	0	0	0	0	2	0	1*	1*	1*	Each

DECONTAMINATION

DECONTAMINATION

Decontamination	T4 Qty	T3 Qty	T2 Qty	T1 Qty	RTF Qty	FEB	S-F T3	S-F T2	S-F T1	Unit
Pencil hose - 100' section	0	0	0	1	2	0	1	1	2	Each
Wye - garden hose adapter	0	0	0	0	1	0	1	1	1	Each
Nozzle adjustable w/ shut off - garden hose	0	0	0	1	2	0	1	1	2	Each
Pressurized Washer (recommended)	0	0	0	0	1	0	1	1	1	Each
Brushes, Stiff bristle, long handle	0	0	0	1	2	0	1	2	2	Each
5 Gal buckets	0	0	0	2	2	0	1	2	2	Each
Bleach or other appropriate (Simple Green)germicidal solution	0	0	0	1	1	0	1	1	1	Gal
Pencil hose - 100' section	0	0	0	1	2	0	1	1	2	Each

DETECTION EQUIPMENT

Detection Equipment	T4 Qty	T3 Qty	T2 Qty	T1 Qty	RTF Qty	FEB	S-F T3	S-F T2	S-F T1	Unit
Monitor, must have Pump, Atmospheric, Portable, Battery Operated, monitors LEL, O2, CO, H2S *Optional	0	0	1	3	3	0	1*	1*	2*	Each
Sampling Hose, 10-foot, atmospheric monitor *Optional	0	0	1	3	3	0	1*	1*	2*	Each

Detection Equipment (continued)	T4 Qty	T3 Qty	T2 Qty	T1 Qty	RTF Qty	FEB	S-F T3	S-F T2	S-F T1	Unit
External Filter/Water Traps, atmospheric monitor *Optional	0	0	1	10	10	0	1*	1*	2*	Each
Monitor, may have Pump, Atmospheric, Portable, Battery Operated, monitors LEL, O2, CO, H2S *Recommended	0	0	1	2	2	0	1*	1*	2*	Each
Charger, atmospheric monitor *Recommended	0	0	1	3	3	0	1*	1*	1*	Each
Calibration Kit, atmospheric monitor *Recommended	0	0	1	1	1	0	1*	1*	1*	Kit

PERSONAL PROTECTIVE EQUIPEMENT (DEFENSIVE OPERATIONS)

Personal Protective Equipment (Defensive Operations)	T4 Qty	T3 Qty	T2 Qty	T1 Qty	RTF Qty	FEB	S-F T3	S-F T2	S-F T1	Unit
Suit, Level B, Non-Encapsulated	0	0	0	6	18	0	0	0	0	Each
Boot, CBRN Lightweight Over boot, (sizes LG, XLG, 2XLG)	0	0	0	6	18	0	0	0	0	Pair
Glove, Butyl	0	0	0	6	18	0	0	0	0	Pair
Tape, Chemical Protective	0	0	0	2	4	0	0	0	0	Roll
Self-Contained Breathing Apparatus, SCBA	0	0	0	6	18	0	0	0	0	Each
Face Piece, SCBA	0	0	0	6	18	0	0	0	0	Each
Spare Cylinder, SCBA	0	0	0	6	18	0	0	0	0	Each
Respirator, Full Face	0	0	0	6	18	0	0	0	0	Each
CBRN Cartridge, full face respirator	0	0	0	6	18	0	0	0	0	Each
Dosimeter, Electronic, with audible and visual alarms.	0	0	6	6	12	0	0	0	0	Each
Dosimeter, i.e. Passive (can be electronic w/audible & visual alarms)	0	0	0	0	6	0	0	0	0	Each

RADIATION EQUIPMENT

Radiation Equipment	T4 Qty	T3 Qty	T2 Qty	T1 Qty	RTF Qty	FEB	S-F T3	S-F T2	S-F T1	Unit
Meter, Survey, Radiological	0	0	0	1	1	0	0	0	0	Each

TECHNICAL REFERENCE AND COMMUNICATIONS

Technical References and Communications	T4 Qty	T3 Qty	T2 Qty	T1 Qty	RTF Qty	FEB	S-F T3	S-F T2	S-F T1	Unit
Emergency Response Guide, DOT, Current Version	1	1	1	1	1	1	1	1	1	Each
NFPA Guide to Hazardous Materials OR Equivalent electronic HazMat Reference	0	0	0	0	1	0	0	0	0	Each
NIOSH Hazardous materials Pocket Guide	1	1	1	1	1	1	1	1	1	Each

LOGISTICSADMINISTRATIVE SUPPORT

Administrative Support	T4 Qty	T3 Qty	T2 Qty	T1 Qty	RTF Qty	FEB	S-F T3	S-F T2	S-F T1	Unit
Inverter, power, DC/AC (800 watt) can be on one or multiple inverters	0	0	1	1	3	0	1	1	2	Each
Manual, Operations Systems Description	1	1	1	1	1	1	1	1	1	Each
ACE Shoring Operations Guide	1	1	1	1	4	0	0	0	0	Each
Clips, papers, jumbo, box	0	0	0	0	1	0	1	1	1	Box
Clipboards, metal bound, with storage pockets	1	1	1	1	6	0	4	4	4	Box
Marker, felt, waterproof, 12/pkg.	1	1	1	1	1	1	4	4	4	Box
Pad, note, (self-stick)	1	1	1	1	6	1	2	2	2	Box
Pad, steno (6" x 9")	1	1	2	2	6	1	2	4	4	Box
Pad, writing, Legal Ruled, 8 1/2" x 11"	0	0	0	0	6	0	1	2	4	Box
Paper, pads, graph, 1/10" squares, 8 1/2" x 11"	0	0	0	0	6	0	0	0	0	Box
Paper, copy, 20 lb., 500 sheet reams, 10 ream box	0	0	0	0	1	0	0	0	0	Box
Pencils, 12/pkg.	1	1	1	1	3	1	1	1	1	Box
Pens, black, 12/pkg.	1	1	1	2	3	1	1	2	2	Box
Notebook, 3" x 5", waterproof,	0	0	0	0	8	1	1	2	4	Box
Notepad, Unit Log ICS 214, Waterproof,	0	0	0	0	12	1	1	1	1	Box
ICS Forms (201, 204, 205,206,213,214,225)	10	10	10	10	10	10	10	10	10	Each

CACHE TRANSPORTATION SUPPORT

Cache Transportation / Support	T4 Qty	T3 Qty	T2 Qty	T1 Qty	RTF Qty	FEB	S-F T3	S-F T2	S-F T1	Unit
All-Terrain Vehicle (side by side, 4-person transport w/ utility bed preferred), RECOMMENDED	0	0	0	0	2	0	0	0	0	Each
Utility Crew Cab Pick Up Truck 3/4-ton, 4 x 4 capable	0	0	0	0	2	0	0	0	0	Each

FOOD

Food	T4 Qty	T3 Qty	T2 Qty	T1 Qty	RTF Qty	FEB	S-F T3	S-F T2	S-F T1	Unit
Meals-Ready-To-Eat (MRE's)	27	27	54	54	270	8	54	108	144	Each

PERSONAL PPE & EQUIPMENT

Personal PPE & Equipment	T4 Qty	T3 Qty	T2 Qty	T1 Qty	RTF Qty	FEB	S-F T3	S-F T2	S-F T1	Unit
Boots, Safety, ASTM/NFPA compliant or equivalent, pair	3	3	6	6	30	0	0	0	0	Pair
Flashlight, Battery Powered Portable	3	3	6	6	30	0	0	0	0	Each
Ear plugs, safety, disposable	3	3	6	12	30	2	4	6	16	Each

Personal PPE & Equipment (continued)	T4 Qty	T3 Qty	T2 Qty	T1 Qty	RTF Qty	FEB	S-F T3	S-F T2	S-F T1	Unit
Helmet, low profile rescue, ASTM/NFPA compliant or equivalent	3	3	6	6	30	0	0	0	0	Each
Light, rescue helmet, battery powered, intrinsically safe, waterproof	3	3	6	6	30	2	0	0	0	Each
Gloves, work, leather, sized as needed	3	3	6	6	30	2	6	12	16	Pair
Rain Gear, per agency specification, Recommended	3	3	6	6	30	2	6	12	16	Set
Cold Weather Gear, per agency specification, Recommended	3	3	6	6	30	2	6	12	16	Set
Glasses, Safety, shatter proof, with side shields and lanyard, Z87	3	3	6	6	30	0	0	0	0	Each
Uniform, pants, and long sleeve shirt	3	3	6	6	30	0	6	12	16	Each
Uniform, Flame Resistant, one- or two-piece set	3	3	6	6	30	0	0	0	0	Each
Pads, knee, heavy duty, pair	3	3	6	6	30	0	0	0	0	Pair
Pads, elbow, heavy duty, pair	3	3	6	6	30	0	0	0	0	Pair
Respirator, N95 minimum	3	3	6	6	30	4	6	12	16	Each
Respirator, half face piece P100 min., cartridge-type	3	3	6	6	30	0	12	24	32	Each
Cartridge, P100	3	6	24	24	90	0	0	0	0	Each
Cartridge, Organic Vapor	0	0	24	24	90	0	0	0	0	Each
Whistle, Safety (no pea)	3	3	6	6	18	0	6	12	16	Each
Personal Alarm Device (PAL) Non-integrated (recommended)	0	0	6	6	12	0	0	0	0	Each
Individual First Aid Kit (Recommended)	0	0	6	6	18	1	2	3	4	Each
Tourniquet, CAT	0	0	6	6	18	1	2	3	4	Each
Latex Gloves	0	0	6	6	18	1	2	3	4	Each
Rolled Gauze- 4.5 x 4.1 yards	0	0	6	6	18	1	2	3	4	Each
Emergency Trauma Dressing	0	0	6	6	18	1	2	3	4	Each
Vent Compact Chest Seal Twin Pack	0	0	6	6	18	1	2	3	4	Each
Nasopharyngeal Airway w/ lube	0	0	6	6	18	1	2	3	4	Each
5.5 EMT Shears or equivalent cutting device	0	0	6	6	18	1	2	3	4	Each
Survival Blanket-Compact	0	0	6	6	18	1	8	16	18	Each
Sharpie Marker	0	0	6	6	18	1	2	3	4	Each

SAFETY

Safety	T4 Qty	T3 Qty	T2 Qty	T1 Qty	RTF Qty	FEB	S-F T3	S-F T2	S-F T1	Unit
Light stick, Cyalume, YELLOW, 8-hour duration	4	8	12	30	30	12	12	18	24	Each
Light stick, Cyalume, WHITE, 8-hour duration	4	8	16	35	35	12	12	18	24	Each
Light stick, Cyalume, GREEN, 8-hour duration	4	8	12	30	30	12	12	18	24	Each
Light stick, Cyalume, RED, 8-hour duration	4	8	12	30	30	12	12	18	24	Each
Light stick, Cyalume, BLUE, 8-hour duration	4	8	12	30	30	12	12	18	24	Each
Paint, spray, fluorescent, Orange	0	6	12	12	12	0	0	0	0	Each
Tape, barrier, fireline or equivalent	1	4	6	12	12	0	1	1	2	Roll
Flagging RED, 1" x roll	1	1	2	12	12	1	2	4	6	Roll

Safety (continued)	T4 Qty	T3 Qty	T2 Qty	T1 Qty	RTF Qty	FEB	S-F T3	S-F T2	S-F T1	Unit
Flagging YELLOW, 1" x roll	0	0	2	2	4	0	0	0	0	Roll
Flagging GREEN, 1" x roll	0	0	2	2	4	0	0	0	0	Roll
Flagging BLUE, 1" x roll	0	0	2	2	4	0	0	0	0	Roll

SHELTER

Shelter	T4 Qty	T3 Qty	T2 Qty	T1 Qty	RTF Qty	FEB	S-F T3	S-F T2	S-F T1	Unit
Shelter, Basic (EZ-Up type shade) (recommended)	0	0	0	0	4	0	0	0	1	Each
Shelter, inclement weather (e.g., Western Shelter) (recommended)	0	0	0	0	1	0	0	0	1	Each

TASK FORCE SUPPORT

Task Force Support	T4 Qty	T3 Qty	T2 Qty	T1 Qty	RTF Qty	FEB	S-F T3	S-F T2	S-F T1	Unit
Electrolyte, solution, sticks, assorted flavors	0	0	0	0	50	0	12	24	32	Each
Water (clean, potable)	0	0	0	0	20	0	6	12	16	Gal
Trash Bags	0	0	0	0	1	0	1	1	1	Box
Sleeping Bag, single person	0	0	0	0	30	0	6	12	16	Each
Cot, sleeping	0	0	0	0	30	0	6	12	16	Each
Gasoline in Safety Can, 2.5 gallons	0	1	4	10	10	1	2	4	6	Each
Tents, 6-8 person or agency specified	0	0	0	0	Per AHJ	0	0	0	0	Each

MEDICAL

ADVANCED AIRWAY EQUIPMENT

Advanced Airway Equipment	T4 Qty	T3 Qty	T2 Qty	T1 Qty	RTF Qty	FEB	S-F T3	S-F T2	S-F T1	Unit
Endotracheal Intubation Equipment										
ETT with stylet (6.0 and 7.5)	0	0	0	0	2	0	0	0	1	Each
Laryngoscope Blades Mac #4, Miller #4	0	0	0	0	2	0	0	0	1	Each
Laryngoscope Handle (pediatric handle recommended to reduce weight)	0	0	0	0	2	0	0	0	1	Each
End Tidal CO2 Detector	0	0	0	0	2	0	0	0	1	Each
ETT Restraint	0	0	0	0	2	0	0	0	1	Each
ETT Verification Device	0	0	0	0	2	0	0	0	1	Each
Needle Thoracostomy Kit	0	0	0	0	4	0	0	0	2	Each
Rescue Airway	0	0	0	0	2	0	0	0	1	Each

ANTIBIOTICS/ANTIFUNGALS

Antibiotics/Antifungals *Optional if included in IFAK	T4 Qty	T3 Qty	T2 Qty	T1 Qty	RTF Qty	FEB	S-F T3	S-F T2	S-F T1	Unit
Antibiotic Ointment	0	0	0	0	4	0	0	0	2	Tube
Calamine Lotion	0	0	0	0	2	0	0	0	2	Tube
Flexall Aloe Gel	0	0	0	0	2	0	0	0	2	Tube
Hydrocortisone	0	0	0	0	2	0	0	0	2	Tube
Hydrogen Peroxide	0	0	0	0	4	0	0	0	2	Bottle
Lava Soap	0	0	0	0	4	0	0	0	2	Bar
Butt Paste	0	0	0	0	2	0	0	0	2	Bottle

BASIC AIRWAY EQUIPMENT

Basic Airway Equipment	T4 Qty	T3 Qty	T2 Qty	T1 Qty	RTF Qty	FEB	S-F T3	S-F T2	S-F T1	Unit
Airway, Nasopharyngeal Kit	0	0	1	1	3	0	0	0	1	Each
Airway, Oropharyngeal Kit	0	0	1	1	3	0	0	0	1	Each
Bag Valve Mask	0	0	1	1	3	0	0	0	1	Each
Suction, Manual Device	0	0	1	1	3	0	0	0	1	Each

CARDIAC CARE MEDICATIONS

Cardiac Care Medications	T4 Qty	T3 Qty	T2 Qty	T1 Qty	RTF Qty	FEB	S-F T3	S-F T2	S-F T1	Unit
Aerosolized Beta 2 Specific Bronchodilator (MDI with Spacer)	0	0	0	0	2	0	0	0	1	Each
Antiarrhythmic(s) (type & quantities per local protocol)	0	0	0	0	2	0	0	0	1	Each
Aspirin-Chewable 162 mg (or dosage/quantity per local protocol)	0	0	0	0	2	0	0	0	1	Each
Calcium Chloride 1 gm (10 ml)	0	0	0	0	8	0	0	0	4	Each
Dextrose 50% 25 G. Pre-Load or equivalent D10 % in Normal Saline	0	0	0	0	2	0	0	0	1	Each
Atropine Sulfate 1 mg	0	0	0	0	8	0	0	0	4	Each
Diphenhydramine 50 mg	0	0	0	0	8	0	0	0	4	Each
Epinephrine 1:1,000 1 mg	0	0	0	0	8	0	0	0	4	Each
Epinephrine 1:10,000 1 mg	0	0	0	0	4	0	0	0	2	Each
Nitroglycerin (10 patient-doses)	0	0	0	0	2	0	0	0	1	Each
Sodium Bicarbonate 50 mEq (50 mL)	0	0	0	0	8	0	0	0	4	Each

EYES, EARS, NOSE, THROAT

Eyes, Ears, Nose, Throat	T4 Qty	T3 Qty	T2 Qty	T1 Qty	RTF Qty	FEB	S-F T3	S-F T2	S-F T1	Unit
Eye Wash	0	0	1	1	3	1	1	1	1	Bottle
Visine (15 ML)	0	0	0	0	2	0	0	0	0	Bottle

INTRAVENOUS ACCESS/ADMINISTRATION

Intravenous Access / Administration	T4 Qty	T3 Qty	T2 Qty	T1 Qty	RTF Qty	FEB	S-F T3	S-F T2	S-F T1	Unit
1 cc TB Syringe	0	0	0	0	4	0	0	0	2	Each
10 cc Syringe	0	0	0	0	4	0	0	0	2	Each
14 ga. IV Catheter	0	0	0	0	4	0	0	0	2	Each
16 ga. IV Catheter	0	0	0	0	4	0	0	0	2	Each
18 ga. Needle	0	0	0	0	8	0	0	0	4	Each
20 ga. IV Catheter	0	0	0	0	8	0	0	0	4	Each
Alcohol Preps	0	0	0	0	12	0	0	0	6	Each
Betadine Swabs	0	0	0	0	8	0	0	0	4	Each
Glucometer Test Strips	0	0	0	0	8	0	0	0	4	Each
IV Administration Set-Macro Drip	0	0	0	0	8	0	0	0	4	Each
Interosseous Access Device	0	0	0	0	1	0	0	0	1	Each
Interosseous Access Needle (assorted sizes per local protocol)	0	0	0	0	6	0	0	0	3	Each
Lancet	0	0	0	0	8	0	0	0	4	Each
Razor	0	0	0	0	2	0	0	0	1	Each
Sharps Container	0	0	0	0	2	0	0	0	1	Each
IV Tourniquet	0	0	0	0	8	0	0	0	4	Each
Transpore Tape, Roll	0	0	0	0	4	0	0	0	2	Each
Venaguard	0	0	0	0	8	0	0	0	4	Each
Disposable Pressure IV Infuser *Optional	0	0	0	0	2	0	0	0	1	Each

INTRAVENOUS FLUIDS/VOLUME EXPANDERS

Intravenous Fluids / Volume Expanders	T4 Qty	T3 Qty	T2 Qty	T1 Qty	RTF Qty	FEB	S-F T3	S-F T2	S-F T1	Unit
Saline 0.9% IV 1,000 ML - Can be configured into two 500 cc or four 250 cc	0	0	0	0	8	0	0	0	4	Each

MISCELLANEOUS MEDICATIONS

Miscellaneous Medications	T4 Qty	T3 Qty	T2 Qty	T1 Qty	RTF Qty	FEB	S-F T3	S-F T2	S-F T1	Unit
Glucagon 1 mg/unit	0	0	0	0	2	0	0	0	1	Each
Oral Glucose	0	0	1	1	3	0	0	0	1	Each
Naloxone 2 mg (in approved quantities, per local protocol)	0	0	0	0	8	0	0	0	4	Each
Ondansetron 8 mg (ODT or IV, per local protocol)	0	0	0	0	2	0	0	0	1	Each

MISCELLANEOUS SUPPLIES

Miscellaneous Supplies	T4 Qty	T3 Qty	T2 Qty	T1 Qty	RTF Qty	FEB	S-F T3	S-F T2	S-F T1	Unit
Biohazard Bags	2	2	2	2	6	2	2	2	3	Each
Gloves, Exam (box)	1	1	1	1	2	1	1	1	1	Box
Mask, Face, Disposable w/ eye shield	1	1	1	1	2	1	1	1	1	Each
Pad, Writing	1	1	1	1	2	1	1	1	1	Each
Pen and Pencil	1	1	1	1	3	1	1	1	1	Each
Pen Light	1	1	1	1	2	1	1	1	1	Each
Scissors, Medic	1	1	1	1	2	1	1	1	1	Each
Narcotic Storage (per local protocol)	0	0	0	0	1	0	0	0	1	Each
Patient Care Record (PCR)	2	2	2	2	12	2	2	2	6	Each
Against Medical Advice (AMA) Forms	2	2	2	2	12	2	2	2	6	Each

PAIN MEDICATIONS

Pain Medications	T4 Qty	T3 Qty	T2 Qty	T1 Qty	RTF Qty	FEB	S-F T3	S-F T2	S-F T1	Unit
Morphine Sulfate 60 mg (or other LEMSA approved Schedule II analgesic, such as Fentanyl in approved quantities, per local protocol)	0	0	0	0	2	0	0	0	1	Each
Aspirin, (325 mg - 100 Tablets)	0	0	0	0	2	0	0	0	1	Bottle
Acetaminophen (500 mg- 500 Tablets)	0	0	0	0	2	0	0	0	1	Bottle
Ibuprofen (200 mg tablets- 500 Tablets)	0	0	0	0	2	0	0	0	1	Bottle

PATIENT ASSESSMENT/GENERAL CARE

Patient Assessment / General Care	T4 Qty	T3 Qty	T2 Qty	T1 Qty	RTF Qty	FEB	S-F T3	S-F T2	S-F T1	Unit
Sphygmomanometer	0	0	1	1	2	1	1	1	1	Each
Stethoscope	0	0	1	1	2	1	1	1	1	Each
Thermometer, Digital	0	0	1	1	2	1	1	1	1	Each
Splinter Kit	0	0	1	1	2	1	1	1	1	Each
Triage Tags (or capability to Triage per local protocol)	0	0	6	6	18	6	6	6	6	Each
Warming Packs	0	0	0	0	20	0	0	10	10	Each
Cold Packs	0	0	0	0	20	0	0	10	10	Each
Blankets, Mylar Space or equivalent	2	2	6	6	20	2	6	6	20	Each

PATIENT COMFORT MEDICATIONS

Patient Comfort Medications *Optional if included in IFAK	T4 Qty	T3 Qty	T2 Qty	T1 Qty	RTF Qty	FEB	S-F T3	S-F T2	S-F T1	Unit
Chap Stick	0	0	6	6	20	0	0	2	2	Each
Mole Skin	0	0	2	2	4	0	0	2	2	Roll

Patient Comfort Medications *Optional if included in IFAK (continued)	T4 Qty	T3 Qty	T2 Qty	T1 Qty	RTF Qty	FEB	S-F T3	S-F T2	S-F T1	Unit
Sunscreen (30 UVA Protection Minimum)	0	0	2	2	4	0	0	2	2	Bottle
Insect Swabs	0	0	10	20	30	0	4	12	16	Each
Q-Tips	0	0	0	0	1	0	0	0	1	Box
Anti-hemorrhoidal wipes	0	0	0	0	2	0	0	0	1	Box
Antidiarrheal Tablets	0	0	0	0	2	0	1	4	6	Bottle

PATIENT IMMOBILIZATION/EXTRICATION

Patient Immobilization / Extrication	T4 Qty	T3 Qty	T2 Qty	T1 Qty	RTF Qty	FEB	S-F T3	S-F T2	S-F T1	Unit
Cervical Collar, Adjustable	2	2	2	2	4	1	2	2	2	Each
Splint, Moldable	2	2	2	2	4	1	2	2	2	Each
Spinal immobilization device (such as backboard, KED, Spec-pack), Rescue Litter Compatible, w/ straps and immobilizer	0	1	1	1	2	0	0	0	0	Each
Spine Board (flotation backboard)	0	0	0	0	0	1	1	1	2	Each

PATIENT MONITORING

Patient Monitoring	T4 Qty	T3 Qty	T2 Qty	T1 Qty	RTF Qty	FEB	S-F T3	S-F T2	S-F T1	Unit
AED/SAD Patches	0	0	0	0	8	0	0	0	4	Each
Compact AED/SAD (waveform display preferred)	0	0	0	0	1	0	0	0	1	Each
Glucometer	0	0	0	0	1	0	0	0	1	Each
Pulse Oximeter (optional)	0	0	0	0	1	0	0	0	1	Each

PATIENT/PERSONAL PROTECTION

Patient / Personal Protection	T4 Qty	T3 Qty	T2 Qty	T1 Qty	RTF Qty	FEB	S-F T3	S-F T2	S-F T1	Unit
Victim Protection Kits, N95 mask, ear plugs, eye protection	0	0	1	2	2	0	0	0	0	Kit

RESPIRATORY TREATMENT MEDS

RESPIRATORY TREATMENT MEDS	T4 Qty	T3 Qty	T2 Qty	T1 Qty	RTF Qty	FEB	S-F T3	S-F T2	S-F T1	Unit
Albuterol 2.5 (or approved aerosolized broncho-dilator)	0	0	0	0	8	0	0	0	4	Each
Ipratropium Bromide (optional if approved per local protocol)	0	0	0	0	4	0	0	0	2	Each

SEDATIVES/ANESTHETICS/PARALYTICS

Sedatives / Anesthetics / Paralytics	T4 Qty	T3 Qty	T2 Qty	T1 Qty	RTF Qty	FEB	S-F T3	S-F T2	S-F T1	Unit
Valium 40 mg or Versed 20 mg	0	0	0	0	2	0	0	0	1	Each

WMD PHARMACEUTICAL

WMD Pharmaceutical	T4 Qty	T3 Qty	T2 Qty	T1 Qty	RTF Qty	FEB	S-F T3	S-F T2	S-F T1	Unit
DuoDote™ Auto-Injector (Atropine and Pralidoxime Chloride Injection) 30 Auto-injectors per box	0	0	6	6	30	0	0	0	0	Each

WOUND CARE

Wound Care	T4 Qty	T3 Qty	T2 Qty	T1 Qty	RTF Qty	FEB	S-F T3	S-F T2	S-F T1	Unit
Bandage, Sterile 4 x 4	6	6	6	6	24	6	6	6	12	Each
Triangular Bandage	2	2	2	2	12	2	2	2	6	Each

PLANNINGPLANNING EQUIPMENT

Planning Equipment	T4 Qty	T3 Qty	T2 Qty	T1 Qty	RTF Qty	FEB	S-F T3	S-F T2	S-F T1	Unit
Whiteboard, Dry Erase (4 x 6 minimum)	0	0	0	0	2	0	0	1	1	Each
Dry Erase Marker, Red	0	0	0	0	1	0	0	1	1	Box
Dry Erase Marker, Blue	0	0	0	0	1	0	0	1	1	Box
Dry Erase Marker, Green	0	0	0	0	1	0	0	1	1	Box
Dry Erase Marker, Black	0	0	0	0	1	0	0	1	1	Box
Dry Erase Marker, Eraser	0	0	0	0	2	0	0	1	1	Each
Pen, Highlighter, Yellow	0	0	0	0	1	0	0	1	1	Box
Punch, 3-hole	0	0	0	0	1	0	0	0	0	Each
Card, Index, unruled, 3" x 5" (300/pkg)	0	0	0	0	1	0	0	0	0	Box
Paper, Pads, Graph, 1/10" squares, 8 1/2" x 11"	0	0	0	0	1	0	0	1	1	Box
Clips, Paper, jumbo, (100/pkg)	0	0	0	0	1	0	0	1	0	Box
Pen, Ballpoint, black (12/pkg)	0	0	0	0	3	0	0	1	1	Box
Rulers, 12"	0	0	0	0	2	0	0	0	0	Each
Scissors	0	0	0	0	2	0	0	0	0	Each
Staple Remover	0	0	0	0	2	0	0	0	0	Each
Stapler, desk	0	0	0	0	1	0	0	0	0	Each
Staples, spare, for desk stapler, box	0	0	0	0	1	0	0	0	0	Box
Pen, correction fluid	0	0	0	0	2	0	0	0	0	Each
Guide, Field Operations, ICS 420-1	1	1	1	1	1	1	1	1	1	Each

RESCUE**AIRBAGS, LIFTING**

Airbags, Lifting	T4 Qty	T3 Qty	T2 Qty	T1 Qty	RTF Qty	FEB	S-F T3	S-F T2	S-F T1	Unit
Air Bag Kit, high pressure lifting	0	0	1	1	1	0	0	0	0	Kit
Air Source, portable (SCBA Cylinder), high pressure air bag, *Recommended for IRB Inflation	0	0	2	2	2	0	1*	1*	2*	Each
Regulator, high pressure air bag	0	0	1	2	2	0	0	0	0	Each
Dual Controller, high pressure air bag	0	0	1	2	2	0	0	0	0	Each
Supply Hose, high pressure air bag	0	0	1	2	2	0	0	0	0	Each
Air Bag Hose, high pressure air bag	0	0	2	4	4	0	0	0	0	Each
Relief Valve, high pressure air bag	0	0	1	2	2	0	0	0	0	Each
Air Bags, high pressure, 50-ton combined capacity	0	0	2	3	3	0	0	0	0	Each
Air Bags, high pressure, 125-ton combined capacity	0	0	0	1	1	0	0	0	0	Each
Air Bag, high pressure, 70-ton capacity	0	0	0	1	1	0	0	0	0	Each
Air Bag Kit, low or medium pressure lifting	0	0	0	1	1	0	0	0	0	Kit
Regulator, low/medium pressure air bag	0	0	0	1	1	0	0	0	0	Each
Controller, low/medium pressure air bag	0	0	0	1	1	0	0	0	0	Each
Supply Hose, low/medium pressure air bag	0	0	0	1	1	0	0	0	0	Each
Air Bag Hose, low/medium pressure air bag	0	0	0	2	2	0	0	0	0	Each
Air Bags, low/medium pressure, 10-ton combined capacity	0	0	0	2	2	0	0	0	0	Each
Patch Kit, low/medium pressure air bags	0	0	0	1	1	0	0	0	0	Kit

COMMUNICATIONS KIT, HARD LINES

Communications Kit, Hard-Line	T4 Qty	T3 Qty	T2 Qty	T1 Qty	RTF Qty	FEB	S-F T3	S-F T2	S-F T1	Unit
Module, Command	0	0	0	1	1	0	0	0	0	Each
Headset, Operator	0	0	0	1	1	0	0	0	0	Each
Cable, Operator, 20' with mute	0	0	0	1	1	0	0	0	0	Each
Face Mask Rescuer Set	0	0	0	4	4	0	0	0	0	Each
Harness, Speaker	0	0	0	4	4	0	0	0	0	Each
Cable, 100' with connectors	0	0	0	12	12	0	0	0	0	Each
Air Horn	3	3	6	6	6	0	1	6	6	Each

DEMOLITION HAMMERS & CHISEL KITS

Demolition Hammers & Chisel Kits	T4 Qty	T3 Qty	T2 Qty	T1 Qty	RTF Qty	FEB	S-F T3	S-F T2	S-F T1	Unit
Chisel Kit, Pneumatic (or other power source), complete, w/ accessories	0	0	1	1	1	0	0	0	0	Kit
Hammer, Air (or other power source)	0	0	1	1	1	0	0	0	0	Per Kit
Bit, Flat	0	0	2	2	2	0	0	0	0	Per Kit
Bit, Bull-point	0	0	2	2	2	0	0	0	0	Per Kit
Bit, (T) Panel	0	0	1	1	1	0	0	0	0	Per Kit
Regulator, Piston (if pneumatic)	0	0	1	1	1	0	0	0	0	Per Kit
Hose, Air Supply (if pneumatic)	0	0	1	1	1	0	0	0	0	Per Kit
Oil, Lubricating, Air tool (if pneumatic)	0	0	1	1	1	0	0	0	0	Per Kit
Hammer, Demolition, 60 lb. (electric, gasoline, hydraulic, or pneumatic)	0	0	1	2	2	0	0	0	0	Each
Bit, Pointed	0	0	2	4	4	0	0	0	0	Each
Bit, Flat	0	0	2	4	4	0	0	0	0	Each
Cord, Extension, 50 foot, 12/3 gauge or better (IF ELECTRIC)	0	0	1	2	2	0	0	0	0	Each
Gasoline in Safety Can, 2.5 gallons (IF GAS-POWERED)	0	0	1	2	2	0	0	0	0	Each
Spark Plug, spare (IF GAS-POWERED)	0	0	1	2	2	0	0	0	0	Each
Air Filter, spare (IF GAS-POWERED)	0	0	1	2	2	0	0	0	0	Each
Wrench, spark plug (IF GAS-POWERED)	0	0	1	2	2	0	0	0	0	Each
Hydraulic Power Unit (IF HYDRAULIC)	0	0	1	1	1	0	0	0	0	Each
Tool Hose, Hydraulic, 50 foot (IF HYDRAULIC)	0	0	1	2	2	0	0	0	0	Each
Pneumatic Air Source (IF PNEUMATIC)	0	0	1	1	1	0	0	0	0	Each
Tool Hose, Pneumatic, 50 foot (IF PNEUMATIC)	0	0	1	2	2	0	0	0	0	Each
Hammer, Demolition, 40 lb. (electric, gasoline, hydraulic, or pneumatic)			1	2	2					
Bit, Pointed	0	0	2	4	4	0	0	0	0	Each
Bit, Flat	0	0	2	4	4	0	0	0	0	Each
Cord, Extension, 50 foot, 12/3 gauge or better (IF ELECTRIC)	0	0	1	2	2	0	0	0	0	Each
Spark Plug, spare (IF GAS-POWERED)	0	0	1	2	2	0	0	0	0	Each
Air Filter, spare (IF GAS-POWERED)	0	0	1	2	2	0	0	0	0	Each
Wrench, spark plug (IF GAS-POWERED)	0	0	1	2	2	0	0	0	0	Each
Hydraulic Power Unit (IF HYDRAULIC)	0	0	1	1	1	0	0	0	0	Each
Tool Hose, Hydraulic, 50 foot (IF HYDRAULIC)	0	0	1	2	2	0	0	0	0	Each
Pneumatic Air Source (IF PNEUMATIC)	0	0	1	1	1	0	0	0	0	Each
Tool Hose, Pneumatic, 50 foot (IF PNEUMATIC)	0	0	1	2	2	0	0	0	0	Each

ELECTRICAL

Electrical	T4 Qty	T3 Qty	T2 Qty	T1 Qty	RTF Qty	FEB	S-F T3	S-F T2	S-F T1	Unit
Box, junction, w/ 4 Outlets, Circuit Protected (20 amp recommended)	0	0	1	2	2	0	0	0	0	Each
Wye Adapter, electrical	0	0	1	2	2	0	0	0	0	Each
Adapter, 20A, NEMA L5-20, twist lock female to 15A household 3-prong male	0	0	2	4	4	0	1	1	1	Each
Adapter, 20A, NEMA L5-20, twist lock male to 15A household 3-prong female	0	0	2	4	4	0	1	1	1	Each
Cord, Extension, 12/3 SJOW, 50' w/L5-20 Plug and Connector	0	0	5	10	10	0	1	1	1	Each
Cord, Extension, 10/3 SJOW, 100' w/L5-20 Plug and Connector	0	0	1	2	2	0	1	1	1	Each
Floodlight, portable	0	0	4	8	8	0	1	2	3	Each
Generator, portable (2000W minimum)	0	0	1	1	1	1	1	1	1	Each
Generator, portable or fixed (5000W minimum)	0	0	1	1	1	0	0	0	0	Each

ELECTRIC POWERED TOOLS

Electric Powered Tools	T4 Qty	T3 Qty	T2 Qty	T1 Qty	RTF Qty	FEB	S-F T3	S-F T2	S-F T1	Unit
Drill, 1/2" variable speed (corded or cordless)	0	0	0	1	1	0	0	0	0	Each
Battery, if cordless	0	0	0	2	2	0	0	0	0	Each
Charger, if cordless	0	0	0	1	1	0	0	0	0	Each
Bit Set, Drill, steel, general purpose, 1/8" - 1/2"	0	0	0	1	1	0	0	0	0	Set
Drill, Rotary Hammer, electric, 1-1/2"	0	0	1	2	2	0	0	0	0	Each
Bit, Flat	0	0	2	4	4	0	0	0	0	Each
Bit, Carbide Tipped, 1/2"	0	0	4	8	8	0	0	0	0	Each
Bit, Carbide Tipped, 3/4", OPTIONAL	0	0	2	4	4	0	0	0	0	Each
Bit, Carbide Tipped, 1", OPTIONAL	0	0	1	2	2	0	0	0	0	Each
Saw, Reciprocating, Variable Speed, Cordless	0	0	1	2	2	0	0	0	0	Each
Saw, Reciprocating, variable speed, Electric	0	0	1	2	2	0	0	0	0	Each
Charger for Cordless Reciprocating Saw	0	0	1	2	2	0	0	0	0	Each
Blade, Reciprocating Saw, Metal-cutting	0	0	36	72	72	0	0	0	0	Each
Blade, Reciprocating Saw, Wood-cutting	0	0	24	48	48	0	0	0	0	Each
Saw, chain, electric, 12" min. bar, wood cutting	0	0	0	1	1	0	0	0	0	Each
Bar, Chain saw, matching spare	0	0	0	1	1	0	0	0	0	Each
Chains, Chainsaw, matching spare	0	0	0	2	2	0	0	0	0	Each
Oil, Bar, Chainsaw	0	0	0	1	1	0	0	0	0	Gal
100' Extension Cord, min 10/3 ga.	0	0	0	1	1	0	0	0	0	Each
Chaps, Chainsaw, 36" length	0	0	0	2	2	0	0	0	0	Each
Wrench, chain/blade change	0	0	0	1	1	0	0	0	0	Each
Saw, circular, electric, 10-1/4" or larger	0	0	1	1	2	0	0	0	0	Each

Electric Powered Tools (continued)	T4 Qty	T3 Qty	T2 Qty	T1 Qty	RTF Qty	FEB	S-F T3	S-F T2	S-F T1	Unit
Blade, Circular Saw, Carbide tip, spare, to match saw above	0	0	0	2	4	0	0	0	0	Each
Rebar Cutter, 3/4" min. capacity, non-sparking	0	0	0	1	1	0	0	0	0	Each
Replacement Blade, Rebar Cutter	0	0	0	2	2	0	0	0	0	Each

GASOLINE POWERED TOOLS

Gasoline Powered Tools	T4 Qty	T3 Qty	T2 Qty	T1 Qty	RTF Qty	FEB	S-F T3	S-F T2	S-F T1	Unit
Saw, Chain, Gasoline, 2 cycle, 12" min. *Recommended	0	1	1	2	3	1*	1*	2	2	Each
Chain, Carbide Tip, size matching, wood cutting *Recommended	0	2	2	4	6	1*	1*	4	4	Each
Bar, Gasoline Chain Saw, spare, *Recommended	0	1	1	2	3	1*	1*	2	2	Each
Spark Plug, Gasoline Chain Saw, spare, *Recommended	0	2	2	4	6	1*	1*	2	2	Each
Chaps, Chainsaw, 36" Length, *Recommended	0	2	2	3	4	2*	2*	4	4	Each
Kit, Maintenance, Chain Saw, Includes: Spark Plug Wrench, Allen Wrenches, Sprocket Grease Tool, Sprocket Grease Tube, Pull cord, *Recommended	0	1	1	2	3	1*	1*	1	1	Each
Filter, Air, Gasoline Chain Saw, spare, *Recommended	0	1	1	2	3	1*	1*	2	2	Each
Oil, Bar, Chainsaw, Gallon, *Recommended	0	1	1	2	3	1*	1*	1	2	Each
Oil, 2 Cycle Mix, 2.6 oz., *Recommended	0	1	1	4	6	1*	1*	1	2	Each
Saw, power rotary, gasoline, 14" min.	0	0	1	2	2	0	0	0	0	Each
Spark Plug, Saw, gasoline, 14" power rotary, spare	0	0	1	2	2	0	0	0	0	Each
Belts, power rotary saw, 14", spare	0	0	1	2	2	0	0	0	0	Each
Blade, diamond tip, reinforced concrete-cutting, 14", power rotary saw	0	0	2	4	4	0	0	0	0	Each
Water Application Device, portable (i.e. Hudson Sprayer)	0	0	1	2	2	0	0	1	1	Each
Blade, Carbide Tip, wood cutting, 14", power rotary saw	0	0	2	4	4	0	0	0	0	Each
Blade, Multi-Purpose, Steel Cutting, 14", Power Rotary Saw	0	0	2	4	4	0	0	0	0	Each
Filter, Air, Saw, gasoline, 14", rotary saw, spare	0	0	1	2	2	0	0	0	0	Set
Wrench, saw adjustments	0	0	1	2	2	0	0	0	0	Each
Scrench, fitted to arbor	0	0	1	2	2	0	0	0	0	Each

HAND TOOLS

Hand Tools	T4 Qty	T3 Qty	T2 Qty	T1 Qty	RTF Qty	FEB	S-F T3	S-F T2	S-F T1	Unit
Axe, flat head and/or pick head	2	2	2	2	2	1	1	2	2	Each
Forcible Entry tool	1	1	2	2	2	1	1	2	2	Each
Bar, pry, pinch point 60"	4	4	4	4	4	0	0	0	0	Each

Hand Tools (continued)	T4 Qty	T3 Qty	T2 Qty	T1 Qty	RTF Qty	FEB	S-F T3	S-F T2	S-F T1	Unit
Bar, wrecking 30"	2	2	2	2	2	0	0	0	0	Each
Belt, carpenter, with 2 pouches	0	3	3	6	8	0	0	0	0	Each
Hammer, framing straight claw, 19 oz. min.	0	3	3	6	8	0	0	0	0	Each
Knife, Utility, retractable blade	1	3	3	6	8	1	1	1	1	Each
Blade, Utility Knife, spare	1	3	3	6	8	1	1	1	1	Each
Level, 6" min.	0	3	3	6	8	0	0	0	0	Each
Square, speed	0	3	3	6	8	0	0	0	0	Each
Tape, measuring, 25' min.	0	3	3	6	8	0	0	0	0	Each
Bucket or Bag, hauling	0	2	6	6	8	0	0	2	4	Each
Carrier, debris, 4' x 6'	0	0	2	4	4	0	0	0	0	Each
Chisel, cold steel, 1" x 7 7/8"	2	2	2	2	2	0	0	0	0	Each
Crayon, lumber, red	2	6	6	6	12	0	0	4	6	Each
Crayon, lumber, yellow	2	6	6	6	12	0	0	4	6	Each
Chalk, marking	4	4	6	6	12	0	0	0	0	Each
Cutter, bolt, 24" min.	1	1	1	1	1	1	1	1	1	Each
Cutter, bolt, 36" min.	1	1	1	1	1	0	0	1	1	Each
Cutter, pipe, multiple head, 1 - 2-1/2"	0	0	0	1	1	0	0	0	0	Each
Cutter, wire, and cable, 28", fiberglass handles	0	0	0	1	1	0	0	0	0	Each
Hacksaw, heavy duty	2	2	2	2	2	0	0	2	2	Each
Blade, Hacksaw, carbide grit	12	12	12	12	12	0	0	12	12	Each
Hammer, sledge, 2-4 lb., short handle	2	4	4	4	4	0	0	0	0	Each
Hammer, sledge, 8-10 lb., long handle	2	2	2	2	2	0	1*	2	2	Each
Hand truck, convertible into dolly, with pneumatic tires	0	0	0	2	2	0	0	0	1	Each
Level, 4 ft.	0	0	0	1	2	0	0	0	0	Each
Nails, common, 16D, Sinkers	0	25	25	50	50	0	0	0	0	Lbs.
Nails, common, 8D, Sinkers	0	25	25	50	50	0	0	0	0	Lbs.
Nail Puller, 9"-15" double end	0	1	1	1	1	0	0	0	0	Each
Pencils, carpenter	0	0	12	12	12	0	0	0	0	Each
Sheeting, Plastic, 20'-foot x 100' role, Clear, 6 mil	0	0	0	2	2	0	0	1	1	Roll
Shovel, spade point, long handle	0	1	1	1	2	0	1	2	2	Each
Shovel, square point, long handle	0	1	1	1	2	0	1	2	2	Each
Grubbing Tool, short handle	0	0	2	6	6	0	0	4	4	Each
Grubbing Tool, long handle	0	0	2	4	4	0	0	2	2	Each
Tin Snips, aviation type	0	1	1	1	1	1	1	1	1	Each
Square, framing, 2 ft.	0	1	2	2	2	0	0	0	0	Each
Tape, Barrier, yellow, fireline or equivalent, 100 yd. roll	1	2	14	14	14	0	4	6	8	Roll
Tape, Duct	1	2	6	14	14	1	4	6	8	Roll
Wrench, pipe, 36" aluminum	0	0	1	1	1	0	0	0	0	Each
Wrench, pipe, 18" aluminum	0	0	1	1	1	0	0	0	0	Each
Wrench, pipe, 12" aluminum	0	0	1	1	1	0	0	0	0	Each

Hand Tools (continued)	T4 Qty	T3 Qty	T2 Qty	T1 Qty	RTF Qty	FEB	S-F T3	S-F T2	S-F T1	Unit
Tool, Gas and Water Shut-off	1	1	2	4	4	0	0	1	2	Each
Picket, minimum 1" cold rolled steel, 48" long	0	0	12	12	12	0	0	0	0	Each
Saw, Hand, 26" crosscut	2	2	2	2	2	0	0	0	0	Each
Wrench, Adjustable, 12"	0	1	1	1	1	1	1	1	1	Each
Wrench, Adjustable, 8"	0	1	1	1	1	1	1	1	1	Each
Hammer, Ball Peen	0	1	1	1	1	0	0	1	1	Each
Breaker Bar, 1/2"	0	1	1	1	1	0	0	0	0	Each
Wire Cutters, Diagonal	0	1	1	1	1	0	1	2	2	Each
Pliers, Adjustable, Locking	0	1	1	1	1	0	1	1	1	Each
Socket Set, 1/2" Metric, w/ ratchet and extension	0	1	1	1	1	0	1	1	1	Set
Socket Set, 1/2" Standard, w/ ratchet and extension	0	1	1	1	1	0	1	1	1	Set
Screwdriver Set, Phillips	0	1	1	1	1	0	1	1	1	Set
Screwdriver Set, Slotted	0	1	1	1	1	0	1	1	1	Set
Pliers, Slip Joint	0	1	1	1	1	0	1	1	1	Each

HEAVY RIGGING

Heavy Rigging	T4 Qty	T3 Qty	T2 Qty	T1 Qty	RTF Qty	FEB	S-F T3	S-F T2	S-F T1	Unit
Shear pin, 2-Ton come-a-long, spare	0	0	0	0	2	0	0	0	0	Each
Shackles, Screw Pin, 1- 1/4", 12 ton *Optional	0	0	0	4*	8	0	0	0	0	Each
Shackles, Screw Pin, Round 5/8" 3-1/4 ton *Optional	0	0	0	4*	8	0	0	0	0	Each
Shackles, Screw Pin, Flat, for flat synthetic web, 12 ton *Optional	0	0	0	2*	4	0	0	0	0	Each
Sling, Polyester, round sling, 20 ft. endless, 17,000 lb. choker capacity *Optional	0	0	0	2*	4	0	0	0	0	Each
Sling, Polyester round sling, 10 ft. endless, 17,000 lb. choker capacity *Optional	0	0	0	2*	4	0	0	0	0	Each
Slings, Synthetic, Heavy duty, 3" x 6', Type 3, Flat Eye, One Ply 3800 lb. Choker Capacity *Optional	0	0	0	2*	4	0	0	0	0	Each
Slings, Wire Rope, IPS, Mechanical Splice, 1/2" X 12', 2400 lb., choker capacity *Optional	0	0	0	2*	4	0	0	0	0	Each
Swivel hook	0	0	0	0	2	0	0	0	0	Each
Chain, 3/8"x10', grade 10 or 100, lifting, with Clevis, slip hooks and latches	0	0	0	0	2	0	0	0	0	Each
Chain, 3/8"x 20', grade 10 or 100, lifting, with Clevis, slip hook and latches	0	0	0	0	2	0	0	0	0	Each
Chain, 3/8"x10', grade 8 (or 80) or higher, lifting, with Clevis, slip hooks and latches	0	0	0	0	4	0	0	0	0	Each
Chain, 3/8"x 20', grade 8 (or 80) or higher, lifting, with Clevis, slip hook and latches	0	0	0	0	4	0	0	0	0	Each
Chain, 3/8" x 1', grade 8 (or 80) or higher, with grab hooks	0	0	0	1	1	0	0	0	0	Each
Chain, 3/8" x 5', grade 8 (or 80) or higher, with grab and slip hooks	0	0	0	1	1	0	0	0	0	Each

Heavy Rigging (continued)	T4 Qty	T3 Qty	T2 Qty	T1 Qty	RTF Qty	FEB	S-F T3	S-F T2	S-F T1	Unit
Chain, 3/8" x 10', grade 8 (or 80) or higher, with grab and slip hooks	0	0	0	1	1	0	0	0	0	Each
Chain, 3/8" x 20', grade 8 (or 80) or higher, with grab and slip hooks	0	0	0	1	1	0	0	0	0	Each
Swivel Hoist Rings, 1/2" x 2.5" Steel, Crosby or other USA equivalent	0	0	0	0	4	0	0	0	0	Each
Eye Nuts, 1/2", Steel, Crosby or other USA equivalent	0	0	0	0	8	0	0	0	0	Each
Anchors, Wedge, Concrete, 1/2" x 5-1/2"	0	0	25	25	25	0	0	0	0	Each
Socket, deep, 3/4", for Torque Wrench	0	0	0	0	2	0	0	0	0	Each
Anchor, Hilti Undercut, 8/Box	0	0	0	0	2	0	0	0	0	Each
Bit, Drill, 1/2"	0	0	0	0	2	0	0	0	0	Each
Tool, Setting, Undercut Anchor	0	0	0	0	2	0	0	0	0	Each
Screw, Concrete, 25/Box	0	0	0	0	1	0	0	0	0	Each
Edge Protection, Sling Protection	0	0	0	0	8	0	0	0	0	Each
Anchors, Wedge, Concrete, 1/2" x 7"	0	0	0	0	25	0	0	0	0	Each
Hoist, Ratchet Chain – 1.5 Ton, 10'	0	0	0	0	2	0	0	0	0	Each
Hook, Single, 3/8" chain, 8,800 lb. capacity (Crosby A-1361)	0	0	0	0	2	0	0	0	0	Each
Hook, Double, 3/8" chain, 17,600 lb. capacity (Crosby A-1362)	0	0	0	0	2	0	0	0	0	Each
Grip Hoist, 8000 lb. Lift Capacity, with 8 spare sheer pins & 1 spare handle	0	0	0	1	2	0	0	0	0	Kit
Cable, Wire Rope, for Grip Hoist, w/Safety Hooks and Welded Point, 60'	0	0	0	1	2	0	0	0	0	Each
Snatch Block, Single Sheave w/ Shackle	0	0	0	1	2	0	0	0	0	Each
Shackle, 1 1/2 ton	0	0	0	2	4	0	0	0	0	Each
Sling, Polyester, round sling, 8 ft. endless, (green), 4,200 lb. choker capacity *Optional	0	0	0	2*	4	0	0	0	0	Each
Sling, Polyester, round sling, 10 ft. endless, (yellow), 6,700 lb. choker capacity *Optional	0	0	0	2*	4	0	0	0	0	Each
Sling, Polyester, round sling, 12 ft. endless, (yellow), 6,700 lb. choker capacity *Optional	0	0	0	2*	4	0	0	0	0	Each
Come along, 2-Ton	0	0	1	2	4	0	0	0	0	Each
Bolt Hangers, 1/2" rock climbing	0	0	25	25	25	0	0	0	0	Each
Wrench, Torque, 1/2" drive, 25-250 Ft. Lb., Adjustable	0	0	1	1	1	0	0	0	0	Each
Socket, deep, 3/4", for Torque Wrench	0	0	1	1	1	0	0	0	0	Each

HYDRAULIC POWERED TOOLS

Hydraulic Powered Tools	T4 Qty	T3 Qty	T2 Qty	T1 Qty	RTF Qty	FEB	S-F T3	S-F T2	S-F T1	Unit
Hydraulic Vehicle Rescue System (Gas or Battery powered)	0	0	0	1	1	0	0	0	0	Kit
Maintenance Kit: spark plug, air filter, wrench - REQUIRED if gasoline powered unit	0	0	0	1	1	0	0	0	0	Kit
Power Unit, Hydraulic Vehicle Rescue System – Required if gasoline powered system. Batteries/charger if Battery powered system.	0	0	0	1	1	0	0	0	0	Each
Cutter, Hydraulic Vehicle Rescue System	0	0	0	1	1	0	0	0	0	Each
Spreader, Hydraulic Vehicle Rescue System	0	0	0	1	1	0	0	0	0	Each
Ram, Hydraulic Vehicle Rescue System (1 short, 1 long ram, plus extensions)	0	0	0	2	2	0	0	0	0	Each
Chain Set (manufacturer specific), Hydraulic Vehicle Rescue System	0	0	0	2	2	0	0	0	0	Each
Tool Hose, 20-foot min., Hydraulic Vehicle Rescue System – REQUIRED if gasoline powered system	0	0	0	2	2	0	0	0	0	Each
Hydraulic Fluid, Hydraulic Vehicle Rescue System, spare – REQUIRED if gasoline powered system	0	0	0	2	2	0	0	0	0	Quart

SAFETY

Safety	T4 Qty	T3 Qty	T2 Qty	T1 Qty	RTF Qty	FEB	S-F T3	S-F T2	S-F T1	Unit
Detector, current, AC voltage detection-type	0	0	0	1	2	0	0	1	1	Each
Blower, ventilation, for confined space, electric	0	0	1	1	2	0	0	0	0	Each
Duct, 15 foot, reinforced	0	0	1	1	2	0	0	0	0	Each
Breathing apparatus, airline-supplied (SABA), with 10-minute escape cylinder	0	0	0	4	4	0	0	0	0	Each
Mask, face piece, compatible w/ SABA	0	0	0	4	4	0	0	0	0	Each
Air Line, supply, 300 feet, compatible w/ SABA	0	0	0	4	4	0	0	0	0	Each
Air box, portable supplied air system, compatible w/ SABA	0	0	0	1	1	0	0	0	0	Each
Breathing apparatus, Victim Protection (SCBA from previous section may be used to meet this requirement)	0	0	0	1	2	0	0	0	0	Each
Lockout/Tagout Kit	0	0	1	1	1	0	0	0	0	Kit
Fire Extinguisher, Marine	0	0	0	0	0	1	1	1	2	Each
Megaphone/PA, *Optional	0	0	0	1	1	1*	1*	1	1	Each

SHORING

Shoring	T4 Qty	T3 Qty	T2 Qty	T1 Qty	RTF Qty	FEB	S-F T3	S-F T2	S-F T1	Unit
Cribbing Container, for carrying and storage	1	2	4	5	5	0	0	0	0	Each
Cribbing, 2" x 4" x 18"	8	16	32	40	40	0	0	0	0	Each
Cribbing, 4" x 4" x 18"	8	16	32	40	40	0	0	0	0	Each

Shoring (continued)	T4 Qty	T3 Qty	T2 Qty	T1 Qty	RTF Qty	FEB	S-F T3	S-F T2	S-F T1	Unit
Wedges, 2" x 4" x 12"	8	16	32	40	40	0	0	0	0	Pair
Wedges, 4" x 4" x 18"	8	16	32	40	40	0	0	0	0	Pair
Ellis Clamps, 4" x 4" lumber	0	0	8	8	8	0	0	0	0	Each
Ellis Jack, for Ellis Clamps, 4" x 4" lumber	0	0	1	2	2	0	0	0	0	Each
Ellis Post Screw Jack, 4" x 4" lumber	0	0	8	8	8	0	0	0	0	Each
Lumber, 4" x 4" x 8'	0	0	12	24	24	0	0	0	0	Each
Lumber, 2" x 12" x 8', 10' recommended (may substitute twice the amount of 2" x 6" lumber)	0	0	4	8	8	0	0	0	0	Each
Lumber, 2" x 6" x 8', 10' recommended (may substitute twice the amount of 2" x 4" lumber)	0	0	4	8	8	0	0	0	0	Each
Plywood, 4' x 8' x 3/4" x 5 ply	0	0	4	8	8	0	0	0	0	Each
Trench Shore Kit - any combination of 6 mechanical shores (Ellis post, pneumatic, mechanical) for a 6' span with a minimum safe working load of 7200 lbs. – May count Ellis Post equipment listed above	0	0	1	2	3	0	0	0	0	Kit
Nail Gun Kit, framing, 8d through 16d, pneumatic, gas actuated, or battery powered	0	0	0	1	1	0	0	0	0	Each
Nails, matching framing nail gun, 8d full head	0	0	0	50	50	0	0	0	0	Lbs.
Nails, matching framing nail gun, 16d full head	0	0	0	50	50	0	0	0	0	Lbs.
If pneumatic nail gun										
Hose, Air, 50' sections	0	0	0	1	1	0	0	0	0	Each
Regulator, in-line	0	0	0	1	1	0	0	0	0	Each
Gauge, Regulator	0	0	0	1	1	0	0	0	0	Each
If gas actuated nail gun										
Battery Charger	0	0	0	1	2	0	0	0	0	Each
Gas Cartridges	0	0	0	2	2	0	0	0	0	Each
Spare Batteries	0	0	0	2	2	0	0	0	0	Each
If battery powered nail gun										
Battery Charger	0	0	0	1	2	0	0	0	0	Each
Spare Batteries	0	0	0	2	2	0	0	0	0	Each
Nail Gun, Piston/Powder Activated	0	0	0	1	1	0	0	0	0	Each
Cleaning Kit, piston/powder activated nail gun	0	0	0	1	1	0	0	0	0	Each
Pins, 2-1/2" w/ washers	0	0	0	50	50	0	0	0	0	Each
Pins, 2-7/8" w/ washers	0	0	0	50	50	0	0	0	0	Each
Loads, for Piston Activated Nail Gun	0	0	0	150	150	0	0	0	0	Each
Palm Nailer, pneumatic or electric cordless (with accessories needed for operation, i.e. batteries, charger, etc)	0	0	1	1	1	0	0	0	0	Each

TECHNICAL ROPE

Technical Rope	T4 Qty	T3 Qty	T2 Qty	T1 Qty	RTF Qty	FEB	S-F T3	S-F T2	S-F T1	Unit
Victim Helmet, All-Hazard	0	0	1	1	2	0	0	0	0	Each
Hauling system, Rope, 4:1 advantage w/ 200 ft. of lifeline, static kernmantle, must meet or exceed NFPA G-rated, 1983 or 2800	0	0	1	1	1	0	0	0	0	Kit
Ascender, for Rope Carried, 5400 lbs. breaking strength	0	0	2	2	2	0	0	0	0	Each
Tripod, minimum workload of 600 lbs.	0	0	0	1	1	0	0	0	0	Each
Stretcher, Roll up, Full Size	0	0	0	1	2	0	0	0	1	Each
Pulley, Single Sheave, Prusik-minding, NFPA 2500 General Use, (Swivel pulley recommended)	0	3	6	12	12	0	2	6	12	Each
Pulley, Double Sheave, Prusik-minding, NFPA 2500 General Use, (Swivel pulley recommended)	0	0	2	2	2	0	2	6	12	Each
Pulley, Knot Passing, NFPA 2500 General Use	0	0	2	2	2	0	0	1	2	Each
Harness, Class III, OSHA confined space standard compliant, *Optional	0	3	6	6	12	1	4*	4	4	Each
Victim packaging appropriate for confined space rescue and vertical lift (may be met by victim packaging adjuncts listed elsewhere in the MEL), *Optional	0	1	1	2	4	0	1*	1	2	Each
Anchor/Rigging Plate, NFPA 1983 or 2800 General Use, *Recommended	0	2	2	2	4	0	1*	2	4	Each
Descent Control Device, compatible to lifeline rope, *Recommended	0	2	4	4	4	0	2*	4	8	Each
Roller, Edge, Rope	0	0	0	2	2	0	0	0	0	Each
Edge Protector	0	4	4	4	4	0	2	2	4	Each
Rope Log (includes entry for each assigned rope), Digital or Hardcopy	0	1	1	1	1	0	1	1	1	Each
Bag, Rope Rescue Hardware	0	1	2	2	2	0	2	2	2	Each
Rope, w/storage bag, 600' (minimum) static kernmantle, NFPA 1983 General Use	0	0	0	0	2	0	0	1	1	Each
Rope, w/storage bag, 300' (minimum) static kernmantle, NFPA 1983 General Use	0	1	2	4	4	0	1	2	3	Each
Rope, w/storage bag, 200' (minimum) static kernmantle, NFPA 1983 General Use	0	0	0	0	0	0	2	2	4	Each
Rope, w/storage bag, 150' (minimum) static kernmantle, NFPA 1983 General Use	0	2	2	2	2	0	0	0	0	Each
Carabiners, NFPA 1983 General Use	0	15	30	50	50	0	20	40	50	Each
Carabiners, NFPA 1983 Technical Use – may substitute up to 20 “T” rated carabiners for “G” rated from line above	0	0	0	20	20	0	0	20	20	Each
Prussik Loops, SHORT, 8mm OR compatible with lifeline rope diameter	0	6	12	12	12	0	4	6	12	Each
Prussik Loops, LONG, 8mm OR compatible with lifeline rope diameter	0	6	12	12	12	0	4	6	12	Each
Webbing, Tubular, 1" x 5-foot GREEN, MBS 4000 lbs.	0	6	12	12	12	0	8	12	20	Each

Technical Rope (continued)	T4 Qty	T3 Qty	T2 Qty	T1 Qty	RTF Qty	FEB	S-F T3	S-F T2	S-F T1	Unit
Webbing, Tubular, 1" x 12-foot YELLOW, MBS 4000 lbs.	0	6	12	12	12	0	8	12	20	Each
Webbing, Tubular, 1" x 15-foot BLUE, MBS 4000 lbs.	0	6	12	12	12	0	8	12	20	Each
Webbing, Tubular, 1" x 20-foot ORANGE, MBS 4000 lbs.	0	6	12	12	12	0	8	12	20	Each
Anchor Sling/Strap, manufactured, rated (may substitute for up to 50% of webbing listed above)	0	2	4	4	4	0	0	1	2	Each
Etrier, Webbing, UIAA, CE or NFPA rated. Or similar functional rigging equivalent	0	0	2	2	2	0	0	0	0	Each
Strap, Pick-off. Or similar functional rigging equivalent	0	0	2	2	2	0	0	2	4	Each
Load Releasing Device, for lifeline rope, NFPA 1983 General Use. Or similar functional rigging equivalent	0	2	4	4	4	0	1	1	1	Each
Litter, Rescue, for horizontal and vertical lift	0	1	1	1	1	0	1	1	2	Each
Litter Flotation Kit	0	0	0	0	0	0	1	1	2	Each
Shield, rescue litter (OPTIONAL)	0	0	1	1	1	0	0	0	0	Each
Bridle, rescue litter, including low and high angle rigging	0	1	1	1	1	0	0	0	0	Each
Picket System, 5000lb working load *pickets from shoring section may be counted for this requirement	0	2	2	4	4	0	2*	2	4	Each

TORCHES

Torches	T4 Qty	T3 Qty	T2 Qty	T1 Qty	RTF Qty	FEB	S-F T3	S-F T2	S-F T1	Unit
Torch, portable kit, w/ all attachments w/ 1" steel cutting capability	0	0	0	1	1	0	0	0	0	Each
Striker, matching torch	0	0	0	2	2	0	0	0	0	Each
Torch Tips, matching spare	0	0	0	1	1	0	0	0	0	Kit
Soap Stone / Lumber Crayon Markers	0	0	0	1	1	0	0	0	0	Kit
Tape Measure	0	0	0	1	1	0	0	0	0	Kit
Load Calculation Reference	0	0	0	1	1	0	0	0	0	Kit
#5 Goggle / Face Shield / Welding Mask specific to torch kit being used	0	0	0	2	2	0	0	0	0	Each
Gloves, Welding	0	0	0	2	2	0	0	0	0	Pair
Jacket, Welding	0	0	0	2	2	0	0	0	0	Pair
Adjustable Wrench, 12"	0	0	0	1	1	0	0	0	0	Kit
Oxygen, 120 cubic feet, spare (Required for cutting torch systems that utilize Oxygen)	0	0	0	1	1	0	0	0	0	Each
If exothermic torch kit										
Rods, spare	0	0	0	100	100	0	0	0	0	Each
Power source appropriate to torch	0	0	0	1	1	0	0	0	0	Each
If oxygen/acetylene torch kit										
Acetylene, 75 cubic feet	0	0	0	1	1	0	0	0	0	Each
If oxygen/gasoline torch kit										
Fuel specific to torch, spare	0	0	0	1	1	0	0	0	0	Each

Torches (continued)	T4 Qty	T3 Qty	T2 Qty	T1 Qty	RTF Qty	FEB	S-F T3	S-F T2	S-F T1	Unit
If plasma cutter										
Spare tips	0	0	0	2	2	0	0	0	0	Each
220v Power supply/cords	0	0	0	1	1	0	0	0	0	Each
Air source	0	0	0	1	1	0	0	0	0	Each

VEHICLE STABILIZATION

Vehicle Stabilization	T4 Qty	T3 Qty	T2 Qty	T1 Qty	RTF Qty	FEB	S-F T3	S-F T2	S-F T1	Unit
Jack, Hydraulic Bottle, 5-ton minimum	0	0	2	2	2	0	0	2	2	Each
Jack, Farm/Ranch (Hi-Lift or similar)	0	0	2	2	2		0	2	2	Each
Jack, Floor *Optional	0	0	1*	1*	1*	0	0	0	0	Each
Kit, Vehicle Stabilizing/Lifting (stabilize a commercial vehicle up to 120,000 lbs.) – Commercially available kit or combination of equipment from the MEL	0	0	0	1	1	0	0	0	0	Kit

TECHNICAL

TECHNICAL SEARCH EQUIPMENT

Technical Search Equipment	T4 Qty	T3 Qty	T2 Qty	T1 Qty	RTF Qty	FEB	S-F T3	S-F T2	S-F T1	Unit
Search Camera with articulating viewing ability	0	0	0	1	1	0	0	0	0	Each
Reinforced Concrete/Masonry Drilling Capability, matching search camera	0	0	0	1	1	0	0	0	0	Kit
GPS, handheld portable, WAAS capable, compatible with Garmin Mapsource software, battery operated, USB data cable (may substitute smart device with GPS location and offline mapping capability)	0	0	2	4	4	1	2	2	4	Each
Compass, handheld	0	0	2	4	4	1	1	2	2	Each
Night Vision Goggle *Optional	0	0	0	2	2	1*	1*	1*	2*	Each
Listening Device, 2-way void space communications	0	0	0	1	1	0	0	0	0	Kit
Thermal Imaging Camera or FLIR, with charger, spare battery, hand/neck strap,	0	0	0	1	2	0	1	1	2	Each
Unmanned Aerial Vehicle (IR and Video downlink preferred), REQUIRES AHJ/FAA authorized pilot, *Optional	0	0	0	0	1*	0	0	0	0	Each
Smart Device, GPS enabled, capable of current state requirements for mobile data collection and mapping. Devices substituted above for the GPS requirement may also be used to meet this requirement.	0	0	0	0	2	0	0	0	0	Each
Labels, Search Marking	0	0	0	100	500	0	50	100	100	Each
Search Dog flotation device	0	0	0	0	0	0	0	1	1	Each

WATER**BOATS, MOTORS, TRAILERS**

Boats, Motors, Trailers	T4 Qty	T3 Qty	T2 Qty	T1 Qty	RTF Qty	FEB	S-F T3	S-F T2	S-F T1	Unit
Boat (self-bailing raft), non-powered, 4-person minimum	0	0	0	0	0	1	1	1	1	Each
Fuel, Bladder/tank w/ fuel line hose	0	0	0	0	0	1	1	2	3	Each
Inflatable Rescue Boat, IRB, 12-14' Minimum, self-bailing	0	0	0	0	0	0	1	2	2	Each
IRB Patch Kit	0	0	0	0	0	1	1	2	2	Each
Lanyard, wrist, kill switch	0	0	0	0	0	1	3	6	8	Each
Boat Motor, 30 HP (minimum) , prop w/ guard	0	0	0	0	0	1	1	2	2	Each
Boat Motor Flush kit, "rabbit ears"	0	0	0	0	0	1	1	2	2	Each
Paddles, water	0	0	0	0	0	2	8	16	16	Each
Air, Manual Inflation Pump, i.e. K-pump, K-40	0	0	0	0	0	1	1	2	2	Each
Prop Guard, Spare	0	0	0	0	0	1	1	2	2	Each
Boat Launch Wheels	0	0	0	0	0	0	1	2	2	Set
Spare Motor, 30 HP	0	0	0	0	0	0	1	1	1	Each
Navigation Light Set	0	0	0	0	0	0	1	2	2	Set
Boat Bag or Rigging Bag	0	0	0	0	0	0	1	2	2	Each
Air, Power Operated	0	0	0	0	0	0	1	1	1	Each
FLIP Line	0	0	0	0	0	0	2	6	6	Each

MUD AND DEBRIS OPERATIONS EQUIPMENT

Mud and Debris Flow Operations Equipment	T4 Qty	T3 Qty	T2 Qty	T1 Qty	RTF Qty	FEB	S-F T3	S-F T2	S-F T1	Unit
Probing pole, non-conducting, 6 ft	0	0	0	6	6	1	1	1	2	Each
Air/Mud Knife, Air Rescue Tool *Recommended	0	0	0	1*	1*	0	0	0	0	Each
Waders (or Dry Suit Equivalent)	0	0	0	(6)	(12)	0	(3)	(6)	(8)	Each

WATER OPERATIONS EQUIPMENT

Water Operations Equipment	T4 Qty	T3 Qty	T2 Qty	T1 Qty	RTF Qty	FEB	S-F T3	S-F T2	S-F T1	Unit
Helo Victim Lifting Device, Cinch Collar	0	0	0	0	0	0	1	1	2	Each
Throw Bag, with floating line (75 ft minimum)	0	0	0	0	0	2	6	12	16	Each
Handheld spotlight (waterproof)	0	0	0	0	0	2	6	12	16	Each
Inflatable Hose Kit including hose	0	0	0	0	0	0	1	1	2	Each
Line Thrower (minimum 200 ft range) *Optional	0	0	0	0	0	0	1	1	2	Each
Dive Mask *Recommended	0	0	0	0	0	0	2*	2*	4*	Each
Snorkel *Recommended	0	0	0	0	0	0	2*	2*	4*	Each

WATER OPERATIONS SUPPORT

Water Operations Support	T4 Qty	T3 Qty	T2 Qty	T1 Qty	RTF Qty	FEB	S-F T3	S-F T2	S-F T1	Unit
Standard thread, Garden Hose, 50'	0	0	0	1	1	0	1	1	1	Each
Bags, waterproof, radio	0	0	0	0	0	1	6	12	16	Each
Headset, waterproof *Recommended	0	0	0	0	0	0	6*	12*	16*	Each
Body bag *Optional	0	0	0	0	0	2*	2	2	4	Each
Victim PFD, Type III, Victim assort (USCG Approved)	0	0	0	0	0	2	2	4	6	Each
Victim Helmet, water cascade	0	0	0	0	0	2	2	4	4	Each

WATER RESCUE PPE

Water Rescue PPE	T4 Qty	T3 Qty	T2 Qty	T1 Qty	RTF Qty	FEB	S-F T3	S-F T2	S-F T1	Unit
Helmet, water rescue	0	0	0	0	0	2	6	12	16	Each
Helmet Light, Waterproof	0	0	0	0	0	2	6	12	16	Each
Personal Safety Strobe	0	0	0	0	0	2	6	12	16	Each
Personal Floatation Device, (tethered swimmer) USCG Approved Type IV	0	0	0	0	0	2	6	12	16	Each
Water Rescue Whistle (no pea)	0	0	0	0	0	2	6	12	16	Each
Dry Suit, common sizes w/ manufacturer recommended liner	0	0	0	0	0	2	6	12	16	Each
Dry Suit, repair kit	0	0	0	0	0	1	1	1	1	Each
Aerial Flares	0	0	0	0	0	2	4	6	16	Each
Dye Markers	0	0	0	0	0	2	4	6	16	Each
Dry Gear Bags	0	0	0	0	0	2	6	12	16	Each
Fins, pair	0	0	0	0	0	1	3	6	8	Each
Eye Protection, Water Environment	0	0	0	0	0	2	6	12	16	Each
Gloves-water	0	0	0	0	0	2	6	12	16	Each
Helicopter Emergency Escape Device-HEED (or equivalent) *Optional	0	0	0	0	0	0	0	6*	6*	Each
Handheld Flares	0	0	0	0	0	2	4	6	16	Each
Handheld survival strobe light	0	0	0	0	0	2	4	6	16	Each
Helo Flotation vest (USCG Approved) *Optional	0	0	0	0	0	0	0	6*	16*	Each
Rescue Knives	0	0	0	0	0	2	6	12	16	Each
Tennis shoes or appropriate water booties	0	0	0	0	0	2	6	12	16	Each
Smoke Marking Device *Optional	0	0	0	0	0	2*	4*	6*	16*	Each
Swimmer Rescue Board	0	0	0	0	0	0	2	2	4	Each
Throw-able Flotation Device (USCG Approved) *Recommended	0	0	0	0	0	1	1	1	2	Each
Personal waist throw bag w/ 50ft minimum floating line w/ capture device (crossline reach)	0	0	0	0	0	2	6	12	16	Each

APPENDIX B

MISSION READY PACKAGE DESCRIPTIONS

Mission Ready Package – Canine Search

RESOURCE:	Canine Search Support Team		
RESOURCE CATEGORY:	Search and Rescue (ESF #9)	KIND:	Canine Search
OVERALL FUNCTION:	<p>A team that performs multiple, simultaneous searches for survivors or human remains, using discipline-specific canines.</p> <p>1 MRP is capable of continuous 12-hour operations, for 24-hour operations, order two or more MRPs.</p>	COMPOSITION & ORDERING SPECIFICATIONS:	<p>1 Search Team Manager 2 Canine Search Teams 1 Logistics Specialist 1 Support Personnel</p> <p>Each package will include either two Canine Search Teams – Live Find (CST-LF) or two Human Remains Detection (CST-HRD) search canines and handlers. The LF or HRD capabilities are ordered as separate packages.</p> <p>Re-supply and shelter for the team must be provided by the requesting agency. Law enforcement support will be provided by the local agency or ESF-13 response.</p>

CAPABILITIES:			NOTES:
COMPONENT:	METRIC:	DETAILS:	
Vehicle	Transportation	Vehicle(s) capable of transporting CSTs	
Equipment	Materials and supplies	<p>Self-sustaining for 72 hours to include personal protective equipment, food, water, and fuel.</p> <p>Basic first aid for human and canine at BLS level.</p> <p>Basic communications equipment for communications with the command element.</p> <p>Discipline specific equipment to accomplish the mission objectives, see Appendix B</p>	<p>Ensure requesting agency is capable of providing 24-hour emergency veterinary care. If not, a System Doctor of Veterinary Medicine should be added to the Package.</p>

Mission Ready Package – Communications

RESOURCE:	Communications Support Team		
RESOURCE CATEGORY:	Search and Rescue (ESF #9)	KIND:	Communications
OVERALL FUNCTION:	<p>A team that supports a 24-hour operation full communications capability for an entity similar to an IST.</p> <p>1 MRP is capable of continuous 12-hour operations, for 24-hour operations, order two or more MRPs.</p>	COMPOSITION & ORDERING SPECIFICATIONS:	<p>1 Communications Unit Leader</p> <p>2 Communications Specialists</p> <p>1 Communications Specialist (Networking)</p> <p>2 Radio Operators</p> <p>Re-supply and shelter for the team must be provided by the requesting agency. Law enforcement support will be provided by the local agency or ESF-13 response.</p>

CAPABILITIES:			NOTES:
COMPONENT:	METRIC:	DETAILS:	
Vehicle	Transportation	Vehicle(s) capable of transporting team and equipment	
Equipment	Materials and supplies	<p>Self-sustaining for 72 hours to include personal protective equipment, food, water, and fuel.</p> <p>Basic first aid resources at the BLS level.</p> <p>Discipline specific equipment to accomplish the mission objectives, see <i>Appendix B</i></p>	<p>May also bring communications equipment specified by requesting agency</p> <p>Re-supply and shelter for the team must be provided by the requesting agency. Law enforcement support will be provided by the local agency or ESF-13 response.</p>

* The Communications Unit Leader should have a background and experience in Information Technology.

** The primary responsibility of the Radio Operator is to pass accurate and timely information from the sender to the receiver and follow through with an accurate and timely response to the sender if needed. Other duties that may be required are documentation of all communications, filing of documentation, radio check-out/in, equipment checks, etc. The position may be filled by any member who possesses these skills.

Mission Ready Package – Command

RESOURCE:	Command Support Team		
RESOURCE CATEGORY:	Search and Rescue (ESF #9)	KIND:	Command
OVERALL FUNCTION:	<p>A team that supports the Incident Commander(s) and/or Incident Management Team(s).</p> <p>1 MRP is capable of continuous 12-hour operations, for 24-hour operations, order two or more MRPs.</p>	COMPOSITION & ORDERING SPECIFICATIONS:	<p>1 USAR IST Leader</p> <p>1 USAR IST Operations Section Chief</p> <p>1 USAR IST Planning Section Chief</p> <p>1 USAR IST Logistics Section Chief</p> <p>1 USAR IST Medical Officer</p> <p>May order to assist State and Local Incident Management Teams.</p> <p>Re-supply and shelter for the team must be provided by the requesting agency. Law enforcement support will be provided by the local agency or ESF-13 response.</p>

CAPABILITIES:			NOTES:
COMPONENT:	METRIC:	DETAILS:	
Vehicle	Transportation	Vehicle(s) capable of transporting personnel and equipment.	
Equipment	Materials and supplies	<p>Self-sustaining for 72 hours to include personal protective equipment, food, water, and fuel.</p> <p>Basic first aid resources at the BLS level.</p> <p>Basic communications equipment for communications with the command element</p> <p>Discipline specific equipment to accomplish the mission objectives, see <i>Appendix B</i></p>	

Mission Ready Package – Logistics Support

RESOURCE:	Logistics Support Team		
RESOURCE CATEGORY:	Search and Rescue (ESF #9)	KIND:	Logistics
OVERALL FUNCTION:	<p>A team that performs incident logistics support. This can include resource ordering, supply and resource receiving, distribution and transportation support.</p> <p>1 MRP is capable of continuous 12-hour operations, for 24-hour operations, order two or more MRPs.</p>	COMPOSITION & ORDERING SPECIFICATIONS:	<p>1 USAR Logistics Team Manager</p> <p>2 USAR Logistics Specialists</p> <p>Re-supply and shelter for the team must be provided by the requesting agency. Law enforcement support will be provided by the local agency or ESF-13 response.</p>

CAPABILITIES:			N O T E S :
COMPONENT:	METRIC:	DETAILS:	
Vehicle	Transportation	Vehicle(s) capable of transporting personnel and equipment.	4WD Pickup capable of pickup and delivery of supply resources preferred.
Equipment	Materials and supplies	<p>Self-sustaining for 72 hours to include personal protective equipment, food, water, and fuel.</p> <p>Basic first aid for human and canine at BLS level.</p> <p>Basic communications equipment for communications with the command element.</p> <p>Discipline specific equipment to accomplish the mission objectives, see Appendix B</p>	

Mission Ready Package – Search

RESOURCE:	Search Team		
RESOURCE CATEGORY:	Search and Rescue (ESF #9)	KIND:	Search
OVERALL FUNCTION:	<p>A team that performs multiple, simultaneous canine and technical searches (detection and location) for survivors and/or human remains. Can assist with search management and documentation of searched areas.</p> <p>1 MRP is capable of continuous 12-hour operations, for 24-hour operations, order two or more MRPs.</p>	COMPOSITION & ORDERING SPECIFICATIONS:	<p>1 Search Team Manager 2 Technical Search Specialists 2 Canine Search Specialists (Both Live-Find or HRD) 1 Logistics Specialist 1 Support Personnel</p> <p>Re-supply and shelter for the team must be provided by the requesting agency. Law enforcement support will be provided by the local agency or ESF-13 response.</p>

CAPABILITIES:			N O T E S :
COMPONENT:	METRIC:	DETAILS:	
Vehicles	Transportation	Vehicle(s) capable of transporting personnel and equipment.	2 4WD pickup trucks or 1 4WD pickup and 1 other type vehicle with closed trailer preferred.
Equipment	Materials and supplies	<p>Self-sustaining for 72 hours to include personal protective equipment, food, water, and fuel.</p> <p>Basic first aid for human and canine at BLS level.</p> <p>Basic communications equipment for communications with the command element.</p> <p>Discipline specific equipment to accomplish the mission objectives, see <i>Appendix B</i></p>	

Mission Ready Package – Structures Specialist

RESOURCE:	Structures Specialist Advisory Module		
RESOURCE CATEGORY:	Search and Rescue (ESF #9)	KIND:	Structural
OVERALL FUNCTION:	<p>Resource provides engineering input for a host agency which either does not have its own integrated structural engineering capability or needs additional support.</p> <p>1 MRP is capable of continuous 12-hour operations, for 24-hour operations, order two or more MRPs.</p>	COMPOSITION & ORDERING SPECIFICATIONS:	<p>2 Structures Specialists</p> <p>The primary mission for this module is engineering advice and liaison services for an IST or an IMT.</p> <p>Re-supply and shelter for the team must be provided by the requesting agency. Law enforcement support will be provided by the local agency or ESF-13 response.</p>

CAPABILITIES:			N O T E S :
COMPONENT:	METRIC:	DETAILS:	
Vehicles	Transportation	Vehicle capable of transporting personnel and equipment.	SUV type preferred
Equipment	Materials and supplies	<p>Self-sustaining for 72 hours to include personal protective equipment, food, water, and fuel.</p> <p>Basic first aid for equipment at BLS level.</p> <p>Basic communications equipment for communications with the command element.</p> <p>Communications equipment suitable for assignment.</p> <p>Discipline specific equipment to accomplish the mission objectives, to include engineering tools suitable for assignment, see <i>Appendix B</i></p>	

Mission Ready Package – Technical Rescue

RESOURCE:	Technical Rescue Team		
RESOURCE CATEGORY:	Search and Rescue (ESF #9)	KIND:	Technical Rescue
OVERALL FUNCTION:	<p>A team that performs rescue for survivors. Can assist with technical rescues.</p> <p>1 MRP is capable of continuous 12-hour operations, for 24-hour operations, order two or more MRPs.</p>	COMPOSITION & ORDERING SPECIFICATIONS:	<p>1 Rescue Team Manager 1 Rescue Squad Officer 5 Rescue Specialists 1 Logistics Specialist 1 Support Personnel</p> <p>Re-supply and shelter for the team must be provided by the requesting agency. Law enforcement support will be provided by the local agency or ESF-13 response.</p>

CAPABILITIES:			N O T E S :
COMPONENT:	METRIC:	DETAILS:	
Vehicles	Transportation	<p>Vehicle(s) capable of transporting personnel and equipment.</p> <p>Discipline specific equipment to accomplish the mission objectives, see <i>FEMA Mission Ready Package Equipment Cache List</i> for equipment details.</p>	2 4WD pick-up trucks, with extended cab, or 1 4WD pickup and 1 other type vehicle with closed trailer preferred.
Equipment	Materials and supplies	<p>Self-sustaining for 72 hours to include personal protective equipment, food, water, and fuel.</p> <p>Basic first aid for human and canine at BLS level.</p> <p>Basic communications equipment for communications with the command element.</p> <p>Discipline specific equipment to accomplish the mission objectives, see <i>Appendix B</i></p>	

Mission Ready Package – Tunnel Rescue

RESOURCE:	Tunnel Rescue Team		
RESOURCE CATEGORY:	Search and Rescue (ESF #9)	KIND:	Tunnel Rescue
OVERALL FUNCTION:	A team that allows US&R operations in subterranean areas with an emphasis on reconnaissance, communications, air monitoring, mapping, navigation, and survivor extraction.	COMPOSITION & ORDERING SPECIFICATIONS:	<p>1 NIMS type 3 US&R task force</p> <p>10 Support Specialists crossed trained in tunnel rescue and rebreather certified.</p> <p>Re-supply and shelter for the team must be provided by the requesting agency. Law enforcement support will be provided by the local agency or ESF-13 response.</p>

CAPABILITIES:			N O T E S :
COMPONENT:	METRIC:	DETAILS:	
Vehicles	Transportation	Vehicles capable of transporting team and equipment. (Recommend Pick-up Trucks. 4X4, with extended cab, & 16 PAX vans)	
Equipment	Primary Cache	Type I Air Response Module (ARM)	FEMA US&R ARM, plus 2 pallets for rebreather equipment & supplies
Equipment	Materials and supplies	<p>Self-sustaining for 72 hours to include personal protective equipment, food, water, and fuel.</p> <p>Basic first aid resources at BLS level.</p> <p>Basic communications equipment for communications with command element.</p> <p>Discipline specific equipment to accomplish the mission objectives, see <i>Appendix B</i></p>	Some communications equipment and rebreather equipment not in standard US&R cache. Recommend an MRP-Comm if entering a tunnel from more than one location

Mission Ready Package – Water Rescue

RESOURCE:	Water Rescue Team		
RESOURCE CATEGORY:	Search and Rescue (ESF #9)	KIND:	Water Rescue
OVERALL FUNCTION:	<p>A team that allows US&R resources to establish or enhance US&R operations in a water environment.</p> <p>1 MRP is capable of continuous 12-hour operations, for 24-hour operations, order two or more MRPs.</p>	COMPOSITION & ORDERING SPECIFICATIONS:	<p>1 Water Rescue Manager 2 Water Rescue Squad Officers 4 Boat Operators 5 Water Rescue Specialist 1 Logistics Specialist 1 Medical Specialist 2 Support Specialist</p> <p>Law enforcement support, re-supply and shelter for the team must be provided by the requesting agency.</p>

CAPABILITIES:			N O T E S :
COMPONENT:	METRIC:	DETAILS:	
Vehicles	Transportation	Vehicle(s) capable of transporting personnel and equipment.	4WD pick-up trucks with extended cab preferred.
Vehicles	Transportation	4 Rescue Boats (minimum)	2 IRBs and 2 Jon Boats
Equipment	Materials and supplies	<p>Self-sustaining for 72 hours to include personal protective equipment, food, water, and fuel.</p> <p>Basic first aid for human and canine at BLS level.</p> <p>Basic communications equipment for communications with the command element.</p> <p>Discipline specific equipment to accomplish the mission objectives, see <i>Appendix B</i></p>	

Note: At least 14 of the 16 MRP-WR personnel shall be Water Rescue Specialist qualified. The two-additional required Water Rescue Specialist positions can be filled by any combination of having the Logistics Specialist, Medical Specialists or the two additional Support being Water Rescue Specialist qualified.

* Recommend one (1) Support Specialist or one (1) of the Water Rescue Specialist be qualified at a Technical Information Specialist or Plans Manager.

Mission Ready Package – CA Specific Advance Team Support

RESOURCE:	Logistics Support Team		
RESOURCE CATEGORY:	Search and Rescue (ESF #9)	KIND:	Logistics
OVERALL FUNCTION:	<p>A team that provides initial contact and integration to the requesting AHJ. Pre-staging of the Advanced Team MRP can provide information to the AHJ on appropriate resources to order with corresponding approximate reflex times. Provides initial reconnaissance for US&R & technical rescue resources. Integrates with the local ICS structure or provides it, as appropriate. Can assist with preliminary search management and documentation of areas needing priority searches</p> <p>1 MRP is capable of continuous 12-hour operations, for 24-hour operations, order two or more MRPs.</p>	COMPOSITION & ORDERING SPECIFICATIONS:	<p>1-USAR Task Force Leader 1-Search Manager 1-Rescue Manager 1-Haz-Mat Specialist 1-Technical Specialist</p> <p>Re-supply and shelter for the team must be provided by the requesting agency. Law enforcement support will be provided by the local agency or ESF-13 response.</p>

CAPABILITIES:			N O T E S :
COMPONENT:	METRIC:	DETAILS:	
Vehicle	Transportation	Vehicle(s) capable of transporting personnel and equipment.	4WD Pickup capable of pickup and delivery of supply resources preferred.
Equipment	Materials and supplies	<p>Self-sustaining for 72 hours to include personal protective equipment, food, water, and fuel.</p> <p>Basic first aid for human and canine at BLS level.</p> <p>Basic communications equipment for communications with the command element.</p> <p>Discipline specific equipment to accomplish the mission objectives, see Appendix B</p>	

APPENDIX C

Refer to ICS 162-4

[ICS 162-4 Rapid Extraction Module Support \(REMS\)](#)

APPENDIX D

NIMS Type 1-4 US&R Task Force

Minimum Equipment List

COMMUNICATIONS

ACCESSORIES

COMMS	ACCESSORIES	Accessories	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
COMMS	ACCESSORIES	Antenna, mobile, magnetic mount, NMO with BNC connector	10	10	10	10	each
COMMS	ACCESSORIES	Antenna, NMO Mount, All-Band Antenna, for external portable radio antenna, w/ Mag-Mount	10	10	10	10	each
COMMS	ACCESSORIES	Adaptor, BNC to SMA (for Magmount to portable radio)	15	15	15	15	each
COMMS	ACCESSORIES	Antennas, flexible, rubber, 403-520 MHz, (spares for UHF, XTS5000 portables). NOT TO BE USED WITH APX PORTABLE	8	8	8	8	each
COMMS	ACCESSORIES	Cable, coaxial , 50' lengths, with connectors (50-ohm low loss cable) (LMR 400 Ultraflex Type "N - male" connectors heat-shrunked)	10	10	10	10	each
COMMS	ACCESSORIES	Headsets, with noise-canceling microphones and radio interface cable (XTS) or (APX)	4	4	2	2	each
COMMS	ACCESSORIES	Multimeter, (volts, ohms, amps) digital, with probes	2	2	1	1	each
COMMS	ACCESSORIES	Scanner, programmable, all band, P25 with trunking, programming cable and software. 12 VDC/110 VAC capability	1	1	1	1	each
COMMS	ACCESSORIES	Software, Scanner	1	1	1	1	each
COMMS	ACCESSORIES	USB Scanner Radio Cable/interface	1	1	1	1	each
COMMS	ACCESSORIES	Speaker, External	1	1	1	1	each
COMMS	ACCESSORIES	Antenna, Scanner NMO Antenna	1	1	1	1	each
COMMS	ACCESSORIES	Magnet Mount, NMO w/BNC Male connector installed	1	1	1	1	each
COMMS	ACCESSORIES	Microphone, Speaker, XTS 5000	96	96	45	28	each
COMMS	ACCESSORIES	Radio, multi-switcher, and peripherals, with mic, speaker & associated cables to interface with applicable devices	1	1	1	1	each
COMMS	ACCESSORIES	Ear phone ear pieces, disposable (one per TF member for hygiene)	186	186	90	50	each
COMMS	ACCESSORIES	Television/Monitor 19-32", Digital Ready to include all necessary cabling e.g.: HDMI, Video, AV input, SVGA, etc.	1	1	1	1	each

COMMS	ACCESSORIES	Accessories	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
COMMS	ACCESSORIES	Antenna, TV w/coax cable	1	1	1	1	each
COMMS	ACCESSORIES	Harness, Radio, Chest (For APX)	96	96	45	32	each
COMMS	ACCESSORIES	Bag, Waterproof, portable radios	86	86	50	32	each
COMMS	ACCESSORIES	Ear phone, portable radio, Personal use, expendable ear piece	96	96	50	32	each
COMMS	ACCESSORIES	Kit, Programming, Radio, to include ALL software, hardware, and accessories to program all cache communications equipment, including parts listed below	2	2	1	1	each
COMMS	ACCESSORIES	Cable, Programming, PDR 3500	2	2	1	1	each
COMMS	ACCESSORIES	Cable, Programming, APX Portable	2	2	1	1	each
COMMS	ACCESSORIES	Cable, Programming, USB, XTL 5000 or APX (05 GCAI Control Head)	2	2	1	1	each
COMMS	ACCESSORIES	Adapter, Antenna, APX7000 Portable to BNC	20	20	20	20	each
COMMS	ACCESSORIES	Power Supply	1	1	1	1	each
COMMS	ACCESSORIES	Antenna, Base Station VHF 118-174MHz	4	4	4	4	each
COMMS	ACCESSORIES	Antenna, Magnet Mount, VHF, 140-174MHz	1	1	1	1	each
COMMS	ACCESSORIES	SAR CRK Search and Rescue Communications Response Kit in Olive Green Pelican 1690 Case, and associated cables and accessories to interface with applicable peripherals. TO INCLUDE ITEMS BELOW.	1	1	1	1	each
COMMS	ACCESSORIES	ICRI Interface, ICRI-E 5 radio I/O ports + 1 H250/350 Handset I/O port + 1 Telephone I/O port, in environmental case with environmental connectors. (includes audio buffer delays and integrated "AA" battery holder). TWO TALK GROUP, w/ Orange Pelican Case.	1	1	1	1	each
COMMS	ACCESSORIES	Adapter, Power Supply, 115V AC (in-line switching power supply)	1	1	1	1	each
COMMS	ACCESSORIES	Cable, Extension, universal, 250' with reel and radio "holder" (used in conjunction with any radio interface cable) - with environmental U229 connectors	4	4	4	4	each
COMMS	ACCESSORIES	Handset, H250	1	1	1	1	each
COMMS	ACCESSORIES	Reverse Gender Kit (1 Male to Male, 1 Female to Female)	1	1	1	1	each
COMMS	ACCESSORIES	Cable, Interface, MOTOROLA™ PR 1500, MT-2000, JT-1000, HT-1000, MTS-2000, MTX-6000, MTX-838, MTX-8000, XTS-3000, XTS-5000, XTS-1500, XTS-2500 and EF Johnson 5100 radio interface cable with environmental connector	2	2	2	2	each

COMMS	ACCESSORIES	Accessories	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
COMMS	ACCESSORIES	Cable, Interface, MOTOROLA™ Moto-Turbo XPR 6300/6350/6500/6550, APX 6000/7000 Multi-Band Portable radio interface cable with environmental connector	2	2	2	2	each
COMMS	ACCESSORIES	Adapter, Compatible aircraft portable to match cache list item	1	1	1	1	each
COMMS	ACCESSORIES	Adapter, Power DC Power Cable Kit (two cable kit)- 2 Pin Environmental Connector to Battery Clips and 2 Pin Environmental Connector to Cigarette Lighter	1	1	1	1	each
COMMS	ACCESSORIES	Cable, Interface, Motorola XTL5000 Mobile Cable with ignition sense lead & external speaker leads	2	2	2	2	each
COMMS	ACCESSORIES	Cable, Interface, Aircraft portable (Icom A3/A6)	1	1	1	1	each
COMMS	ACCESSORIES	Cable, Interface, Motorola APX 7500 (Low & Mid power) Mobile Cable with ignition sense lead & external speaker leads	2	2	2	2	each
COMMS	ACCESSORIES	Phone "patch" kit including 1 each RJ22 adapter for BGAN 710 and land-line telephones, 1 each RJ22-to-2.5mm plug for Iridium 9505, 1 each RJ-22-to-3.5mm plug for cell phones,	1	1	1	1	each
COMMS	ACCESSORIES	Antennas, flexible, rubber, all band, with GPS module (spares for APX series All-Band portable radios)	8	8	8	8	each

BATTERIES

COMMS	BATTERIES	Batteries	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
COMMS	BATTERIES	Battery pack, Alkaline, UHF, disposable (clamshell or battery pack)	152	152	76	38	each
COMMS	BATTERIES	Battery, rechargeable, for UHF radios, highest capacity, NiMH, Li-Ion (For XTS Series Radios)	180	180	90	45	each
COMMS	BATTERIES	Battery, 12VDC deep cycle, non-spillable, for repeaters, base station, and mobile radios (With threaded Terminals)	6	6	6	6	each
COMMS	BATTERIES	Deep Cycle Battery Box	6	6	3	2	each
COMMS	BATTERIES	Deep Cycle Battery Series/Parallel Cables (RED)	6	6	3	2	each
COMMS	BATTERIES	Deep Cycle Battery Series/Parallel Cables (BLACK)	6	6	3	2	each
COMMS	BATTERIES	Wing Nut 3/8" -16	12	12	12	12	each
COMMS	BATTERIES	Kit, battery maintenance, conditioner, and adaptors, TO INCLUDE CUPS FOR ALL CURRENT CACHE RECHARGABLE BATTERIES	1	1	1	1	each
COMMS	BATTERIES	Motorola Impres Battery Reader Kit (with cable, software, for XTS, APX)	1	1	1	1	each
COMMS	BATTERIES	Battery, Primary Lithium, Disposable (for XTS series) (For use with CA-0108.00)	270	270	135	68	each

CHARGING UNITS

COMMS	CHARGING UNITS	Charging Units	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
COMMS	CHARGING UNITS	Charger, Impres multi-gang w/displays, 110 volts AC, rapid rate charging, XTS	8	8	4	4	each
COMMS	CHARGING UNITS	Charger, 12VDC, Deep Cycle Battery	6	6	3	3	each
COMMS	CHARGING UNITS	Charger, Impres Single Unit Charger, 110 volts AC, rapid rate charging, XTS	48	48	36	24	each
COMMS	CHARGING UNITS	Adapter, Insert, Single Unit Charger for APX	48	48	36	24	each
COMMS	CHARGING UNITS	Adapter, Insert, Multi Unit Charger for APX 6/pkg	8	8	4	4	each
COMMS	CHARGING UNITS	Charger, Impres multi-gang w/displays, 110 volts AC, rapid rate charging, APX	8	8	4	4	each
COMMS	CHARGING UNITS	Charger, Impres Dual Unit Charger, 110 volts AC, rapid rate charging, APX	48	48	36	24	each

COMPUTER NETWORKING

COMMS	COMPUTER/ NETWORKING	Computer and Networking Equipment	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
COMMS	COMPUTER/ NETWORKING	Computer, Laptop, w/applicable applications to US&R. w/Charger, Case, and associated cables and accessories to interface with applicable peripherals. (Non-IT Department Secured Device)	12	12	6	4	each
COMMS	COMPUTER/ NETWORKING	Microsoft Office (Latest Edition)	14	14	7	4	each
COMMS	COMPUTER/ NETWORKING	Adobe Acrobat Pro (Latest Edition) (Subscription \$180 per year)	14	14	7	4	each
COMMS	COMPUTER/ NETWORKING	Anti-Virus (Latest Edition)	14	14	7	4	each
COMMS	COMPUTER/ NETWORKING	Computer Monitor 19-27", Digital Ready to include all necessary cabling i.e.: HDMI, Video, AV input, SVGA, Storage Bag, mounting hardware and mount.	6	6	3	2	each
COMMS	COMPUTER/ NETWORKING	Wireless Access Point, KIT, w/Case and associated cables, and accessories to interface with applicable peripherals. TO INCLUDE ITEMS CI-0102.01-.13 (PURCHASED SEPARATELY)	2	2	2	1	each
COMMS	COMPUTER/ NETWORKING	Dual-Band Access Point 2.4 GHz & 5.8 GHz, 802.11G/N or Better. Or equivalent	4	4	4	1	each
COMMS	COMPUTER/ NETWORKING	IP Switch 10/100/1000/Gigabyte, with PoE (Capable of 14 ports minimum) or equivalent	2	2	1	1	each
COMMS	COMPUTER/ NETWORKING	Antenna, computer, gain directional, 14 dB (minimum) gain, with low loss coax and mount	2	2	1	1	each
COMMS	COMPUTER/ NETWORKING	Antenna, computer, Omni-directional, 5 to 9 dB gain with low loss coax and mount.	2	2	1	1	each
COMMS	COMPUTER/ NETWORKING	Antenna, Directional Dual Input 5 GHz, Panel	8	8	4	2	each

COMMS	COMPUTER/ NETWORKING	Computer and Networking Equipment	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
COMMS	COMPUTER/ NETWORKING	Tripod, Stand, Air Cushion 2 Pack with bags	4	4	2	1	each
COMMS	COMPUTER/ NETWORKING	Cable, CAT 5E with RJ45 Connectors 25 Feet, Stranded	4	4	2	1	each
COMMS	COMPUTER/ NETWORKING	Portable Rechargeable Battery Pack (LifePO4 Lithium Iron Phosphate), Built-in solar charge controller, DC to AC Inverter, and AC to DC Charger 120Whr	8	8	4	2	each
COMMS	COMPUTER/ NETWORKING	Foldable Solar Charger, USB and 15VDC output, 28 Watt	4	4	2	1	each
COMMS	COMPUTER/ NETWORKING	Case, Waterproof	4	4	2	1	each
COMMS	COMPUTER/ NETWORKING	Coax, Cable, LMR240 Ultra Flex 2' with "N" male connectors	16	16	8	4	each
COMMS	COMPUTER/ NETWORKING	Misc. assembly Equipment for FIT	1	1	1	1	each
COMMS	COMPUTER/ NETWORKING	IP Switch 10/100/1000/Gigabyte, with PoE (Capable of 8 ports minimum) or equivalent	2	2	1	1	each
COMMS	COMPUTER/ NETWORKING	Printer, portable, computer, with toner or ink cartridge w/ Battery option if available	4	4	2	1	each
COMMS	COMPUTER/ NETWORKING	Computer, Laptop, Durable and Water Resistant, w/applicable applications to US&R. w/Charger, Case, and associated cables and accessories to interface with applicable peripherals.	2	2	1	1	each
COMMS	COMPUTER/ NETWORKING	Internet KIT, Tactical, w/ case and associated cables, and accessories to interface with applicable peripherals. TO INCLUDE ITEMS BELOW. (PURCHASED SEPARATELY)	3	3	1	1	each
COMMS	COMPUTER/ NETWORKING	IP Router with Current Wireless/WAN Technology., Multiple Cellular Modem Capable with fail over capability & load Sharing, (To support CI-0106.00)	3	3	1	1	each
COMMS	COMPUTER/ NETWORKING	Battery, Lithium Ion to support CI-0106.00 (Minimum 20,000 mAh battery, 2 USB 3.0 connection)	6	6	3	2	each
COMMS	COMPUTER/ NETWORKING	Battery Extended 24Hour	3	3	1	1	each
COMMS	COMPUTER/ NETWORKING	Cellular Data, USB 4G/LTE modem with renewable yearly service (To be used with Fail Over Router)	3	3	1	1	each
COMMS	COMPUTER/ NETWORKING	Antenna, Magnetic Cellular, with necessary unit adapters	3	3	1	1	each
COMMS	COMPUTER/ NETWORKING	Cable Coax Jumper /Adapter Reverse Polarity SMA Male to Female "N" RG174 18 inches	3	3	1	1	each
COMMS	COMPUTER/ NETWORKING	Antenna, Outdoor, Omni Wi-Fi, 9.5" FRQ Range 698-960/1700-2700 MHz Gain 2-3db, 3-4 db. w/ N-Female	3	3	1	1	each
COMMS	COMPUTER/ NETWORKING	Antenna Mounting solution	3	3	1	1	each
COMMS	COMPUTER/ NETWORKING	Solar Panel, 30 Watt	3	3	1	1	each

COMMS	COMPUTER/ NETWORKING	Computer and Networking Equipment	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
COMMS	COMPUTER/ NETWORKING	Smart Device Kit (SDK) The Smart Device Kit is a standalone system that will support data gathering from teams in the field. Teams purchase according to standardized operating systems current with US&R applications.	12	12	6	3	each
COMMS	COMPUTER/ NETWORKING	Water Proof Case	12	12	6	3	each
COMMS	COMPUTER/ NETWORKING	Backup Battery, 4.8 amp 20,100AMH	12	12	6	3	each
COMMS	COMPUTER/ NETWORKING	Docking Station, Sync, Charging, Support 6 or more devices	2	2	2	1	each
COMMS	COMPUTER/ NETWORKING	Charging Cable, Spare	12	12	6	3	each
COMMS	COMPUTER/ NETWORKING	Stylus	12	12	6	3	each
COMMS	COMPUTER/ NETWORKING	Bag, Storage, individual carry case	12	12	6	3	each
COMMS	COMPUTER/ NETWORKING	Applications to Support Units	12	12	6	3	each
COMMS	COMPUTER/ NETWORKING	Network Accessible Storage Kit (NAS), Items listed below are combined to create a kit. All items are required to have a complete kit. CI-0107.00 - CI-0107.13	1	1	1	1	Kit
COMMS	COMPUTER/ NETWORKING	Netgear ready Network Attached Storage (NAS) 2120 4-Bay Discless	1	1	1	1	each
COMMS	COMPUTER/ NETWORKING	1TB NAS Hard Disc Drive, 5400 RPM Class SATA 6Gb/s 64mb cache 3.5 inch	4	4	2	1	each
COMMS	COMPUTER/ NETWORKING	8U Space Rack with inline wheel (shall match up with current Ground Control electronics rack)	1	1	1	1	each
COMMS	COMPUTER/ NETWORKING	3U Rack Drawer, Latching	1	1	1	1	each
COMMS	COMPUTER/ NETWORKING	2U Rack Drawer, Latching	1	1	1	1	each
COMMS	COMPUTER/ NETWORKING	24 Port Gigabit Switch 10/100/1000 Mbps Rack Mounted	1	1	1	1	each
COMMS	COMPUTER/ NETWORKING	Uninterrupted Power Supply (UPS) rack mounted 280W/450VA 120V 1U Rack Mount System	1	1	1	1	each
COMMS	COMPUTER/ NETWORKING	Cat 5E Cable with RJ45 Connectors 10 Feet	4	4	4	4	each
COMMS	COMPUTER/ NETWORKING	Cat 5E Cable with RJ45 Connectors 25 Feet	4	4	4	4	each
COMMS	COMPUTER/ NETWORKING	Cat 5E Cable with RJ45 Connectors 50 Feet	2	2	2	2	each
COMMS	COMPUTER/ NETWORKING	Cat 5E Cable with RJ45 Connectors 100 Feet	2	2	2	2	each
COMMS	COMPUTER/ NETWORKING	5 Port Gigabit Switch 10/100/1000 Mbps	4	4	4	4	each
COMMS	COMPUTER/ NETWORKING	Rack Screws 12/24 (25 per bag)	4	4	4	4	each

POWER SOURCES

COMMS	POWER SOURCES	Power Sources	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
COMMS	POWER SOURCES	Uninterrupted Power Source (UPS) / Conditioner, Electric Power	4	4	3	2	each
COMMS	POWER SOURCES	Generator, Portable, Lightweight, 2000 Watts (NOTE: Higher powered repeaters may require the service of a small generator to provide sufficient replenishment power.)	3	3	2	1	each
COMMS	POWER SOURCES	Tank, Fuel, Extended Run	3	3	2	1	each
COMMS	POWER SOURCES	Theft Resistant Handle	3	3	2	1	each
COMMS	POWER SOURCES	Parallel Cable Kit	3	3	2	1	each
COMMS	POWER SOURCES	Charging Cord, DC	3	3	2	1	each
COMMS	POWER SOURCES	Inverter, power, DC/AC (800 watt)	15	15	10	8	each
COMMS	POWER SOURCES	Power strip, surge protector, 6 outlet with surge protection	18	18	10	8	each
COMMS	POWER SOURCES	Cord, extension, 50 foot, 12 AWG (3 prong, Household type)	6	6	4	3	each

RADIOS

COMMS	RADIOS	Portable Radios	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
COMMS	RADIOS (Air Portable/Handheld)	Radio, Hand-held, Air Operations VHF-AM 108-136 MHz, field programmable, with flexible antenna, rechargeable battery	8	8	4	4	each
COMMS	RADIOS (Air Portable/Handheld)	Battery Case, Clamshell (Uses 6 "AA" Batteries)	8	8	4	4	each
COMMS	RADIOS (Air Portable/Handheld)	Speaker Microphone	8	8	4	4	each
COMMS	RADIOS (Air Portable/Handheld)	Nylon Case	8	8	4	4	each
COMMS	RADIOS (Air Portable/Handheld)	Belt Clip for Clamshell or Radio	16	16	8	8	each

COMMS	RADIOS	Portable Radios	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
COMMS	RADIOS (Base Radio)	Radio, base station , 40 watt, Meets APCO Project 25 standard, Digital, Narrow Band, UHF, 380-470 MHz, Project 25 DES analog encryption capable, Project 25 OFB digital encryption capable, field programmable with 3dB gain antenna (min.), coaxial cable, AC/DC power supply and external speaker	1	1	1	1	each
COMMS	RADIOS (Mobile)	Radio mobile (40 watt) UHF/FM, Meets APCO Project 25 standard, Digital, backwards compatible, UHF, 380-470 MHz, Project 25 DES analog encryption capable, Project 25 OFB digital encryption, field programmable, with NMO antenna mount, cigar lighter adapter, AC/DC power supply and external speaker	12	12	3	3	each
COMMS	RADIOS (Base Air)	Radio, Aircraft, Mobile, Icom A120 Radio w/ 1 Ground Plane Antenna, Cost would include IC-A120-5 mobile radio, Base Station Antenna with mount capable of 118-136 MHz with 50ft. of LMR-400 Ultra Flex coax cable, K220-A magnetic mount antenna.	2	2	2	2	each
COMMS	RADIOS (Base Air)	Ground Plane Base Antenna 108-126.8Mhz	2	2	2	2	each
COMMS	RADIOS (Base Air)	Magnet Mount, NMO, W/Whip Antenna 108-136MHz	2	2	2	2	each
COMMS	RADIOS (Base Air)	Coax Cable 50' with PL-259's	2	2	2	2	each
COMMS	RADIOS (Base Air)	Programming Software A120	1	1	1	1	each
COMMS	RADIOS (Base Air)	Programming Cable A120	1	1	1	1	each
COMMS	RADIOS (Base Air)	Programming Cable Adapter A120	1	1	1	1	each
COMMS	RADIOS (Base Air)	Speaker, External	2	2	2	2	each
COMMS	RADIOS (Remote DC)	Radio, Remote (tone), weatherproof case, coax, antenna, connectors, radio included in kit 380-470 MHz, APCO Project 25 standard, Digital, Project 25 analog encryption capable, Project 25 OFB digital encryption capable.	2	2	2	2	each
COMMS	RADIOS (Portable/Hand held)	Radio, Handheld, UHF 380-470 MHz, Model III, APCO P25 standard Compliant (76 Minimum, Optional Purchase up to 86 radios)	86	86	50	32	each
COMMS	RADIOS (Portable/Hand held)	Radio, Handheld, VHF 136-174 MHz, Model III, APCO P25 standard Compliant	6	6	3	1	each

COMMS	RADIOS	Portable Radios	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
COMMS	RADIOS (Portable/Hand held)	Radio, Handheld, 800 MHz, Type III, APCO P25 standard Compliant, AES, DES-XL, DES-OFB encryption, Astro Digital CAI, Astro P25 OTAR, MDC OTAR, Cloning Capable, Enhanced Digital ID, Conventional System Software, Ruggedized Housing, Yellow Housing, Engrave side of Housing in plain view "DHS-FEMA-US&R", flexible antenna	4	4	2	1	each
COMMS	RADIOS (Remote IP)	Radio, Mobile, XTL5000, Remote (Tone) Dash Mount, W7 Control Head, UHF FM 380-470 MHz, 40 Watt, APCO P25 standard Compliant, Narrow Band, AES 256, DES-XL, DES-OFB encryption, Astro Digital CAI, Astro P25 OTAR, MDC OTAR, Enhanced Digital ID, Enhanced SMARTNET. Includes Part #'s, G95, G851, G806, G114, G298, G51, G159, G80	1	1	1	1	each
COMMS	RADIOS (Portable/Hand held)	Dash Mount for Radio, Mobile, XTL5000	1	1	1	1	each
COMMS	RADIOS (Portable/Hand held)	Power Supply for Radio, Mobile, XTL5000	1	1	1	1	each
COMMS	RADIOS (Portable/Hand held)	Speaker Tray for Radio, Mobile, XTL5000	1	1	1	1	each
COMMS	RADIOS (Portable/Hand held)	Cable, Power, Radio, Mobile, XTL5000	1	1	1	1	each
COMMS	RADIOS (Portable/Hand held)	Antenna, 406-420 MHz, magnetic mount, 3DB gain, Radio, Mobile, XTL5000	1	1	1	1	each
COMMS	RADIOS (Portable/Hand held)	Antenna, magnetic mount, mini-UHF, Radio, Mobile, XTL5000	1	1	1	1	each
COMMS	RADIOS (Portable/Hand held)	Microphone, Palm, Radio, Mobile, XTL5000	1	1	1	1	each
COMMS	RADIOS (Portable/Hand held)	Speaker, 7.5-Watt, Radio, Mobile, XTL5000	1	1	1	1	each
COMMS	RADIOS (Portable/Hand held)	Fuse Holder Assembly, Radio, Mobile, XTL5000	1	1	1	1	each
COMMS	RADIOS (Portable/Hand held)	Cable, power, Radio, Mobile, XTL5000	1	1	1	1	each
COMMS	RADIOS (Portable/Hand held)	Cable, Power, Alligator, Radio, Mobile, XTL5000	1	1	1	1	each

COMMS	RADIOS	Portable Radios	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
COMMS	RADIOS (Portable/Hand held)	Cable, Power, Control Station, Radio, Mobile, XTL5000	1	1	1	1	each
COMMS	RADIOS (Portable/Hand held)	Cable, Power, Control Station, Radio, Mobile, XTL5000	1	1	1	1	each
COMMS	RADIOS (Portable/Hand held)	Cable, Power, Cigarette, Radio, Mobile, XTL5000	1	1	1	1	each
COMMS	RADIOS (XTVA)	Transportable Astro XTVA containing the following: XTS/APX6000 Vehicular Adapter(XTVA), Speaker, Handheld Control Head (HHCH), Auto-Switching 120/240 VAC Power Supply, XTS/APX RF Adapter, RF Adapter Installation Wrench, RF Power Amplifier, Audio Ports for Headsets and Tape Recorders. To include magnetic mount antenna base & 1 each, VHF, UHF, and 800 MHz antennas)	1	1	1	1	each
COMMS	RADIOS (Portable/Hand held)	Radio, VHF, Mobile, For Coast Guard interface 136-174 MHZ 64 CH 25-45W 12.5/25 KHZ	1	1	1	1	each
COMMS	RADIOS (Portable/Hand held)	Cable, Programming	1	1	1	1	each
COMMS	RADIOS (Portable/Hand held)	Software, Software	1	1	1	1	each
COMMS	RADIOS (Marine)	Radio, Handheld, Portable, Marine Band w/Antenna & Belt Clip	6	6	3	2	each
COMMS	RADIOS (Marine)	Battery, Marine Radio	4	4	2	2	each
COMMS	RADIOS (Marine)	Charger, Desktop, Marine Radio includes all 3 items: Charger Base #BC-119N-01, (\$75.00) A/C Adapter #BC145SA-31 (\$25.00) for Charger Base, and Adapter Cup #AD123 (\$23.00)	6	6	3	2	each
COMMS	RADIOS (Marine)	Adapter, 12V Power Adapter, Cigarette Lighter Type	4	4	2	2	each
COMMS	RADIOS (Marine)	Antenna, Marine Radio, Spare	2	2	1	1	each
COMMS	RADIOS (Marine)	Belt Clip, Marine Radio, Spare	2	2	1	1	each
COMMS	RADIOS (Marine)	Tether, Marine Radio, lanyard	6	6	3	2	each
COMMS	RADIOS (Portable)	Transportable Astro Lunch Box Mobile, w/ accessories	2	2	1	1	each
COMMS	RADIOS (Crypto)	Keyloader, Radio, Encryption - KVL4000, KIT (TO INCLUDE FOLLOWING ITEMS)	1	1	1	1	each
COMMS	RADIOS (Crypto)	Case, Storage	1	1	1	1	each

COMMS	RADIOS	Portable Radios	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
COMMS	RADIOS (Crypto)	Software, AES Encryption	1	1	1	1	each
COMMS	RADIOS (Crypto)	Firmware, ASTRO 25 Mode	1	1	1	1	each
COMMS	RADIOS (Crypto)	Firmware, DES/DES-XL/DES-OFB Encryption	1	1	1	1	each
COMMS	RADIOS (Crypto)	Firmware, ADP Privacy	1	1	1	1	each
COMMS	RADIOS (Crypto)	Fax Modem 56K USB Plug and Play	1	1	1	1	each
COMMS	RADIOS (Crypto)	Cable, USB Comm/Charge w/ Cup	1	1	1	1	each
COMMS	RADIOS (Crypto)	Sleeve Cover	1	1	1	1	each
COMMS	RADIOS (Crypto)	AC Line Cord, US	1	1	1	1	each
COMMS	RADIOS (Crypto)	Case, Weather, for KVL	1	1	1	1	each
COMMS	RADIOS (Crypto)	Adapter, Cable, For XTL5000 (W7 Control Head)	1	1	1	1	each
COMMS	RADIOS (Crypto)	Adapter, Cable, Keyloading, (GCAI 05/07 Control Head)	1	1	1	1	each
COMMS	RADIOS (Crypto)	Cable, Keyloader, Portable Radio, XTS-5000	1	1	1	1	each
COMMS	RADIOS (Crypto)	Cable, Keyloader w/ HiRose Connector	1	1	1	1	each
COMMS	RADIOS (Crypto)	Adapter, Keyload, Surveillance, APX7000	1	1	1	1	each
COMMS	RADIOS (Crypto)	Cable, Keyload, MX	1	1	1	1	each
COMMS	RADIOS (Crypto)	Battery, Keyloader,	2	2	1	1	each
COMMS	RADIOS (Crypto)	Lock, Padlock or Combo	2	2	1	1	each
COMMS	RADIOS (Crypto)	Battery, Keyloader, for KVL 3000 +	1	1	1	1	each
COMMS	RADIOS (Crypto)	Battery Adapter, for XTS Series battery for KVL 3000 +	1	1	1	1	each
COMMS	RADIOS (Crypto)	Charger, for Keyloader Battery, for KVL 3000 +	1	1	1	1	each
COMMS	RADIOS (Crypto)	Modem, PCMCIA for KVL 3000 + (56K V.92 Modem)	1	1	1	1	each
COMMS	RADIOS (Base Radio)	EACH BASE STATION ABOVE REQUIRES THE FOLLOWING ITEMS TO MAKE IT OPERATIONAL CA-0119.01-.04					

COMMS	RADIOS	Portable Radios	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
COMMS	RADIOS (Base Radio)	Radio, Base Station, Integrated Base Rapid Deployment Kit for Below to include 6U Rack mount case, 19inch rack mount shelves, (2) Marine grade 10 Amp ATM Fused cigarette lighter plugs, Front and rear mounted LED lighting, mic clips, rear mounted 1 U plate with (4) bulkhead "N" Connectors, (4) RG-214 Low loss jumper/Patch coax cables with male mini-UHF RF connector on one 1 side and Male N on the other. Jumpers are to have heat-shrunk connector barrels. AC/DC Transfer switch, DC ICT 30 Amp power supply, Blue Sea Fuse block, All Motorola accs., speaker accs., B+ Voltage, primary DC Power cable and mounting bracket, Low Voltage disconnect, Power poles with front-mounted chassis-mount 30AMP rated connector, (4) Mag mounts antennas with 25ft of low loss coax terminated with Male "N" connectors.	2	2	1	1	each
COMMS	RADIOS (Base Radio)	Radio, Mobile R1 UHF 380-470 MHz & VHF 136-174 MHz (Flash code to meet MERS requirements)	2	2	1	1	each
COMMS	RADIOS (Base Radio)	Radio, R1 UHF 380-470 MHz & 700/800 MHz (Flash code to meet MERS requirements)	2	2	1	1	each
COMMS	RADIOS (Base Radio)	Antenna Base, Omnidirectional 3db gain female N connector 746-869MHz	4	4	2	2	each
COMMS	RADIOS (Base Radio)	Antenna, Mobile 762-870 3db co-linear	4	4	2	2	each
COMMS	RADIOS (Mobile)	Radio, Mobile R1 UHF 380-470 MHz & VHF 136-174 MHz (Flash code to meet MERS requirements) (10 for Vehicles)	10	10	5	5	each
COMMS	RADIOS (Remote DC)	Radio, DC Remote for US&R Cache handheld radios. Pelican case remote, XTS & APX Battery Eliminator(s), external antenna connection. Like a NIFC 4330.	2	2	2	2	each
COMMS	RADIOS (Portable/ Handheld)	Radio, Handheld R1 UHF 380-470 MHz & VHF 136-174 MHz (Flash code to meet MERS requirements)	86	86	50	32	each
COMMS	RADIOS (Portable/ Handheld)	Battery, Rechargeable, for Portable APX Handheld Radio, IMPRESS FM R LI ION	180	180	90	45	each
COMMS	RADIOS (Portable/ Handheld)	Battery, Primary Lithium, Disposable (For APX series)	270	270	135	68	each
COMMS	RADIOS (Portable/ Handheld)	Battery, Clamshell, for Portable APX Handheld radio (Uses 12 AA Batts)	90	90	50	32	each
COMMS	RADIOS (Portable/ Handheld)	Microphone, Speaker Mic, APX, XE	96	96	50	32	each

COMMS	RADIOS	Portable Radios	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
COMMS	RADIOS (Portable/Handheld)	Clip, Carry, Universal, APX7000 XE	90	90	50	32	each
COMMS	RADIOS (Portable/Handheld)	Holster, Carry Case, APX	90	90	50	32	each
COMMS	RADIOS (Portable/Handheld)	Adaptor, for Motorola APX Series 6 Pin High-Rose	20	20	10	8	each
COMMS	RADIOS (Portable/Handheld)	Earpiece, 2-Wire Palm Kit	20	20	10	8	each
COMMS	RADIOS (Portable/Handheld)	Radio, Handheld R1 UHF 380-470 MHz & 700/800MHz (Flash code to meet MERS requirements) The above associated items CA-0108.01-.07 are allotted for and compatible with this item.	4	4	2	2	each
COMMS	RADIOS (XTVA)	Transportable Astro XTVA containing the following: APX Vehicular Adapter (XTVA), Speaker, Handheld Control Head (HHCH), Auto-Switching 120/240 VAC Power Supply, APX RF Adapter, RF Adapter Installation Wrench, RF Power Amplifier, Audio Ports for Headsets and Tape Recorders. To include magnetic mount antenna base & 1 each, VHF, UHF, and 800 MHz antennas)	1	1	1	1	each

REPEATERS

COMMS	REPEATERS	Repeaters	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
COMMS	REPEATERS	Repeater, UHF/FM Programmable, Meets APCO P25 standard, Digital, Narrow Band, UHF, 402-420 MHz, Project 25 DES analog encryption capable, Project 25 OFB digital capable, With antenna feed line, portable (50 lbs. maximum weight)	2	2	2	1	each
COMMS	REPEATERS	V.34 Modem	2	2	2	1	each
COMMS	REPEATERS	V.34 Modem Breakout (CONN,ADPTR,DB25,RJ45,M,M,DB25M TO D)	2	2	2	1	each
COMMS	REPEATERS	V.24 interface card	2	2	2	1	each
COMMS	REPEATERS	Module, FRU 4 Wireline card	2	2	2	1	each
COMMS	REPEATERS	Plastic card guide (2 each per wireline card)	2	2	2	1	each

COMMS	REPEATERS	Repeaters	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
COMMS	REPEATERS	Metal Bracket (Dog House)	2	2	2	1	each
COMMS	REPEATERS	RJ45 Connector	2	2	2	1	each
COMMS	REPEATERS	Machine Screws 6-32 thread / 3/8" length PHILLIPS PAN HEAD Black Oxide (Secures Dog House to Repeater chassis)	4	4	4	2	each
COMMS	REPEATERS	Cable, Wireline	4	4	4	2	each
COMMS	REPEATERS	Antenna, directional, (Yagi) , 406-440 MHz 3 element 6.5dB gain	6	6	6	3	each
COMMS	REPEATERS	Antenna, 3-9dB gain, Omni-directional, 406-420 MHz Note: MUST Specify Appropriate Hardware Mounting kit when ordering	6	6	6	3	each
COMMS	REPEATERS	Mast, 11 Meter/35ft AL2 Standard System with antenna guy kits (nonmetallic guys) Pipe Mount Adapter, 4 Universal Pole Mounts, 2 - 36 Inch Arms, 2 - 24 Inch Arms, 3 - 12 Inch Arms, 2 - Omni Bracket, 6 - Mag Mounts, Thrane Explorer 325/G2 Mount, HF Pulley Kit, Lift Handles and Telescoping Tripod Struts. (For BoO Operations) (NOTE: 4 Masts will be supported, if you do not have 4 Bluesky Masts you are NOT authorized to purchase 4. Purchase up to 2 of item CD-0114.00)	2	2	2	1	each
COMMS	REPEATERS	Antenna, directional (Yagi), 406-440 MHz 5 Element 9dB gain	4	4	2	1	each
COMMS	REPEATERS	Duplexers, tuned to current FEMA US&R channel plan B2, B5, B8, B11, B14, XX (DO NOT BUY SINCLAIRE as a replacement)	6	6	3	2	each
COMMS	REPEATERS	Monitor, Service, Radio, with Spectrum analyzer and tracking generator, APCO 25 project compatible	1	1	1	1	each
COMMS	REPEATERS	Antenna, Unity Omni-directional, 406-470	4	4	2	1	each
COMMS	REPEATERS	MAST, 7 Meter, 3" Tac, UHF 225-512 MHz RAMM Black (For Portable Repeaters)	2	2	2	1	each

SATELLITE AND TELEPHONE COMMUNICATIONS

COMMS	SAT/TEL COMM	Satellite and Telephone Communications	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
COMMS	SAT/TEL COMM	Telephone, transportable satellite system (MSAT/SMART talk group compatible) with data, dispatch capability, PTT microphone, with extension and Amplified Speaker. AC/DC power supply, battery, antenna extension coax cable(s) and magnetic mounts for dome antenna.	6	6	6	2	each
COMMS	SAT/TEL COMM	LMR to LightSquared™ MSAT-G2 Mobile Satellite Radio Interface Assembly, Environmental Connectors, (RJ45 interface cable P/N 179.0045 included) Eliminates double PTT w/ case TO INCLUDE Cables for XTS, XTL, APX, Portable and Mobile	6	6	6	2	each
COMMS	SAT/TEL COMM	Telephone, vehicle mounted system (MSAT/SMART talk group compatible) with data, dispatch capability, PTT microphone, with extension and Amplified Speaker. antenna extension coax cable(s) and magnetic mounts for dome antenna.	2	2	2	2	each
COMMS	SAT/TEL COMM	B-GAN US&R Complete KIT-See individual contents below.	2	2	2	2	each
COMMS	SAT/TEL COMM	Portable Broadband Global Area Network (BGAN) global Satellite Internet Network with telephony terminal. To include, AC/DC power supply, battery, Remote antenna, antenna extension cable	2	2	2	2	each
COMMS	SAT/TEL COMM	SIM CARD, PRE-PAID Explorer 710 (500) Units pre-paid to expire in 2 years from date of activation. Post Paid option available per your agency/contract requirements	2	2	2	2	each
COMMS	SAT/TEL COMM	Battery, Lithium Ion, for EXPLORER 710 (Spare)	2	2	2	2	each
COMMS	SAT/TEL COMM	Charger, Car, Cable for EXPLORER 300/500/700/710	2	2	2	2	each
COMMS	SAT/TEL COMM	DC Power battery Alligator Clips	2	2	2	2	each
COMMS	SAT/TEL COMM	Antenna cable - 8-meter RG223/U TNC MALE/TNC MALE	2	2	2	2	each
COMMS	SAT/TEL COMM	Antenna cable - 14-meter RG223/U TNC MALE/TNC MALE	2	2	2	2	each
COMMS	SAT/TEL COMM	SOLAR PANEL Folding (40 Watt Min)	2	2	2	2	each
COMMS	SAT/TEL COMM	Antenna Pole Mount Kit	2	2	2	2	each
COMMS	SAT/TEL COMM	Phone, POTS	2	2	2	2	each
COMMS	SAT/TEL COMM	Cable, Phone, 100 ft RJ-11	2	2	2	2	each

COMMS	SAT/TEL COMM	Satellite and Telephone Communications	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
COMMS	SAT/TEL COMM	Phone, 25ft Coiled extension cord	2	2	2	2	each
COMMS	SAT/TEL COMM	RF Connector, Double Female TNC Barrel,	4	4	4	4	each
COMMS	SAT/TEL COMM	RF Connector, Reverse Polarity SMA Male to SMA Female Adapter	2	2	2	2	each
COMMS	SAT/TEL COMM	RF Connector, Reverse Polarity SMA Male to TNC Female Adapter	2	2	2	2	each
COMMS	SAT/TEL COMM	RF Connector, Right Angle TNC Male to Type N Female Adapter	4	4	4	4	each
COMMS	SAT/TEL COMM	RF Connector, TNC Female to N Female Adapter	4	4	4	4	each
COMMS	SAT/TEL COMM	RF Connector, N Female to TNC Male Adapter,	4	4	4	4	each
COMMS	SAT/TEL COMM	RF Jumper, 2ft 400 Series Antenna Cable N to Reverse Polarity SMA Male	4	4	4	4	each
COMMS	SAT/TEL COMM	Cable, USB 3.0 "A" Male to "A" Female Extension 10ft	2	2	2	2	each
COMMS	SAT/TEL COMM	Antenna, Wi-Fi 2.4GHz 10dBi RP-SMA Wi-Fi Booster	2	2	2	2	each
COMMS	SAT/TEL COMM	Cable, 20ft Reverse Polarity SMA Extension Coaxial Cable (RG174/U)	2	2	2	2	each
COMMS	SAT/TEL COMM	Zipper Pouches, 3 pack	2	2	2	2	each
COMMS	SAT/TEL COMM	Soft Bag/Protector for 710	2	2	2	2	each
COMMS	SAT/TEL COMM	Storage Case	2	2	2	2	each
COMMS	SAT/TEL COMM	Cable, Charging for EXPLORE 710 spare battery	2	2	2	2	each
COMMS	SAT/TEL COMM	Cellular, Telephone. SMART phone Windows, Android, or IOS w Ruggedized Carrying case, spare battery (where applicable), battery charger, cigar lighter adapter with renewable yearly service (Provider and model determined by task force purchasing guidelines)	6	6	6	6	each
COMMS	SAT/TEL COMM	Telephone instruments, POTS, pulse/DTMF capable with modular phone cords and connectors, 2 line if available. Speaker phone capable (FOR ON SITE COMMUNICATIONS WHEN DIAL TONE IS AVAILABLE)	6	6	6	6	each
COMMS	SAT/TEL COMM	Cellular Data, MiFi with renewable yearly service (Hot Spot)	4	4	4	4	each
COMMS	SAT/TEL COMM	Satellite Television Dish (HDTV) w/ service contract	1	1	1	1	each

COMMS	SAT/TEL COMM	Satellite and Telephone Communications	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
COMMS	SAT/TEL COMM	TR-6018 dish and tripod kit includes everything you need to get set up. DS-4248 18" satellite antenna is capable of receiving DISH Network standard definition programming on satellites 110° and 119°, as well as DIRECTV standard definition programming on satellite 101°.	1	1	1	1	each
COMMS	SAT/TEL COMM	Satellite Internet System, 1.2m TOUGHSAT XP iDirect Mobile Satellite System with Controller and listed accessories Minimum performance requirements of 20MBPS DOWNLOAD/5MBPS UPLOAD, Maximum of 10-1 contention ratio. System shall have (2) dedicated VOIP phone lines with CIR. (INCLUDES ALL ITEMS CC-0111.01-.13)	1	1	1	1	each
COMMS	SAT/TEL COMM	Toughsat Flyaway Case Custom Two-Wheel Dolly	1	1	1	1	each
COMMS	SAT/TEL COMM	NJRC NJT5118F Standard 8W Ku-Band Block Upconverter (Required for 20Mbps down/5Mbps Up)	1	1	1	1	each
COMMS	SAT/TEL COMM	Norsat 4506A Ku-Band DRO LNB	1	1	1	1	each
COMMS	SAT/TEL COMM	iDirect Evolution X7 Remote Satellite Router (Required for 20Mbps down/5Mbps Up)	1	1	1	1	each
COMMS	SAT/TEL COMM	Toughsat Flyaway 3 Piece System. Includes Customized Case for MSS, Soft Case Reflector Bag and 8U Ruggedized Controller/Modem Rack	1	1	1	1	each
COMMS	SAT/TEL COMM	Toolless/Quick Release Mounting for Reflector	1	1	1	1	each
COMMS	SAT/TEL COMM	Toughsat Fly and Drive System: Includes Fly and Drive Brackets, Leveling Feet and Storage Bag	1	1	1	1	each
COMMS	SAT/TEL COMM	VoIP Adapter - 2 port analog (ATA) w/2 activated lines	1	1	1	1	each
COMMS	SAT/TEL COMM	Toughsat Flyaway Case Side Junction Cable Bracket	1	1	1	1	each
COMMS	SAT/TEL COMM	Power Conditioner	1	1	1	1	each
COMMS	SAT/TEL COMM	Uninterrupted Power Supply (UPS) Rack Mounted 280W/450VA 120V 1U Rack Mount UPS System	1	1	1	1	each
COMMS	SAT/TEL COMM	Satellite Angle Finder w/Magnet Base	1	1	1	1	each
COMMS	SAT/TEL COMM	Dish, 1.2 Meter, 3 Piece Flyaway Dish with Bag	1	1	1	1	each
COMMS	SAT/TEL COMM	Dish Box, for 1,2 Meter 3-piece dish	1	1	1	1	each
COMMS	SAT/TEL COMM	Red Phone	1	1	1	1	each
COMMS	SAT/TEL COMM	24 Port Gigabit Switch 10/100/1000 Mbps Rack Mounted	1	1	1	1	each

COMMS	SAT/TEL COMM	Satellite and Telephone Communications	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
COMMS	SAT/TEL COMM	Telephone instruments, POTS, pulse/DTMF capable with modular phone cords and connectors, 2 line if available. Speaker phone capable with 75' cable	1	1	1	1	each
COMMS	SAT/TEL COMM	12 Port 19" Cat 5E Patch Panel	1	1	1	1	each
COMMS	SAT/TEL COMM	100' Sat Power and Data Cable	1	1	1	1	each
COMMS	SAT/TEL COMM	3U Rack Drawer, Latching	1	1	1	1	each
COMMS	SAT/TEL COMM	Case, Rack, SKB U-Series 10U Roto Shockmount	1	1	1	1	each
COMMS	SAT/TEL COMM	Cat 5E Cable with RJ45 Connectors 10 Feet	4	4	4	4	each
COMMS	SAT/TEL COMM	Cat 5E Cable with RJ45 Connectors 25 Feet	4	4	4	4	each
COMMS	SAT/TEL COMM	Cat 5E Cable with RJ45 Connectors 50 Feet	2	2	2	2	each
COMMS	SAT/TEL COMM	Router, Fail Over with dual LTE modem	1	1	1	1	each
COMMS	SAT/TEL COMM	Fail over router rack mount kit	1	1	1	1	each
COMMS	SAT/TEL COMM	Modem LTE for Second Fail Over	1	1	1	1	each
COMMS	SAT/TEL COMM	5 Port Gigabit Switch 10/100/1000 Mbps	4	4	4	4	each
COMMS	SAT/TEL COMM	Rack Screws 12/24 (25 per bag)	4	4	4	4	each
COMMS	SAT/TEL COMM	Misc. Installations/Rack Parts	1	1	1	1	each
COMMS	SAT/TEL COMM	Satellite, Phone, Iridium Extreme 9575 Satellite Phone. To include, Extreme 9575 Satellite Phone, Li-Ion Battery, Magnetic Vehicle Mount w/ 1.5M Cable, AC & DC Charger, data cable/power adapter, Power/Antenna Adapter, Hands-free headset, Leather Case, User's Manual, Data CD	4	4	4	4	each
COMMS	SAT/TEL COMM	SIM CARD, Iridium - Prepaid 12-month (Includes 500 Minutes) Post Paid option available per your agency/contract requirements	4	4	4	4	each
COMMS	SAT/TEL COMM	Battery, Lithium Ion for Iridium 9575 (Spare)	4	4	4	4	each
COMMS	SAT/TEL COMM	Antenna, Iridium Fixed Mast w/50ft Low loss coax with Male "TNC" connector both ends	4	4	4	4	each
COMMS	SAT/TEL COMM	Storage Case	4	4	4	4	each
COMMS	SAT/TEL COMM	Docking Station, Iridium, for vehicle or base operations w accs. & Carry Case	4	4	4	4	each

COMMS	SAT/TEL COMM	Satellite and Telephone Communications	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
COMMS	SAT/TEL COMM	Solar Panel folding (7 Watt Min)	4	4	4	4	each
COMMS	SAT/TEL COMM	Charger, Battery, Iridium 9575 4-Bay w/DC Cigarette charger	1	1	1	1	each

SMALL TOOLS

COMMS	SMALL TOOLS	Small Tools	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
COMMS	SMALL TOOLS	Clip, alligator, assorted kit	2	2	2	2	each
COMMS	SMALL TOOLS	Leads, Test, Universal, Kit	1	1	1	1	each
COMMS	SMALL TOOLS	Connector Kit, assortment of solderless connectors with crimping pliers	1	1	1	1	each
COMMS	SMALL TOOLS	Cutter, diagonal	1	1	1	1	each
COMMS	SMALL TOOLS	Glue Gun, Hot,	1	1	1	1	each
COMMS	SMALL TOOLS	Sticks, Glue Gun, Hot	1	1	1	1	each
COMMS	SMALL TOOLS	Knife, Lineman's	2	2	2	2	each
COMMS	SMALL TOOLS	Tool, Electronic, Repair kit, with case or equivalent	1	1	1	1	each
COMMS	SMALL TOOLS	Pliers, Groove Joint, 12"	2	2	2	2	each
COMMS	SMALL TOOLS	Pliers, Lineman's, insulated	2	2	2	2	each
COMMS	SMALL TOOLS	Screw drivers, assorted	1	1	1	1	each
COMMS	SMALL TOOLS	Tape, electricians, roll assorted Colors, (9 assorted colors)	9	9	6	6	each
COMMS	SMALL TOOLS	Tape, electricians, roll assorted Colors, Black	9	9	6	6	each
COMMS	SMALL TOOLS	Tie, Cable, nylon, Assortment	1	1	1	1	each
COMMS	SMALL TOOLS	Tool box	1	1	1	1	each
COMMS	SMALL TOOLS	Wire, Roll, 10 AWG Twin Lead/ Red & Black at 25'	1	1	1	1	roll
COMMS	SMALL TOOLS	Wire, Roll 12 AWG Twin Lead/ Red & Black at 25'	1	1	1	1	roll
COMMS	SMALL TOOLS	Wire, Roll 14 AWG Twin Lead/ Red & Black	1	1	1	1	roll
COMMS	SMALL TOOLS	Wire, Roll 16 AWG Twin Lead/ Red & Black	1	1	1	1	roll

COMMS	SMALL TOOLS	Small Tools	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
COMMS	SMALL TOOLS	Wire, Roll 18 AWG Twin Lead/ Red & Black	1	1	1	1	roll
COMMS	SMALL TOOLS	Wire, Roll 20 AWG (Assorted colors)	1	1	1	1	roll
COMMS	SMALL TOOLS	Wrenches, metric, combination, 6-19mm, set	1	1	1	1	each
COMMS	SMALL TOOLS	Wrenches, standard, combination, 1/4 - 1", set	1	1	1	1	each
COMMS	SMALL TOOLS	Telephone Lineman's set, amplified, data safe	1	1	1	1	each
COMMS	SMALL TOOLS	Punch-down tool, for 66 and 110 blocks	1	1	1	1	each
COMMS	SMALL TOOLS	Telephone Lineman's nut driver tool (can wrench)	1	1	1	1	each
COMMS	SMALL TOOLS	Adapter kit, RF Standard	2	2	2	2	each
COMMS	SMALL TOOLS	Adapter kit, Reverse Polarity Wi-Fi Kit.	1	1	1	1	each
COMMS	SMALL TOOLS	Frequency counter, portable with charger, w/Case	1	1	1	1	each
COMMS	SMALL TOOLS	Antenna, Frequency Counter	1	1	1	1	each
COMMS	SMALL TOOLS	Wattmeter, universal type, 5-100 watts	1	1	1	1	each
COMMS	SMALL TOOLS	Case, Pelican Hard carry case for the Bird 43 series and all Thruline watt meters. Holds 5 elements or 7 elements with insert removed	1	1	1	1	each
COMMS	SMALL TOOLS	BIRD VSWR/POWER CHART	1	1	1	1	each
COMMS	SMALL TOOLS	Element for Bird 43 2-30MHz 100 Watt	1	1	1	1	each
COMMS	SMALL TOOLS	Element for Bird 43 25-60mhz 100 Watt	1	1	1	1	each
COMMS	SMALL TOOLS	Element for Bird 43 100-250MHz 100 Watt	1	1	1	1	each
COMMS	SMALL TOOLS	Element for Bird 43 400-1000MHz, 500 Watt	1	1	1	1	each
COMMS	SMALL TOOLS	Element for Bird 43 100-250MHz, 5 Watt	1	1	1	1	each
COMMS	SMALL TOOLS	Element for Bird 43 400-1000MHz, 5 Watt	1	1	1	1	each
COMMS	SMALL TOOLS	Fuse kit, assortment of fuses (type AGC)	1	1	1	1	each
COMMS	SMALL TOOLS	Fuse kit, assortment of fuses (type ATO)	1	1	1	1	each
COMMS	SMALL TOOLS	Gun, Heat	1	1	1	1	each
COMMS	SMALL TOOLS	Tubing, Heat-shrink, assortment, kit	1	1	1	1	each

COMMS	SMALL TOOLS	Small Tools	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
COMMS	SMALL TOOLS	Tool, Crimping, w/ TO INCLUDE	1	1	1	1	each
COMMS	SMALL TOOLS	Crimp Connector BNC Male	20	20	20	20	each
COMMS	SMALL TOOLS	Crimp Connector TNC Male	20	20	20	20	each
COMMS	SMALL TOOLS	Crimp Connector Mini UHF	20	20	20	20	each
COMMS	SMALL TOOLS	Crimp Connector PL259	20	20	20	20	each
COMMS	SMALL TOOLS	Crimp Connector N Male	20	20	20	20	each
COMMS	SMALL TOOLS	Case, Storage for Connectors	3	3	3	3	each
COMMS	SMALL TOOLS	Telephone crimping tool Kit, assorted dies, and connectors	1	1	1	1	each
COMMS	SMALL TOOLS	Wire, flat modular line cord, 500', roll	1	1	1	1	roll
COMMS	SMALL TOOLS	Line tracing kit, telephone, to include tone generator and inductive amplifier probe	2	2	2	2	each
COMMS	SMALL TOOLS	Soldering iron, AC, DC, or Butane	1	1	1	1	each
COMMS	SMALL TOOLS	Wire, telephone station, CAT 5-E, 1000 ft. roll	4	4	4	4	each
COMMS	SMALL TOOLS	Tape, filament, roll, 3/4"	12	12	12	12	each
COMMS	SMALL TOOLS	Fuse kit, assortment of fuses (type MINI/ATM)	1	1	1	1	each
COMMS	SMALL TOOLS	Tester, LAN Network Cable	1	1	1	1	each
COMMS	SMALL TOOLS	Screwdriver, Ratcheting	2	2	2	2	each
COMMS	SMALL TOOLS	Cable DAWG	2	2	2	2	each
COMMS	SMALL TOOLS	Crimper, Power Pole Kit	1	1	1	1	each
COMMS	SMALL TOOLS	Connectors, Power Pole 10 AWG/45 Amp, 100/bag	1	1	1	1	each
COMMS	SMALL TOOLS	Connectors, Power Pole 12-14 AWG/30 Amp, 100/bag	1	1	1	1	each
COMMS	SMALL TOOLS	Connectors, Power Pole 16-20 AWG/15 Amp, 100/bag	1	1	1	1	each
COMMS	SMALL TOOLS	Tape, Gaffers 3"X60 Yards (Assorted Colors) (8 Roll Kit)	2	2	2	2	Kit
COMMS	SMALL TOOLS	Analyzer, Antenna	1	1	1	1	each

COMMS	SMALL TOOLS	Small Tools	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
COMMS	SMALL TOOLS	Case, Storage	1	1	1	1	each
COMMS	SMALL TOOLS	Cable, COAX, jumper, assorted lengths as need (39" suggested) with appropriate connectors per cache	8	8	8	8	each
COMMS	SMALL TOOLS	Dummy Load	1	1	1	1	each

HAZMAT

DECONTAMINATION

HAZMAT	DECON	Decontamination	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
HAZMAT	DECON	Lotion, RSDL, Reactive Skin Decontamination, packets, 50/box	2	0	0	0	each
HAZMAT	DECON	Solution, EFT EasyDecon, Sandia National Laboratories, Intelegard RTM Decontamination Formulation 200, 5-gal pail, 5-year shelf life	4	4	2	2	each
HAZMAT	DECON	Merlin CAF Cart System, Sandia Delivery System complete, includes external air source, liquid drafting capability ports, and nozzles.	2	2	1	1	each
HAZMAT	DECON	Tent, KD Kanopy, 10' x 20' w/side panels, storage bag, and stake kit	5	0	0	0	each
HAZMAT	DECON	Shower, Hazmat, Stainless Steel Assembly, 1 1/2" female inlet, NST, nine 1 GPM nozzles, wire mesh water inlet screen, Max. 200 psi (weight 44 lbs.) Single shower that can expand	2	2	1	1	each
HAZMAT	DECON	Valve Assembly, 2nd shutoff, for EMC Decon Shower, installed at base of shower,	2	0	0	0	each
HAZMAT	DECON	Decking plate, Foldable base, stainless steel, approximate 39" in Length, uses with 3 nozzles extension pipe	1	1	0	0	each
HAZMAT	DECON	Extension, Pipe, 3 shower nozzles heads, 1.4 GPM flow	1	0	0	0	each
HAZMAT	DECON	Extension, Pipe, 1 shower nozzles heads, 1.4 GPM flow, EMC, 18" approx., for two lane decon operations	1	1	0	0	each
HAZMAT	DECON	Spare Part Kit, EMC Shower, includes, 1-trigrip coupling. One end cap, one spare nozzle, two O-rings for hinged joints, one header gasket and one platform latch assembly.	1	0	0	0	each
HAZMAT	DECON	Reducer, Hazmat, 1.5" NST Female to 3/4" GHT (Garden Hose) Male	1	0	0	0	each
HAZMAT	DECON	Shower System	2	2	1	1	each
HAZMAT	DECON	Pump, Sump, Waste Water, 14 GPM, Sure Clean, ACSI 380 watts, Garden Hose Connection	2	2	2	0	each

HAZMAT	DECON	Decontamination	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
HAZMAT	DECON	Tent, Decon Shelter, 11' W x 12.5' L, desert tan, includes one spare parts kit and 3 hand held nozzles, and basins, TVI	1	0	0	0	each
HAZMAT	DECON	Floor Risers, 66" x 24" base unit, includes 1/2" elevation feet	6	6	0	0	each
HAZMAT	DECON	Berm, Containment, 8' x 16' x 12", Reeves,	1	1	1	1	each
HAZMAT	DECON	Pump, Sump/Utility, 1,800 GPH, Rule, Automatic, 24-foot cord, 110 Volt, 100 watts	2	2	2	2	each
HAZMAT	DECON	Base, for Sump Pump	6	2	1	1	each
HAZMAT	DECON	Heater, Water, Multi-fuel, 500,000 BTU w/o injection system	1	0	0	0	each
HAZMAT	DECON	Fuel Cap Connectors, MFC adapter	2	0	0	0	each
HAZMAT	DECON	Heater, Forced Air Heater, Fresh Air Space, Quick-Heat Multi-fuel, w/delivery ducting 20'	1	0	0	0	each
HAZMAT	DECON	Stretcher, Raven, litter	4	4	2	1	each
HAZMAT	DECON	Wheel Set, Raven, solid wheel	4	2	1	1	each
HAZMAT	DECON	Gated Wye, 1 1/2" to 1 1/2"	1	1	1	1	each
HAZMAT	DECON	Adapter, Double Male, 1 1/2" NH, to 1 1/2" NH, Light Weight	1	1	1	1	each
HAZMAT	DECON	Adapter, Double Female, 1 1/2" NH, to 1 1/2" NH, Light Weight	1	1	1	1	each
HAZMAT	DECON	Hose, Water, heavy Duty light weight, 3/4" x 50' with Garden hose fittings. Layflat wash down hose.	8	8	8	8	each
HAZMAT	DECON	Manifold, Water, Multi-outlet, 1 1/2" x 3/4" x 6	2	1	0	0	each
HAZMAT	DECON	Manifold, Water Distribution Hydrant Kit, Western Shelter	1	1	1	1	each
HAZMAT	DECON	Hose, Lightweight, 1 1/2", single jacket, 250 psi rated, NST Thread, male and female connections, 50 foot long	1	0	0	0	each
HAZMAT	DECON	Hose, Lightweight, 1 1/2", single jacket, 250 psi rated, NST Thread, male and female connections, 10 foot long	1	0	0	0	each
HAZMAT	DECON	Hose, Lightweight, 1 1/2", single jacket, 250 psi rated, NST Thread, male and female connections, 35 long	1	0	0	0	each
HAZMAT	DECON	Nozzle, 1 1/2" Adjustable Fog/Stream/Shutoff Polycarbonate	1	0	0	0	each
HAZMAT	DECON	Light, Fluorescent, 40-watt tube, two plug, series, all weather, internal ballast 6' cord input, 3' cord output	8	0	0	0	each

HAZMAT	DECON	Decontamination	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
HAZMAT	DECON	Bladder, Waste, Storage, 500G XR-5 w/Bag	2	1	1	1	each
HAZMAT	DECON	Cord, Extension, Outdoor use, Electrical- 20 AMP, 12-gauge, 100 foot, 5-20R/5-20P NEMA Config. Perma-Grip Style, Color Yellow	2	0	0	0	each
HAZMAT	DECON	Cord, Extension, Outdoor use, Electrical- 20 AMP, 12-gauge, 50 foot, 5-20R/5-20P NEMA Config. Perma-Grip Style, Color Yellow	10	0	0	0	each
HAZMAT	DECON	Outlet, Multiple, Portable GFI, 4 outlet, rating, 20 AMP, 120 Volt, 2 duplex, 5-20R NEMA with 6-foot cord, Yellow	4	0	0	0	each
HAZMAT	DECON	Bucket, Plastic, 5 gallon, red for decon	12	6	3	3	each
HAZMAT	DECON	Sheeting, Plastic, 6 mil, 20' foot x 100' feet, Clear	2	1	1	1	each
HAZMAT	DECON	Towel, Wypall, Professional, DRY-UP, 19.5" x 42", 200/case	2	2	2	2	case
HAZMAT	DECON	Bag, Plastic, Large, Heavy Duty, yellow, Haz Mat Bag, 33" x 60', 6 mil, 24 per carton	3	3	2	1	ctn
HAZMAT	DECON	Brush, Scrub, White nylon bristle, for Decon	12	8	4	4	each
HAZMAT	DECON	Chair, Collapsible, Travel Chair Deluxe, Hi Back, Bubba Blue	20	8	4	4	each
HAZMAT	DECON	Bag, Disposable, Hazardous Waste, 3 mil., 100 per box	1	1	1	1	box
HAZMAT	DECON	Contamination Reduction Kit, each Kit contains the following items:	4	2	2	2	Kit
HAZMAT	DECON	Case, 37.18"x21"x17.31", Airtight case to include pressure relief valve, 6 handles (2 on each side, 1 on each end), hinged cover, twist type steel/zinc plated latches mounted in recessed areas. Color: As Specified per Task Force (foot locker)	1	1	1	1	per kit
HAZMAT	DECON	Pump, Sump/Utility, 1,800 GPH, Rule, Automatic, 24' foot cord, 110 Volt, 100 watts	1	1	1	1	per kit
HAZMAT	DECON	Pressure Washer, electric, 1400 psi.	1	1	1	1	per kit
HAZMAT	DECON	Sprayer, Pump, 2-3 gallon size	1	1	1	1	per kit
HAZMAT	DECON	Cord, Extension, Outdoor use, Electrical- 20 AMP, 12 gauge, 50 foot, 5-20R/5-20P NEMA Config. Perma-Grip Style, Color Yellow	1	1	1	1	per kit
HAZMAT	DECON	Nozzle, Garden Hose	1	1	1	1	per kit
HAZMAT	DECON	Wye Connection, Garden Hose	1	1	1	1	per kit
HAZMAT	DECON	10 Series 8 Ply Flexogen Hose 3/4 Inch x 25 Feet Green	3	3	3	3	per kit
HAZMAT	DECON	Brush, scrub, plastic 20" Handle	2	2	2	2	per kit

HAZMAT	DECON	Decontamination	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
HAZMAT	DECON	Simple Green Soap	1	1	1	1	per kit
HAZMAT	DECON	Bucket, Plastic, 5 gallon	2	2	2	2	per kit
HAZMAT	DECON	Wrench, Pipe, 18 inch	1	1	1	1	per kit
HAZMAT	DECON	Outlet, Multiple, Portable GFI, 4 outlet, rating, 20 AMP, 120 Volt, 2 duplex, 5-20R NEMA with 6 foot cord, Yellow	1	1	1	1	per kit

DETECTION EQUIPMENT

HAZMAT	DETECTION EQUIPMENT	Detection Equipment	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
HAZMAT	DETECTION	Detection Kit, M256 Chemical Agent, 12 test per kit	2	0	0	0	each
HAZMAT	DETECTION	Paper, Detector, M9 Chemical Agent	9	0	0	0	roll
HAZMAT	DETECTION	CDS Kit, Draeger	2	0	0	0	each
HAZMAT	DETECTION	X-Act 5000, Deluxe Kit, Draeger. To include: Shoulder strap, Battery, Charger & Power Supply	1	0	0	0	each
HAZMAT	DETECTION	Accuro 2000, Deluxe Kit, Draeger	1	0	0	0	each
HAZMAT	DETECTION	Accuro 2000, Pump, Draeger	1	0	0	0	each
HAZMAT	DETECTION	Tube Set, CDS Test set, Draeger, Set I	5	0	0	0	each
HAZMAT	DETECTION	Tube Set, CDS Test set, Draeger, Set V	5	0	0	0	each
HAZMAT	DETECTION	Chemical Classifier strips, 10/package	10	10	10	10	pkg
HAZMAT	DETECTION	pH Paper, wide stick, 25/box	4	4	4	4	box
HAZMAT	DETECTION	AreaRAE Steel-Gamma Detector, H2S hydrogen Sulfide sensor; 10.6 eV lamp; wireless (RF) data transmission + GPS 900MHZ Data logging monitor- includes software and cable, Monitor Only-	2	0	0	0	each
HAZMAT	DETECTION	RDK Detector Upgrade Kit: Military grade case with in-case charging for AreaRAE's and RAE Link III Repeater, External 4-bank battery charger, spare Li-ion battery packs, 4 Alkaline adapters, Sensor RAE. <i>Task Forces that purchased previous versions with RAE Link II need to contact RAE to upgrade to RAE Link III at no charge.</i>	1	0	0	0	each

HAZMAT	DETECTION EQUIPMENT	Detection Equipment	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
HAZMAT	DETECTION	RDK Host Controller with GPS: Turn key ProRAE Remote package in military grade case including laptop, RAELink III Modem, 12' antenna cable, and in-case charging, to monitor up to 32 wireless detectors. <i>Task Forces may opt to purchase items A La Carte but must meet RAE Guardian requirements.</i>	1	0	0	0	each
HAZMAT	DETECTION	RaeLink3 Mesh Modem System	2	0	0	0	each
HAZMAT	DETECTION	Cradle Starter Kit, Auto RAE II, Multi-Rae Pro Host Controller	1	1	1	1	each
HAZMAT	DETECTION	Cradle, Additional, Auto RAE II, Multi-Rae Pro	1	1	1	1	each
HAZMAT	DETECTION	Regulator, Demand Flow, AutoRae II	2	2	2	2	each
HAZMAT	DETECTION	Regulator, Demand Flow, AutoRae II	1	1	1	1	each
HAZMAT	DETECTION	Detector, Chemical Agent, LCD 3.3 CWA and TIC Detector w/case and accessories	2	0	0	0	each
HAZMAT	DETECTION	Monitor, Atmospheric, Portable, Battery Operated, Kit, monitors LEL, O2, CO,H2S, PID Sensor (10.6), Complete, to include case, accessories, ProRae Guardian License	6	6	3	2	each
HAZMAT	DETECTION	External Filter/Water Traps, 5 Gas Monitor 100/bag	1	1	1	1	bag
HAZMAT	DETECTION	Calibration Kit, for Multi-Rae Pro monitors, complete w/calibration gases, regulators, adapters, accessories, case	2	2	1	1	each

MISC. HAZMAT SUPORT (TECHNICAL AND COMMUNICATIONS)

HAZMAT	MISC. HAZMAT SUPPORT	Technical References and Communications	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
HAZMAT	MISC. HAZMAT SUPPORT	Emergency Response Guide, DOT, Current Version	2	2	1	1	each
HAZMAT	MISC. HAZMAT SUPPORT	NFPA Guide to Hazardous Materials	2	2	1	1	each
HAZMAT	MISC. HAZMAT SUPPORT	NIOSH Hazmat Pocket Guide	2	2	1	1	each
HAZMAT	MISC. HAZMAT SUPPORT	Tape, marking, red, "Hazmat" Imprinted, Roll	5	5	3	1	each
HAZMAT	MISC. HAZMAT SUPPORT	Envoy system, for Motorola XTS5000 Hand Held Portable Radios	10	0	0	0	each

PERSONAL PROTECTIVE EQUIPMENT

HAZMAT	PERSONAL PROTECTIVE EQUIPMENT	Personal Protective Equipment	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
HAZMAT	PERSONAL PROTECTIVE EQUIPMENT	Glove, Viton II, 12 mil, 12", sizes to be determined by task forces	108	108	50	32	pair
HAZMAT	PERSONAL PROTECTIVE EQUIPMENT	Glove, Light Cotton, Inner, un-hemmed, sizes to be determined by task forces	11	0	0	0	dzn
HAZMAT	PERSONAL PROTECTIVE EQUIPMENT	Glove, Leather, Size to be determined by task forces	72	72	36	36	pair
HAZMAT	PERSONAL PROTECTIVE EQUIPMENT	Glove, Viton II, 12 mil, 12", sizes to be determined by task forces	108	108	50	32	pair
HAZMAT	PERSONAL PROTECTIVE EQUIPMENT	Glove, Light Cotton, Inner, un-hemmed, sizes to be determined by task forces	11	0	0	0	dzn
HAZMAT	PERSONAL PROTECTIVE EQUIPMENT	Glove, Leather, Size to be determined by task forces	72	72	36	36	pair
HAZMAT	PERSONAL PROTECTIVE EQUIPMENT	Glove, Nitrile, Ultimate N-DEX, exam, puncture resistant, 50 box, 11", 5 mil, powder free, Size to be determined by task forces	3	3	2	2	box
HAZMAT	PERSONAL PROTECTIVE EQUIPMENT	Boot, CBRN Lightweight Overboot, (sizes LG, XLG, 2XLG)	45	45	30	30	pair
HAZMAT	PERSONAL PROTECTIVE EQUIPMENT	Boot, CBRN (sizes per Task Force)	45	45	30	30	pair
HAZMAT	PERSONAL PROTECTIVE EQUIPMENT	Coverall, 100% Cotton, Navy, sizes determined by task forces	120	100	60	30	each
HAZMAT	PERSONAL PROTECTIVE EQUIPMENT	SCBA, Scott Air Pak Fifty	30	16	12	10	each
HAZMAT	PERSONAL PROTECTIVE EQUIPMENT	Cylinder, 60-minute, Carbon, Spare 4500 PSI, Scott Air Pak Fifty	38	16	16	14	each
HAZMAT	PERSONAL PROTECTIVE EQUIPMENT	PAPR, Scott C420 Plus with 36" hose	45	0	0	0	each
HAZMAT	PERSONAL PROTECTIVE EQUIPMENT	Battery Pack Assembly, PAPR, Disposable, 10-hour capacity, with 10-year Shelf Life	100	0	0	0	each
HAZMAT	PERSONAL PROTECTIVE EQUIPMENT	Charger, for PAPR rechargeable batteries	7	0	0	0	each

HAZMAT	PERSONAL PROTECTIVE EQUIPMENT	Personal Protective Equipment	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
HAZMAT	PERSONAL PROTECTIVE EQUIPMENT	Battery Pack Assembly, PAPR, Disposable, 3-hour capacity, for Training	18	0	0	0	each
HAZMAT	PERSONAL PROTECTIVE EQUIPMENT	Cartridge, CBRN CAP 1 Canister	212	0	0	0	each
HAZMAT	PERSONAL PROTECTIVE EQUIPMENT	Fit Tester, PortaCount Plus Respirator (<i>purchase minimum of 1 and Optional Purchase to a maximum of 3</i>)	1	1	1	1	each
HAZMAT	PERSONAL PROTECTIVE EQUIPMENT	Adapter, Mask Sampling, for Scott AV3000 Sure Seal	3	3	2	2	each
HAZMAT	PERSONAL PROTECTIVE EQUIPMENT	Cartridge, Respirator, P100, (for porta count) 30/case	1	1	1	1	each
HAZMAT	PERSONAL PROTECTIVE EQUIPMENT	Face Piece, AV3000 Sure Seal w/Kevlar Head Harness, sizes determined by task forces	210	100	50	22	each
HAZMAT	PERSONAL PROTECTIVE EQUIPMENT	Adapter, Cartridge, for AV3000 Face piece, (1/4 turn adapter)	210	100	50	22	each
HAZMAT	PERSONAL PROTECTIVE EQUIPMENT	Carrier, Scott Facepiece/APR, for AV3000 Sure Seal face piece	210	100	50	22	each
HAZMAT	PERSONAL PROTECTIVE EQUIPMENT	Boot covers, disposable (latex, silver shields or equivalent), pair	48	48	24	24	pair
HAZMAT	PERSONAL PROTECTIVE EQUIPMENT	Coveralls, plain (Tyvek, Saranex or equivalent)	288	288	144	60	each
HAZMAT	PERSONAL PROTECTIVE EQUIPMENT	Gloves, disposable (Ambi Tru-Touch or equivalent)	12	12	6	6	box
HAZMAT	PERSONAL PROTECTIVE EQUIPMENT	Suit, Zytron 300 Level B, Non-Encapsulated, Sizes determined by task forces, 6 per case	22	22	10	10	case
HAZMAT	PERSONAL PROTECTIVE EQUIPMENT	Suit, Zytron 400 Level B, Encapsulated, Sizes determined by task forces, 6 per case	6	0	0	0	case

HAZMAT	PERSONAL PROTECTIVE EQUIPMENT	Personal Protective Equipment	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
HAZMAT	PERSONAL PROTECTIVE EQUIPMENT	Tactical Rescue Suit; Fire Service version Garment and Gloves, offering protection to multiple hazards. Designed and certified to meet NFPA 1994 level 2 and NFPA 1992, this garment is constructed using W.L. Gore's Chempak Ultrabarrier. Using a Tan Nomex outer layer with Scotchlite Reflective Trim for visibility. Must be certified for use with the Scott AV3000 facepiece. Boots not included. <u>Rear entry Configuration for system standardization for training and response.</u> Task Force option to have gloves pre-attached. Task Forces must purchase appropriate accessories for glove attachment if garment is purchased without gloves.	30	16	15	0	each
HAZMAT	PERSONAL PROTECTIVE EQUIPMENT	Training Garment, Tactical Rescue Suit. Scenario simulation purpose, not chemical or flame resistant, NOT NFPA COMPLIANT, using 1000 denier urethane coated with attached 600 denier cordura booties, with or without gloves attached. <u>Rear entry Configuration for system standardization for training and response.</u> Gloves and attachment ring for training suit, if desired, may need to be purchased separately.	30	16	6	0	each
HAZMAT	PERSONAL PROTECTIVE EQUIPMENT	Bag, Equipment, Tactix Multi-Compartment, Cordura, Black.	30	16	6	0	each
HAZMAT	PERSONAL PROTECTIVE EQUIPMENT	Adapter, 40mm, CBRN for AV3000 Sure Seal face piece	210	100	50	22	each
HAZMAT	PERSONAL PROTECTIVE EQUIPMENT	Bracket, EPIC, Radio communications for AV3000 Sure Seal face piece	210	100	50	22	each

RADIATION EQUIPMENT

HAZMAT	RADIATION EQUIPMENT	Radiation Equipment	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
HAZMAT	RADIATION EQUIPMENT	Meter, Survey, Radiological, Ludlum Radiological Survey Response Kit. Includes all the following Ludlum items carried in Pelican case	2	2	1	1	
HAZMAT	RADIATION EQUIPMENT	Meter, Survey, Radiological	2	2	1	1	each
HAZMAT	RADIATION EQUIPMENT	Detector, G-M, Pancake, 0-300 mR/hr	2	2	1	1	each
HAZMAT	RADIATION EQUIPMENT	Detector, GM, .1mR/hr-1R/hr	2	2	1	1	each
HAZMAT	RADIATION EQUIPMENT	Detector, GM, 150mR/hr- 1000R/hr	2	2	1	1	each

HAZMAT	RADIATION EQUIPMENT	Radiation Equipment	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
HAZMAT	RADIATION EQUIPMENT	Scintillator, Na(Tl) Gamma, 1" x 1", (50 KeV-1.5 MeV)	2	2	1	1	each
HAZMAT	RADIATION EQUIPMENT	Case, Large, 22" X 17" X 8"	2	2	1	1	each
HAZMAT	RADIATION EQUIPMENT	Head set, Large	2	2	1	1	each
HAZMAT	RADIATION EQUIPMENT	Shoulder Strap Modification	2	2	1	1	each
HAZMAT	RADIATION EQUIPMENT	Dosimeter, Electronic, Ultra Radiac Plus Radiation Monitor w/Vibration Alarm; includes audible and visual alarms.	40	40	25	20	each
HAZMAT	RADIATION EQUIPMENT	Software, utility, Ultra Radiac Plus	1	1	1	1	each
HAZMAT	RADIATION EQUIPMENT	InfraRed Reader, w/cable, link between Ultra Radiac Plus and PC	1	1	1	1	each
HAZMAT	RADIATION EQUIPMENT	Check Source, Calibration Device, Ultra Radiac Plus	1	1	1	1	each
HAZMAT	RADIATION EQUIPMENT	Adapter, RS-232 To USB, EXT-IR	1	1	1	1	each
HAZMAT	RADIATION EQUIPMENT	Software, Training, Interactive, Canberra Ultra Radiac Plus	1	1	1	1	each
HAZMAT	RADIATION EQUIPMENT	RadWatch Optically Stimulated Luminescence	180	100	50	32	each
HAZMAT	RADIATION EQUIPMENT	Standard RadLight Reader (Optional Purchase)	1	0	0	0	each
HAZMAT	RADIATION EQUIPMENT	NanoRaider ZH, Isotope Identifier, Color Display, 3 CdZnTe Detectors, Digital Signal Processing Electronics, Web Server, Bluetooth, USB Capable, Reachback capability, w/accessories and carrying case	1	0	0	0	each

LOGISTICS

ADMINISTRATIVE SUPPORT

LOGISTICS	ADMINISTRATIVE SUPPORT	Administrative Support	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
LOGISTICS	ADMINISTRATIVE SUPPORT	Rubber band, box	4	4	3	2	box
LOGISTICS	ADMINISTRATIVE SUPPORT	Book, log	1	1	1	1	each
LOGISTICS	ADMINISTRATIVE SUPPORT	Calculator, handheld, AA battery powered, w/ tape	1	1	1	1	each
LOGISTICS	ADMINISTRATIVE SUPPORT	Clipboards, metal bound, with storage pockets	12	12	6	3	each

LOGISTICS	ADMINISTRATIVE SUPPORT	Administrative Support	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
LOGISTICS	ADMINISTRATIVE SUPPORT	Clips, papers, regular, box	2	2	1	1	box
LOGISTICS	ADMINISTRATIVE SUPPORT	Clips, papers, jumbo, box	2	2	1	1	box
LOGISTICS	ADMINISTRATIVE SUPPORT	Printer, portable, All-In-One (Copy/Scan/Fax) w/ Accessories	2	2	1	1	each
LOGISTICS	ADMINISTRATIVE SUPPORT	Manual, Operations Systems Description, FEMA US&R	2	2	1	1	each
LOGISTICS	ADMINISTRATIVE SUPPORT	Resource Status Kit, ICS, including "T" cards and holders	4	4	2	1	each
LOGISTICS	ADMINISTRATIVE SUPPORT	Vest, Web, Kit, set, Includes following items:	1	1	1	1	set
LOGISTICS	ADMINISTRATIVE SUPPORT	Vest, Web, Task Force Leader	2	2	2	2	each
LOGISTICS	ADMINISTRATIVE SUPPORT	Vest, Web, Team Manager	2	2	2	2	each
LOGISTICS	ADMINISTRATIVE SUPPORT	Vest, Web, Safety	2	2	2	2	each
LOGISTICS	ADMINISTRATIVE SUPPORT	Vest, Web, Plans	2	2	2	2	each
LOGISTICS	ADMINISTRATIVE SUPPORT	Vest, Web, Rescue Squad Officer	4	4	4	4	each
LOGISTICS	ADMINISTRATIVE SUPPORT	Vest, Web, Communications	2	2	2	2	each
LOGISTICS	ADMINISTRATIVE SUPPORT	Vest, Web, Structural	2	2	2	2	each
LOGISTICS	ADMINISTRATIVE SUPPORT	Vest, Web, Haz Mat Manager	2	2	2	2	each
LOGISTICS	ADMINISTRATIVE SUPPORT	Vest, Web, Heavy Rigging	2	2	2	2	each
LOGISTICS	ADMINISTRATIVE SUPPORT	Vest, Web, Logistics Specialist	4	4	4	4	each
LOGISTICS	ADMINISTRATIVE SUPPORT	Vest, Identification, Tech. Search	2	2	2	2	each
LOGISTICS	ADMINISTRATIVE SUPPORT	Vest, Identification, Tech. Info	2	2	2	2	each
LOGISTICS	ADMINISTRATIVE SUPPORT	Vest, Web, Team Manager, Rescue Manager	2	2	2	2	each
LOGISTICS	ADMINISTRATIVE SUPPORT	Vest, Web, Team Manager, Search Manager	2	2	2	2	each
LOGISTICS	ADMINISTRATIVE SUPPORT	Vest, Web, Team Manager, Medical Manager	2	2	2	2	each
LOGISTICS	ADMINISTRATIVE SUPPORT	Vest, Web, Team Manager, Logistics Manager	2	2	2	2	each
LOGISTICS	ADMINISTRATIVE SUPPORT	Labels, Hazmat, Explosive 1.4S	1	1	1	1	roll
LOGISTICS	ADMINISTRATIVE SUPPORT	Label, Hazmat, Flammable Liquid	1	1	1	1	roll

LOGISTICS	ADMINISTRATIVE SUPPORT	Administrative Support	Type I qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
LOGISTICS	ADMINISTRATIVE SUPPORT	Label, Hazmat, Oxygen	1	1	1	1	roll
LOGISTICS	ADMINISTRATIVE SUPPORT	Label, Hazmat, Flammable Gas	1	1	1	1	roll
LOGISTICS	ADMINISTRATIVE SUPPORT	Label, Hazmat, Number 9	1	1	1	1	roll
LOGISTICS	ADMINISTRATIVE SUPPORT	Label, Hazmat, Non-flammable Gas	1	1	1	1	roll
LOGISTICS	ADMINISTRATIVE SUPPORT	Label, Air Eligible	1	1	1	1	roll
LOGISTICS	ADMINISTRATIVE SUPPORT	Label, Inside Packaging Conforms, 1000/roll	1	1	1	1	roll
LOGISTICS	ADMINISTRATIVE SUPPORT	Label, Arrow pointing up, 500/roll	1	1	1	1	roll
LOGISTICS	ADMINISTRATIVE SUPPORT	Label, Lithium Ion Battery, 500/roll	1	1	1	1	roll
LOGISTICS	ADMINISTRATIVE SUPPORT	Marker, china, 12/pkg.	1	1	1	1	pkg
LOGISTICS	ADMINISTRATIVE SUPPORT	Marker, felt, waterproof, 12/pkg.	2	2	2	2	pkg
LOGISTICS	ADMINISTRATIVE SUPPORT	Pad, note, (self-stick)	12	12	8	6	pad
LOGISTICS	ADMINISTRATIVE SUPPORT	Pad, note, (self-stick)	12	12	8	6	pad
LOGISTICS	ADMINISTRATIVE SUPPORT	Pad, steno (6" x 9")	12	12	8	6	pad
LOGISTICS	ADMINISTRATIVE SUPPORT	Pad, writing, Legal Ruled, 8 1/2" x 11"	12	12	8	6	pad
LOGISTICS	ADMINISTRATIVE SUPPORT	Paper, pads, graph, 1/10" squares, 8 1/2" x 11"	12	12	8	6	pad
LOGISTICS	ADMINISTRATIVE SUPPORT	Paper, copy, 20 lb., 500 sheet reams, 10 ream box	1	1	1	1	box
LOGISTICS	ADMINISTRATIVE SUPPORT	Pencils, 12/pkg.	6	6	4	4	pkg
LOGISTICS	ADMINISTRATIVE SUPPORT	Pens, black, 12/pkg.	6	6	4	4	pkg
LOGISTICS	ADMINISTRATIVE SUPPORT	Notebook, 3" x 5", waterproof,	84	84	42	36	each
LOGISTICS	ADMINISTRATIVE SUPPORT	Notepad, Unit Log ICS 214, Waterproof,	24	24	12	12	each
LOGISTICS	ADMINISTRATIVE SUPPORT	Protectors, document, 100ct box	2	2	2	2	box
LOGISTICS	ADMINISTRATIVE SUPPORT	Scale, architectural	4	4	3	2	each
LOGISTICS	ADMINISTRATIVE SUPPORT	Stapler	4	4	3	2	each
LOGISTICS	ADMINISTRATIVE SUPPORT	Staples, box	2	2	2	2	box
LOGISTICS	ADMINISTRATIVE SUPPORT	Tape, duct	24	24	12	8	roll
LOGISTICS	ADMINISTRATIVE SUPPORT	Tape, cellophane, 2", roll	3	3	3	3	roll
LOGISTICS	ADMINISTRATIVE SUPPORT	Tape, masking, 1", roll	3	3	3	3	roll
LOGISTICS	ADMINISTRATIVE SUPPORT	Database system, Cache and Personnel, to include software and peripheral hardware required to operate the system	1	1	1	1	lot
LOGISTICS	ADMINISTRATIVE SUPPORT	Reference library, cache transport and certification manuals and software (AFMAN 24-204/IATA DGR/CFR)	1	1	1	1	lot

LOGISTICS	ADMINISTRATIVE SUPPORT	Administrative Support	Type I qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
LOGISTICS	ADMINISTRATIVE SUPPORT	Field Flex Kit, Tan Cordura Fabric cover	4	4	2	2	Kit
LOGISTICS	ADMINISTRATIVE SUPPORT	Field Flex, Bound book 4 5/8" x 7 1/4"	4	4	2	2	each
LOGISTICS	ADMINISTRATIVE SUPPORT	Pen, All weather, Tactical	4	4	2	2	each
LOGISTICS	ADMINISTRATIVE SUPPORT	Cover, Cordura, Tan	4	4	2	2	each

BASE OF OPERATIONS

LOGISTICS	BASE OF OPERATIONS	Base of Operations	Type I qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
LOGISTICS	BASE OF OPERATIONS	Compressor, pneumatic, gasoline-powered, 5.5 HP, dual tank, 8.8 CFM	1	1	1	1	each
LOGISTICS	BASE OF OPERATIONS	Accessory Kit , Air Compressor, includes inflators, air gun, and connectors	1	1	1	1	each
LOGISTICS	BASE OF OPERATIONS	Coupling, Air Compressor, HS Quick, Female, 1/4"NPT	5	5	5	5	each
LOGISTICS	BASE OF OPERATIONS	Coupling, Air Compressor, HS Quick, Male, 1/4"NPT	5	5	5	5	each
LOGISTICS	BASE OF OPERATIONS	Compressor, pneumatic, gasoline-powered, 5.5 HP, dual tank, 8.8 CFM	1	1	1	1	each
LOGISTICS	BASE OF OPERATIONS	Accessory Kit , Air Compressor, includes inflators, air gun, and connectors	1	1	1	1	each
LOGISTICS	BASE OF OPERATIONS	Coupling, Air Compressor, HS Quick, Female, 1/4"NPT	5	5	5	5	each
LOGISTICS	BASE OF OPERATIONS	Coupling, Air Compressor, HS Quick, Male, 1/4" NPT	5	5	5	5	each
LOGISTICS	BASE OF OPERATIONS	Stud, Air Compressor, HS, Male, 1/4"NPT	5	5	5	5	each
LOGISTICS	BASE OF OPERATIONS	Stud, Air Compressor, HS female, 1/4"NPT	5	5	5	5	each
LOGISTICS	BASE OF OPERATIONS	Bucket, Collapsible, 5 Gallon maximum	10	10	5	5	each
LOGISTICS	BASE OF OPERATIONS	Desk, Field, Airtight case to include pressure relief valve, twist type steel/zinc plated latches mounted in recessed areas. Color: Gray	2	2	1	1	each
LOGISTICS	BASE OF OPERATIONS	Funnel, Short Neck	6	6	3	3	each
LOGISTICS	BASE OF OPERATIONS	Grinder, 7-inch, electric, right angle	1	1	1	1	each
LOGISTICS	BASE OF OPERATIONS	Discs, Grinding, 7-inch	5	5	5	5	each
LOGISTICS	BASE OF OPERATIONS	Rod, grounding, w/ clamp, and grounding wire	8	8	8	8	each
LOGISTICS	BASE OF OPERATIONS	Driver, Ground Rod, 1 1/8" Hex x 15", 60 lb. Demolition Hammer	1	1	1	1	each
LOGISTICS	BASE OF OPERATIONS	Cover, Salvage, 18oz, 12 ft. X 18 ft.	20	20	10	10	each

LOGISTICS	BASE OF OPERATIONS	Base of Operations	Type I qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
LOGISTICS	BASE OF OPERATIONS	Chair, folding	34	34	34	28	each
LOGISTICS	BASE OF OPERATIONS	Power strip, surge protector, 6 outlet with surge protection	20	20	20	20	each
LOGISTICS	BASE OF OPERATIONS	Table, folding	10	10	5	5	each
LOGISTICS	BASE OF OPERATIONS	Distribution Kit, Electrical, 50 Amp Rating, Includes 50AMP Power Distribution Boxes, GFCI Protected, 50' Power Cables 240V, 50' Extension Cords 110V, and Storage Cases (Optional Purchase)	8	8	4	2	each
LOGISTICS	BASE OF OPERATIONS	Extension Cable, 50', 6/4, 50 AMP, Single Phase (Optional Purchase)	4	4	3	2	each
LOGISTICS	BASE OF OPERATIONS	Wire Set, Banded, 50', Cam-Lok, Includes Red, Black, Blue, Green, and White Wires (Optional Purchase)	1	1	1	1	each
LOGISTICS	BASE OF OPERATIONS	Panel, Main Power Distribution, 400 AMP, 3 Phase, w/10 Each 50 AMP 125/250V outlets (Optional Purchase)	1	1	1	1	each
LOGISTICS	BASE OF OPERATIONS	Stand, for Main Power Distribution Panel (Optional Purchase)	1	1	1	1	each

CACHE TRANSPORTATION/SUPPORT

LOGISTICS	CACHE TRANSPORTATION / SUPPORT	Cache Transportation / Support	Type I qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
LOGISTICS	CACHE TRANSPORTATION / SUPPORT	Jack, pallet-type, hydraulic	5	5	3	0	each
LOGISTICS	CACHE TRANSPORTATION / SUPPORT	Jack, Pallet, 463L pallet, 10,000 lb. capacity	1	1	1	0	each
LOGISTICS	CACHE TRANSPORTATION / SUPPORT	Dunnage, Pallet, 4" x 4" x 8', wood/plastic/composite	1	1	1	1	each
LOGISTICS	CACHE TRANSPORTATION / SUPPORT	Plywood, pallet skid protection, 4' x 8' x 3/4" (2 per pallet)	20	20	10	10	sets
LOGISTICS	CACHE TRANSPORTATION / SUPPORT	Cover, Pallet, polyethylene, cargo, roll of 10	3	3	2	1	roll
LOGISTICS	CACHE TRANSPORTATION / SUPPORT	Strap, cargo, 30', for securing 463L pallet to transport	45	45	23	20	each
LOGISTICS	CACHE TRANSPORTATION / SUPPORT	Container, shipping, and storage, for listed cache items, with required markings, labels, and warnings. Color: As Specified per Task Force. Common containers include, but are not limited to, the following:	1	1	1	1	lot
LOGISTICS	CACHE TRANSPORTATION / SUPPORT	Case, 34.43" x 27.40" x 19.37", Airtight case to include pressure relief valve, 8 handles (2 on each side), hinged cover, twist type steel/zinc plated latches mounted in recessed areas. Color: As Specified per Task Force (8 handle short)	1	1	1	1	each

LOGISTICS	CACHE TRANSPORTATION / SUPPORT	Cache Transportation / Support	Type I qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
LOGISTICS	CACHE TRANSPORTATION / SUPPORT	Case, 34.43" x 27.40" x 23.37", Airtight case to include pressure relief valve, 8 handles (2 on each side), hinged cover, twist type steel/zinc plated latches mounted in recessed areas. Color: As Specified per Task Force (8 handle tall)	1	1	1	1	each
LOGISTICS	CACHE TRANSPORTATION / SUPPORT	Case, 37.18"x21"x17.31", Airtight case to include pressure relief valve, 6 handles (2 on each side, 1 on each end), hinged cover, twist type steel/zinc plated latches mounted in recessed areas. Color: As Specified per Task Force (foot locker)	1	1	1	1	each
LOGISTICS	CACHE TRANSPORTATION / SUPPORT	Case, 29"x20.25"x12.08", Airtight case to include pressure relief valve, 2 handles (1 on each end), hinged cover, twist type steel/zinc plated latches mounted in recessed areas. Color: As Specified per Task Force (radio repeater case)	1	1	1	1	each
LOGISTICS	CACHE TRANSPORTATION / SUPPORT	Case, 72.37"x15"x16.28", Airtight case to include pressure relief valve, 8 handles (2 on each side, 1 on each end), hinged cover. Color: As Specified per Task Force (long handle tools)	1	1	1	1	each
LOGISTICS	CACHE TRANSPORTATION / SUPPORT	Case, 20"x20"x20", Airtight case to include pressure relief valve, 2 handles (1 on each side), hinged cover. Color: As Specified per Task Force (radio / battery storage)	1	1	1	1	each
LOGISTICS	CACHE TRANSPORTATION / SUPPORT	Case, 14.62"x10.18"x6", Airtight case to include pressure relief valve, hinged cover. Color: As Specified per Task Force	1	1	1	1	each
LOGISTICS	CACHE TRANSPORTATION / SUPPORT	Case, 27.4"x23.4"x34.4", Airtight case to include pressure relief valve, 2 handles, case has internal wheel and/or handle wells, hinged cover. Color: As Specified per Task Force (power cord storage)	1	1	1	1	each
LOGISTICS	CACHE TRANSPORTATION / SUPPORT	Case, 35.75"x13.5"x5.25", Airtight case to include pressure relief valve, 2 handles, hinged cover. Color: As Specified per Task Force (search cam storage)	1	1	1	1	each
LOGISTICS	CACHE TRANSPORTATION / SUPPORT	Container, Shipping, 40"x48"x39", 2 drop door, with quick release rod, gray	1	1	1	1	each
LOGISTICS	CACHE TRANSPORTATION / SUPPORT	Rod, Quick Release, for Shipping Container, 48"	1	1	1	1	each
LOGISTICS	CACHE TRANSPORTATION / SUPPORT	Cover, Shipping container, 40"x48" gray,	1	1	1	1	each
LOGISTICS	CACHE TRANSPORTATION / SUPPORT	Holder, Label, HDPE, for Shipping Container, 12.98" x 10"	1	1	1	1	each
LOGISTICS	CACHE TRANSPORTATION / SUPPORT	Cover, protective, weather resistant, for 463L Pallets	18	18	9	0	each
LOGISTICS	CACHE TRANSPORTATION / SUPPORT	Scale, Pallet kit	1	1	1	0	set
LOGISTICS	CACHE TRANSPORTATION / SUPPORT	Scale, electronic, digital readout, 0-400 lbs.	2	2	2	1	each

LOGISTICS	CACHE TRANSPORTATION / SUPPORT	Cache Transportation / Support	Type I qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
LOGISTICS	CACHE TRANSPORTATION / SUPPORT	Pallet, 40" x 48", Plastic, Black	60	60	30	15	each
LOGISTICS	CACHE TRANSPORTATION / SUPPORT	Pallet, 463L, 108" x 88" x 2 1/4" (Purchase with program office approval only. Check DOD sources for issuance at no cost)	18	18	9	5	each
LOGISTICS	CACHE TRANSPORTATION / SUPPORT	Net, Side, for 463L Pallet (Purchase with program office approval only. Check DOD sources for issuance at no cost)	36	36	18	9	each
LOGISTICS	CACHE TRANSPORTATION / SUPPORT	Net, Top, for 463L Pallet (Purchase with program office approval only. Check DOD sources for issuance at no cost)	18	18	9	5	each
LOGISTICS	CACHE TRANSPORTATION / SUPPORT	Strap, Pallet, 463L (Purchase with program office approval only. Check DOD sources for issuance at no cost)	16	16	8	4	each
LOGISTICS	CACHE TRANSPORTATION / SUPPORT	Portable aluminum aircraft ramps set (20,000# per axle rating) DAMAS C130 low clearance Extended shoring (Configuration Determined per TF)	1	1	1	1	set
LOGISTICS	CACHE TRANSPORTATION / SUPPORT	Container, ATA300F Compliant, for transport of Oxygen Cylinders, flame and penetration requirements set forth in 49CFR	1	1	1	1	each

EQUIPMENT MAINTENANCE

LOGISTICS	EQUIPMENT MAINTENANCE	Equipment Maintenance	Type I qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
LOGISTICS	EQUIPMENT MAINTENANCE	Funnels, long neck, with filter screens	6	6	3	3	each
LOGISTICS	EQUIPMENT MAINTENANCE	Fuel Stabilizer, 10 oz	12	12	6	6	each
LOGISTICS	EQUIPMENT MAINTENANCE	Soldering Gun Kit	1	1	1	1	each
LOGISTICS	EQUIPMENT MAINTENANCE	Hardware kit, assorted nuts, bolts, washers, SAE 1/8"- 1/2", various lengths	1	1	1	1	each
LOGISTICS	EQUIPMENT MAINTENANCE	Hardware kit, assorted nuts, bolts, washers, SAE 1/8"- 1/2", various lengths	1	1	1	1	each
LOGISTICS	EQUIPMENT MAINTENANCE	Hardware kit, assorted nuts, bolts, washers, SAE 1/8"- 1/2", various lengths	1	1	1	1	each
LOGISTICS	EQUIPMENT MAINTENANCE	Lubricant, WD-40	1	1	1	1	gal.
LOGISTICS	EQUIPMENT MAINTENANCE	Bottles, Spray, 16 oz	4	4	2	2	each
LOGISTICS	EQUIPMENT MAINTENANCE	Oil, 2 Cycle Mix, 2.6 oz.	12	12	6	6	each
LOGISTICS	EQUIPMENT MAINTENANCE	Pump, fuel, manual, 20' lift	1	1	1	1	each
LOGISTICS	EQUIPMENT MAINTENANCE	Hose, 5'x1", Non-collapsible	1	1	1	1	each
LOGISTICS	EQUIPMENT MAINTENANCE	Hose, Discharge, 15' x 1", compatible with hydrocarbons, or equivalent	1	1	1	1	each

LOGISTICS	EQUIPMENT MAINTENANCE	Equipment Maintenance	Type I qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
LOGISTICS	EQUIPMENT MAINTENANCE	Stapler	1	1	1	1	each
LOGISTICS	EQUIPMENT MAINTENANCE	Staples, 1/2", 1250/box	5	5	3	2	box
LOGISTICS	EQUIPMENT MAINTENANCE	Starting fluid, EZ start, case	1	1	1	1	case
LOGISTICS	EQUIPMENT MAINTENANCE	Tape, cellophane, 2", roll	48	48	24	12	roll
LOGISTICS	EQUIPMENT MAINTENANCE	Tape, duct, premium grade	24	24	12	6	roll
LOGISTICS	EQUIPMENT MAINTENANCE	Dispenser, Tape, for box sealing tape	2	2	2	2	each
LOGISTICS	EQUIPMENT MAINTENANCE	Tape, electricians, roll	12	12	6	3	roll
LOGISTICS	EQUIPMENT MAINTENANCE	Connector Kit, assortment of solderless connectors with crimping pliers	1	1	1	1	each
LOGISTICS	EQUIPMENT MAINTENANCE	Pliers, Wire Stripper/Crimping, 8 5/8"	1	1	1	1	each
LOGISTICS	EQUIPMENT MAINTENANCE	Multimeter, (volts, ohms, amps) digital, with probes	1	1	1	1	each
LOGISTICS	EQUIPMENT MAINTENANCE	Tie, wraps, nylon, assorted	1	1	1	1	pkg
LOGISTICS	EQUIPMENT MAINTENANCE	Tool kit, mechanics, 997 piece, all-purpose general	1	1	1	1	set
LOGISTICS	EQUIPMENT MAINTENANCE	Hex Key, 18 Piece Set, w/ Metal Box	1	1	1	1	set
LOGISTICS	EQUIPMENT MAINTENANCE	Hex Key, Metric, 15 Piece Set, W/Metal Box	1	1	1	1	set
LOGISTICS	EQUIPMENT MAINTENANCE	Standard and Phillips Tips Screw Starter, 6 1/4"	1	1	1	1	set
LOGISTICS	EQUIPMENT MAINTENANCE	Mirror, Circular Inspection, 8"	1	1	1	1	each
LOGISTICS	EQUIPMENT MAINTENANCE	Flexible Retrieving and Holding Tool, 13 1/2"	1	1	1	1	each
LOGISTICS	EQUIPMENT MAINTENANCE	Telescopic Magnetic Retrieval Tool, 16 3/4-26 3/4"	1	1	1	1	each
LOGISTICS	EQUIPMENT MAINTENANCE	Gauge, Spark Plug Gap Set	1	1	1	1	set
LOGISTICS	EQUIPMENT MAINTENANCE	Gauge, Feeler, 25 Blade Set	1	1	1	1	set
LOGISTICS	EQUIPMENT MAINTENANCE	File, Set, 6 Piece	1	1	1	1	set
LOGISTICS	EQUIPMENT MAINTENANCE	Cleaner, Battery Post	1	1	1	1	each
LOGISTICS	EQUIPMENT MAINTENANCE	Screwdriver Set, Combination, 19 Piece	1	1	1	1	set
LOGISTICS	EQUIPMENT MAINTENANCE	Awl, Scratch, 100 plus	1	1	1	1	each

LOGISTICS	EQUIPMENT MAINTENANCE	Equipment Maintenance	Type I qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
LOGISTICS	EQUIPMENT MAINTENANCE	Pliers, Set, 5 Piece, to include 6" slip joint, 7" slip groove, 10" slip groove, 7" heavy duty diagonal cutter, 7" chain nose pliers/cutter	1	1	1	1	set
LOGISTICS	EQUIPMENT MAINTENANCE	Hook Set, 4 Piece	1	1	1	1	each
LOGISTICS	EQUIPMENT MAINTENANCE	Pliers, Power Track II, Natural Finish, 12"	1	1	1	1	each
LOGISTICS	EQUIPMENT MAINTENANCE	Pliers, Power Track II, Natural Finish, 16 7/8"	1	1	1	1	each
LOGISTICS	EQUIPMENT MAINTENANCE	Pliers, Convertible, Retaining Ring, .038 90 degree tip	1	1	1	1	each
LOGISTICS	EQUIPMENT MAINTENANCE	Pliers, Convertible, Retaining Ring, .070 90 degree tip	1	1	1	1	each
LOGISTICS	EQUIPMENT MAINTENANCE	Pliers, Convertible, Retaining Ring, .038 0 degree tip	1	1	1	1	each
LOGISTICS	EQUIPMENT MAINTENANCE	Convertible Retaining Ring Pliers, .070 0 degree tip	1	1	1	1	each
LOGISTICS	EQUIPMENT MAINTENANCE	Hammer, framing straight claw, 22 oz., steel, mill face	1	1	1	1	each
LOGISTICS	EQUIPMENT MAINTENANCE	Hammer, Standard Head, Soft Face, Compo-Cast, 21 oz.	1	1	1	1	each
LOGISTICS	EQUIPMENT MAINTENANCE	Hammer, Ball Pein, Compo Cast, 32 oz	1	1	1	1	each
LOGISTICS	EQUIPMENT MAINTENANCE	Hammer, Ball Pein, Compo Cast, 16 oz	1	1	1	1	each
LOGISTICS	EQUIPMENT MAINTENANCE	Gasket Scraper and Carbon Scraper	1	1	1	1	each
LOGISTICS	EQUIPMENT MAINTENANCE	Puller, Cotter Pin	1	1	1	1	each
LOGISTICS	EQUIPMENT MAINTENANCE	4 Piece Pry Bar Set	1	1	1	1	set
LOGISTICS	EQUIPMENT MAINTENANCE	12 Piece Punch and Chisel Set	1	1	1	1	set
LOGISTICS	EQUIPMENT MAINTENANCE	Hammer, Soft Face, 1.43 lb.	1	1	1	1	each
LOGISTICS	EQUIPMENT MAINTENANCE	Wrench, Adjustable, 3 piece Set, 8", 10", 12"	1	1	1	1	set
LOGISTICS	EQUIPMENT MAINTENANCE	Pliers, Locking, Straight Jaw, 7"	1	1	1	1	each
LOGISTICS	EQUIPMENT MAINTENANCE	Pliers, Locking, Straight Jaw, 10"	1	1	1	1	each
LOGISTICS	EQUIPMENT MAINTENANCE	Pliers, Locking, Chain Clamp, 18"	1	1	1	1	each
LOGISTICS	EQUIPMENT MAINTENANCE	Can, Fuel, military (MFC 3-20L) IATA/ICAO specification or equivalent (gaskets and caps as appropriate for product)	30	30	20	15	each
LOGISTICS	EQUIPMENT MAINTENANCE	Stand, Jerrican, Collapsible	8	8	4	4	each

LOGISTICS	EQUIPMENT MAINTENANCE	Equipment Maintenance	Type I qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
LOGISTICS	EQUIPMENT MAINTENANCE	Adapter Kit, Gravity Feed, 5 Gallon Jerrican	8	8	4	4	each
LOGISTICS	EQUIPMENT MAINTENANCE	Oil, Engine multi-grade	24	24	12	6	each
LOGISTICS	EQUIPMENT MAINTENANCE	Pump, Transfer (Black & Decker, Jack Rabbit, or equivalent)	1	1	1	1	each
LOGISTICS	EQUIPMENT MAINTENANCE	Replacement Parts, Military (MFC 3-20L)Fuel Can, to include caps, cap retainer straps, gaskets.	1	1	1	1	lot
LOGISTICS	EQUIPMENT MAINTENANCE	Pour Spout, 1" Diameter, Fuel can military (MFC 3-20L)	8	8	4	4	each
LOGISTICS	EQUIPMENT MAINTENANCE	Spout, Pour, 19mm Diameter, Fuel can military (MFC 3-20L)	4	4	2	2	each
LOGISTICS	EQUIPMENT MAINTENANCE	Wrap, stretch 20", roll, with handles	8	8	4	4	roll
LOGISTICS	EQUIPMENT MAINTENANCE	Banding system, with strapping, tensioner/cutter, sealer, and seals	1	1	1	1	set
LOGISTICS	EQUIPMENT MAINTENANCE	Drill/Driver, Heavy Duty, XRP 1/2", 12V Cordless, Kit	1	1	1	1	each
LOGISTICS	EQUIPMENT MAINTENANCE	Screw Driving set, 29 bit, w/ Case	1	1	1	1	set
LOGISTICS	EQUIPMENT MAINTENANCE	Drill Bit Set, 21 Piece, (1/16-3/8")	1	1	1	1	set
LOGISTICS	EQUIPMENT MAINTENANCE	Cutter, Rope	2	2	1	1	each
LOGISTICS	EQUIPMENT MAINTENANCE	Tip, Cutting, for rope cutter	2	2	1	1	each
LOGISTICS	EQUIPMENT MAINTENANCE	Tool Box	1	1	1	1	each
LOGISTICS	EQUIPMENT MAINTENANCE	Tool Chest	1	1	1	1	each

FOOD

LOGISTICS	FOOD	Food	Type I qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
LOGISTICS	FOOD	Bag, trash	500	500	250	200	each
LOGISTICS	FOOD	Cups, paper, hot and cold	2000	2000	1000	500	each
LOGISTICS	FOOD	Flatware, plastic (sets of knives/forks/spoons)	600	600	300	200	sets
LOGISTICS	FOOD	Supplemental food items, procured at home, 720 serving, coffee, hot chocolate, protein bars, etc.	1	1	1	1	lot
LOGISTICS	FOOD	MRE (Meals Ready To Eat, Fire-Eaters, Freeze Dried Food or equivalent) Quantity sufficient to provide for 80 personnel, 3 meals a day for 72 hours, Amount As Required (12/case)	60	60	30	15	case
LOGISTICS	FOOD	Coffee Maker, 100 cup (hot water)	2	2	2	2	each
LOGISTICS	FOOD	Plates, paper	500	500	250	125	each
LOGISTICS	FOOD	Towels, paper, roll 10/box	3	3	2	1	box

PERSONAL BAG

LOGISTICS	PERSONAL BAG	Personal Bag	Type I qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
LOGISTICS	PERSONAL BAG	NOTE: These items are proposed for each team member. The task force should have one set, as listed, for each rostered person on the task force, not to exceed a total of 230. The intent is for this equipment to be assigned to the individual and be in a state of readiness for activation at all times.	220	220	110	70	each
LOGISTICS	PERSONAL BAG	Ball cap, navy blue w/ Task Force Logo	1	1	1	1	each
LOGISTICS	PERSONAL BAG	Hat, wide brim, (boonie style)	1	1	1	1	each
LOGISTICS	PERSONAL BAG	Boots, Safety, Black, Gore-Tex, ASTM/NFPA compliant or equivalent, pair	2	2	2	2	pair
LOGISTICS	PERSONAL BAG	Flashlight, battery powered, intrinsically safe, UL rated, w/ spare bulbs	1	1	1	1	each
LOGISTICS	PERSONAL BAG	Ear plugs, safety, disposable, style NRR 24	2	2	2	2	each
LOGISTICS	PERSONAL BAG	Helmet, rescue-type, low profile, ASTM/NFPA compliant or equivalent	1	1	1	1	each
LOGISTICS	PERSONAL BAG	Light, Helmet, battery powered, Intrinsically safe w/ spare bulbs	1	1	1	1	each
LOGISTICS	PERSONAL BAG	Knife, combination, folding	1	1	1	1	each
LOGISTICS	PERSONAL BAG	Gloves, work, leather, sized as needed	2	2	2	2	pair
LOGISTICS	PERSONAL BAG	Lip balm, SPF 15 min.	2	2	2	2	each
LOGISTICS	PERSONAL BAG	Rain gear, set	1	1	1	1	set
LOGISTICS	PERSONAL BAG	Glasses, Safety, shatter proof, with side shields and lanyard, Z87	2	2	2	2	each
LOGISTICS	PERSONAL BAG	Uniform, Pants and Overshirt or Blouse, BDU Style, 6 pocket, Navy Blue, 100% Ripstop Cotton	6	6	6	6	each
LOGISTICS	PERSONAL BAG	Uniform, Jumpsuits or two piece, Nomex IIIA, set	1	1	1	1	each
LOGISTICS	PERSONAL BAG	Uniform jacket, w/ optional liner, Navy Blue	1	1	1	1	each
LOGISTICS	PERSONAL BAG	Pads, knee, heavy duty, pair	1	1	1	1	pair
LOGISTICS	PERSONAL BAG	Pads, elbow, heavy duty, pair	1	1	1	1	pair
LOGISTICS	PERSONAL BAG	Bandanas	3	3	3	3	each
LOGISTICS	PERSONAL BAG	Pack, Field, personal, system	1	1	1	1	each
LOGISTICS	PERSONAL BAG	Bag(s), Gear, personal equipment (as required to outfit each task force member)	1	1	1	1	lot
LOGISTICS	PERSONAL BAG	Shorts, uniform, BDU Style, Navy Blue, 100 % Cotton	2	2	2	2	pair
LOGISTICS	PERSONAL BAG	Sweatshirt, Heavyweight	1	1	1	1	each
LOGISTICS	PERSONAL BAG	Cold weather system, including jacket, pants, fleece or fiberpile liners, socks, gator, gloves, knit cap, neoprene mask, expedition long underwear, and safety boot (ECWCS or equivalent) (+40 deg F to -60 deg F)	1	1	1	1	set

LOGISTICS	PERSONAL BAG	Personal Bag	Type I qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
LOGISTICS	PERSONAL BAG	Underwear, Long, medium weight, pair	1	1	1	1	pair
LOGISTICS	PERSONAL BAG	Socks, Boot	8	8	8	8	pair
LOGISTICS	PERSONAL BAG	T-shirt, with team logos, Long and/or Short sleeve	6	6	6	6	each
LOGISTICS	PERSONAL BAG	Toiletry kit, including all personal hygiene items, such as Chap Stick, soap, lotion, etc.	1	1	1	1	each
LOGISTICS	PERSONAL BAG	Respirator, half face piece, cartridge-type	1	1	1	1	each
LOGISTICS	PERSONAL BAG	Pouch, Personal tool with assorted tools (i.e., Screwdriver, crescent wrench, tin snips, and utility knife)	1	1	1	1	each
LOGISTICS	PERSONAL BAG	Guide, Field Operations, FEMA, US&R	1	1	1	1	each
LOGISTICS	PERSONAL BAG	Hood, fire retardant	1	1	1	1	each

SAFETY

LOGISTICS	SAFETY	Safety	Type I qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
LOGISTICS	SAFETY	Alarm Device, Audible, personal	84	84	42	28	each
LOGISTICS	SAFETY	Cartridge, Respirator, P100	300	300	150	75	pair
LOGISTICS	SAFETY	Detector, current, AC voltage detection-type,	8	8	4	2	each
LOGISTICS	SAFETY	Ear plugs, safety, disposable, style NRR 24, case	3	3	2	1	each
LOGISTICS	SAFETY	Extinguisher, fire, 10 lb., ABC-type	12	12	8	6	each
LOGISTICS	SAFETY	Glasses, Safety, shatter proof, with side shields and lanyard, for resupply	144	144	72	36	each
LOGISTICS	SAFETY	Goggles, safety, shatter proof	84	84	42	28	each
LOGISTICS	SAFETY	Headsets, hearing protection, muff style, NRR 29dB	12	12	8	6	each
LOGISTICS	SAFETY	Air horn, with hand pump	6	6	4	2	each
LOGISTICS	SAFETY	Meter, Weather/Wind	2	2	1	1	each
LOGISTICS	SAFETY	Light stick, Cyalume, Yellow, 12-hour duration, 500/case	1	1	1	1	case
LOGISTICS	SAFETY	Light stick, Cyalume, Green, 12-hour duration 500/case	1	1	1	1	case
LOGISTICS	SAFETY	Light stick, Cyalume, Red, 12-hour duration, 500/case	1	1	1	1	case
LOGISTICS	SAFETY	Light stick, Cyalume, Blue, 12-hour duration, 500/case	1	1	1	1	case
LOGISTICS	SAFETY	Line, utility, nylon shroud, 3mm x 100 yards, roll	7	7	5	3	roll
LOGISTICS	SAFETY	Masks, particle, non-toxic	450	450	225	113	each
LOGISTICS	SAFETY	Netting, mosquito, 32" x 84"	84	84	42	28	each
LOGISTICS	SAFETY	Pads, knee, heavy duty, pair, Spare	10	10	5	4	pair
LOGISTICS	SAFETY	Pads, elbow, heavy duty, pair, Spare	10	10	5	4	pair

LOGISTICS	SAFETY	Safety	Type I qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
LOGISTICS	SAFETY	Paint, spray, can, orange	48	48	24	12	each
LOGISTICS	SAFETY	Repellent, insect (for clothing), Pyrethrin base, 4 oz. Bottle	84	84	42	28	each
LOGISTICS	SAFETY	Repellent, insect, minimum 35% DEET content, towelettes, 50 per case	2	2	2	2	each
LOGISTICS	SAFETY	Sunscreen, SPF30, wipes, 50 per case	6	6	4	2	case
LOGISTICS	SAFETY	Tape, barrier, "Fireline" printed, roll	16	16	8	4	roll
LOGISTICS	SAFETY	Gloves, work, leather, sized as needed, pair, for resupply	100	100	50	25	pair
LOGISTICS	SAFETY	Tape, Gaffers, 3" x 60yds., Black, 16 rolls/case	2	2	2	2	case

SANITATION

LOGISTICS	SANITATION	Sanitation	Type I qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
LOGISTICS	SANITATION	Shelter, Shower, 2-stall System, in aluminum case	2	2	2	1	each
LOGISTICS	SANITATION	Shower caddy	4	4	4	2	each
LOGISTICS	SANITATION	Bag, Shower, dry	4	4	4	2	each
LOGISTICS	SANITATION	Toilet Paper, Rolls	48	48	24	12	each
LOGISTICS	SANITATION	Toilets, portable latrine system, utilizing bio-bags, with privacy shelter	7	7	5	3	each
LOGISTICS	SANITATION	Toilet, Brief Relief, Commode Kit	4	4	2	2	each
LOGISTICS	SANITATION	Toilet, Daily Restroom Kit, Brief Relief, 100/case	8	8	6	4	case
LOGISTICS	SANITATION	Towels, Disposable, bath size	2	2	2	2	case
LOGISTICS	SANITATION	Towelettes, moistened, antibacterial	2500	2500	1200	800	each
LOGISTICS	SANITATION	Bleach, liquid or granular	12	12	8	6	gal
LOGISTICS	SANITATION	Bath Wipes	400	400	200	100	each
LOGISTICS	SANITATION	Water Heater System, Multi Fuel	1	1	1	1	each
LOGISTICS	SANITATION	Sink, gang, 2 basin	2	2	2	1	each
LOGISTICS	SANITATION	Pump, Primary distribution	2	2	2	1	each
LOGISTICS	SANITATION	Bladder, water, potable, 500 Gallon	2	2	1	1	each
LOGISTICS	SANITATION	Bladder, water, gray, 500 Gallon	2	2	1	1	each
LOGISTICS	SANITATION	Purification System, Water, w/spare parts	2	2	1	1	each
LOGISTICS	SANITATION	Support kit, Potable and standard water distribution, in 64" X 20" X 22" Aluminum field case.	1	1	1	1	each
LOGISTICS	SANITATION	Support Kit, Gray water distribution, in 28" X 34" X 21" Aluminum field case.	1	1	1	1	each
LOGISTICS	SANITATION	Water test kit	5	5	3	2	each

SHELTER

LOGISTICS	SHELTER	Shelter	Type I qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
LOGISTICS	SHELTER	Blanket, polypro, navy blue or equivalent	84	84	42	28	each
LOGISTICS	SHELTER	Sacks, stuff-type (for sleeping bags)	84	84	42	28	each
LOGISTICS	SHELTER	Sheeting, Plastic, 6 mil, 20' foot x 100' feet, Clear	4	4	2	2	roll
LOGISTICS	SHELTER	Tent, 20' Octagon, w/high wind stake kit, insulation kit, floor system, roof vents, air plenum(s), ventilator fan, lighting & electrical system, vestibule, and TF Digital Roof Identifier	4	4	3	2	each
LOGISTICS	SHELTER	Case System, for 20' octagon tent system	4	4	3	2	each
LOGISTICS	SHELTER	Bag, Sleeping, general purpose, rated to 0 degrees, synthetic	84	84	42	28	each
LOGISTICS	SHELTER	Tents, up to 8-person size	20	20	10	8	each
LOGISTICS	SHELTER	Tent, 19' x 35', w/high wind stake kit, insulation kit, floor system, roof vents, air plenum(s), ventilator fans, lighting and electrical system, vestibule, and TF Digital Roof Identifier	5	5	3	2	each
LOGISTICS	SHELTER	Case system, for 19' x 35' tent system	5	5	3	2	each
LOGISTICS	SHELTER	Heater systems, clean air/heat exchanger, multi-fuel or electric, with accessories	5	5	3	2	each
LOGISTICS	SHELTER	Adapter, Intake, Provides Three-point J-slot collar for the intake of Indirect Fired Tri-Fuel Heater, 12-inch ducting may be attached	5	5	3	2	each
LOGISTICS	SHELTER	Hose, Input, 20'	5	5	3	2	each
LOGISTICS	SHELTER	Hose, Output, 20'	5	5	3	2	each
LOGISTICS	SHELTER	Thermostat, Control	5	5	3	2	each
LOGISTICS	SHELTER	Case, 34"x28"x21"Aluminum - Stores ducts, adapters and thermostat.	5	5	3	2	each
LOGISTICS	SHELTER	Boot, HVAC duct, 12" to 16" diameter	5	5	3	2	each
LOGISTICS	SHELTER	Wye Connector, (Use with LC-0111.00 to heat 2 tents w/1 heater)	5	5	3	2	each
LOGISTICS	SHELTER	Hose, Output, 20' (IN ADDITION TO LC-0111.03) used to heat 2 tents simultaneously	5	5	3	2	each
LOGISTICS	SHELTER	Cots or equivalent, sleeping	84	84	42	30	each
LOGISTICS	SHELTER	Air conditioner (HVAC), 3.5 ton to cool Shelters 42,000 BTU heater, Remote Thermostat, Recalculating intake adapter, Input hose, 20', Output hose, 20'	6	6	4	3	each
LOGISTICS	SHELTER	Air Conditioner, Portable OR Window Type, 110V, 10-12000 BTU (Optional Purchase)	16	16	8	4	each

TASK FORCE SUPPORT

LOGISTICS	TASK FORCE SUPPORT	Task Force Support	Type I qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
LOGISTICS	TASK FORCE SUPPORT	Cooler, insulated, 48-120 qt	8	8	4	4	each
LOGISTICS	TASK FORCE SUPPORT	Generator, 6500 / 7000 watt, auto idle, manual start, spark arrestor, overload protection, 20A and one 30A twist-lock receptacles, w/ wheel kit, Spark Plug, filters, tool kit	10	10	5	4	each
LOGISTICS	TASK FORCE SUPPORT	Generator, 5000W minimum, w/ welding kit, auto idle, manual start, spark arrestor, overload protection, wheel kit, Spark Plug, filters	1	1	1	0	each
LOGISTICS	TASK FORCE SUPPORT	Generator / Welder, Welding Kit Complete, includes 20' electrodes with lugs, standard welding helmet	1	1	1	0	each
LOGISTICS	TASK FORCE SUPPORT	Leads, Welding, Electrode and Ground Cable, #2 Cable, 60 ft.	1	1	1	0	each
LOGISTICS	TASK FORCE SUPPORT	Respirator, full face piece, welding / cutting	1	1	1	0	each
LOGISTICS	TASK FORCE SUPPORT	Welding Jacket, Size As Needed, Green	4	4	2	0	each
LOGISTICS	TASK FORCE SUPPORT	Glasses, Safety, shatter proof, with side shields and lanyards, must meet ANSI Z87.1-1989 standards	1	1	1	0	each
LOGISTICS	TASK FORCE SUPPORT	Gloves, Welding	1	1	1	0	each
LOGISTICS	TASK FORCE SUPPORT	Chisel w/Brush	1	1	1	0	each
LOGISTICS	TASK FORCE SUPPORT	Rod, Welding, 1/8"	5	5	5	0	each
LOGISTICS	TASK FORCE SUPPORT	Rod, Welding, 3/32"	5	5	5	0	each
LOGISTICS	TASK FORCE SUPPORT	Element, Pre-Filter and Air Cleaner, Generator / Welder	1	1	1	0	each
LOGISTICS	TASK FORCE SUPPORT	Spark Plug, Generator / Welder	1	1	1	0	each
LOGISTICS	TASK FORCE SUPPORT	Tool Kit, Generator / Welder	1	1	1	0	each
LOGISTICS	TASK FORCE SUPPORT	Megaphone, battery-type	2	2	1	1	each
LOGISTICS	TASK FORCE SUPPORT	Pump, trash, gasoline, 8 HP, 300+ GPM w/accessories listed below	1	1	1	1	each
LOGISTICS	TASK FORCE SUPPORT	Hose, Hard Suction, Trash Pump, 3", 20 foot	1	1	1	1	each
LOGISTICS	TASK FORCE SUPPORT	Hose, Discharge, Trash Pump, 3", 50 foot	1	1	1	1	each
LOGISTICS	TASK FORCE SUPPORT	Strainer, Trash Pump, 3"	1	1	1	1	each
LOGISTICS	TASK FORCE SUPPORT	Adapters, Trash Pump, 3" to 2.5" NST	3	3	3	3	each
LOGISTICS	TASK FORCE SUPPORT	Cap, Drain, Trash Pump, 25mm	2	2	2	2	each

LOGISTICS	TASK FORCE SUPPORT	Task Force Support	Type I qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
LOGISTICS	TASK FORCE SUPPORT	O-ring, Trash Pump, (3.5x23.7), (25mm)	2	2	2	2	each
LOGISTICS	TASK FORCE SUPPORT	Cap, Filler, Trash Pump, 32mm	1	1	1	1	each
LOGISTICS	TASK FORCE SUPPORT	O-ring, Trash Pump, (3.5x29.7) (32mm)	1	1	1	1	each
LOGISTICS	TASK FORCE SUPPORT	O-ring, Trash Pump, (5.7x239.3) (front cover gasket)	1	1	1	1	each
LOGISTICS	TASK FORCE SUPPORT	O-ring, Trash Pump, (3.53x215.49)	1	1	1	1	each
LOGISTICS	TASK FORCE SUPPORT	Element, Air Cleaner, Trash Pump	1	1	1	1	each
LOGISTICS	TASK FORCE SUPPORT	Filter, Trash Pump (outer)	1	1	1	1	each
LOGISTICS	TASK FORCE SUPPORT	Spark Plug, Trash Pump	1	1	1	1	each
LOGISTICS	TASK FORCE SUPPORT	Tool Kit, Trash Pump	2	2	2	2	each
LOGISTICS	TASK FORCE SUPPORT	Battery, D	144	144	72	36	each
LOGISTICS	TASK FORCE SUPPORT	Battery, C	144	144	72	36	each
LOGISTICS	TASK FORCE SUPPORT	Battery, AAA	144	144	72	36	each
LOGISTICS	TASK FORCE SUPPORT	Battery, AA	3024	3024	1512	756	each
LOGISTICS	TASK FORCE SUPPORT	Battery, 9 VOLT	144	144	72	36	each
LOGISTICS	TASK FORCE SUPPORT	Adapter, 20A, NEMA L5-20, twist lock female to 15A household 3-prong male	60	60	30	24	each
LOGISTICS	TASK FORCE SUPPORT	Adapter, 20A, NEMA L5-20, twist lock male to 15A household 3-prong female	60	60	30	24	each
LOGISTICS	TASK FORCE SUPPORT	Box, junction, w/(2) L5-20 Twist Outlets and (1) 5-20R Duplex Outlet, 10-3 inlet cord with L5-20 Plug, Circuit Protected, Power Indicator Light	16	16	8	8	each
LOGISTICS	TASK FORCE SUPPORT	Connector, 20A NEMA L5-20 Twist lock male	32	32	16	16	each
LOGISTICS	TASK FORCE SUPPORT	Connector, 20A NEMA L5-20 Twist lock female	32	32	16	16	each
LOGISTICS	TASK FORCE SUPPORT	Cord, extension, 12/3 single outlet, 100', w/L5-20 Plug and Connector	16	16	8	8	each
LOGISTICS	TASK FORCE SUPPORT	Cord, Extension, 12/3 SJOW, 50' w/L5-20 Plug and Connector	16	16	8	8	each
LOGISTICS	TASK FORCE SUPPORT	Cord, Extension, 10/3 SJOW, 100' w/L5-20 Plug and Connector	16	16	8	8	each
LOGISTICS	TASK FORCE SUPPORT	Keeper, Cord, Velcro	100	100	50	50	each
LOGISTICS	TASK FORCE SUPPORT	Keeper, Cord, Velcro coil "n" carry handle (cord-lox)	24	24	12	12	each
LOGISTICS	TASK FORCE SUPPORT	Cord, extension, 25 foot, 12 AWG (3 prong, Household type)	24	24	12	12	each
LOGISTICS	TASK FORCE SUPPORT	Cord, extension, 50 foot, 12 AWG (3 prong, Household type)	24	24	12	12	each

LOGISTICS	TASK FORCE SUPPORT	Task Force Support	Type I qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
LOGISTICS	TASK FORCE SUPPORT	Stand, Light, extendable, dual head, LED	8	8	4	4	each
LOGISTICS	TASK FORCE SUPPORT	Cord, 10/3 SOW 15', 2510-PW6P / 2410-CW6P	8	8	4	4	each
LOGISTICS	TASK FORCE SUPPORT	Cord, outlet - 6100 w/(2) DUP 5-20R 50' 2520PW6P	8	8	4	4	each
LOGISTICS	TASK FORCE SUPPORT	Cart, Light, generator w/EB3000 Honda generator, 2 - 500w telescoping lights w/switch, 2 - front mounted electrical receptacle with L5-20 inlets	2	2	2	0	each
LOGISTICS	TASK FORCE SUPPORT	Light, w/24" pigtail	2	2	2	0	each
LOGISTICS	TASK FORCE SUPPORT	Element, Air Cleaner, Light Cart Generator	2	2	2	0	each
LOGISTICS	TASK FORCE SUPPORT	Filter, Outer, Light Cart Generator	2	2	2	0	each
LOGISTICS	TASK FORCE SUPPORT	Spark Plug, Light Cart Generator	2	2	2	0	each
LOGISTICS	TASK FORCE SUPPORT	Tool Kit, Light Cart Generator	2	2	2	0	kit
LOGISTICS	TASK FORCE SUPPORT	Funnel Kit, 3 Piece Set	2	2	2	0	each
LOGISTICS	TASK FORCE SUPPORT	Charger, Battery 12VDC	2	2	2	0	each
LOGISTICS	TASK FORCE SUPPORT	Broom, Push, w/fiberglass handle, 24"	2	2	2	2	each
LOGISTICS	TASK FORCE SUPPORT	Wide area lighting system, elevated, compact, 110V, Minimum 100,000 lumen, capable of illuminating 30,000 sq. ft.	6	6	3	3	each
LOGISTICS	TASK FORCE SUPPORT	Tripod for Wide Area lighting system	6	6	3	3	each
LOGISTICS	TASK FORCE SUPPORT	Bag, Stuff, medium	20	20	20	20	each
LOGISTICS	TASK FORCE SUPPORT	Bag, Stuff, large	6	6	6	6	each
LOGISTICS	TASK FORCE SUPPORT	Bag, Stuff, Small	6	6	6	6	each
LOGISTICS	TASK FORCE SUPPORT	Generator, 3000 watt, w/ Optional wheel kit, Spark Plug, filters, parallel cable kit, maintenance tool kit	2	2	2	2	each
LOGISTICS	TASK FORCE SUPPORT	Work Area Rapid Deployment LED Lighting System, Spot or Scene (12 Total - Type Determined by TF)	12	12	12	6	each

WATER/FLUIDS

LOGISTICS	WATER / FLUIDS	Water/Fluids	Type I qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
LOGISTICS	WATER / FLUIDS	Electrolyte, solution, sticks, assorted flavors	1600	1600	800	400	each
LOGISTICS	WATER / FLUIDS	Water, bottled, 12-16 oz size, for individual use	600	600	300	200	Ga.

MEDICALADVANCED AIRWAY EQUIPMENT

MEDICAL	ADVANCED AIRWAY EQUIPMENT	Advanced Airway Equipment	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
MEDICAL	ADVANCED AIRWAY EQUIPMENT	Stylets, Endotracheal Tube, pediatric size	8	8	4	2	each
MEDICAL	ADVANCED AIRWAY EQUIPMENT	Detector, CO2, Endotracheal Tube, electronic	6	6	3	2	each
MEDICAL	ADVANCED AIRWAY EQUIPMENT	Adapter, Adult/PEDI, CO2 box/25	1	1	1	1	box
MEDICAL	ADVANCED AIRWAY EQUIPMENT	Securing Devices, Endotracheal Tube	12	12	6	3	each
MEDICAL	ADVANCED AIRWAY EQUIPMENT	Stylets, Endotracheal Tube, adult size	12	12	6	3	each
MEDICAL	ADVANCED AIRWAY EQUIPMENT	Tube, Endotracheal, 4.0	8	8	4	2	each
MEDICAL	ADVANCED AIRWAY EQUIPMENT	Tube, Endotracheal, 3.5	8	8	4	2	each
MEDICAL	ADVANCED AIRWAY EQUIPMENT	Tube, Endotracheal, 3.0	8	8	4	2	each
MEDICAL	ADVANCED AIRWAY EQUIPMENT	Tube, Endotracheal, 7.0	10	10	5	3	each
MEDICAL	ADVANCED AIRWAY EQUIPMENT	Tube, Endotracheal, 4.5	8	8	4	2	each
MEDICAL	ADVANCED AIRWAY EQUIPMENT	Tube, Endotracheal, 6.0	10	10	5	3	each
MEDICAL	ADVANCED AIRWAY EQUIPMENT	Tube, Endotracheal, 5.0	8	8	4	2	each
MEDICAL	ADVANCED AIRWAY EQUIPMENT	Tube, Endotracheal, 5.5	8	8	4	2	each
MEDICAL	ADVANCED AIRWAY EQUIPMENT	Tubes, Endotracheal, 8.0	10	10	5	3	each
MEDICAL	ADVANCED AIRWAY EQUIPMENT	Tube, Endotracheal, 10.0	2	2	1	1	each
MEDICAL	ADVANCED AIRWAY EQUIPMENT	ETT Heat-Moisture Exchangers, disposable	10	10	5	3	each
MEDICAL	ADVANCED AIRWAY EQUIPMENT	Forceps, Magill, Pediatric	9	9	6	3	each

MEDICAL	ADVANCED AIRWAY EQUIPMENT	Advanced Airway Equipment	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
MEDICAL	ADVANCED AIRWAY EQUIPMENT	Forceps, Magill, Adult	9	9	6	3	each
MEDICAL	ADVANCED AIRWAY EQUIPMENT	Handle, Laryngoscope, Fiberoptic, Non-Disposable, with batteries (C-cell)	2	2	1	1	each
MEDICAL	ADVANCED AIRWAY EQUIPMENT	Blade, Laryngoscope, fiberoptic, non-disposable, including: Macintosh #3, 4 Miller #0, 1, 2, 3, (Tactical Laryngoscope set)	2	2	1	1	sets
MEDICAL	ADVANCED AIRWAY EQUIPMENT	Handle, Laryngoscopy, Fiberoptic, Disposable	8	8	4	2	each
MEDICAL	ADVANCED AIRWAY EQUIPMENT	Blade, Laryngoscope, fiberoptic, disposable, including: Macintosh #3, 4 Miller #0, 1, 2, 3, (Tactical Laryngoscope set)	8	8	4	2	sets
MEDICAL	ADVANCED AIRWAY EQUIPMENT	Video Intubation Device, Laryngoscopy, non-rechargeable, w/necessary cables, complete w/blades	2	2	1	1	each
MEDICAL	ADVANCED AIRWAY EQUIPMENT	Valve, Positive End-Expiratory Pressure (PEEP), adjustable 0-15, disposable	12	12	6	3	each
MEDICAL	ADVANCED AIRWAY EQUIPMENT	Ventilator, Portable, Automatic Emergency, w/accessories & case	2	2	1	1	each
MEDICAL	ADVANCED AIRWAY EQUIPMENT	Circuit, Adult, Disposable, EMV+ AEV, Eagle II, 6 foot Length, Single Patient use (15 per case)	15	15	8	4	each
MEDICAL	ADVANCED AIRWAY EQUIPMENT	Whistle Airway Monitor	12	12	6	3	each
MEDICAL	ADVANCED AIRWAY EQUIPMENT	Airway, Non-visualized airway, Adult, LMA, or equiv.	6	6	3	2	each
MEDICAL	ADVANCED AIRWAY EQUIPMENT	Thoracostomy Procedure Kit	9	9	6	3	each
MEDICAL	ADVANCED AIRWAY EQUIPMENT	Cricothyroidotomy, Surgical, Kit	8	8	4	2	each
MEDICAL	ADVANCED AIRWAY EQUIPMENT	Vent Thoracic, Chest decompression	4	4	2	1	each
MEDICAL	ADVANCED AIRWAY EQUIPMENT	Escherman bougie/ Flex guide or equivalent	10	10	5	3	each

ANTIBIOTICS/ANTIFUNGALS

MEDICAL	ANTIBIOTICS / ANTIFUNGALS	Antibiotics/Antifungals	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
MEDICAL	ANTIBIOTICS / ANTIFUNGALS	Amoxicillin/Clavulanic Acid, 875 mg, (NDC 93227534)	100	100	50	25	tablets
MEDICAL	ANTIBIOTICS / ANTIFUNGALS	Bacitracin Ointment, 15gm tubes, TOP	48	48	24	12	tubes

MEDICAL	ANTIBIOTICS / ANTIFUNGALS	Antibiotics/Antifungals	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
MEDICAL	ANTIBIOTICS / ANTIFUNGALS	Hibiclens, 8oz bottle	8	8	4	2	bottle
MEDICAL	ANTIBIOTICS / ANTIFUNGALS	Betadine Ointment, packets or tubes	50	50	25	12	pkg
MEDICAL	ANTIBIOTICS / ANTIFUNGALS	Ceftriaxone, 1gm unit doses, IM or IV, (NDC 517871110)	16	16	8	4	each
MEDICAL	ANTIBIOTICS / ANTIFUNGALS	Cephalexin, 500mg, PO (NDC 93314701)	300	300	150	75	each
MEDICAL	ANTIBIOTICS / ANTIFUNGALS	Cephazolin, 1gm unit doses, IV, Vials (NDC 781345196)	25	25	12	6	vials
MEDICAL	ANTIBIOTICS / ANTIFUNGALS	Ciprofloxacin, 500mg, PO, (NDC 85175402)	400	400	200	100	tablets
MEDICAL	ANTIBIOTICS / ANTIFUNGALS	Clotrimazole / Lotrimin cream,	20	20	10	5	tubes
MEDICAL	ANTIBIOTICS / ANTIFUNGALS	Azithromycin, 500mg tab, PO, (NDC 93716956)	200	200	100	50	tablets
MEDICAL	ANTIBIOTICS / ANTIFUNGALS	Flagyl, 500mg unit dose, IV, or equivalent	10	10	5	3	vials
MEDICAL	ANTIBIOTICS / ANTIFUNGALS	Fungal Powder (Tinactin or equivalent), small cans, TOP	25	25	12	6	each
MEDICAL	ANTIBIOTICS / ANTIFUNGALS	Silver Sulfadiazine Cream, 1%, 50gm bottles, TOP (NDC 49884060036)	24	24	12	6	each
MEDICAL	ANTIBIOTICS / ANTIFUNGALS	Vancomycin, 1gm unit doses, IV (NDC 409653301)	12	12	6	3	vials
MEDICAL	ANTIBIOTICS / ANTIFUNGALS	Acetazolamide, 250mg, PO,	250	250	125	63	each
MEDICAL	ANTIBIOTICS / ANTIFUNGALS	Septra DS / Bactrim, tablets	100	100	50	25	each

BASIC AIRWAY EQUIPMENT

MEDICAL	BASIC AIRWAY EQUIPMENT	Basic Airway Equipment	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
MEDICAL	BASIC AIRWAY EQUIPMENT	Mask, Bag Valve, PEDI disposable, (ambu or equivalent)	4	4	2	2	each
MEDICAL	BASIC AIRWAY EQUIPMENT	Cannula, Nasal O2, Adult	25	25	12	6	each
MEDICAL	BASIC AIRWAY EQUIPMENT	Mask, Oxygen, pediatric, with tubing, 100% non-rebreather	6	6	3	2	each
MEDICAL	BASIC AIRWAY EQUIPMENT	Mask, Oxygen, 100% non-rebreather type with tubing	30	30	15	8	each
MEDICAL	BASIC AIRWAY EQUIPMENT	Airways, Nasopharyngeal, Kit, to include sizes 20 - 36	10	10	5	3	each
MEDICAL	BASIC AIRWAY EQUIPMENT	Nebulizer set ups, adult	50	50	25	12	each
MEDICAL	BASIC AIRWAY EQUIPMENT	Airways, Oropharyngeal, Kit	10	10	5	3	each
MEDICAL	BASIC AIRWAY EQUIPMENT	Tubing, Oxygen Extension, 25-50' starred lumen	6	6	3	2	each

MEDICAL	BASIC AIRWAY EQUIPMENT	Basic Airway Equipment	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
MEDICAL	BASIC AIRWAY EQUIPMENT	Tubing, Oxygen Extension, 7' starred lumen	6	6	3	2	each
MEDICAL	BASIC AIRWAY EQUIPMENT	Mask, Pocket Style, Emergency Resuscitation	84	84	42	28	each
MEDICAL	BASIC AIRWAY EQUIPMENT	Connectors, Oxygen Tubing, Double Male+A609	32	32	16	8	each
MEDICAL	BASIC AIRWAY EQUIPMENT	Tubing, Suction, spare	2	2	1	1	each
MEDICAL	BASIC AIRWAY EQUIPMENT	Canister, Suction, spare	2	2	1	1	each
MEDICAL	BASIC AIRWAY EQUIPMENT	Suction Unit, with Rechargeable battery and DC cord	2	2	1	1	each
MEDICAL	BASIC AIRWAY EQUIPMENT	Suction, Manual, with Tonsil-style tip	8	8	4	2	each
MEDICAL	BASIC AIRWAY EQUIPMENT	Valve, Diverter, 5-way, 2-15 LPM,	2	2	1	1	each
MEDICAL	BASIC AIRWAY EQUIPMENT	Case, Carrying case Oxygen D cylinder size, deluxe or EQ	7	7	5	3	each
MEDICAL	BASIC AIRWAY EQUIPMENT	Cylinder, oxygen, aluminum, D size (or 10 ea. Jumbo "D" cylinder)	14	14	10	6	each
MEDICAL	BASIC AIRWAY EQUIPMENT	Oxygen Regulator, with 2 Diss ports with check valves. 1 litter to 25 lpm flow rates.	7	7	5	3	each
MEDICAL	BASIC AIRWAY EQUIPMENT	Regulator, Compressed gas, SCBA (CGA 357) to DISS Port, 45-70 PSI	2	2	1	1	each
MEDICAL	BASIC AIRWAY EQUIPMENT	Catheter, Adult, Suction with Thumb Port 14FR	10	10	5	3	each
MEDICAL	BASIC AIRWAY EQUIPMENT	Catheter, Pedi, Suction with Thumb Port, 6 FR	6	6	3	1	each
MEDICAL	BASIC AIRWAY EQUIPMENT	Catheter, Adult, Suction Yaunker	10	10	5	3	each
MEDICAL	BASIC AIRWAY EQUIPMENT	Aero Chamber Spacer Device, or equivalent	8	8	4	2	each
MEDICAL	BASIC AIRWAY EQUIPMENT	Mask, Bag Valve, adult, disposable compact module	12	12	6	3	each

CANINE TREATMENT

MEDICAL	CANINE TREATMENT	Canine Treatment	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
MEDICAL	CANINE TREATMENT	Atropine eye drops	3	3	1	0	each
MEDICAL	CANINE TREATMENT	Dexamethasone, 2 mg/ml (100 ml vial) or another available amount	2	2	1	0	vial
MEDICAL	CANINE TREATMENT	Merck Veterinary Manual, 10th Edition or newer	1	1	1	0	each
MEDICAL	CANINE TREATMENT	Metasplint, Canine, sized to meet canine needs; (or equivalent Sam Splint) 6 total, 2 of each size - small, medium, large	6	6	3	0	each

MEDICAL	CANINE TREATMENT	Canine Treatment	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
MEDICAL	CANINE TREATMENT	Muzzle, adjustable, basket type, leather or nylon, 3 total - 1 each: medium, large, extra large	3	3	1	0	each
MEDICAL	CANINE TREATMENT	Vetwrap, 3" rolls, 12/box	1	1	1	0	box
MEDICAL	CANINE TREATMENT	Tape, Cloth, Porous, 1" rolls, 12/box	1	1	1	0	box
MEDICAL	CANINE TREATMENT	Tube, Stomach, K9, 4 total: 2 small, 2 medium	4	4	2	0	each
MEDICAL	CANINE TREATMENT	Acepromazine, 10mg/ml, 50 ml bottle, Vet use only	1	1	1	0	vial
MEDICAL	CANINE TREATMENT	Apomorphine, 6mg Tabs	8	8	4	0	each
MEDICAL	CANINE TREATMENT	Flagyl, 250mg, Tab (metronidazole) 100/bottle	2	2	1	0	bottle
MEDICAL	CANINE TREATMENT	Flagyl, 500mg, Tab (metronidazole) 100/bottle	2	2	1	0	bottle
MEDICAL	CANINE TREATMENT	Robitussin DM Syrup, 8oz.	2	2	1	0	each
MEDICAL	CANINE TREATMENT	Butorphanol, 10 mg vial (Torbugesic, 10 mg/ml), (Vet use only) (Optional Purchase)	6	6	3	0	vial
MEDICAL	CANINE TREATMENT	Antisedan, Injectable (atipamezole HCl), (Vet use only) (Optional Purchase)	2	2	1	0	vial
MEDICAL	CANINE TREATMENT	Domitor or Dexdomitor, Injectable (medetomidine HCl/Dexmedetomidine HCl), (Vet use only) (Optional Purchase)	2	2	1	0	vial
MEDICAL	CANINE TREATMENT	Shears or K9 clippers, Rechargeable, w/#40 Blade	1	1	1	0	each
MEDICAL	CANINE TREATMENT	Tramadol 50 mg Tablets, 100/btl (Ultram, Tramal)	1	1	1	0	bottle
MEDICAL	CANINE TREATMENT	Deramaxx Tablets, 100 mg, 90/btl, or equivalent (Rimadyl, Etogesic, Metacam, Piroxicam) (Vet use only) (Optional Purchase)	1	1	1	0	bottle
MEDICAL	CANINE TREATMENT	4-Methylprazole (Fomepizole) Antizol-Vet 1.5 ml vial	1	1	1	0	vial
MEDICAL	CANINE TREATMENT	Animax, 15 ml btl, or equivalent (Panalog, otomax 15 gm), (Vet use only) (Optional Purchase)	4	4	2	0	bottle or tube
MEDICAL	CANINE TREATMENT	Mask, Anesthesia Induction, Canine, Small	1	1	1	0	each
MEDICAL	CANINE TREATMENT	Mask, Anesthesia Induction, Canine, Large	1	1	1	0	each
MEDICAL	CANINE TREATMENT	Mask, Anesthesia Induction, Canine, Extra Large	1	1	1	0	each
MEDICAL	CANINE TREATMENT	Betagen Spray, 120 ml, or equivalent (antibiotic with steroid spray, like Gentocin spray with betamethasone), (Vet use only) (Optional Purchase)	1	1	1	0	bottle
MEDICAL	CANINE TREATMENT	Cast Padding, 3", 24/pkg	1	1	1	0	pkg
MEDICAL	CANINE TREATMENT	Neosporin w/ steroid Ophthalmic Oint, 3.5 gram (any triple antibiotic with steroid)	5	5	3	0	tubes

MEDICAL	CANINE TREATMENT	Canine Treatment	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
MEDICAL	CANINE TREATMENT	Neosporin w/o steroid Ophthalmic Oint, 3.5 gram (any triple antibiotic without steroid)	5	5	3	0	tubes
MEDICAL	CANINE TREATMENT	Euthanasia Solution, 100 ml/bottle, (Vet use only) (Optional Purchase)	1	1	1	0	bottle
MEDICAL	CANINE TREATMENT	Handbook, Drug Dose, Plumb, 6th edition or newer	1	1	1	0	each
MEDICAL	CANINE TREATMENT	Handbook, Toxicology and Poison	1	1	1	0	each
MEDICAL	CANINE TREATMENT	Powder, Styptic, 6 oz (42 grams) / bottle	2	2	1	0	each
MEDICAL	CANINE TREATMENT	Handbook, Emergency, BSAVA Manual of Canine and Feline Emergency and Critical Care, by Lesley G. King (Editor), Richard Hammond (Editor)	1	1	1	0	each
MEDICAL	CANINE TREATMENT	Shears, Trimming, battery operated	2	2	1	0	each
MEDICAL	CANINE TREATMENT	Trimmers, Nail, K9, Heavy Duty, (pliers style)	2	2	1	0	each
MEDICAL	CANINE TREATMENT	Cerenia (maropitant citrate) 10 mg/ml or (Zofran, Anzemet) 20 ml vial	1	1	1	0	vial
MEDICAL	CANINE TREATMENT	Cerenia tablets 60 mg, 4 tablets/box	3	3	1	0	box
MEDICAL	CANINE TREATMENT	Dexamethasone Na Phos 4 mg/ml; 100 ml/bottle	1	1	1	0	bottle
MEDICAL	CANINE TREATMENT	Suture, Synthetic, Absorbable, 2-0 monofilament, on an FS-1 cutting needle, (Polydioxanone (PDS, Maxon), polyglactone (Monocryl) 36/box	1	1	1	0	box
MEDICAL	CANINE TREATMENT	Glue, Tissue	4	4	2	0	each
MEDICAL	CANINE TREATMENT	Canine Probiotic, 15/box	1	1	1	0	each

CARDIAC CARE

MEDICAL	CARDIAC CARE	Cardiac Care Medications	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
MEDICAL	CARDIAC CARE	Adenosine 6mg/2cc vial	20	20	10	5	each
MEDICAL	CARDIAC CARE	Atropine Sulfate, 0.1mg/ml, 1mg amps, pre-filled	24	24	12	6	each
MEDICAL	CARDIAC CARE	Atropine Sulfate 0.4mg/ml, 20cc vial	40	40	20	10	each
MEDICAL	CARDIAC CARE	Calcium Chloride, Injection, 10%, 10mg amps, pre-filled	12	12	6	3	each
MEDICAL	CARDIAC CARE	Dobutamine, Injection, .25 mg amps, or equivalent pre-mix	2	2	1	1	each
MEDICAL	CARDIAC CARE	Dopamine, 40mg/ml, 200mg amps, or equivalent pre-mix	8	8	4	2	each
MEDICAL	CARDIAC CARE	Epinephrine, 1:10,000 (0.1mg/ml), 1mg amps, pre-filled	24	24	12	6	each
MEDICAL	CARDIAC CARE	Furosemide, 5mg/ml, 100mg vial	16	16	8	4	each

MEDICAL	CARDIAC CARE	Cardiac Care Medications	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
MEDICAL	CARDIAC CARE	Heparin, Injection, 1000units/ml, 10ml multi-dose vial	2	2	1	1	each
MEDICAL	CARDIAC CARE	Labetalol, Injection, 5/mg/ml, 100mg multi-dose vial	4	4	2	1	each
MEDICAL	CARDIAC CARE	Lidocaine, 200mg/ml, 1gm amps, or equivalent pre-mix	5	5	3	2	each
MEDICAL	CARDIAC CARE	Lidocaine, Injection, 5mg/ml, 100mg amps, pre-filled	14	14	7	4	each
MEDICAL	CARDIAC CARE	Nitroglycerin, 2%, Paste, 15gm tubes	2	2	1	1	each
MEDICAL	CARDIAC CARE	Nitroglycerine, 200 metered-dose sprays/bottle or 10 bottles of .4mg tablets	10	10	5	3	each
MEDICAL	CARDIAC CARE	Procainamide, Injection, 500mg/ml, 1g vials	4	4	2	1	each
MEDICAL	CARDIAC CARE	Sodium Bicarbonate, 1meq/ml, 50meq amps, pre-filled	50	50	25	12	each
MEDICAL	CARDIAC CARE	Amiodarone HCl (Cordarone) 150 mg vial	21	21	11	6	each
MEDICAL	CARDIAC CARE	Lovenox 150mg Vial	3	3	2	1	each
MEDICAL	CARDIAC CARE	Metoprolol 50 mg Tab	50	50	25	12	each
MEDICAL	CARDIAC CARE	Metoprolol 1mg/ml, 5ml Vial	12	12	6	3	each
MEDICAL	CARDIAC CARE	Diltiazem 25 mg vial	12	12	6	3	each
MEDICAL	CARDIAC CARE	Epinephrine, 1:1000, multi-dose 30cc vials, SC, (NDC 548906100)	5	5	2	2	bottle

EYES, EARS, NOSE, THROAT

MEDICAL	EYES, EARS, NOSE, THROAT	Eyes, Ears, Nose, Throat	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
MEDICAL	EYES, EARS, NOSE, THROAT	Lozenges, throat (Sucrets or equivalent), 30/pkg	6	6	3	2	pkg
MEDICAL	EYES, EARS, NOSE, THROAT	Spray, Oxymetazoline Nasal, 5cc bottles	14	14	7	4	each
MEDICAL	EYES, EARS, NOSE, THROAT	Treatment Epistaxis, Rhino rocket or EQ	4	4	2	1	each
MEDICAL	EYES, EARS, NOSE, THROAT	Solution, Gentamycin Ophthalmic, 3mg/ml, 5ml bottles, TOP	7	7	4	2	each
MEDICAL	EYES, EARS, NOSE, THROAT	Ointment, Gentamycin Ophthalmic, 3mg/g, 3.5g tubes, TOP	4	4	2	1	each
MEDICAL	EYES, EARS, NOSE, THROAT	Suspension, Antibiotic Otic, 15ml bottles, TOP	3	3	1	1	each
MEDICAL	EYES, EARS, NOSE, THROAT	Lamp, Exam, ultraviolet/visible, with magnifier, 110 VAC	1	1	1	1	each
MEDICAL	EYES, EARS, NOSE, THROAT	Solution, Eye Flush, 30cc btl	84	84	42	28	bottle
MEDICAL	EYES, EARS, NOSE, THROAT	Patches, Eye, Plastic	6	6	3	2	each
MEDICAL	EYES, EARS, NOSE, THROAT	Patches, Eye, cotton, individually wrapped	12	12	6	3	each
MEDICAL	EYES, EARS, NOSE, THROAT	Strips, Flourescein, (individually wrapped) (NDC 17478040401)	20	20	10	5	each

MEDICAL	EYES, EARS, NOSE, THROAT	Eyes, Ears, Nose, Throat	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
MEDICAL	EYES, EARS, NOSE, THROAT	Lens, Morgan Irrigation	6	6	3	2	each
MEDICAL	EYES, EARS, NOSE, THROAT	Atropine 1% eye drop, 5cc bottle	4	4	2	1	each
MEDICAL	EYES, EARS, NOSE, THROAT	Topical Ophthalmic Anesthetic, 2 ml bottles or unidose equivalent of Tetracaine (NDC 24208092064)	20	20	10	5	each

IMMUNIZATIONS/IMMUNE GLOBULIN

MEDICAL	IMMUNIZATIONS / IMMUNE GLOBULIN	Immunizations / Immune Globulin	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
MEDICAL	IMMUNIZATIONS / IMMUNE GLOBULIN	Hepatitis B Immune Globulin, 5ml vials (NDC 58160082111)	2	2	1	1	each
MEDICAL	IMMUNIZATIONS / IMMUNE GLOBULIN	Rabies Immune Globulin-Human, 1500IU, 10ml vials (NDC 5390505101)	2	2	1	1	each
MEDICAL	IMMUNIZATIONS / IMMUNE GLOBULIN	Rabies Vaccine (Human Diploid Cell), 1ml/unit dose (NDC 49281025010)	4	4	2	2	each
MEDICAL	IMMUNIZATIONS / IMMUNE GLOBULIN	TDAP/tetanus Adacel 0.5 ml SDV (NDC 492810400010)	5	5	3	3	each

INTRAVENOUS ACCESS/ADMINISTRATION

MEDICAL	INTRAVENOUS ACCESS / ADMINISTRATION	Intravenous Access / Administration	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
MEDICAL	INTRAVENOUS ACCESS / ADMINISTRATION	Wipes, Alcohol, 200/box	2	2	1	1	box
MEDICAL	INTRAVENOUS ACCESS / ADMINISTRATION	Pads, Betadine Prep, 100/pk	2	2	1	1	box
MEDICAL	INTRAVENOUS ACCESS / ADMINISTRATION	Catheter, IV, 14g (E.S.I.P.)	50	50	25	12	each
MEDICAL	INTRAVENOUS ACCESS / ADMINISTRATION	Catheter, IV, 22g (E.S.I.P.)	50	50	25	12	each
MEDICAL	INTRAVENOUS ACCESS / ADMINISTRATION	Catheter, IV, 24g (E.S.I.P.)	50	50	25	12	each
MEDICAL	INTRAVENOUS ACCESS / ADMINISTRATION	Catheter, IV, 20g (E.S.I.P.)	50	50	25	12	each

MEDICAL	INTRAVENOUS ACCESS / ADMINISTRATION	Intravenous Access / Administration	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
MEDICAL	INTRAVENOUS ACCESS / ADMINISTRATION	Catheter, IV, 18g (E.S.I.P.)	50	50	25	12	each
MEDICAL	INTRAVENOUS ACCESS / ADMINISTRATION	Catheter, IV, 16g (E.S.I.P.)	50	50	25	12	each
MEDICAL	INTRAVENOUS ACCESS / ADMINISTRATION	Central Venous Access Kits, Arrow, Triple Lumen, Pediatric	4	4	2	2	each
MEDICAL	INTRAVENOUS ACCESS / ADMINISTRATION	Central Venous Access Kits Arrow, Triple Lumen, Adult	4	4	2	2	each
MEDICAL	INTRAVENOUS ACCESS / ADMINISTRATION	Container, Sharp-Object Disposal, large size	2	2	1	1	each
MEDICAL	INTRAVENOUS ACCESS / ADMINISTRATION	Container, Sharp-Object Disposal, individual size	24	24	12	6	each
MEDICAL	INTRAVENOUS ACCESS / ADMINISTRATION	Needle, Scalp Vein, 19g	15	15	8	4	each
MEDICAL	INTRAVENOUS ACCESS / ADMINISTRATION	Tape, Cloth 2"	6	6	3	3	each
MEDICAL	INTRAVENOUS ACCESS / ADMINISTRATION	Tape, IV site cover, 50/pkg	2	2	2	2	pkg
MEDICAL	INTRAVENOUS ACCESS / ADMINISTRATION	Tourniquets for IV starts, disposable	100	100	50	25	each
MEDICAL	INTRAVENOUS ACCESS / ADMINISTRATION	Buretrol Sets	6	6	3	2	each
MEDICAL	INTRAVENOUS ACCESS / ADMINISTRATION	Tubing, IV, Coiled, 10gts/cc, Tactical	18	18	9	6	each
MEDICAL	INTRAVENOUS ACCESS / ADMINISTRATION	IV Set Ups, Multifunction Tubing, (Select 3)	48	48	24	12	each
MEDICAL	INTRAVENOUS ACCESS / ADMINISTRATION	Labels, Medication Added	30	30	15	8	each
MEDICAL	INTRAVENOUS ACCESS / ADMINISTRATION	Needle, 22g, 100/pkg	1	1	1	1	pkg
MEDICAL	INTRAVENOUS ACCESS / ADMINISTRATION	Needle, 18g, 100/pkg	1	1	1	1	pkg
MEDICAL	INTRAVENOUS ACCESS / ADMINISTRATION	Needle, 27g, 100/pkg	1	1	1	1	pkg
MEDICAL	INTRAVENOUS ACCESS / ADMINISTRATION	Normal Saline, 10cc plastic vials (for reconstitution)	28	28	14	7	each

MEDICAL	INTRAVENOUS ACCESS / ADMINISTRATION	Intravenous Access / Administration	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
MEDICAL	INTRAVENOUS ACCESS / ADMINISTRATION	Pumps, Manual Fluid Infusion, disposable	16	16	8	4	each
MEDICAL	INTRAVENOUS ACCESS / ADMINISTRATION	Lock, Saline	48	48	24	12	each
MEDICAL	INTRAVENOUS ACCESS / ADMINISTRATION	Syringe, Luerlock, 30cc (w/E.S.I.P.) 25/box	1	1	1	1	box
MEDICAL	INTRAVENOUS ACCESS / ADMINISTRATION	Holder, Syringe, Tubex-type (Carpject)	10	10	5	3	each
MEDICAL	INTRAVENOUS ACCESS / ADMINISTRATION	Syringe, Luer Lock, 10cc	50	50	25	12	each
MEDICAL	INTRAVENOUS ACCESS / ADMINISTRATION	Syringe, Luerlock, 1cc, (w/E.S.I.P), 100/pkg	1	1	1	1	pkg
MEDICAL	INTRAVENOUS ACCESS / ADMINISTRATION	Syringe, Luerlock, 3cc, (w/E.S.I.P) 25/pkg	1	1	1	1	pkg
MEDICAL	INTRAVENOUS ACCESS / ADMINISTRATION	IV Insulating and Warming Kits (Safe and Warm or equivalent)	6	6	3	2	each
MEDICAL	INTRAVENOUS ACCESS / ADMINISTRATION	IV Set Up, Dial-A-Flow	7	7	4	3	each
MEDICAL	INTRAVENOUS ACCESS / ADMINISTRATION	Tube, Red Top, 7ml	1	1	1	1	pkg
MEDICAL	INTRAVENOUS ACCESS / ADMINISTRATION	Tube, Holder, Blood Collection	4	4	2	2	each
MEDICAL	INTRAVENOUS ACCESS / ADMINISTRATION	Intraosseous EZIO Handle Kit,	2	2	1	1	each
MEDICAL	INTRAVENOUS ACCESS / ADMINISTRATION	Needle, Intraosseous, EZIO, Adult, 25mm needle with stabilizer	10	10	5	3	each
MEDICAL	INTRAVENOUS ACCESS / ADMINISTRATION	Needle, Intraosseous, EZIO, Pediatric, 15mm with stabilizer	10	10	5	3	each
MEDICAL	INTRAVENOUS ACCESS / ADMINISTRATION	Needle, Intraosseous, EZIO, LD, 45mm with stabilizer	10	10	5	3	each
MEDICAL	INTRAVENOUS ACCESS / ADMINISTRATION	Cannula, Blunt	100	100	50	25	each
MEDICAL	INTRAVENOUS ACCESS / ADMINISTRATION	Pump, IV Fluid, AAA Battery Powered, (less then 2 lbs.)	4	4	2	2	each
MEDICAL	INTRAVENOUS ACCESS / ADMINISTRATION	Pump, IV Fluid, Cartridge,	20	20	10	5	each

INTRAVENOUS FLUIDS/VOLUME EXPANDERS

MEDICAL	INTRAVENOUS FLUIDS / VOLUME EXPANDERS	Intravenous Fluids / Volume Expanders	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
MEDICAL	INTRAVENOUS FLUIDS / VOLUME EXPANDERS	D5 1/2 Normal Saline, 1000cc	28	28	15	8	each
MEDICAL	INTRAVENOUS FLUIDS / VOLUME EXPANDERS	D5W 100 or 150 ml bags	15	15	8	4	each
MEDICAL	INTRAVENOUS FLUIDS / VOLUME EXPANDERS	Normal Saline, 1000cc	70	70	35	18	each
MEDICAL	INTRAVENOUS FLUIDS / VOLUME EXPANDERS	Normal Saline, 100 or 150 ml bags	15	15	8	4	each

MISCELLANEOUS MEDICATIONS

MEDICAL	MISCELLANEOUS MEDICATIONS	Miscellaneous Medications	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
MEDICAL	MISCELLANEOUS MEDICATIONS	Charcoal, activated, 50 gr tube	5	5	2	2	each
MEDICAL	MISCELLANEOUS MEDICATIONS	H2 Blocker, e.g.Cimetadine, PO	100	100	50	25	tablets
MEDICAL	MISCELLANEOUS MEDICATIONS	Insulin, Regular Human, Injection, 100u vials, IV/SC	2	2	2	2	each
MEDICAL	MISCELLANEOUS MEDICATIONS	Magnesium Sulfate 50%, 5gm/10ml, vials (NDC 517261025)	6	6	3	3	each
MEDICAL	MISCELLANEOUS MEDICATIONS	Mannitol, 25%, 12.5gm/50ml amp vials, IV (NDC 409403101)	10	10	5	3	each
MEDICAL	MISCELLANEOUS MEDICATIONS	Phenytoin, Injection, 50mg/ml, 1gm vials, IV	2	2	1	1	each
MEDICAL	MISCELLANEOUS MEDICATIONS	Phenytoin, 100mg, PO, (NDC 10019051001)	30	30	15	8	each
MEDICAL	MISCELLANEOUS MEDICATIONS	Polystyrene Resin (Kayexalate), 1 lb. jar, PO, or equivalent	1	1	1	1	each
MEDICAL	MISCELLANEOUS MEDICATIONS	Pralidoxime, 1gm vials (NDC 60977014101)	30	30	15	8	each
MEDICAL	MISCELLANEOUS MEDICATIONS	Truvada, 300mg (TENOFADIR/EMTRICITABINE) or current CDC recommendation	30	30	15	8	tablets
MEDICAL	MISCELLANEOUS MEDICATIONS	Isentress (RALTEGRAVIR), 400mg or current CDC recommendation	60	60	30	15	tablets
MEDICAL	MISCELLANEOUS MEDICATIONS	Etomidate, 2mg/ml, 20mg vial (NDC 74669502)	10	10	5	3	each
MEDICAL	MISCELLANEOUS MEDICATIONS	Diphenhydramine, 25mg, PO,	100	100	50	25	each
MEDICAL	MISCELLANEOUS MEDICATIONS	Diphenhydramine, Injection, 50mg/ml, 50mg vials, IM/IV, (NDC 641037625)	16	16	8	4	vials
MEDICAL	MISCELLANEOUS MEDICATIONS	Dextrose, 50%, 25gm amps, pre-filled	20	20	10	5	each
MEDICAL	MISCELLANEOUS MEDICATIONS	Naloxone, 1mg/ml, 2mg vial	10	10	5	3	vials

MEDICAL	MISCELLANEOUS MEDICATIONS	Miscellaneous Medications	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
MEDICAL	MISCELLANEOUS MEDICATIONS	Fexofenadine, 180mg, PO, (NDC 93725201)	100	100	50	25	each

MISCELLANEOUS SUPPLIES

MEDICAL	MISCELLANEOUS SUPPLIES	Miscellaneous Supplies	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
MEDICAL	MISC SUPPLIES	Sanitary Pads, box	1	1	1	1	box
MEDICAL	MISC SUPPLIES	Bag, bio hazard, for medical waste	50	50	25	12	each
MEDICAL	MISC SUPPLIES	Bag, Body, with handles and zippers (non-translucent)	10	10	5	3	each
MEDICAL	MISC SUPPLIES	Clipboards, metal bound, with storage pockets	3	3	2	2	each
MEDICAL	MISC SUPPLIES	Disinfectant, 1 gallon bottle (Cidex or equivalent)	2	2	1	1	each
MEDICAL	MISC SUPPLIES	Markers, felt tip, black, permanent	12	12	6	3	each
MEDICAL	MISC SUPPLIES	Back Pack, Large (Thomas or Conterra or EQ)	7	7	4	2	each
MEDICAL	MISC SUPPLIES	Pens, black, 12/pkg.	4	4	2	1	each
MEDICAL	MISC SUPPLIES	Personal Waist Packs, fanny pack, ski patrol-style	6	6	3	2	each
MEDICAL	MISC SUPPLIES	Refrigerator, Small, AC / DC Compatible, digital thermostat with transit bag, for storing medications at 38 degrees	1	1	1	1	each
MEDICAL	MISC SUPPLIES	Power strip, surge protector, 6 outlet with surge protection	12	12	6	3	each
MEDICAL	MISC SUPPLIES	Clinical Procedures in Emergency Medicine, Roberts and Hedges	1	1	1	1	each
MEDICAL	MISC SUPPLIES	Pocketbook, Tarascon Pediatric Emergency (or equivalent)	3	3	2	1	each
MEDICAL	MISC SUPPLIES	Pocketbook, Tarascon Adult Emergency (or equivalent)	3	3	2	1	each
MEDICAL	MISC SUPPLIES	Pocketbook, Tarascon, Med and Critical Care (or equivalent)	3	3	2	1	each
MEDICAL	MISC SUPPLIES	Pharmacopeia, Pocket, Tarascon (or equivalent)	3	3	2	1	each
MEDICAL	MISC SUPPLIES	Box, Shipping, for blood draw tubes, with absorbent (box shall be compliant with current Title 49, CFR regulations in regard to shipping biohazard/infectious hazard materials) 10 per case	4	4	2	1	cs
MEDICAL	MISC SUPPLIES	Pack, Recon, Small	3	3	2	1	each
MEDICAL	MISC SUPPLIES	Pocketbook, Transcon, Internal Medicine, or equivalent	4	4	2	1	each
MEDICAL	MISC SUPPLIES	Bag, Resealable, (sandwich size) 50/box	1	1	1	1	box

PAIN MEDICATIONS

MEDICAL	PAIN MEDICATIONS	Pain Medications	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
MEDICAL	PAIN MEDICATIONS	Acetaminophen, 325mg tablets, PO	500	500	250	125	tablets
MEDICAL	PAIN MEDICATIONS	Aspirin, 325mg tablets, PO	300	300	150	75	tablets
MEDICAL	PAIN MEDICATIONS	Ibuprofen, 800mg tablets, PO (may purchase alternative dose of 200mg or 400mg.)	1000	1000	500	250	each
MEDICAL	PAIN MEDICATIONS	Morphine Sulfate, 10 mg injectable, (NDC 10019017844)	50	50	25	12	vials
MEDICAL	PAIN MEDICATIONS	Oxycodone, 5mg/Acetaminophen, 325mg tablets, PO	200	200	100	50	tablets
MEDICAL	PAIN MEDICATIONS	Ketorolac, 30 mg/ml Single dose vial, IV, IM (NDC 409228761)	20	20	10	5	each
MEDICAL	PAIN MEDICATIONS	Diprivan /Propofol 10mg/ml 100 ml vial	10	10	5	3	bottle

PATIENT ASSESSMENT/GENERAL CARE

MEDICAL	PATIENT ASSESSMENT / GENERAL CARE	Patient Assessment / General Care	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
MEDICAL	PATIENT ASSESSMENT CARE / GENERAL	Blankets, Mylar Space or equivalent	50	50	25	12	each
MEDICAL	PATIENT ASSESSMENT CARE / GENERAL	BP Cuff, pediatric (Semi-Disposable)	7	7	4	2	each
MEDICAL	PATIENT ASSESSMENT CARE / GENERAL	BP Manometers	10	10	5	3	each
MEDICAL	PATIENT ASSESSMENT CARE / GENERAL	BP Cuff, adult (Semi-Disposable)	10	10	5	3	each
MEDICAL	PATIENT ASSESSMENT CARE / GENERAL	BP Cuff, obese/thigh with Manometers	2	2	1	1	each
MEDICAL	PATIENT ASSESSMENT CARE / GENERAL	Swabs, cotton, sterile, long, wrapped pairs	50	50	25	12	each
MEDICAL	PATIENT ASSESSMENT CARE / GENERAL	Electrodes, Cardiac Monitor, disposable, 4/pkg, 10 pkg/bx	5	5	3	2	box
MEDICAL	PATIENT ASSESSMENT CARE / GENERAL	Form, Patient Encounter	100	100	50	25	each
MEDICAL	PATIENT ASSESSMENT CARE / GENERAL	Catheter, Foley, Prep Trays and Collection Bags (10 French Ped)	4	4	2	2	each
MEDICAL	PATIENT ASSESSMENT CARE / GENERAL	Catheter, Foley, Prep Trays and Collection Bags (16 French)	4	4	2	2	each

MEDICAL	PATIENT ASSESSMENT / GENERAL CARE	Patient Assessment / General Care	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
MEDICAL	PATIENT ASSESSMENT CARE / GENERAL	Hemocult Slides and Developer (or equivalent), box	1	1	1	1	each
MEDICAL	PATIENT ASSESSMENT CARE / GENERAL	Jelly, Lubricant, single use packets	50	50	25	12	each
MEDICAL	PATIENT ASSESSMENT CARE / GENERAL	Tubes, NG, Adult, 18 French	4	4	2	2	each
MEDICAL	PATIENT ASSESSMENT CARE / GENERAL	Tubes, NG, Pediatric, 8 French	4	4	2	2	each
MEDICAL	PATIENT ASSESSMENT CARE / GENERAL	Scissors, Trauma Dressing, disposable, pair	18	18	9	5	pair
MEDICAL	PATIENT ASSESSMENT CARE / GENERAL	Stethoscopes	10	10	5	3	each
MEDICAL	PATIENT ASSESSMENT CARE / GENERAL	Syringe, Irrigation Tip, 60cc	20	20	10	5	each
MEDICAL	PATIENT ASSESSMENT CARE / GENERAL	Thermometers, oral, electronic	2	2	1	1	each
MEDICAL	PATIENT ASSESSMENT CARE / GENERAL	Tongue Depressors, sterile, individually wrapped, box	1	1	1	1	box
MEDICAL	PATIENT ASSESSMENT CARE / GENERAL	Triage Tags (Dept. of Transportation-type) 50/pkg	2	2	1	1	pkg
MEDICAL	PATIENT ASSESSMENT CARE / GENERAL	Urine Multi-stix (or equivalent), 100 Strips/Pkg	2	2	1	1	pkg
MEDICAL	PATIENT ASSESSMENT CARE / GENERAL	Urinal	2	2	1	1	each
MEDICAL	PATIENT ASSESSMENT CARE / GENERAL	Bed Pan, Fracture	2	2	1	1	each
MEDICAL	PATIENT ASSESSMENT CARE / GENERAL	Cot, Patient, Surgical Medical, Waist Level	4	4	2	2	each
MEDICAL	PATIENT ASSESSMENT CARE / GENERAL	Ice Packs, Gel, 6 x 9 Reusable	10	10	5	3	each
MEDICAL	PATIENT ASSESSMENT CARE / GENERAL	Ice Packs, Gel, 6 x 9 Reusable	10	10	5	3	each
MEDICAL	PATIENT ASSESSMENT CARE / GENERAL	Tube, Chest, 10 FR	2	2	1	1	each
MEDICAL	PATIENT ASSESSMENT CARE / GENERAL	Tube, Chest, 36 FR	2	2	1	1	each

MEDICAL	PATIENT ASSESSMENT / GENERAL CARE	Patient Assessment / General Care	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
MEDICAL	PATIENT ASSESSMENT CARE / GENERAL	Tube, Chest, 20 FR	2	2	1	1	each
MEDICAL	PATIENT ASSESSMENT CARE / GENERAL	Tube, Chest, 32 FR	2	2	1	1	each
MEDICAL	PATIENT ASSESSMENT CARE / GENERAL	Fan, Room (for treating heat illness), large	4	4	2	2	each
MEDICAL	PATIENT ASSESSMENT CARE / GENERAL	Heimlich Valves or equivalent	12	12	6	3	each
MEDICAL	PATIENT ASSESSMENT CARE / GENERAL	Obstetrics Kit, disposable with ear bulb syringe	2	2	1	1	each
MEDICAL	PATIENT ASSESSMENT CARE / GENERAL	Plastic Fluid Collection Bags (for chest tubes)	12	12	6	3	each
MEDICAL	PATIENT ASSESSMENT CARE / GENERAL	Pleurevac Chambers or equivalent	4	4	2	1	each
MEDICAL	PATIENT ASSESSMENT CARE / GENERAL	Tissues, Facial, (pocket packs)	50	50	25	12	pkg
MEDICAL	PATIENT ASSESSMENT CARE / GENERAL	Bottles, Spray or Misting	2	2	1	1	each
MEDICAL	PATIENT ASSESSMENT CARE / GENERAL	Corpsman, Kit, Field, ENT, Basic or equivalent	4	4	2	1	each
MEDICAL	PATIENT ASSESSMENT CARE / GENERAL	Corpsman, Kit, Field, Deluxe, ENT	2	2	1	1	each
MEDICAL	PATIENT ASSESSMENT CARE / GENERAL	Glucometer	7	7	4	2	each
MEDICAL	PATIENT ASSESSMENT CARE / GENERAL	Glucometer, patient test strips	1	1	1	1	box
MEDICAL	PATIENT ASSESSMENT CARE / GENERAL	Glucometer, QA solution	1	1	1	1	each
MEDICAL	PATIENT ASSESSMENT CARE / GENERAL	Lancet, for use with Glucometer, box of 100	1	1	1	1	box
MEDICAL	PATIENT ASSESSMENT CARE / GENERAL	Chest Tube Kit	4	4	2	1	each
MEDICAL	PATIENT ASSESSMENT CARE / GENERAL	Hypothermia Wrap	6	6	3	2	each

PATIENT COMFORT MEDICATIONS

MEDICAL	PATIENT COMFORT MEDICATIONS	Patient Comfort Medications	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
MEDICAL	PATIENT COMFORT MEDICATIONS	Antacid/Simethicone, PO	250	250	125	63	each
MEDICAL	PATIENT COMFORT MEDICATIONS	Zofran tablets, 4 mg	90	90	45	23	tablets
MEDICAL	PATIENT COMFORT MEDICATIONS	Ducusate Sodium 100mg or equivalent	50	50	25	12	tablets
MEDICAL	PATIENT COMFORT MEDICATIONS	Hemorrhoidal Rectal Suppositories (Anusol HC or equivalent)	10	10	5	3	each
MEDICAL	PATIENT COMFORT MEDICATIONS	Pseudoephedrine, 60mg tablets, PO, (NDC 93725201)	200	200	100	50	tablets
MEDICAL	PATIENT COMFORT MEDICATIONS	Transdermal Patch/Scopolamine, 1.5 mg	10	10	5	3	each
MEDICAL	PATIENT COMFORT MEDICATIONS	Bisacodyl, (Dulcolax), 5mg, PO	20	20	10	5	each
MEDICAL	PATIENT COMFORT MEDICATIONS	Powder, Gold Bond, or equivalent, 4oz bottle	12	12	6	3	bottle
MEDICAL	PATIENT COMFORT MEDICATIONS	Ondansetron (Zofran), 2ml vital, (NDC 409475503)	50	50	25	12	each

PATIENT IMMOBILIZATION EXTRICATION

MEDICAL	PATIENT IMMOBILIZATION / EXTRICATION	Patient Immobilization / Extrication	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
MEDICAL	PATIENT IMMOBILIZATION / EXTRICATION	Collars, Cervical, Pediatric	8	8	4	2	each
MEDICAL	PATIENT IMMOBILIZATION / EXTRICATION	Collars, Cervical, adjustable	16	16	8	4	each
MEDICAL	PATIENT IMMOBILIZATION / EXTRICATION	Tape, Duct	4	4	2	2	each
MEDICAL	PATIENT IMMOBILIZATION / EXTRICATION	Backboard, Full, w/ vertical lift capability	2	2	2	2	each
MEDICAL	PATIENT IMMOBILIZATION / EXTRICATION	Backboard Half, confined space immobilization, c-spine	2	2	2	2	each
MEDICAL	PATIENT IMMOBILIZATION / EXTRICATION	Head Beds, disposable, adult	10	10	5	5	each

MEDICAL	PATIENT IMMOBILIZATION / EXTRICATION	Patient Immobilization / Extrication	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
MEDICAL	PATIENT IMMOBILIZATION / EXTRICATION	Longboards, Stokes Compatible, Floating Type, w/Straps	4	4	2	2	each
MEDICAL	PATIENT IMMOBILIZATION / EXTRICATION	Board, Immobilization, Pediatric, complete w/bag	2	2	1	1	each
MEDICAL	PATIENT IMMOBILIZATION / EXTRICATION	Straps, Backboard, 9 ft., nylon (Spider Strap)	12	12	6	3	each

PATIENT MONITOR

MEDICAL	PATIENT MONITOR	Patient Monitoring	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
MEDICAL	PATIENT MONITOR	Charger, for Defibrillator/Monitor LP 15	2	2	2	1	each
MEDICAL	PATIENT MONITOR	Battery, Lithium, for Defibrillator/Monitor LP 15	14	14	7	4	each
MEDICAL	PATIENT MONITOR	Defibrillator / Monitor, 12 Lead Capability, Defib, CPR, Pace, 12 Lead, SP02, NIBP, CO2 w/Carry Bags and Pouches, Shoulder Strap	2	2	2	1	each
MEDICAL	PATIENT MONITOR	Case, Protective for LP 15	2	2	2	1	each
MEDICAL	PATIENT MONITOR	ECG paper for LP 15	12	12	6	3	roll
MEDICAL	PATIENT MONITOR	Monitor, Electrolyte, portable, Na, K, PC02, PO2, HET Unit, Military Kit w/Ballistic Case (iStat or equivalent) (OPTIONAL PURCHASE)	1	1	1	1	each
MEDICAL	PATIENT MONITOR	Cartridges, Electrolyte monitor, (OPTIONAL PURCHASE)	1	1	1	1	box
MEDICAL	PATIENT MONITOR	Cartridges, Electrolyte monitor, (OPTIONAL PURCHASE)	1	1	1	1	box
MEDICAL	PATIENT MONITOR	Monitor, Vital Signs, Compact, Battery powered, AC adaptor, cuffs for large adult, adult, child and infant. Features; Non-Invasive BP, Pulse Ox, EKG, MAP, temperature with 12 lead cap	2	2	1	1	each
MEDICAL	PATIENT MONITOR	Defibrillator, Automatic External, Automatic, 3 Lead Monitoring Capable, under 5 lbs. with battery, ECG Display, and memory capture (see specification list)	6	6	3	2	each
MEDICAL	PATIENT MONITOR	Defibrillator, Automatic External, Automatic, Pads	50	50	25	12	each
MEDICAL	PATIENT MONITOR	Cardiac Monitor, Compact	2	2	1	1	each
MEDICAL	PATIENT MONITOR	CO Oximeter, Handheld, w/SpO2, and Operator's Manual	2	2	1	1	each
MEDICAL	PATIENT MONITOR	Sensor, Reusable, Adult, 3', (SpO2, SPCO, and SPMet), Rad 57 Oximeter	4	4	2	1	each
MEDICAL	PATIENT MONITOR	Sensor, Reusable Pediatric Rad 57, Oximeter	4	4	2	1	each

MEDICAL	PATIENT MONITOR	Patient Monitoring	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
MEDICAL	PATIENT MONITOR	Cable, Extension 8', for Reusable Sensor (SpO2, SPCO, and SPMet), Rad 57 Oximeter	4	4	2	1	each
MEDICAL	PATIENT MONITOR	Case, Protective, Water Resistant, RAD 57 Oximeter	2	2	2	1	each

PATIENT/PERSONAL PROTECTION

MEDICAL	PATIENT / PERSONAL PROTECTION	Patient / Personal Protection	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
MEDICAL	PATIENT / PERSONAL PROTECTION	Aprons, Plastic, disposable, light weight, 100/roll	1	1	1	1	rolls
MEDICAL	PATIENT / PERSONAL PROTECTION	Boot Covers, (to protect safety boots from body fluids), disposable, pair	100	100	50	25	pair
MEDICAL	PATIENT / PERSONAL PROTECTION	Hot Packs - disposable	20	20	10	5	each
MEDICAL	PATIENT / PERSONAL PROTECTION	Suits, Impermeable, w/ plastic/rubber boots, disposable	10	10	5	5	each
MEDICAL	PATIENT / PERSONAL PROTECTION	Gloves, Latex, sterile, sized to meet team needs, pair	80	80	40	20	pair
MEDICAL	PATIENT / PERSONAL PROTECTION	Protectors, face and eye, surgical shield, box	1	1	1	1	box
MEDICAL	PATIENT / PERSONAL PROTECTION	Victim protection kits, (dust masks, ear plugs, helmet w/ face shield)	4	4	2	2	sets
MEDICAL	PATIENT / PERSONAL PROTECTION	Bracket, Helmet, FOR FULL-FACE FACESHIELD (DIELECTRIC)	4	4	2	1	each
MEDICAL	PATIENT / PERSONAL PROTECTION	Faceshield, Full-face, CLEAR POLYCARBONATE, BULLARD	4	4	2	1	each
MEDICAL	PATIENT / PERSONAL PROTECTION	HELMET, BULLARD (RATCHET SUSPENSION)	4	4	2	1	each
MEDICAL	PATIENT / PERSONAL PROTECTION	Wipes, Pre-Moistened Towelettes (wet wipes), box	1	1	1	1	box
MEDICAL	PATIENT / PERSONAL PROTECTION	Gloves, Latex Free, Examination, Sizes per TF	20	20	10	5	box
MEDICAL	PATIENT / PERSONAL PROTECTION	Handwash, liquid gel sanitizer 4 oz bottle	84	84	42	28	each
MEDICAL	PATIENT / PERSONAL PROTECTION	Handwipe, sanitizer towel,	4	4	2	2	box

RESPIRATORY TREATMENT MEDS

MEDICAL	RESPIRATORY TREATMENT MEDS	Respiratory Treatment Meds	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
MEDICAL	RESPIRATORY TREATMENT MEDS	Albuterol, 0.5% Soln, 20mg multi-dose bottles, INHAL (NDC 50383074120)	3	3	2	2	each
MEDICAL	RESPIRATORY TREATMENT MEDS	Albuterol, 2.5mg unit dose, INHAL, 25/box (NDC 487950125)	50	50	25	12	each
MEDICAL	RESPIRATORY TREATMENT MEDS	Albuterol, MDI/Aerosol, INHAL	8	8	4	2	each
MEDICAL	RESPIRATORY TREATMENT MEDS	Ipratropium / Combivent Inhaler Aerosol	6	6	3	2	each

SEDATIVES/ANESTHETICS/PARALYTICS

MEDICAL	SEDATIVES / ANESTHETICS / PARALYTICS	Sedatives / Anesthetics / Paralytics	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
MEDICAL	SEDATIVES / ANESTHETICS / PARALYTICS	Diazepam 5mg Tabs PO, (NDC 172392660)	20	20	10	5	each
MEDICAL	SEDATIVES / ANESTHETICS / PARALYTICS	Fentanyl Citrate, 50mcg/cc, 2ml amp (NDC 1001903727)	25	25	12	6	each
MEDICAL	SEDATIVES / ANESTHETICS / PARALYTICS	Haloperidol, Injection, 5mg/ml, 1ml amps	4	4	2	2	each
MEDICAL	SEDATIVES / ANESTHETICS / PARALYTICS	Ketamine Injection 500 mg vial	20	20	10	5	each
MEDICAL	SEDATIVES / ANESTHETICS / PARALYTICS	Midazolam, Injection, 5mg/ml, 5ml amps (NDC 409230801)	15	15	8	4	each
MEDICAL	SEDATIVES / ANESTHETICS / PARALYTICS	Succinylcholine, 200mg/10ml vial (NDC 409662902)	10	10	5	3	each
MEDICAL	SEDATIVES / ANESTHETICS / PARALYTICS	Vecuronium, Injection, 10mg vials (NDC 41616093144)	20	20	10	5	each
MEDICAL	SEDATIVES / ANESTHETICS / PARALYTICS	Bupivacaine 0.5% 30 ml vial (NDC 74161050)	10	10	5	3	each
MEDICAL	SEDATIVES / ANESTHETICS / PARALYTICS	Lidocaine, Injection, 1% w/ epinephrine, multi-use 50ml vial (NDC 409317803)	10	10	5	3	each
MEDICAL	SEDATIVES / ANESTHETICS / PARALYTICS	Lorazepam, 2mg/ml, 5cc vial	25	25	12	6	each

SKELETAL CARE

MEDICAL	SKELETAL CARE	Skeletal Care	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
MEDICAL	SKELETAL CARE	Bandages, Elastic, 3 inch ace wrap	24	24	12	6	each
MEDICAL	SKELETAL CARE	Bandages, Elastic, 6 inch ace wrap	24	24	12	6	each
MEDICAL	SKELETAL CARE	Elasticon 3"	36	36	18	9	each
MEDICAL	SKELETAL CARE	Splint, traction bilateral, long bone, Kendrick or EQ	2	2	1	1	each
MEDICAL	SKELETAL CARE	Splints, Moldable, 4"x 3ft, SAM or EQ	28	28	14	7	each

STEROIDS

MEDICAL	STEROIDS	Steroids	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
MEDICAL	STEROIDS	Prednisone, 20mg tablets, PO, (NDC 143147701)	100	100	50	25	tablets
MEDICAL	STEROIDS	Triamcinolone Cream, 0.1%, 15gm tube, TOP (NDC 45802006405)	20	20	10	5	each
MEDICAL	STEROIDS	Decadron, 4mg/ml, 5ml vial (NDC 517490524)	4	4	2	2	each

WMD PHARMACEUTICAL

MEDICAL	WMD PHARMACEUTICAL	WMD Pharmaceutical	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
MEDICAL	WMD PHARMACEUTICAL	Diazepam Injector, 10 mg Diazepam in 2mL, 15 units per box, 4 Year Shelf Life	90	90	45	23	each
MEDICAL	WMD PHARMACEUTICAL	Diazepam (CANA) Trainer, 25 per box	1	1	1	1	box
MEDICAL	WMD PHARMACEUTICAL	Case, Waterproof, Lifetime Warranty, Yellow with a clear lid, custom lettering for USAR	90	90	45	23	each
MEDICAL	WMD PHARMACEUTICAL	Decal, DHS Medical Kit, for Pelican Micro Case 1040	90	90	45	23	each
MEDICAL	WMD PHARMACEUTICAL	Canteen Cover, Yellow with Custom lettering for US&R, Fire Service Specification # 5100-217	90	90	45	23	each
MEDICAL	WMD PHARMACEUTICAL	Ciprofloxacin, 500 mg, 100 per bottle	16	16	8	4	bottle
MEDICAL	WMD PHARMACEUTICAL	Doxycycline, 100 mg, 500 per bottle	4	4	2	1	bottle
MEDICAL	WMD PHARMACEUTICAL	Potassium Iodide, USP 130 mg per table, 14 tablets per package, Hard side Packaging, Approx. 5 year shelf life	25	25	12	6	pkg
MEDICAL	WMD PHARMACEUTICAL	DuoDote™ Auto-Injector (Atropine and Pralidoxime Chloride Injection) 30 Auto-injectors per box	9	9	5	3	30 per box
MEDICAL	WMD PHARMACEUTICAL	DuoDote™ Training Simulator (DuoDote training simulator for BinaJect™ drug delivery system with no drug or needle, includes 25 instruction cards) 25 trainers per box	1	1	1	1	25 per box
MEDICAL	WMD PHARMACEUTICAL	Cyano Kit, 5 grams	4	4	2	2	each

WOUND CARE

MEDICAL	WOUND CARE	Wound Care	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
MEDICAL	WOUND CARE	Suture, 0-silk on a PSL , box	1	1	1	1	box
MEDICAL	WOUND CARE	Suture, 3-0 silk on a PS-1, box	1	1	1	1	box
MEDICAL	WOUND CARE	Suture, 4-0 vicryl on a PS-1, box	1	1	1	1	box
MEDICAL	WOUND CARE	Suture, 6-0 nylon on a PC-1, box	1	1	1	1	box
MEDICAL	WOUND CARE	Suture, 5-0 vicryl on a PC-12, box	1	1	1	1	box
MEDICAL	WOUND CARE	Bandages, Triangular	50	50	25	12	each
MEDICAL	WOUND CARE	Band-Aids, assorted sizes, box	3	3	3	3	box
MEDICAL	WOUND CARE	Band-Aids, 2"x 2", box	3	3	3	3	box
MEDICAL	WOUND CARE	Sheets, Burn, sterile	10	10	5	3	each
MEDICAL	WOUND CARE	Chucks, Absorbent	50	50	25	12	each
MEDICAL	WOUND CARE	Amputation Kit, Each kit	4	4	2	1	kit
MEDICAL	WOUND CARE	Suture Kit	10	10	5	3	kit
MEDICAL	WOUND CARE	Dressing, Multi-Trauma, Large, 12" x 30"	20	20	10	5	each
MEDICAL	WOUND CARE	Dressing, Trauma, 5" x 9", or equivalent	48	48	24	12	each
MEDICAL	WOUND CARE	Minor Procedure Kit, or equivalent	10	10	5	3	each
MEDICAL	WOUND CARE	Gauze, Packing, Iodoform, 1/4", bottle	1	1	1	1	bottle
MEDICAL	WOUND CARE	Gauze, Wraps, 4" width (Kerlix-type or equivalent)	80	80	40	20	each
MEDICAL	WOUND CARE	Hydrogen Peroxide, 3%, 16 oz. bottles	10	10	5	3	each
MEDICAL	WOUND CARE	Razor, Disposable	12	12	6	3	each
MEDICAL	WOUND CARE	Cutters, Ring, w/extra blades	6	6	3	2	each
MEDICAL	WOUND CARE	Scalpel blades (#11) and handles, disposable, box of 10, box	1	1	1	1	box
MEDICAL	WOUND CARE	Scalpel blades (#10) and handles, disposable, box of 10, box	1	1	1	1	box
MEDICAL	WOUND CARE	Brush, Scrub, Sterile, Hibiclens, 30 / box	1	1	1	1	box
MEDICAL	WOUND CARE	Stapler, Skin, disposable	6	6	3	2	each
MEDICAL	WOUND CARE	Forceps, Splinter	7	7	4	2	each
MEDICAL	WOUND CARE	Sponges, Sterile Gauze, 4"x4", 2/pkg, 25/box	4	4	2	2	box
MEDICAL	WOUND CARE	Steri-strips, 1/4", box	1	1	1	1	box
MEDICAL	WOUND CARE	Steri-strips, 1/8", box	1	1	1	1	box
MEDICAL	WOUND CARE	Tape, Silk, 1" roll, 12/pkg	2	2	1	1	pkg
MEDICAL	WOUND CARE	Tincture of Benzoin, 2oz bottles	4	4	2	1	bottle
MEDICAL	WOUND CARE	Gauze, Vaseline	16	16	8	4	each
MEDICAL	WOUND CARE	Eugenol or equivalent	2	2	1	1	each
MEDICAL	WOUND CARE	Tape, Cloth 2"	24	24	12	6	each
MEDICAL	WOUND CARE	Tape, Transpore 1", or equivalent, 12/pk	2	2	1	1	pks
MEDICAL	WOUND CARE	Dressing, Blister, 4" x 3" Mole Skin, 3/pks	8	8	4	2	roll

MEDICAL	WOUND CARE	Wound Care	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
MEDICAL	WOUND CARE	Dressing, 2nd skin, 3" circles	2	2	1	1	tub
MEDICAL	WOUND CARE	Tourniquets for Hemorrhage control (CAT or equivalent)	24	24	12	6	each
MEDICAL	WOUND CARE	Dressing, Hemostatic Gauze, Z Fold	16	16	8	4	each

PLANNING

SUPPLIES

PLANNING	SUPPLIES	Supplies	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
PLANNING	SUPPLIES	Kit, Planning Officer, to include items listed below:	2	2	2	2	each
PLANNING	SUPPLIES	Calculator, handheld, AA battery powered, w/ tape	2	2	2	2	each
PLANNING	SUPPLIES	Clipboards, metal bound, with storage pockets	2	2	2	2	each
PLANNING	SUPPLIES	Protectors, Document, plastic, clear, 3 hole punched, (100/box)	1	1	1	1	box
PLANNING	SUPPLIES	Markers, Dry Erase, Pkg, (blue, black, red, green per pkg)	2	2	2	2	pkg
PLANNING	SUPPLIES	Eraser, Dry Erase	2	2	2	2	each
PLANNING	SUPPLIES	Envelope, Transmittal, 10" x 13" (100/box)	1	1	1	1	box
PLANNING	SUPPLIES	Envelope, #10 (100/box)	1	1	1	1	box
PLANNING	SUPPLIES	Envelope, Manilla, 10" x 13" (100/pkg)	1	1	1	1	each
PLANNING	SUPPLIES	Folder, File - Letter Size (24/pkg)	1	1	1	1	pkg
PLANNING	SUPPLIES	Folder, File, Expandable, Letter Size (5/pkg)	2	2	2	2	pkg
PLANNING	SUPPLIES	Glue Stick	2	2	2	2	each
PLANNING	SUPPLIES	Pen, Highlighter, Yellow	4	4	4	4	each
PLANNING	SUPPLIES	Punch, 3-hole	2	2	2	2	each
PLANNING	SUPPLIES	Card, Index, unruled, 3" x 5" (300/pkg)	1	1	1	1	pkg
PLANNING	SUPPLIES	Card, Index, ruled, 3" x 5" (300/pkg)	1	1	1	1	pkg
PLANNING	SUPPLIES	Pen, Marker, water soluble, black	6	6	6	6	each
PLANNING	SUPPLIES	Pen, Marker, Small, black, indelible (12 pkg)	1	1	1	1	pkg
PLANNING	SUPPLIES	Transparency, Overhead, clear (laser printer capable) (50/pkg)	1	1	1	1	pkg
PLANNING	SUPPLIES	Paper, Pads, Graph, 1/10" squares, 8 1/2" x 11"	1	1	1	1	pkg
PLANNING	SUPPLIES	Clips, Paper, jumbo, (100/pkg)	1	1	1	1	pkg
PLANNING	SUPPLIES	Paper, Plain, 1 ream	1	1	1	1	each
PLANNING	SUPPLIES	Clips, Paper, Regular, (100/pkg)	1	1	1	1	pkg
PLANNING	SUPPLIES	Pencil, Grease, black (12/pkg)	1	1	1	1	pkg
PLANNING	SUPPLIES	Pencils, Number 2, mechanical, disposable (12/pkg)	1	1	1	1	pkg
PLANNING	SUPPLIES	Pen, Ballpoint, black (12/pkg)	1	1	1	1	pkg

PLANNING	SUPPLIES	Supplies	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
PLANNING	SUPPLIES	Pad, Note, (self-stick)	4	4	4	4	pkg
PLANNING	SUPPLIES	Pin, push (100/pkg)	1	1	1	1	pkg
PLANNING	SUPPLIES	Rubber band, Large, (box)	1	1	1	1	box
PLANNING	SUPPLIES	Rulers, 12"	4	4	4	4	each
PLANNING	SUPPLIES	Scale, Architectural	2	2	2	2	each
PLANNING	SUPPLIES	Scale, Engineers	2	2	2	2	each
PLANNING	SUPPLIES	Scissors	2	2	2	2	each
PLANNING	SUPPLIES	Staple Remover	2	2	2	2	each
PLANNING	SUPPLIES	Stapler, desk	2	2	2	2	each
PLANNING	SUPPLIES	Staples, spare, for desk stapler, box	2	2	2	2	box
PLANNING	SUPPLIES	Tag, key, blank (20/pkg)	20	20	20	20	each
PLANNING	SUPPLIES	Tape, Masking 1", roll	2	2	2	2	roll
PLANNING	SUPPLIES	Pen, correction fluid	2	2	2	2	each
PLANNING	SUPPLIES	Pad, Writing, Stenographer	6	6	6	6	each
PLANNING	SUPPLIES	Pad, Writing, Letter Size	6	6	6	6	each
PLANNING	SUPPLIES	Form, ICS 201	40	40	40	40	each
PLANNING	SUPPLIES	Form, ICS 202	20	20	20	20	each
PLANNING	SUPPLIES	Form, ICS 203	20	20	20	20	each
PLANNING	SUPPLIES	Form, ICS 204	40	40	40	40	each
PLANNING	SUPPLIES	Form, ICS 205	20	20	20	20	each
PLANNING	SUPPLIES	Form, ICS 206	20	20	20	20	each
PLANNING	SUPPLIES	Form, ICS 211	20	20	20	20	each
PLANNING	SUPPLIES	Form, ICS 213	200	200	200	200	each
PLANNING	SUPPLIES	Form, ICS 214	100	100	100	100	each
PLANNING	SUPPLIES	Form, ICS 215, Letter Size	20	20	20	20	each
PLANNING	SUPPLIES	Form, ICS 215, Wall Size, Laminated	2	2	2	2	each
PLANNING	SUPPLIES	T-Cards, ICS 219, blue, tan, white, yellow, red, green, gray	100	100	100	100	each
PLANNING	SUPPLIES	Rack, T-card, ICS 219, Canvas	2	2	2	2	each
PLANNING	SUPPLIES	Manual, ICS Forms	2	2	2	2	each
PLANNING	SUPPLIES	Catalog, ICS Forms	2	2	2	2	each
PLANNING	SUPPLIES	Guide, Field Operations, FEMA US&R Response System	2	2	2	2	each
PLANNING	SUPPLIES	Guide, Field Operations, ICS 420-1	2	2	2	2	each
PLANNING	SUPPLIES	Handbook, Fireline	2	2	2	2	each
PLANNING	SUPPLIES	Printer, Plotter, 24" width minimum, w/ Accessories	1	1	1	1	each
PLANNING	SUPPLIES	Stand (Optional Purchase)	1	1	1	1	each
PLANNING	SUPPLIES	Paper, 24"x150'	1	1	1	1	each
PLANNING	SUPPLIES	Ink (Spare), 1 of each color	4	4	4	4	each

RESCUE**ELECTRICAL**

RESCUE	ELECTRICAL	Electrical	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
RESCUE	ELECTRICAL	All Generators, Cords, Adapters are in Logistics Section					

ELECTRICAL POWERED TOOLS

RESCUE	ELECTRIC POWERED TOOLS	Electric Powered Tools	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
RESCUE	ELECTRIC POWERED TOOLS	Rebar Cutter, Cutting Edge Cutter	2	2	2	2	each
RESCUE	ELECTRIC POWERED TOOLS	Replacement Blade, Rebar Cutter	2	2	2	2	each
RESCUE	ELECTRIC POWERED TOOLS	Hammer, Demolition, electric, 40 lb., with case	4	4	2	2	each
RESCUE	ELECTRIC POWERED TOOLS	Bit, 1"x11", Flat chisel, Self-sharpening	4	4	2	2	each
RESCUE	ELECTRIC POWERED TOOLS	Bit, 1"x19", Flat chisel, Self-sharpening	4	4	2	2	each
RESCUE	ELECTRIC POWERED TOOLS	Bit, 1"x19", Pointed chisel, Self-Sharpending	4	4	2	2	each
RESCUE	ELECTRIC POWERED TOOLS	Bit, 1"x11", Pointed chisel, Self-Sharpending	4	4	2	2	each
RESCUE	ELECTRIC POWERED TOOLS	Hammer, Demolition, 60 lb., w/case	2	2	1	1	each
RESCUE	ELECTRIC POWERED TOOLS	Bit, Pointed, 15"	4	4	2	2	each
RESCUE	ELECTRIC POWERED TOOLS	Bit, Flat, 15'	4	4	2	2	each
RESCUE	ELECTRIC POWERED TOOLS	Drill/Hammer, electric, 1/2" variable speed, industrial grade w/ case	1	1	1	1	each
RESCUE	ELECTRIC POWERED TOOLS	Bit, Drill, steel, 15 piece set, general purpose, 1/16" - 1/2"	1	1	1	1	set
RESCUE	ELECTRIC POWERED TOOLS	Bit, Drill, carbide tip, Masonry, set 1/4" - 1/2"	1	1	1	1	set
RESCUE	ELECTRIC POWERED TOOLS	Bit, Ship Auger, 3/4"	1	1	1	1	each
RESCUE	ELECTRIC POWERED TOOLS	Bit, Ship Auger, 1-1/2"	1	1	1	1	each
RESCUE	ELECTRIC POWERED TOOLS	Grinder, Die, straight, 4.5 amp, 21,000 rpm, electric, 3" cutoff wheel, paddle switch, w/case	1	1	1	1	each
RESCUE	ELECTRIC POWERED TOOLS	Wheels, Abrasive, cutoff, 3", A36 grit	50	50	50	50	each
RESCUE	ELECTRIC POWERED TOOLS	Wheel Mandrel Set, Arbor 1/4" Shank, Fits 1/4" and 3/8" Hole, w/ wrenches	10	10	10	10	each
RESCUE	ELECTRIC POWERED TOOLS	Drill, Rotary Hammer, Electric, HD 1-1/2" (min.), SDS MAX or spline, w/case	6	6	6	6	each

RESCUE	ELECTRIC POWERED TOOLS	Electric Powered Tools	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
RESCUE	ELECTRIC POWERED TOOLS	Bit, Carbide Tipped, 3/4", SDS MAX or Spine shank, Electric Rotary Hammer	6	6	6	6	each
RESCUE	ELECTRIC POWERED TOOLS	Bit, Carbide Tipped, 1/2", 10-14" Length, SDS MAX or Spline Shank, Electric Rotary Hammer	6	6	6	6	each
RESCUE	ELECTRIC POWERED TOOLS	Bit, Carbide Tipped, 1" SDS MAX or Spine Shank, Electric Rotary Hammer	6	6	6	6	each
RESCUE	ELECTRIC POWERED TOOLS	Bit, Carbide Tipped, 1-1/2", SDS MAX or Spline Shank, Electric Rotary Hammer,	6	6	6	6	each
RESCUE	ELECTRIC POWERED TOOLS	Adapter, SDS Max to SDS/SDS Plus, Electric Rotary Hammer	2	2	2	2	each
RESCUE	ELECTRIC POWERED TOOLS	Adapter, SDS Max to Spline, Electric Rotary Hammer	2	2	2	2	each
RESCUE	ELECTRIC POWERED TOOLS	Bit, Bull point, 14-18" Electric Rotary Hammer	8	8	4	4	each
RESCUE	ELECTRIC POWERED TOOLS	Bit, Flat Chisel Point, 14-18" Electric Rotary Hammer	8	8	4	4	each
RESCUE	ELECTRIC POWERED TOOLS	Bit, Carbide-tipped, Turbo Tunnel Head, 2 5/8", Electric Rotary Hammer	4	4	4	4	each
RESCUE	ELECTRIC POWERED TOOLS	Bit, Bull Point, 10-14", Electric Rotary Hammer	8	8	8	8	each
RESCUE	ELECTRIC POWERED TOOLS	Bit, Flat Chisel Point, 10-14". Electric Rotary Hammer	8	8	4	4	each
RESCUE	ELECTRIC POWERED TOOLS	Bit, Carbide tipped, 1/2", 14-22" Length, Electric Rotary Hammer	6	6	6	6	each
RESCUE	ELECTRIC POWERED TOOLS	Pump, submersible, electric, 12 amp 115vac single phase, 50 GPM @ 15ft, with adapters from 1 1/2"	1	1	1	1	each
RESCUE	ELECTRIC POWERED TOOLS	Hose, Fire 1½" (NST thread) 50' hose, lightweight, 1 1/2", single jacket, 250 psi rated	2	2	2	2	each
RESCUE	ELECTRIC POWERED TOOLS	Adapter, Fire Hose, 3" to 1-1/2"	2	2	2	2	each
RESCUE	ELECTRIC POWERED TOOLS	Adapter, Fire Hose, 2-1/2" to 1-1/2"	2	2	2	2	each
RESCUE	ELECTRIC POWERED TOOLS	Saw, Reciprocating, Variable Speed, Heavy Duty, Cordless w/ Batteries and Charger, 28 volt system	4	4	2	2	each
RESCUE	ELECTRIC POWERED TOOLS	Battery, 28 volt, Spare for Cordless Reciprocating Saw	8	8	4	4	each
RESCUE	ELECTRIC POWERED TOOLS	Blade, Reciprocating Saw, Metal-cutting, Shatterproof, 6"-9", (5/pkg)	20	20	20	10	pkg
RESCUE	ELECTRIC POWERED TOOLS	Blade, Reciprocating Saw, Wood-cutting, Shatterproof, 6" (5/pkg)	40	40	20	10	pkg
RESCUE	ELECTRIC POWERED TOOLS	Blade, Reciprocating Saw, Wood-cutting, Shatterproof 9" (5/pkg)	20	20	10	10	pkg
RESCUE	ELECTRIC POWERED TOOLS	Blade, Reciprocating Saw, Wood-cutting, Shatterproof 12" (5/pkg)	20	20	10	10	pkg
RESCUE	ELECTRIC POWERED TOOLS	Saw, chain, electric, 16" bar, wood cutting, compatible with gas chain saws, w/case	4	4	2	2	each
RESCUE	ELECTRIC POWERED TOOLS	Bar, Chain saw, 16", spare, w/sprocket	2	2	2	2	each
RESCUE	ELECTRIC POWERED TOOLS	Chains, Chainsaw, 16", Spare	8	8	4	4	each

RESCUE	ELECTRIC POWERED TOOLS	Electric Powered Tools	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
RESCUE	ELECTRIC POWERED TOOLS	Oil, Bar, Chainsaw	2	2	1	1	gallon
RESCUE	ELECTRIC POWERED TOOLS	Chaps, Chainsaw, 36" length	4	4	4	4	each
RESCUE	ELECTRIC POWERED TOOLS	Scabbard	4	4	4	4	each
RESCUE	ELECTRIC POWERED TOOLS	Wrench	4	4	4	4	each
RESCUE	ELECTRIC POWERED TOOLS	Manual, Operators	2	2	2	2	each
RESCUE	ELECTRIC POWERED TOOLS	Saw, circular, electric, 10-1/4" heavy-duty, w/case	2	2	2	2	each
RESCUE	ELECTRIC POWERED TOOLS	Blade, Circular Saw, Carbide tip, 10-1/4", 28 teeth	6	6	6	6	each
RESCUE	ELECTRIC POWERED TOOLS	Saw, circular, electric, 7-1/4", heavy-duty, w/case	2	2	2	2	each
RESCUE	ELECTRIC POWERED TOOLS	Blade, Circular Saw, Carbide tip 7-1/4", 16 teeth	6	6	6	6	each
RESCUE	ELECTRIC POWERED TOOLS	Saw, reciprocating, variable speed, 120v AC, 13 amp, heavy duty, w/ case	4	4	2	2	each
RESCUE	ELECTRIC POWERED TOOLS	Saw, Circular, Metal Cutting, 8" - 120v, 13amp	1	1	1	1	each
RESCUE	ELECTRIC POWERED TOOLS	Blade, Circular Saw, Metal Cutting, 8"	6	6	3	3	each
RESCUE	ELECTRIC POWERED TOOLS	Angle Grinder, 5"	2	2	1	1	each
RESCUE	ELECTRIC POWERED TOOLS	Blade, Premium Diamond for 5" angle grinder	10	10	5	5	each

GASOLINE POWERED TOOLS

RESCUE	GASOLINE POWERED TOOLS	Gasoline Powered Tools	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
RESCUE	GASOLINE POWER TOOLS	Saw, Chain, Gasoline, 2 cycle, 16"	6	6	4	3	each
RESCUE	GASOLINE POWER TOOLS	Chain, Carbide Tip, Laser Weld, 16", wood cutting	18	18	18	10	each
RESCUE	GASOLINE POWER TOOLS	Chain, Chipper, 16", wood cutting	18	18	18	10	each
RESCUE	GASOLINE POWER TOOLS	Bar, Chain Saw, Roller Tip	8	8	5	4	each
RESCUE	GASOLINE POWER TOOLS	Spark Plug, Chain Saw	15	15	8	6	each
RESCUE	GASOLINE POWER TOOLS	Chaps, Chainsaw, 36" Length	6	6	3	3	each
RESCUE	GASOLINE POWER TOOLS	Kit, Maintenance, Chain Saw, Includes: Spark Plug Wrench, Allen Wrenches, Sprocket Grease Tool, Sprocket Grease Tube	6	6	3	3	each
RESCUE	GASOLINE POWER TOOLS	Filter, Air, Chain Saw	15	15	8	6	each

RESCUE	GASOLINE POWERED TOOLS	Gasoline Powered Tools	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
RESCUE	GASOLINE POWER TOOLS	Oil, Bar, Chainsaw, Gallon	2	2	2	2	each
RESCUE	GASOLINE POWER TOOLS	Oil, 2 Cycle Mix, 2.6 oz.	16	16	16	8	each
RESCUE	GASOLINE POWER TOOLS	Scabbard, Chain Saw	6	6	4	3	each
RESCUE	GASOLINE POWER TOOLS	Saw, power rotary, gasoline, 14", 1" arbor	2	2	2	2	each
RESCUE	GASOLINE POWER TOOLS	Spark Plug, Saw, gasoline, 14" power rotary	8	8	8	8	each
RESCUE	GASOLINE POWER TOOLS	Belts, power rotary saw, 14"	4	4	4	4	each
RESCUE	GASOLINE POWER TOOLS	Blade, diamond tip, reinforced concrete-cutting, 14", power rotary saw	6	6	6	6	each
RESCUE	GASOLINE POWER TOOLS	Blade, Carbide Tip, 14", power rotary saw	4	4	4	4	each
RESCUE	GASOLINE POWER TOOLS	Blade, Abrasive, Steel Cutting, 14", Power Rotary Saw	4	4	4	4	each
RESCUE	GASOLINE POWER TOOLS	Filter, Air, Saw, gasoline, 14", rotary saw	14	14	14	14	set
RESCUE	GASOLINE POWER TOOLS	Hose, Fire, 3/4", Flat Synthetic, 3/4" ght, 100'	2	2	2	2	each
RESCUE	GASOLINE POWER TOOLS	Oil, 2 Cycle Mix, 2.6 oz.	12	12	12	8	each
RESCUE	GASOLINE POWER TOOLS	Wrench, Allen	2	2	2	2	each
RESCUE	GASOLINE POWER TOOLS	Scrench	2	2	2	2	each
RESCUE	GASOLINE POWER TOOLS	Saw, Ring, Gasoline Powered, Carbide Tipped, 14", Concrete Cutting	2	2	1	0	each
RESCUE	GASOLINE POWER TOOLS	Blade, Carbide Tip, 14", Gasoline Ring Saw (reinforced concrete, yellow)	8	8	6	0	each

HAND TOOLS

RESCUE	HAND TOOLS	Hand Tools	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
RESCUE	HAND TOOLS	Axe, flat head, fiberglass handle	1	1	1	1	each
RESCUE	HAND TOOLS	Bar, pry, pinch point 60"	8	8	4	4	each
RESCUE	HAND TOOLS	Bar, wrecking 18"	2	2	2	2	each
RESCUE	HAND TOOLS	Bar, wrecking 30"	2	2	2	2	each
RESCUE	HAND TOOLS	Belt, carpenter, quick disconnects, with 2 pouches	10	10	8	8	each
RESCUE	HAND TOOLS	Bucket, plastic, 5 gallon, w/ handle	6	6	4	4	each
RESCUE	HAND TOOLS	Bucket, collapsible, 12" X 17"	4	4	2	2	each
RESCUE	HAND TOOLS	Carrier, debris, 4' x 6'	4	4	4	4	each

RESCUE	HAND TOOLS	Hand Tools	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
RESCUE	HAND TOOLS	Chalk, line, 100', with chalk	2	2	2	2	each
RESCUE	HAND TOOLS	Chisels, wood, assorted (not to exceed 6 chisels total), set	1	1	1	1	set
RESCUE	HAND TOOLS	Crayon, lumber, assorted colors	100	100	50	20	each
RESCUE	HAND TOOLS	Cutter, bolt, 18"	1	1	1	1	each
RESCUE	HAND TOOLS	Cutter, bolt, 36"	2	2	2	2	each
RESCUE	HAND TOOLS	Cutter, pipe, multiple head, 1 - 2-1/2"	1	1	1	1	each
RESCUE	HAND TOOLS	Cutter, wire and cable, 28", fiberglass handles	1	1	1	1	each
RESCUE	HAND TOOLS	Hacksaw, high tension, contractor grade	2	2	2	2	each
RESCUE	HAND TOOLS	Blade, Hacksaw, 12" - 18 tpi, shatterproof	12	12	12	12	each
RESCUE	HAND TOOLS	Blade, Hacksaw, 12" - 24 tpi, shatterproof	12	12	12	12	each
RESCUE	HAND TOOLS	Hammer, sledge, 4 lb., 16" fiberglass handle	8	8	4	4	each
RESCUE	HAND TOOLS	Hammer, sledge, 8 lb., fiberglass handle	4	4	2	2	each
RESCUE	HAND TOOLS	Hammer, sledge 12 lb., fiberglass handle	2	2	2	2	each
RESCUE	HAND TOOLS	Hammer, framing straight claw, 22 oz., steel, mill face	10	10	8	8	each
RESCUE	HAND TOOLS	Hand truck, convertible into dolly, with pneumatic tires	4	4	2	2	each
RESCUE	HAND TOOLS	Knife, Utility, retractable blade	12	12	8	8	each
RESCUE	HAND TOOLS	Blade, Utility Knife, Spare. 100 per pack	2	2	2	2	each
RESCUE	HAND TOOLS	Ladder, XTEND + CLIMB 780P Type 1A 300 pounds 12.5 feet	4	4	2	2	each
RESCUE	HAND TOOLS	Ladder, 18' Little Giant	2	2	2	2	each
RESCUE	HAND TOOLS	Level, 4 ft.	2	2	2	2	each
RESCUE	HAND TOOLS	Nails, common, 16D, Sinkers, pound	50	50	50	20	lbs.
RESCUE	HAND TOOLS	Nails, common, 8D, Sinkers, pound	50	50	50	20	lbs.
RESCUE	HAND TOOLS	Paint, spray, fluorescent, Green	24	24	24	24	each
RESCUE	HAND TOOLS	Paint, spray, fluorescent, Orange	24	24	24	24	each
RESCUE	HAND TOOLS	Pencils, carpenter	100	100	50	25	each
RESCUE	HAND TOOLS	Sheeting, Plastic, 20' foot x 100' role, Clear, 6 mil	2	2	2	2	roll
RESCUE	HAND TOOLS	Shovel, spade point, 60" straight handle	4	4	4	4	each
RESCUE	HAND TOOLS	Entrenching tool, shovel, w/folding pick, O/A length 30"	4	4	4	4	each
RESCUE	HAND TOOLS	Snips, tin, aviation type	8	8	4	4	each
RESCUE	HAND TOOLS	Square, speed	12	12	8	6	each
RESCUE	HAND TOOLS	Square, framing, 2 ft.	2	2	2	2	each
RESCUE	HAND TOOLS	Tape, flagging, yellow, 100 yd. roll	6	6	6	6	each
RESCUE	HAND TOOLS	Tape, measuring, 100'	2	2	2	2	each
RESCUE	HAND TOOLS	Tape, measuring, 30' power return, 1" blade width	12	12	8	6	each
RESCUE	HAND TOOLS	Tarpaulin, polyethylene, 15' x 20', heavy duty grommets	12	12	6	6	each

RESCUE	HAND TOOLS	Hand Tools	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
RESCUE	HAND TOOLS	Wrench, pipe, 36" aluminum	1	1	1	1	each
RESCUE	HAND TOOLS	Wrench, pipe, 18" aluminum	1	1	1	1	each
RESCUE	HAND TOOLS	Wrench, pipe, 12" aluminum	1	1	1	1	each
RESCUE	HAND TOOLS	Tool, Gas and Water Shut-off	8	8	8	4	each
RESCUE	HAND TOOLS	Halligan tool	8	8	4	4	each
RESCUE	HAND TOOLS	Cutter, bolt, 24"	1	1	1	1	each
RESCUE	HAND TOOLS	Stake, Picket, Double Headed Rebar, 1"x48", grade 60	24	24	24	12	each
RESCUE	HAND TOOLS	Low Profile jacks hydraulic, 5 ton, vertical or horizontal	1	1	1	1	each
RESCUE	HAND TOOLS	Low profile jacks hydraulic, 12 ton, vertical or horizontal 9012A	1	1	1	1	each
RESCUE	HAND TOOLS	Low Profile hydraulic jack 20 ton vertical horizontal 9220A	1	1	1	1	each
RESCUE	HAND TOOLS	Low Profile hydraulic jack 30 ton horizontal vertical 9130A	1	1	1	1	each

HEAVY RIGGING

RESCUE	HEAVY RIGGING	Heavy Rigging	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
RESCUE	HEAVY RIGGING	Cable Come a Long 3-Ton, 6000	4	4	2	2	each
RESCUE	HEAVY RIGGING	Shear pin, 3-Ton come-a-long, spare	4	4	2	2	each
RESCUE	HEAVY RIGGING	Chain, 3/8"x10', grade 8, lifting, with Clevis, slip hooks and latches	2	2	2	2	each
RESCUE	HEAVY RIGGING	Chain, 3/8"x 20', grade 8, lifting, with Clevis, slip hook and latches	2	2	2	2	each
RESCUE	HEAVY RIGGING	Shackles, Screw Pin, 1-1/4", 12 ton	8	8	6	4	each
RESCUE	HEAVY RIGGING	Shackles, Screw Pin, Round 5/8" 3-1/4 ton	8	8	6	4	each
RESCUE	HEAVY RIGGING	Shackles, Screw Pin, Flat, for flat synthetic web, 12 ton	4	4	4	4	each
RESCUE	HEAVY RIGGING	Sling, Polyester, round sling, 20 ft. endless, 17,000 lb. choker capacity	4	4	4	4	each
RESCUE	HEAVY RIGGING	Sling, Polyester round sling, 10 ft. endless, 17,000 lb. choker capacity	8	8	4	4	each
RESCUE	HEAVY RIGGING	Slings, Synthetic, Heavy duty, 3" x 6', Type 3, Flat Eye, One Ply 3800 lb. Choker Capacity	4	4	4	4	each
RESCUE	HEAVY RIGGING	Slings, Wire Rope, IPS, Mechanical Splice, 1/2" X 12', 2400 lb., choker capacity	4	4	4	4	each
RESCUE	HEAVY RIGGING	Swivel hook	2	2	2	2	each
RESCUE	HEAVY RIGGING	Swivel hook	2	2	2	2	each
RESCUE	HEAVY RIGGING	Swivel Hook, Latch Kit for 1048865 Hook	4	4	4	4	each
RESCUE	HEAVY RIGGING	Swivel Hook, Latch Kit for 1048831 Hook	4	4	4	4	each

RESCUE	HEAVY RIGGING	Heavy Rigging	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
RESCUE	HEAVY RIGGING	Turnbuckle, 1", Jaw to Jaw, 12" TAKEUP, 10000 LB. CAPACITY	4	4	4	4	each
RESCUE	HEAVY RIGGING	Swivel Hoist Rings, 1/2" x 2.5" Steel, Crosby or other USA equivalent	4	4	4	4	each
RESCUE	HEAVY RIGGING	Eye Nuts, 1/2", Steel	8	8	6	4	each
RESCUE	HEAVY RIGGING	Anchors, Wedge, Concrete, 1/2" x 5-1/2"	25	25	25	25	each
RESCUE	HEAVY RIGGING	Wrench, Torque, 1/2" drive, 25-250 Ft. Lb., Adjustable	1	1	1	1	each
RESCUE	HEAVY RIGGING	Socket, 3/4", for Torque Wrench	2	2	2	2	each
RESCUE	HEAVY RIGGING	Anchor, Hilti Undercut, 8/Box	4	4	2	2	each
RESCUE	HEAVY RIGGING	Bit, Drill, SDS MAX	2	2	2	2	each
RESCUE	HEAVY RIGGING	Tool, Setting, Undercut Anchor	2	2	2	2	each
RESCUE	HEAVY RIGGING	Screw, Concrete, 25/Box	1	1	1	1	each
RESCUE	HEAVY RIGGING	Edge Protection, Sling Protection	14	14	8	8	each
RESCUE	HEAVY RIGGING	Anchors, Wedge, Concrete, 1/2" x 7"	25	25	25	25	each
RESCUE	HEAVY RIGGING	Hoist, Ratchet Chain - 1.5 Ton, 10'	2	2	1	1	each
RESCUE	HEAVY RIGGING	Hook, Single, 3/8" chain, 8,800 lb. capacity (Crosby A-1361)	2	2	2	2	each
RESCUE	HEAVY RIGGING	Hook, Double, 3/8" chain, 17,600 lb. capacity (Crosby A-1362)	2	2	2	2	each
RESCUE	HEAVY RIGGING	Grip Hoist, 8000 lb. Lift Capacity, with 8 spare sheer pins & 1 spare handle	2	2	2	2	each
RESCUE	HEAVY RIGGING	Cable, Wire Rope, for Grip Hoist, w/Safety Hooks and Welded Point, 60'	2	2	2	2	each
RESCUE	HEAVY RIGGING	Snatch Block, Single Sheave w/ Shackle	2	2	2	2	each
RESCUE	HEAVY RIGGING	Shackle, 1 1/2 ton	4	4	4	4	each
RESCUE	HEAVY RIGGING	Sling, Polyester, round sling, 6 ft. endless, (green), 4,200 lb. choker capacity	4	4	2	2	each
RESCUE	HEAVY RIGGING	Sling, Polyester, round sling, 8 ft. endless, (green), 4,200 lb. choker capacity	4	4	2	2	each
RESCUE	HEAVY RIGGING	Sling, Polyester, round sling, 10 ft. endless, (green), 4,200 lb. choker capacity	4	4	2	2	each
RESCUE	HEAVY RIGGING	Sling, Polyester, round sling, 10 ft. endless, (yellow), 6,700 lb. choker capacity	4	4	2	2	each
RESCUE	HEAVY RIGGING	Sling, Polyester, round sling, 12 ft. endless, (yellow), 6,700 lb. choker capacity	4	4	2	2	each

HYDRAULIC POWERED TOOLS

RESCUE	HYDRAULIC POWERED TOOLS	Hydraulic Powered Tools	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
RESCUE	HYDRAULIC POWERED TOOLS	Breaker, hydraulic, 90 lb.	1	1	1	0	each
RESCUE	HYDRAULIC POWERED TOOLS	Bit, Moil Point 14", Hydraulic Breaker	3	3	3	0	each

RESCUE	HYDRAULIC POWERED TOOLS	Hydraulic Powered Tools	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
RESCUE	HYDRAULIC POWERED TOOLS	Bit, Chisel, 3" x 14", Hydraulic Breaker	1	1	1	0	each
RESCUE	HYDRAULIC POWERED TOOLS	Bit, Chisel, 1" x 14", Hydraulic Breaker	3	3	3	0	each
RESCUE	HYDRAULIC POWERED TOOLS	Bit, KeenKut, Hydraulic Breaker	2	2	2	0	each
RESCUE	HYDRAULIC POWERED TOOLS	Breaker, hydraulic 45 lb.	1	1	1	1	each
RESCUE	HYDRAULIC POWERED TOOLS	Bit, Moil Point, 14", Hydraulic Breaker	3	3	3	3	each
RESCUE	HYDRAULIC POWERED TOOLS	Bit, Chisel, 3" x 14", Hydraulic Breaker	1	1	1	1	each
RESCUE	HYDRAULIC POWERED TOOLS	Bit, Chisel, 1" x 14", Hydraulic Breaker	3	3	3	3	each
RESCUE	HYDRAULIC POWERED TOOLS	Saw, Chain, Diamond Segmented, 15", Concrete Cutting, Hydraulic	1	1	1	0	each
RESCUE	HYDRAULIC POWERED TOOLS	Chain, Diamond segment, 15", Concrete cutting, hydraulic	6	6	6	0	each
RESCUE	HYDRAULIC POWERED TOOLS	Bar, Concrete chain saw, 15",	2	2	2	0	each
RESCUE	HYDRAULIC POWERED TOOLS	Pump, Water, Concrete Chain Saw, Hydraulic	1	1	1	0	each
RESCUE	HYDRAULIC POWERED TOOLS	Wrench, sprocket, spanner, DS-11 Concrete Saw	2	2	2	0	each
RESCUE	HYDRAULIC POWERED TOOLS	Hose, Flat, Forestry-Type, 100' x 3/4", w/ 3/4" (GHT) fittings	2	2	2	0	each
RESCUE	HYDRAULIC POWERED TOOLS	Adapter, 1.5" NST Female to 3/4" GHT	1	1	1	0	each
RESCUE	HYDRAULIC POWERED TOOLS	Adapter, 1.5"NPT X 1.5"NH, fire hose	1	1	1	0	each
RESCUE	HYDRAULIC POWERED TOOLS	Hose, Econoflow Forestry, 5/8" x 50'	2	2	2	0	each
RESCUE	HYDRAULIC POWERED TOOLS	Saw, Cutoff, 14" diameter X 1" arbor, Hydraulic	1	1	1	1	each
RESCUE	HYDRAULIC POWERED TOOLS	Blade, Diamond Tip, Concrete Cutting, 14"	3	3	3	3	each
RESCUE	HYDRAULIC POWERED TOOLS	Drill, Hammer, Hydraulic	1	1	1	1	each
RESCUE	HYDRAULIC POWERED TOOLS	Bit, Carbide Tip, 1"x 24", Hydraulic Hammer Drill	2	2	2	2	each
RESCUE	HYDRAULIC POWERED TOOLS	Bit, Carbide Tip, 1 1/2" x 24", Hydraulic Hammer Drill	2	2	2	2	each
RESCUE	HYDRAULIC POWERED TOOLS	Bit, Carbide Tip, 2" x 24", Hydraulic Hammer Drill	2	2	2	2	each
RESCUE	HYDRAULIC POWERED TOOLS	Power Unit, Hydraulic , Vehicle Rescue System	1	1	1	1	each
RESCUE	HYDRAULIC POWERED TOOLS	Filters, Fuel, Hydraulic Vehicle Rescue System	5	5	5	5	each
RESCUE	HYDRAULIC POWERED TOOLS	Spark Plug, Hydraulic Vehicle Rescue System	6	6	6	6	each
RESCUE	HYDRAULIC POWERED TOOLS	Cutter, Hydraulic Vehicle Rescue System	1	1	1	1	each

RESCUE	HYDRAULIC POWERED TOOLS	Hydraulic Powered Tools	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
RESCUE	HYDRAULIC POWERED TOOLS	Spreader, Hydraulic Vehicle Rescue System	1	1	1	1	each
RESCUE	HYDRAULIC POWERED TOOLS	Ram, Hydraulic, min. 28" length, Vehicle Rescue System	2	2	2	2	each
RESCUE	HYDRAULIC POWERED TOOLS	Ram, Hydraulic, min. 48" length, Vehicle Rescue System	2	2	2	2	each
RESCUE	HYDRAULIC POWERED TOOLS	Ram, Hydraulic, min. 18" length, Vehicle Rescue System	2	2	2	2	each
RESCUE	HYDRAULIC POWERED TOOLS	Hose, Hydraulic, 30-foot section, Vehicle Rescue System	8	8	8	8	each
RESCUE	HYDRAULIC POWERED TOOLS	Attachments, Hydraulic Rams, Vehicle Rescue System /w storage case	2	2	2	2	each
RESCUE	HYDRAULIC POWERED TOOLS	Manifold, w/dump valve, Hydraulic Vehicle Rescue System	1	1	1	1	each
RESCUE	HYDRAULIC POWERED TOOLS	Pump, Manual, Hydraulic, Vehicle Rescue System	1	1	1	1	each
RESCUE	HYDRAULIC POWERED TOOLS	Hose, Hydraulic, Blue, 30-foot section, Vehicle Rescue System	2	2	2	2	each
RESCUE	HYDRAULIC POWERED TOOLS	Hose, Hydraulic, Green, 30-foot section, Vehicle Rescue System	2	2	2	2	each
RESCUE	HYDRAULIC POWERED TOOLS	Air Filters, Hydraulic Vehicle Rescue System	5	5	5	5	each
RESCUE	HYDRAULIC POWERED TOOLS	Fluid, Hydraulic, Fire Resistant, Vehicle Rescue System, Gallon	2	2	2	2	each
RESCUE	HYDRAULIC POWERED TOOLS	Power unit, Hydraulic, medium-duty, compact, w/non-spillable type battery	1	1	1	1	each
RESCUE	HYDRAULIC POWERED TOOLS	Hoses, Dual, Hydraulic, 1/2" X 50 ft.	6	6	6	6	each
RESCUE	HYDRAULIC POWERED TOOLS	Couplings, Hydraulic, flush face, 3/8" NPT	6	6	6	6	each
RESCUE	HYDRAULIC POWERED TOOLS	Couplings, Hydraulic, flush face, 1/2" NPT	6	6	6	6	each
RESCUE	HYDRAULIC POWERED TOOLS	Filter, Air, for power unit	1	1	1	1	each
RESCUE	HYDRAULIC POWERED TOOLS	Filter, Hydraulic Fluid, for power unit	1	1	1	1	each
RESCUE	HYDRAULIC POWERED TOOLS	Spark Plug, Stanley Power Unit	4	4	4	4	each
RESCUE	HYDRAULIC POWERED TOOLS	Oil, Hydraulic, 5 gal	2	2	2	2	each
RESCUE	HYDRAULIC POWERED TOOLS	Charger, Battery, Tender	1	1	1	1	each
RESCUE	HYDRAULIC POWERED TOOLS	Tool, Forcible Entry, 4" opening	4	4	2	2	each
RESCUE	HYDRAULIC POWERED TOOLS	Tool, Hydraulic, hand pump, cutter/spreader	2	2	2	2	each
RESCUE	HYDRAULIC POWERED TOOLS	Pump, Manual, Hydrafusion	2	2	2	2	each
RESCUE	HYDRAULIC POWERED TOOLS	Strut, 4" lift, Hydrafusion	2	2	2	2	each
RESCUE	HYDRAULIC POWERED TOOLS	Strut, 10" lift, Hydrafusion	2	2	2	2	each

RESCUE	HYDRAULIC POWERED TOOLS	Hydraulic Powered Tools	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
RESCUE	HYDRAULIC POWERED TOOLS	Strut, 16" lift, Hydrافusion	2	2	2	2	each
RESCUE	HYDRAULIC POWERED TOOLS	Chain Wedge For 3/8" Chain,	4	4	4	4	each
RESCUE	HYDRAULIC POWERED TOOLS	Combi Tool, Hydraulic Vehicle Rescue System, Battery Powered	2	2	2	2	each
RESCUE	HYDRAULIC POWERED TOOLS	Battery Pack, w/ For Hydraulic Vehicle Rescue System	3	3	3	3	each
RESCUE	HYDRAULIC POWERED TOOLS	Cutter, Hydraulic Vehicle Rescue System, Battery Powered	1	1	1	1	each
RESCUE	HYDRAULIC POWERED TOOLS	Spreader, Hydraulic Vehicle Rescue System, Battery Powered w/ 1 battery	1	1	1	1	each
RESCUE	HYDRAULIC POWERED TOOLS	Ram, Hydraulic Vehicle Rescue System, Battery Powered	1	1	1	1	each
RESCUE	HYDRAULIC POWERED TOOLS	Adapter, 110 VAC, for Hydraulic Vehicle Rescue System	2	2	2	2	each
RESCUE	HYDRAULIC POWERED TOOLS	Battery, 28 VDC (Milwaukee) 3000mAh for Hydraulic Vehicle Rescue System	13	13	13	13	each
RESCUE	HYDRAULIC POWERED TOOLS	Charger, Triple Bank, for Hydraulic Vehicle Rescue System	2	2	2	2	case
RESCUE	HYDRAULIC POWERED TOOLS	Charger, RoboPak Battery Pack	3	3	3	3	each
RESCUE	HYDRAULIC POWERED TOOLS	Adapter, RoboPak to Genesis/Milwaukee	3	3	3	3	each

MISCELLANEOUS TOOLS

RESCUE	MISC TOOLS	Miscellaneous Tools	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
RESCUE	MISC. TOOLS	Gun, Nail, Piston Activated, 27 caliber-auto feed, w/ case and accessories	1	1	1	1	each
RESCUE	MISC. TOOLS	Pins, 2 1/2", HD, w/ washers for Piston Activated Nail Gun,	500	500	300	200	each
RESCUE	MISC. TOOLS	Pins, 3-1/4", HD, w/washers for Piston Activated Nail Gun	500	500	300	200	each
RESCUE	MISC. TOOLS	Loads, Medium, for Piston Activated Nail Gun	500	500	300	200	each
RESCUE	MISC. TOOLS	Loads, Heavy Duty, for Piston Activated Nail Gun	500	500	300	200	each
RESCUE	MISC. TOOLS	Torch oxy/acetylene kits, large bore, w/attachments (gauges, hoses, wands, strikers, adapters and safety equipment)	1	1	0	0	each
RESCUE	MISC. TOOLS	Goggle Set, #5	12	12	0	0	each
RESCUE	MISC. TOOLS	Gloves, Welding	12	12	0	0	pair
RESCUE	MISC. TOOLS	Tip, Size 0, Oxy-Acetylene Torch (spare)	2	2	0	0	each
RESCUE	MISC. TOOLS	Tip, Size 1, Oxy-Acetylene Torch (spare)	2	2	0	0	each
RESCUE	MISC. TOOLS	Tip, Size 3, Oxy-Acetylene Torch (spare)	2	2	0	0	each
RESCUE	MISC. TOOLS	Striker, Oxy-Acetylene Torch	4	4	0	0	each
RESCUE	MISC. TOOLS	Torch Head, Ox Set 36"	1	1	0	0	each

RESCUE	MISC TOOLS	Miscellaneous Tools	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
RESCUE	MISC. TOOLS	Tip, Size 2, Oxy-Acetylene Torch (spare)	2	2	0	0	each
RESCUE	MISC. TOOLS	Torch, oxygen/fuel gas, portable kit, w/ attachments (gauges, hoses, wands) standard parts kit included, Petrogen SAR Kit plus cart	3	3	2	2	each
RESCUE	MISC. TOOLS	PCS Portable Kit , PCS	1	1	1	1	each
RESCUE	MISC. TOOLS	Tip, Petrogen Size 5, spare	8	8	8	8	each
RESCUE	MISC. TOOLS	Tip, Petrogen Size 81, spare	8	8	8	8	each
RESCUE	MISC. TOOLS	Tip, Petrogen Size 83, spare	8	8	8	8	each
RESCUE	MISC. TOOLS	Adapter Kit, Multi fuel	4	4	2	2	each
RESCUE	MISC. TOOLS	Torch, Breach, 75 Degree	1	1	1	1	each
RESCUE	MISC. TOOLS	Fitting, Quick Disconnect, Oxygen Hose	4	4	4	4	each
RESCUE	MISC. TOOLS	Fitting, Quick Disconnect, Gasoline Hose	4	4	4	4	each
RESCUE	MISC. TOOLS	Parts Kit, Standard	4	4	4	4	each
RESCUE	MISC. TOOLS	Striker for Torch, oxygen/fuel gas	20	20	10	10	each

PNEUMATIC POWERED TOOLS

RESCUE	PNEUMATIC POWERED TOOLS	Pneumatic Powered Tools	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
RESCUE	PNEUMATIC POWERED TOOLS	Air bag, lifting, high-pressure, Kevlar, 40-50 ton capacity	2	2	2	2	each
RESCUE	PNEUMATIC POWERED TOOLS	Air bag, lifting, high-pressure, Kevlar, 30-36 ton capacity, rectangular shape	2	2	2	2	each
RESCUE	PNEUMATIC POWERED TOOLS	Air bag, lifting, high-pressure, Kevlar, 3 ton capacity	1	1	1	1	each
RESCUE	PNEUMATIC POWERED TOOLS	Air bag, lifting, high-pressure, Kevlar, 5 ton capacity	1	1	1	1	each
RESCUE	PNEUMATIC POWERED TOOLS	Air bag, lifting, high-pressure, Kevlar, 16-20 ton capacity	2	2	2	2	each
RESCUE	PNEUMATIC POWERED TOOLS	Air bag, lifting, high-pressure, Kevlar, 28-34 ton capacity	2	2	2	2	each
RESCUE	PNEUMATIC POWERED TOOLS	Air bag, lifting, high-pressure, Kevlar, 8-15 ton capacity	1	1	1	1	each
RESCUE	PNEUMATIC POWERED TOOLS	Regulator, pressure, Air bag, 125 - 5000 psi	2	2	2	2	each
RESCUE	PNEUMATIC POWERED TOOLS	Adapter Kit, Air bag, high-pressure	1	1	1	1	each
RESCUE	PNEUMATIC POWERED TOOLS	Valve, manifold/control, Air bag, high-pressure, KIT	1	1	1	1	each
RESCUE	PNEUMATIC POWERED TOOLS	Hose, Air bag, lifting, 32', yellow, SPARE	2	2	2	2	each
RESCUE	PNEUMATIC POWERED TOOLS	Hose, Air bag, lifting, 32', red, SPARE	2	2	2	2	each
RESCUE	PNEUMATIC POWERED TOOLS	Controller, Deadman, SPARE	1	1	1	1	each
RESCUE	PNEUMATIC POWERED TOOLS	O ring, replacements, for regulator to SCBA bottle connection	50	50	25	25	each

RESCUE	PNEUMATIC POWERED TOOLS	Pneumatic Powered Tools	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
RESCUE	PNEUMATIC POWERED TOOLS	Valve, Relief, Air bag, for high-pressure air bags	8	8	4	4	each
RESCUE	PNEUMATIC POWERED TOOLS	Gun, nail, pneumatic, 8D through 16D general purpose	2	2	2	2	each
RESCUE	PNEUMATIC POWERED TOOLS	Hose, Air, 50' sections	4	4	4	4	each
RESCUE	PNEUMATIC POWERED TOOLS	Nails, Pneumatic Gun, 8D, box	2	2	2	2	box
RESCUE	PNEUMATIC POWERED TOOLS	Nails, Pneumatic Gun, 16D, box	2	2	2	2	box
RESCUE	PNEUMATIC POWERED TOOLS	Regulator, in-line	2	2	2	2	each
RESCUE	PNEUMATIC POWERED TOOLS	Gauge, Regulator	2	2	2	2	each
RESCUE	PNEUMATIC POWERED TOOLS	Regulator, Piston Type (6,000- 135 PSI)	2	2	0	0	each
RESCUE	PNEUMATIC POWERED TOOLS	Nipple, 1/4" Male, (inline Reg)	4	4	4	4	each
RESCUE	PNEUMATIC POWERED TOOLS	Nipple, 1/4" Coupling, Female, (inline Reg)	2	2	2	2	each
RESCUE	PNEUMATIC POWERED TOOLS	Strut, US&R Rescue Strut System	1	1	0	0	kit
RESCUE	PNEUMATIC POWERED TOOLS	Strut, Expandable, Acme Rescue 25" - 36"	4	4	0	0	each
RESCUE	PNEUMATIC POWERED TOOLS	Strut, Expandable, Acme Rescue 37" - 58"	4	4	0	0	each
RESCUE	PNEUMATIC POWERED TOOLS	Strut, Expandable, Acme Rescue, 56" - 88"	4	4	0	0	each
RESCUE	PNEUMATIC POWERED TOOLS	Strut, Expandable, Acme Rescue, 19" - 25"	4	4	0	0	each
RESCUE	PNEUMATIC POWERED TOOLS	Strut, Expandable, pneumatic, Strut 610	12	12	0	0	each
RESCUE	PNEUMATIC POWERED TOOLS	Load Cell, Shore, Expandable, 20K Hydr Load Indicator	4	4	0	0	each
RESCUE	PNEUMATIC POWERED TOOLS	Extension, Strut, Expandable, 12"	4	4	0	0	each
RESCUE	PNEUMATIC POWERED TOOLS	Extension, Strut, Expandable, 18" - 24"	4	4	0	0	each
RESCUE	PNEUMATIC POWERED TOOLS	Extension, Strut, Expandable, 24" - 36"	4	4	0	0	each
RESCUE	PNEUMATIC POWERED TOOLS	Pad, Nailing Pad with clamp	12	12	0	0	each
RESCUE	PNEUMATIC POWERED TOOLS	Regulator, Pneumatic, Shore, Expandable	2	2	0	0	each
RESCUE	PNEUMATIC POWERED TOOLS	Hose, Air, Shore, Expandable, 32', YELLOW	2	2	0	0	each
RESCUE	PNEUMATIC POWERED TOOLS	Controller, Dead man, Shore, Expandable	2	2	0	0	each
RESCUE	PNEUMATIC POWERED TOOLS	Base, Rigid, 6"	30	30	0	0	each
RESCUE	PNEUMATIC POWERED TOOLS	Strut, Threaded, Acme, Shore, Expandable, 12" - 15"	4	4	0	0	each
RESCUE	PNEUMATIC POWERED TOOLS	Raker Rail Latch Base	8	8	0	0	each

RESCUE	PNEUMATIC POWERED TOOLS	Pneumatic Powered Tools	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
RESCUE	PNEUMATIC POWERED TOOLS	Raker Junction Base	4	4	0	0	each
RESCUE	PNEUMATIC POWERED TOOLS	Raker Rail Splice	4	4	0	0	each
RESCUE	PNEUMATIC POWERED TOOLS	Raker Angle Base	4	4	0	0	each
RESCUE	PNEUMATIC POWERED TOOLS	Base, Swivel, 6"	30	30	0	0	each
RESCUE	PNEUMATIC POWERED TOOLS	Base, Hinged 12" with anchor ring	4	4	0	0	each
RESCUE	PNEUMATIC POWERED TOOLS	Racker Rail, 6'	8	8	0	0	each
RESCUE	PNEUMATIC POWERED TOOLS	Long Shore Extension 235	4	4	0	0	each
RESCUE	PNEUMATIC POWERED TOOLS	Long Shore Extension 435	4	4	0	0	each
RESCUE	PNEUMATIC POWERED TOOLS	Long Shore Extension 635	4	4	0	0	each
RESCUE	PNEUMATIC POWERED TOOLS	Rail Latch Holder	2	2	0	0	each
RESCUE	PNEUMATIC POWERED TOOLS	Hammer, Shoring	16	16	0	0	each
RESCUE	PNEUMATIC POWERED TOOLS	Hose, Air, Shore, Expandable, 32', BLACK	2	2	0	0	each
RESCUE	PNEUMATIC POWERED TOOLS	Hose, Air, Shore, Expandable, 32', RED	2	2	0	0	each
RESCUE	PNEUMATIC POWERED TOOLS	Raker System, FEMA, 6ft, complete	2	2	0	0	kit
RESCUE	PNEUMATIC POWERED TOOLS	Base, Junction, Raker	2	2	0	0	per kit
RESCUE	PNEUMATIC POWERED TOOLS	Raker Angle Base	2	2	0	0	per kit
RESCUE	PNEUMATIC POWERED TOOLS	Raker Rail Latch Base	6	6	0	0	per kit
RESCUE	PNEUMATIC POWERED TOOLS	Rail 4 Latch Holder	1	1	0	0	per kit
RESCUE	PNEUMATIC POWERED TOOLS	Raker Rail Splice	2	2	0	0	per kit
RESCUE	PNEUMATIC POWERED TOOLS	Long Shore Extension 235	2	2	0	0	per kit
RESCUE	PNEUMATIC POWERED TOOLS	Long Shore Extension 435	2	2	0	0	per kit
RESCUE	PNEUMATIC POWERED TOOLS	Pad, Nailing Pad with clamp	6	6	0	0	per kit
RESCUE	PNEUMATIC POWERED TOOLS	Base, Hinged 12" with anchor ring	2	2	0	0	per kit
RESCUE	PNEUMATIC POWERED TOOLS	Raker Rail, 6'	4	4	0	0	per kit
RESCUE	PNEUMATIC POWERED TOOLS	Long Shore Extension 635	2	2	0	0	per kit
RESCUE	PNEUMATIC POWERED TOOLS	Strut, Expandable, pneumatic, Strut 610	4	4	0	0	per kit
RESCUE	PNEUMATIC POWERED TOOLS	Hammer, Shoring	4	4	0	0	per kit

RESCUE	PNEUMATIC POWERED TOOLS	Pneumatic Powered Tools	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
RESCUE	PNEUMATIC POWERED TOOLS	Pneumatic Powered Tools	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
RESCUE	PNEUMATIC POWERED TOOLS	BI-Pod Conversion Kit	1	1	0	0	each
RESCUE	PNEUMATIC POWERED TOOLS	Nailer, Palm, 50-125 psi	2	2	2	2	each
RESCUE	PNEUMATIC POWERED TOOLS	Chisel Kit, Pneumatic, complete, w/ accessories	1	1	1	1	Kit
RESCUE	PNEUMATIC POWERED TOOLS	Hammer, Air, Quik-Kut HD	1	1	1	1	per kit
RESCUE	PNEUMATIC POWERED TOOLS	Bit, Curved flat, 18"	1	1	1	1	per kit
RESCUE	PNEUMATIC POWERED TOOLS	Bit, Curved flat, 8"	1	1	1	1	per kit
RESCUE	PNEUMATIC POWERED TOOLS	Bit, Curved flat 11"	1	1	1	1	per kit
RESCUE	PNEUMATIC POWERED TOOLS	Bit, Dual cutter, 11"	1	1	1	1	per kit
RESCUE	PNEUMATIC POWERED TOOLS	Bit, Flat face, 18"	1	1	1	1	per kit
RESCUE	PNEUMATIC POWERED TOOLS	Bit, Bullpoint, 18"	1	1	1	1	per kit
RESCUE	PNEUMATIC POWERED TOOLS	Bit, (T) Panel, 11"	1	1	1	1	per kit
RESCUE	PNEUMATIC POWERED TOOLS	Regulator, Piston, 4500 psi	1	1	1	1	per kit
RESCUE	PNEUMATIC POWERED TOOLS	Hose, Air Supply, 16 ft	1	1	1	1	per kit
RESCUE	PNEUMATIC POWERED TOOLS	Case, Carrying, Molded	1	1	1	1	per kit
RESCUE	PNEUMATIC POWERED TOOLS	Oil, Lubricating, Air tool	1	1	1	1	per kit
RESCUE	PNEUMATIC POWERED TOOLS	Load Cell, Shore, Expandable, 20K Hydr Load Indicator	4	4	0	0	each
RESCUE	PNEUMATIC POWERED TOOLS	U channel Base 4 x 4, SPARE	10	10	0	0	each
RESCUE	PNEUMATIC POWERED TOOLS	U channel Base 6 x 6, SPARE	10	10	0	0	each

SAFETY

RESCUE	SAFETY	Safety	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
RESCUE	SAFETY	Binoculars, 10 x 50 power, waterproof	4	4	2	2	each
RESCUE	SAFETY	Blower, ventilation, for confined space, electric, (NIOSH/OSHA compliant and intrinsically rated)	2	2	2	2	each
RESCUE	SAFETY	Duct, 8"x 25', Reinforced, in carry bag,	2	2	2	2	each
RESCUE	SAFETY	Adapter, Inlet Duct	2	2	2	2	each

RESCUE	SAFETY	Safety	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
RESCUE	SAFETY	Breathing apparatus, airline-supplied (SABA), 4500 PSI, with 10-minute escape cylinder, NIOSH/OSHA approved	6	6	4	4	each
RESCUE	SAFETY	Breathing apparatus, Cylinders (spare), 10-minute, 4500 psi	2	2	2	2	each
RESCUE	SAFETY	Cylinder, Breathing apparatus, 1-hour, 4500 psi, (spare)	8	8	6	6	each
RESCUE	SAFETY	Mask, face piece, compatible w/ SCBA, supplied air system, spare for patient use, Various sizes	4	4	4	4	each
RESCUE	SAFETY	Line, supply, 50', breathing air quality, compatible with SCBA and supplied air system	30	30	30	30	each
RESCUE	SAFETY	Air box, portable supplied air system, NIOSH/OSHA compliant or equivalent, with Hansen fittings	2	2	2	2	each
RESCUE	SAFETY	Extinguisher, water, backpack-type	2	2	2	2	each
RESCUE	SAFETY	Extinguisher, dry chemical, 20 lb., ABC-type	2	2	2	2	each
RESCUE	SAFETY	Heater, for Blower, ventilation, (electric or LP with accessories) for RJ-0102.00	1	1	1	1	each
RESCUE	SAFETY	Regulator, (propane, B Hose)	1	1	1	1	each
RESCUE	SAFETY	Hose, 12' Propane, B Fitting	1	1	1	1	each
RESCUE	SAFETY	Lockout/Tagout Kit	1	1	1	1	Kit / see Kit Lists tab
RESCUE	SAFETY	Lockout, Plug	1	1	1	1	per kit
RESCUE	SAFETY	Lock, Multi Pole Breaker	2	2	2	2	per kit
RESCUE	SAFETY	Lock, Single Pole Breaker	3	3	3	3	per kit
RESCUE	SAFETY	Sign, Vinyl, 3x5 WYL	10	10	10	10	per kit
RESCUE	SAFETY	Donut, Safety 1" - 2 1/2"	1	1	1	1	per kit
RESCUE	SAFETY	Donut, Safety 5" - 6 1/2"	1	1	1	1	per kit
RESCUE	SAFETY	Hasp, lockout, 1/2 inch Steel	3	3	3	3	per kit
RESCUE	SAFETY	Lockout, Wall Switch	1	1	1	1	per kit
RESCUE	SAFETY	Sign, Lockout, 5x7	5	5	5	5	per kit
RESCUE	SAFETY	Sensor, Voltage, AC, 120 - 160	1	1	1	1	per kit
RESCUE	SAFETY	Lock, Braided, Blue, (padlock)	3	3	3	3	per kit
RESCUE	SAFETY	Identifiers, Lock	1	1	1	1	per kit
RESCUE	SAFETY	Box	1	1	1	1	per kit
RESCUE	SAFETY	Sensor, Voltage, AC	1	1	1	1	per kit
RESCUE	SAFETY	Tags, Lockout, "20 pack"	1	1	1	1	per kit
RESCUE	SAFETY	Permit, confined space entry, pre-made, Package of 25	1	1	1	1	each
RESCUE	SAFETY	Sprayer, pressure, 3 gallon, pump type	2	2	2	2	each

RESCUE	SAFETY	Safety	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
RESCUE	SAFETY	US&R Task Force Kit w/ Case	1	1	1	1	Kit
RESCUE	SAFETY	Power Talk Box	1	1	1	1	per kit
RESCUE	SAFETY	Module, Command	1	1	1	1	per kit
RESCUE	SAFETY	Face Mask Rescuer Set	4	4	4	4	per kit
RESCUE	SAFETY	Harness, Speaker	4	4	4	4	per kit
RESCUE	SAFETY	Headset	1	1	1	1	per kit
RESCUE	SAFETY	Splitter, Double w/ mute switch	1	1	1	1	per kit
RESCUE	SAFETY	Cable, Operator, 1' w/ mute	2	2	2	2	per kit
RESCUE	SAFETY	Cable, 50'	1	1	1	1	per kit
RESCUE	SAFETY	Cable, Intercom, 100' with strain relief and snap hook	4	4	4	4	per kit
RESCUE	SAFETY	Cable, Operator, 20' with mute	1	1	1	1	per kit
RESCUE	SAFETY	Module, CSI-1100 Mini	1	1	1	1	per kit
RESCUE	SAFETY	Power Talk Box Controller	1	1	1	1	per kit
RESCUE	SAFETY	Rescue Prob	1	1	1	1	per kit
RESCUE	SAFETY	Headset, Behind the head 32" single w/ heavy duty clothing clip, and Boom Mic windscreen	1	1	1	1	per kit
RESCUE	SAFETY	Coupler, Pipe	1	1	1	1	per kit
RESCUE	SAFETY	Cord, 50' prob cord with snap hook	1	1	1	1	per kit
RESCUE	SAFETY	Cable, 25' prob interface cable	1	1	1	1	per kit
RESCUE	SAFETY	Cable, 18" expansion w/ connectors	1	1	1	1	per kit
RESCUE	SAFETY	Switch, Remote Foot Switch	1	1	1	1	per kit
RESCUE	SAFETY	Cable, 100' with connectors	8	8	8	8	per kit
RESCUE	SAFETY	Cover, Umbilical, Black 100'	1	1	1	1	per kit
RESCUE	SAFETY	Cover, Umbilical, Red 100'	1	1	1	1	per kit
RESCUE	SAFETY	Cover, Umbilical, Orange 100'	1	1	1	1	per kit
RESCUE	SAFETY	Cover, Umbilical, Blue 100'	1	1	1	1	per kit
RESCUE	SAFETY	Bag, Carry 1000 soft	1	1	1	1	per kit
RESCUE	SAFETY	Bag, Cable 300'	4	4	4	4	per kit
RESCUE	SAFETY	Cable Coiler	1	1	1	1	per kit
RESCUE	SAFETY	Splitter, Double w/ mute switch	1	1	1	1	each
RESCUE	SAFETY	Splitter, Cable	1	1	1	1	each

TECHNICAL ROPE

RESCUE	TECHNICAL ROPE	Technical Rope	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
RESCUE	TECHNICAL ROPE	Sling, Rope	2	2	2	2	each
RESCUE	TECHNICAL ROPE	Pulley, Double, Omni Block, Rescue Grade, 2", aluminum Frame, Double Sheave PMP	8	8	8	8	each

RESCUE	TECHNICAL ROPE	Technical Rope	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
RESCUE	TECHNICAL ROPE	Hauling system, Rope, 4:1 advantage w/ 200 ft. of lifeline, static kernmantle, 1/2" diameter, MTS 9,000 lbs. must meet or exceed NFPA 1983, with bag	2	2	2	2	each
RESCUE	TECHNICAL ROPE	Ascenders, Rope, Gibbs, camming device for 1/2" rope, (5400 lbs. breaking strength)	4	4	4	2	each
RESCUE	TECHNICAL ROPE	Ascenders, Rope, camming device for 1/2" rope, (5400 lbs. breaking strength) Left Hand	2	2	2	2	each
RESCUE	TECHNICAL ROPE	Ascenders, Rope, camming device for 1/2" rope, (5400 lbs. breaking strength) Right Hand	2	2	2	2	each
RESCUE	TECHNICAL ROPE	Harness, Rope, full body (OSHA confined space standard compliant) Size - Regular	4	4	4	4	each
RESCUE	TECHNICAL ROPE	Harness, Rope, full body (OSHA confined space standard compliant) Size - XL	4	4	4	4	each
RESCUE	TECHNICAL ROPE	Racks, Rigging, RSI, Plate, Rigging, Aluminum, 11690 lbs. breaking strength	4	4	2	2	each
RESCUE	TECHNICAL ROPE	Rack, Rappel, 6 bar	4	4	2	2	each
RESCUE	TECHNICAL ROPE	Roller, Edge, Rope	2	2	2	2	each
RESCUE	TECHNICAL ROPE	Guard, Edge	8	8	4	4	each
RESCUE	TECHNICAL ROPE	Book, Log, Rope usage	8	8	8	4	each
RESCUE	TECHNICAL ROPE	Bag, Rope, rescue hardware	4	4	4	4	each
RESCUE	TECHNICAL ROPE	Pulley, 2", omni block with built in swivel, single sheave for 1/2" rope	20	20	20	20	each
RESCUE	TECHNICAL ROPE	Pully, 3", rescue grade, prusik-minding, aluminum frame, single sheave for 1/2" rope	2	2	2	2	each
RESCUE	TECHNICAL ROPE	Rope, lifeline, 300' lengths of nylon static (ORANGE), Kernmantle, 1/2" diameter, minimum tensile strength (MTS) 9000 lbs., must meet or exceed NFPA 1983	1	1	1	1	each
RESCUE	TECHNICAL ROPE	Rope, lifeline, 300' lengths of nylon static (RED), Kernmantle, 1/2" diameter, minimum tensile strength (MTS) 9000 lbs., must meet or exceed NFPA 1983	1	1	1	1	each
RESCUE	TECHNICAL ROPE	Rope, lifeline, 200' lengths of nylon static (WHITE), Kernmantle, 1/2" diameter, minimum tensile strength (MTS) 9000 lbs., must meet or exceed NFPA 1983	3	3	3	3	each
RESCUE	TECHNICAL ROPE	Rope, lifeline, 200' lengths of nylon static (BLUE), Kernmantle, 1/2" diameter, minimum tensile strength (MTS) 9000 lbs., must meet or exceed NFPA 1983	3	3	3	3	each
RESCUE	TECHNICAL ROPE	Carabiners, Rope, locking "D", 10,000 tensile strength, must meet NFPA 1983/ANSI/OSHA requirements for General Use, aluminum	52	52	52	52	each
RESCUE	TECHNICAL ROPE	Rope, tag line, nylon, 200' lengths of 8mm, MTS 2,600 lbs., must meet or exceed NFPA 1983	8	8	4	4	each
RESCUE	TECHNICAL ROPE	Cord, prussik, 8mm, Red	300	300	200	200	feet

RESCUE	TECHNICAL ROPE	Technical Rope	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
RESCUE	TECHNICAL ROPE	Cord, prussik, 8mm, Green	300	300	200	200	feet
RESCUE	TECHNICAL ROPE	Webbing, tubular, 2", MTS 6,000 lbs.	150	150	100	100	feet
RESCUE	TECHNICAL ROPE	Rope, throw, water rescue, 75', with bag, (throw bag part #433175)	4	4	4	4	each
RESCUE	TECHNICAL ROPE	Tripod, tubular aluminum, or Arizona Vortex Rescue System, adjustable between 6' and 8', minimum work load of 600 lbs.	1	1	1	1	each
RESCUE	TECHNICAL ROPE	Pulley, Knot Passing	2	2	2	2	each
RESCUE	TECHNICAL ROPE	Webbing, Tubular, 1", MBS 4,000 lbs., 300' roll, Various Colors	6	6	6	6	each
RESCUE	TECHNICAL ROPE	Strap, Anchor - Pro-Series, medium	4	4	4	4	each
RESCUE	TECHNICAL ROPE	Strap, Anchor - Pro-Series, XL	4	4	4	4	each
RESCUE	TECHNICAL ROPE	Strap, Pick-off - Pro-Series	4	4	4	4	each
RESCUE	TECHNICAL ROPE	Rope, Utility, Solid Braid, 3/8" 125' roll	3	3	3	3	rolls
RESCUE	TECHNICAL ROPE	Drop bags, with 8mm utility line, 100'	2	2	2	2	each
RESCUE	TECHNICAL ROPE	MPD, multi-purpose device 1/2 inch red	2	2	2	2	each
RESCUE	TECHNICAL ROPE	CMC, Tower Climb, Azzard	10	10	10	10	each
RESCUE	TECHNICAL ROPE	Descender, Petzl Id for General Use	4	4	4	4	each
RESCUE	TECHNICAL ROPE	Lanyard, Bypass, 6', Adjustable	4	4	4	4	each
RESCUE	TECHNICAL ROPE	Bag, Rope, for 200' - 300' rope	8	8	8	8	each
RESCUE	TECHNICAL ROPE	Stretcher, Sked, Roll up, Full Size	2	2	2	2	each
RESCUE	TECHNICAL ROPE	Litter, Stokes, without Leg Separators (Metal Wire type)	2	2	2	2	each
RESCUE	TECHNICAL ROPE	Bridle, Litter, Proseries Litter Harness	2	2	2	2	each
RESCUE	TECHNICAL ROPE	Litter wheel, Stokes basket	1	1	1	1	each
RESCUE	TECHNICAL ROPE	Aztek Elite, Mini 4:1, Rope Kit	8	8	8	8	each
RESCUE	TECHNICAL ROPE	Backboard Half, confined space immobilization, c-spine	2	2	2	2	each

TECHNICAL

CANINE SEARCH EQUIPMENT

TECHNICAL	CANINE SEARCH EQUIPMENT	Canine Search Equipment	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
TECHNICAL	CANINE SEARCH EQUIPMENT	Dish, Canine, Stainless Steel, 64 oz.	4	4	2	0	each
TECHNICAL	CANINE SEARCH EQUIPMENT	Harness, tie-down (for canine air transport) one size - adjustable	4	4	2	0	each
TECHNICAL	CANINE SEARCH EQUIPMENT	Tie-out cable lead, 20 ft	4	4	2	0	each

TECHNICAL	CANINE SEARCH EQUIPMENT	Canine Search Equipment	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
TECHNICAL	CANINE SEARCH EQUIPMENT	Lifting harness, 1 per canine assigned to Task Force (personal issue to handler), sized to fit (Or equivalent Make/Model)	12	12	6	0	each
TECHNICAL	CANINE SEARCH EQUIPMENT	Pad, resting XL	4	4	2	0	each
TECHNICAL	CANINE SEARCH EQUIPMENT	Stake, Canine, Tie Out,	4	4	2	0	each
TECHNICAL	CANINE SEARCH EQUIPMENT	Shower, Solar, 5 gal	4	4	2	0	each
TECHNICAL	CANINE SEARCH EQUIPMENT	Kit, Decon, Canine, (Utilize 1 Contamination Reduction Kit from HazMat HG-0150.00) and the following listed Canine Decon Support Supplies	1	1	1	0	each
TECHNICAL	CANINE SEARCH EQUIPMENT	Gloves, Latex-free, Non-sterile, 100/box, 3 boxes total - 1 box each: small, medium, large	3	3	2	0	box
TECHNICAL	CANINE SEARCH EQUIPMENT	Goggles, Safety	25	25	12	0	pair
TECHNICAL	CANINE SEARCH EQUIPMENT	Overgloves, Heavy Duty, Rubber	25	25	12	0	pair
TECHNICAL	CANINE SEARCH EQUIPMENT	Masks, Particle, Dust, 50/box	1	1	1	0	box
TECHNICAL	CANINE SEARCH EQUIPMENT	Coveralls, plain (Tyvek, Saranex or equivalent)	25	25	12	0	each
TECHNICAL	CANINE SEARCH EQUIPMENT	Bag, Garbage, Heavy Duty, Large, roll	2	2	1	0	roll
TECHNICAL	CANINE SEARCH EQUIPMENT	Sheeting, Plastic, 6 mil, 20' foot x 100' feet, Clear	1	1	1	0	each
TECHNICAL	CANINE SEARCH EQUIPMENT	Towels, Absorbent, 100/box	1	1	1	0	each
TECHNICAL	CANINE SEARCH EQUIPMENT	Liquid, Dishwashing, (Dawn or Palmolive) 20 oz (to equal 1 gallon total)	6	6	3	0	each
TECHNICAL	CANINE SEARCH EQUIPMENT	Shampoo, Canine 16 oz (to equal 1 gallon)	8	8	4	0	each
TECHNICAL	CANINE SEARCH EQUIPMENT	Ophthalmic Saline, 0.9% NaCl, 4 oz. (saline or purified water)	5	5	3	0	bottle
TECHNICAL	CANINE SEARCH EQUIPMENT	Powder, Absorbent, (Cornstarch, Talcum, Baking soda) 15 oz.	1	1	1	0	bottle
TECHNICAL	CANINE SEARCH EQUIPMENT	Brushes, Scrub, Plain surgical, 30/box	2	2	2	0	box
TECHNICAL	CANINE SEARCH EQUIPMENT	Towelettes, Moist, (Baby Wipes, Wet Ones) 50/box	3	3	3	0	box
TECHNICAL	CANINE SEARCH EQUIPMENT	Combs, Plastic, disposable	5	5	3	0	each
TECHNICAL	CANINE SEARCH EQUIPMENT	Leashes, Disposable, Nylon, 50/box	1	1	1	0	box
TECHNICAL	CANINE SEARCH EQUIPMENT	Dryer, K9, with hoses and accessories	1	1	1	0	each
TECHNICAL	CANINE SEARCH EQUIPMENT	Muzzle, adjustable, basket type, leather or nylon, 10 total - 5 each: medium, large	10	10	5	0	each
TECHNICAL	CANINE SEARCH EQUIPMENT	Scissors, Bandage/Trauma	5	5	3	0	each
TECHNICAL	CANINE SEARCH EQUIPMENT	Container, for Decon Kit Support Supplies	1	1	1	0	each

TECHNICAL	CANINE SEARCH EQUIPMENT	Canine Search Equipment	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
TECHNICAL	CANINE SEARCH EQUIPMENT	Bottles, Spray, 16 oz	2	2	2	0	each
TECHNICAL	CANINE SEARCH EQUIPMENT	Mineral Oil, 16 oz	2	2	2	0	each
TECHNICAL	CANINE SEARCH EQUIPMENT	Tape, duct	1	1	1	0	roll
TECHNICAL	CANINE SEARCH EQUIPMENT	Hazmat Basin ('Canine Pool')	2	2	2	0	each
TECHNICAL	CANINE SEARCH EQUIPMENT	Shelving, plastic, free-standing; 24" depth x 36" width	1	1	1	0	each
TECHNICAL	CANINE SEARCH EQUIPMENT	Dri-Dek tiles, 12"x12"	12	12	12	0	each
TECHNICAL	CANINE SEARCH EQUIPMENT	Rope, plastic, 20'	1	1	1	0	each
TECHNICAL	CANINE SEARCH EQUIPMENT	Tie, Cable, nylon, Assortment	1	1	1	0	packet
TECHNICAL	CANINE SEARCH EQUIPMENT	Vest, Travel, Canine, FEMA US&R Design, 12 Total: small, medium, large sizes determined by per TF	12	12	6	0	each
TECHNICAL	CANINE SEARCH EQUIPMENT	Container, Storage, K9 Food, 30lb	4	4	2	0	each
TECHNICAL	CANINE SEARCH EQUIPMENT	Boots, Protective, K9, (4 per set)(Size Determined by Task Forces)	12	12	6	0	sets
TECHNICAL	CANINE SEARCH EQUIPMENT	Coat, Cold weather, K9 (Size Determined by Task Force)	12	12	6	0	each
TECHNICAL	CANINE SEARCH EQUIPMENT	Kennel, K9, total of 8 Kennels no more than 4 of any one Type	8	8	4	0	Total
TECHNICAL	CANINE SEARCH EQUIPMENT	Kennel, portable, collapsible, Airline travel approved (Giant)	4	4	2	0	No more than 4
TECHNICAL	CANINE SEARCH EQUIPMENT	Kennel, K9 Vehicle Travel Crate, 36"L x 24"W x 28"H	4	4	2	0	No more than 4
TECHNICAL	CANINE SEARCH EQUIPMENT	Kennel, portable, collapsible, coated wire with single door and plastic tray, 42x28x30	4	4	2	0	No more than 4
TECHNICAL	CANINE SEARCH EQUIPMENT	Eye, Protection, Canine	12	12	6	0	each

TECHNICAL INFORMATION SUPPLIES

TECHNICAL	TECHNICAL INFO	Technical Information Supplies	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
TECHNICAL	TECHNICAL INFO	Camera, Digital, Kit, to include EOS 60D EF-S 18-200IS Kit with EF 70-300mm f/4-5.6 IS USM Lens	1	1	1	1	each
TECHNICAL	TECHNICAL INFO	Card, Memory, 16GB, Compact Digital Camera	1	1	1	1	each
TECHNICAL	TECHNICAL INFO	Recorder, Digital Voice, hand-held, 2-4 gb, with accessory kit	3	3	2	2	each

TECHNICAL	TECHNICAL INFO	Technical Information Supplies	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
TECHNICAL	TECHNICAL INFO	Television/Monitor 19-30", Digital Ready	1	1	1	1	each
TECHNICAL	TECHNICAL INFO	Video camera, hand-held, digital, with low light capability, complete with case, batteries, charger, cables, manual, and associated accessories	1	1	1	1	each
TECHNICAL	TECHNICAL INFO	Card, Memory, 2-8 gigabyte, Video, digital	1	1	1	1	each
TECHNICAL	TECHNICAL INFO	Camera, digital, water / shock resistant, GPS, 16 MP w/accessories: Carry case, 2 batteries (EN-EL12), charger, cables, adapters, memory card, mini tripod, software, manual	2	2	1	1	each
TECHNICAL	TECHNICAL INFO	Card, Memory, 16 gigabyte, Digital Camera	4	4	4	4	each
TECHNICAL	TECHNICAL INFO	Projector, Video, LCD, 1024 x 768 (XGA) minimum, to include cable kit	1	1	1	1	each
TECHNICAL	TECHNICAL INFO	Lamp, Spare	1	1	1	1	each
TECHNICAL	TECHNICAL INFO	Scale, Photo evidence, 6", gray,	10	10	5	5	each
TECHNICAL	TECHNICAL INFO	Scale, Pocket, Credit Card size	10	10	5	5	each
TECHNICAL	TECHNICAL INFO	Scale, Photomacrographic, 4" x 4", "L" Shape	4	4	2	2	each
TECHNICAL	TECHNICAL INFO	Scale, Photography, Track, Reversible, "L" Shape	4	4	2	2	each
TECHNICAL	TECHNICAL INFO	Markers, Engraved, Photo Identification, Set, A-Z	2	2	2	2	set
TECHNICAL	TECHNICAL INFO	Markers, Engraved, Photo Identification, Set, numbers 1-25	1	1	1	1	set
TECHNICAL	TECHNICAL INFO	Markers, Arrow, Photo Identification, (20/pkg)	2	2	2	2	set
TECHNICAL	TECHNICAL INFO	Ruler, Tape, Evidence, 12", adhesive	4	4	2	2	each
TECHNICAL	TECHNICAL INFO	Scale, Adhesive, Photo Evidence, 2", White, roll of 1000	2	2	1	1	roll
TECHNICAL	TECHNICAL INFO	Printer, Photo, For Digital Camera, Includes ink cartages, software, cables, manual, and associated accessories	1	1	1	1	each
TECHNICAL	TECHNICAL INFO	Camera, Digital, Kit, to include EOS 60D EF-S 18-200IS Kit with EF 70-300mm f/4-5.6 IS USM Lens	1	1	1	1	each
TECHNICAL	TECHNICAL INFO	Card, Memory, 16GB, Compact Digital Camera	1	1	1	1	each
TECHNICAL	TECHNICAL INFO	Recorder, Digital Voice, hand-held, 2-4 gb, with accessory kit	3	3	2	2	each
TECHNICAL	TECHNICAL INFO	Television/Monitor 19-30", Digital Ready	1	1	1	1	each

TECHNICAL	TECHNICAL INFO	Technical Information Supplies	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
TECHNICAL	TECHNICAL INFO	Video camera, hand-held, digital, with low light capability, complete with case, batteries, charger, cables, manual, and associated accessories	1	1	1	1	each
TECHNICAL	TECHNICAL INFO	Card, Memory, 2-8 gigabyte, Video, digital	1	1	1	1	each
TECHNICAL	TECHNICAL INFO	Camera, digital, water / shock resistant, GPS, 16 MP w/accessories: Carry case, 2 batteries (EN-EL12), charger, cables, adapters, memory card, mini tripod, software, manual	2	2	1	1	each
TECHNICAL	TECHNICAL INFO	Card, Memory, 16 gigabyte, Digital Camera	4	4	4	4	each
TECHNICAL	TECHNICAL INFO	Projector, Video, LCD, 1024 x 768 (XGA) minimum, to include cable kit	1	1	1	1	each
TECHNICAL	TECHNICAL INFO	Lamp, Spare	1	1	1	1	each
TECHNICAL	TECHNICAL INFO	Scale, Photo evidence, 6", gray,	10	10	5	5	each
TECHNICAL	TECHNICAL INFO	Scale, Pocket, Credit Card size	10	10	5	5	each
TECHNICAL	TECHNICAL INFO	Scale, Photomacrographic, 4" x 4", "L" Shape	4	4	2	2	each
TECHNICAL	TECHNICAL INFO	Scale, Photography, Track, Reversible, "L" Shape	4	4	2	2	each

TECHNICAL SEARCH EQUIPMENT

TECHNICAL	TECHNICAL SEARCH EQUIPMENT	Technical Search Equipment	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
TECHNICAL	TECHNICAL SEARCH EQUIPMENT	Camera, Search, telescoping with color monitor, w/ accessories, two additional batteries, recharging system and storage case.	2	2	1	1	each
TECHNICAL	TECHNICAL SEARCH EQUIPMENT	Camera, Search, Mongoose or equivalent	2	2	1	1	each
TECHNICAL	TECHNICAL SEARCH EQUIPMENT	Backpack/Equipment Vest (for carrying small items)	2	2	1	1	each
TECHNICAL	TECHNICAL SEARCH EQUIPMENT	Cutter, Bolt, 18"	2	2	1	1	each
TECHNICAL	TECHNICAL SEARCH EQUIPMENT	Megaphone, battery-type,	2	2	1	1	each
TECHNICAL	TECHNICAL SEARCH EQUIPMENT	Hammer, sledge 12 lb., fiberglass handle	2	2	1	1	each

TECHNICAL	TECHNICAL SEARCH EQUIPMENT	Technical Search Equipment	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
TECHNICAL	TECHNICAL SEARCH EQUIPMENT	Listening device, portable electronic, using combination seismic and acoustic surveillance and location device (minimum of six sensors to allow for triangulation) Should have 2-way communications capability with victim	2	2	1	1	each
TECHNICAL	TECHNICAL SEARCH EQUIPMENT	Clamps, Wall, Listening device	4	4	2	2	each
TECHNICAL	TECHNICAL SEARCH EQUIPMENT	Axe, Pry, (w/ standard claw and leather sheath)	2	2	1	1	each
TECHNICAL	TECHNICAL SEARCH EQUIPMENT	Saw, Reciprocating, Variable Speed, Heavy Duty, Cordless w/ Batteries and Charger, 28 volt system	2	2	1	1	each
TECHNICAL	TECHNICAL SEARCH EQUIPMENT	Battery, 28 volt, Spare for Cordless Reciprocating Saw	4	4	2	2	each
TECHNICAL	TECHNICAL SEARCH EQUIPMENT	Battery Pack, Aux for Milwaukee cordless tools	2	2	1	1	each
TECHNICAL	TECHNICAL SEARCH EQUIPMENT	Blade, Reciprocating Saw, bi-metal, shatterproof, 6"-9", 18-10 tpi (5/pkg)	5	5	5	5	each
TECHNICAL	TECHNICAL SEARCH EQUIPMENT	Blade, wood-cutting, shatterproof 6", Reciprocating Saw (5/pkg)	5	5	5	5	each
TECHNICAL	TECHNICAL SEARCH EQUIPMENT	Blade, wood-cutting, shatterproof 9", Reciprocating Saw (5/pkg)	5	5	5	5	each
TECHNICAL	TECHNICAL SEARCH EQUIPMENT	Blade, wood-cutting, shatterproof 12", Reciprocating Saw (5/pkg)	5	5	5	5	each
TECHNICAL	TECHNICAL SEARCH EQUIPMENT	Tool, Entrenching, shovel, with folding pick	2	2	1	1	each
TECHNICAL	TECHNICAL SEARCH EQUIPMENT	Search Cam, Recon III with 2 batteries, charger and storage case (Can be purchased as part of Hasty Kit w/ TF-0115.00 & TF-0127.00)	2	2	1	1	each
TECHNICAL	TECHNICAL SEARCH EQUIPMENT	GPS (global positioning satellite) receivers, handheld portable, WAAS capable, compatible with Garmin Mapsource software, battery operated, with Carrying case, Lanyard, USB data cable, external magnetic mount antenna and Cigar lighter adapter	24	24	12	6	each
TECHNICAL	TECHNICAL SEARCH EQUIPMENT	Software, Mapping GPS, (2 applications) Garmin City Navigator, DeLorme Street Atlas USA, Topo USA	2	2	1	1	each
TECHNICAL	TECHNICAL SEARCH EQUIPMENT	Tape, Surveyors, Fluorescent Green, roll	12	12	6	6	roll

TECHNICAL	TECHNICAL SEARCH EQUIPMENT	Technical Search Equipment	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
TECHNICAL	TECHNICAL SEARCH EQUIPMENT	Tape, Surveyors, Fluorescent Red, roll	12	12	6	6	roll
TECHNICAL	TECHNICAL SEARCH EQUIPMENT	Video System, Portable, Camera, telescoping with color monitor, w/ accessories, two additional batteries, recharging system	1	1	1	1	each
TECHNICAL	TECHNICAL SEARCH EQUIPMENT	Fiberscope, Video System, Portable	1	1	1	1	each
TECHNICAL	TECHNICAL SEARCH EQUIPMENT	Concrete coring tool, gasoline-powered, capable of cutting 2" diameter hole up to 8" deep	1	1	1	1	each
TECHNICAL	TECHNICAL SEARCH EQUIPMENT	Bit, Coring, Diamond Faced, 2" x 17"	4	4	4	4	each
TECHNICAL	TECHNICAL SEARCH EQUIPMENT	Coring Tool, Concrete, electric, capable of cutting 2" diameter hole up to 8" deep	1	1	1	1	each
TECHNICAL	TECHNICAL SEARCH EQUIPMENT	Bit, Coring, Concrete, 2" diameter	4	4	4	4	each
TECHNICAL	TECHNICAL SEARCH EQUIPMENT	Adapter, BI-1 concrete, 2" diameter	4	4	4	4	each
TECHNICAL	TECHNICAL SEARCH EQUIPMENT	Goggle, Night Vision	2	2	1	1	each
TECHNICAL	TECHNICAL SEARCH EQUIPMENT	Lens, magnifying 3x for night vision goggle	4	4	2	2	each
TECHNICAL	TECHNICAL SEARCH EQUIPMENT	Helmet Mount Assembly, Universal - Night Vision Goggle	2	2	2	2	each
TECHNICAL	TECHNICAL SEARCH EQUIPMENT	Helmet, FAST Base Jump Military Helmet,	2	2	2	2	each
TECHNICAL	TECHNICAL SEARCH EQUIPMENT	Listening Device, Delsar Mini (Can be purchased as part of Hasty Kit w/ TF-0115.00 & TF-0127.00)	2	2	1	1	each
TECHNICAL	TECHNICAL SEARCH EQUIPMENT	Compass	24	24	12	6	each
TECHNICAL	TECHNICAL SEARCH EQUIPMENT	Camera, Thermal Imaging, Infrared, Fire Service model, with charger, battery, storage case, hand/neck strap,	2	2	2	1	each
TECHNICAL	TECHNICAL SEARCH EQUIPMENT	Labels, Search Marking	1000	1000	1000	1000	each

STRUCTURES SPECIALIST EQUIPMENT

TECHNICAL	STRUCTURES SPECIALIST	Structures Specialist Equipment	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
TECHNICAL	STRUCTURES SPECIALIST	Vest, Backpack/Equipment, (for carrying tools)	2	2	1	1	each
TECHNICAL	STRUCTURES SPECIALIST	Binoculars, waterproof	2	2	2	2	each
TECHNICAL	STRUCTURES SPECIALIST	Compass, navigation, high quality	2	2	1	1	each
TECHNICAL	STRUCTURES SPECIALIST	Range Finder, laser range	2	2	1	1	each
TECHNICAL	STRUCTURES SPECIALIST	Documentation kit, including documents, forms, pens, pencils, mylar sheets	2	2	1	1	each
TECHNICAL	STRUCTURES SPECIALIST	Paper, Weather Proof, 8x8 GRID, 8 - 1/2"x 11, 100 Shts / pkg	1	1	1	1	pack
TECHNICAL	STRUCTURES SPECIALIST	Pen, All weather	10	10	5	5	each
TECHNICAL	STRUCTURES SPECIALIST	Gauge, Crack	12	12	6	6	each
TECHNICAL	STRUCTURES SPECIALIST	Hammer, geology	2	2	1	1	each
TECHNICAL	STRUCTURES SPECIALIST	Level, Electronic	4	4	4	4	each
TECHNICAL	STRUCTURES SPECIALIST	Marking Kit, (includes the items listed below)	2	2	1	1	each
TECHNICAL	STRUCTURES SPECIALIST	Tape, Cordoning, DANGER, Roll	1	1	1	1	roll
TECHNICAL	STRUCTURES SPECIALIST	Tape, Cordoning, CAUTION, Yellow, roll	1	1	1	1	roll
TECHNICAL	STRUCTURES SPECIALIST	Flagging Ribbon, Survey, Red, 1-3/16" X 300' roll	2	2	1	1	roll
TECHNICAL	STRUCTURES SPECIALIST	Paint, spray, orange	48	48	48	48	each
TECHNICAL	STRUCTURES SPECIALIST	Crayon, Marking, Red	6	6	6	6	each
TECHNICAL	STRUCTURES SPECIALIST	Light stick, Cyalume, 12-hour duration, Yellow	24	24	24	24	each
TECHNICAL	STRUCTURES SPECIALIST	Flagging Ribbon, Survey, Yellow, 1-3/16" X 300' roll	12	12	8	8	roll
TECHNICAL	STRUCTURES SPECIALIST	Flagging Ribbon, Survey, White, 1-3/16" X 300' roll	12	12	8	8	roll
TECHNICAL	STRUCTURES SPECIALIST	Crayon, Marking, Yellow	6	6	6	6	each
TECHNICAL	STRUCTURES SPECIALIST	Crayon, Marking, Black	6	6	6	6	each
TECHNICAL	STRUCTURES SPECIALIST	Tape, Measuring, 30 ft.	2	2	1	1	each
TECHNICAL	STRUCTURES SPECIALIST	Tape, Measuring, 100 ft.	2	2	1	1	each

TECHNICAL	STRUCTURES SPECIALIST	Structures Specialist Equipment	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
TECHNICAL	STRUCTURES SPECIALIST	Detector, Metal, handheld	2	2	1	1	each
TECHNICAL	STRUCTURES SPECIALIST	Plumb bob, 8 oz, w/lines	4	4	4	4	each
TECHNICAL	STRUCTURES SPECIALIST	Pointer, Laser	2	2	1	1	each
TECHNICAL	STRUCTURE SPECIALIST	Meter, Range, Hand-held	2	2	1	1	each
TECHNICAL	STRUCTURES SPECIALIST	Screwdriver, Phillips #2 X 18"	2	2	1	1	each
TECHNICAL	STRUCTURES SPECIALIST	Anchors, Masonry 1/4"x1-1/4" (100 per box)	6	6	3	3	box
TECHNICAL	STRUCTURES SPECIALIST	Tapcon Driver Kit Deluxe	2	2	2	2	each
TECHNICAL	STRUCTURES SPECIALIST	Epoxy, Rapid set, 2 part putty, paste grade	2	2	2	2	pack
TECHNICAL	STRUCTURES SPECIALIST	Calculator, scientific	2	2	1	1	each
TECHNICAL	STRUCTURES SPECIALIST	Camera, digital, water / shock resistant, GPS, 16 MP w/accessories: Carry case, 2 batteries (EN-EL12), charger, cables, adapters, memory card, mini tripod, software, manual	2	2	1	1	each
TECHNICAL	STRUCTURE SPECIALIST	Meter, Range, Hand-held	2	2	1	1	each
TECHNICAL	STRUCTURES SPECIALIST	Card, Memory, 16 gigabyte, Digital Camera	4	4	2	2	each
TECHNICAL	STRUCTURES SPECIALIST	Clinometer, foresters type, calibrated for 100 feet with rubber protective cover	2	2	1	1	each
TECHNICAL	STRUCTURES SPECIALIST	Kneeboard, tri-fold,	2	2	1	1	each
TECHNICAL	STRUCTURES SPECIALIST	Meter, Weather/Wind	2	2	1	1	each
TECHNICAL	STRUCTURES SPECIALIST	Penetrometer, Pocket	2	2	1	1	each
TECHNICAL	STRUCTURES SPECIALIST	Tape, Measuring, 300 ft., fiberglass English open reel	1	1	1	1	each
TECHNICAL	STRUCTURES SPECIALIST	Telescope, compact, 30 x 50 w/tripod, case	1	1	1	1	each
TECHNICAL	STRUCTURES SPECIALIST	Point Laser	2	2	1	1	each
TECHNICAL	STRUCTURES SPECIALIST	Tripod, for Laser Pointer	2	2	1	1	each
TECHNICAL	STRUCTURES SPECIALIST	Light, Clip-on	2	2	1	1	each
TECHNICAL	STRUCTURES SPECIALIST	Tripod, Laser Station, Heavy duty wood/fiberglass, Quick Clamp	2	2	1	1	each
TECHNICAL	STRUCTURES SPECIALIST	Case, Shipping, Hard Shell, for Tripod	2	2	1	1	each

TECHNICAL	STRUCTURES SPECIALIST	Structures Specialist Equipment	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
TECHNICAL	STRUCTURES SPECIALIST	Total Station Nivo 5M+, Kit, each kit to include 1 of each items TA-0133.01 & TA-0133.05	2	2	1	1	each
TECHNICAL	STRUCTURES SPECIALIST	Charger, Dual, for Nivo Total Station	2	2	1	1	each
TECHNICAL	STRUCTURES SPECIALIST	Battery, spares, for Nivo Total Station (2 required for each unit)	4	4	2	2	each
TECHNICAL	STRUCTURES SPECIALIST	Pole, Sectional, for Total Station Mini Prism	2	2	1	1	each
TECHNICAL	STRUCTURES SPECIALIST	Prism, Mini, with Holder, for Total Station	2	2	1	1	each
TECHNICAL	STRUCTURES SPECIALIST	Straps, Carrying, Total Station Case Carrying Straps	2	2	1	1	each
TECHNICAL	STRUCTURES SPECIALIST	Eyepiece, Diagonal, for Nivo Total Station	2	2	1	1	each
TECHNICAL	STRUCTURES SPECIALIST	Field Operations Guide, USACE StS, Current Edition	2	2	1	1	each
TECHNICAL	STRUCTURES SPECIALIST	Inverter, Power, 12v to 120v, 100 watt	2	2	1	1	each
TECHNICAL	STRUCTURES SPECIALIST	Tape, Reflective, 60 x 60mm, 20/pkg	2	2	1	1	each
TECHNICAL	STRUCTURES SPECIALIST	Notebook, Universal, 4 5/8" x 7" Spiral, All Weather, Polydura Cover	5	5	3	3	each
TECHNICAL	STRUCTURES SPECIALIST	Notebook, Field, 4 5/8" x 7" Spiral, All Weather, Polydura Cover	5	5	3	3	each
TECHNICAL	STRUCTURES SPECIALIST	Notebook, Journal, 3 1/4" x 5", Spiral, All Weather, Polydura Cover	5	5	3	3	each

WATER

BOAT EQUIPMENT

WATER	BOAT EQUIPMENT	Boats, Motors, Trailers	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
WATER	BOAT EQUIPMENT	JON Boat, 16', 6 Person Rated Capacity, Coast Guard Approved, .080 Gauge Aluminum Hull Construction w/Welded Seams, 48" Bottom, 71" Beam, 24" Sides, 40HP Rated Transom, Dry Weight 365 Lbs., Capacity 1182 Lbs., Flat Bottom, Square Front, Removable Aluminum Center Seat w/Storage Compartment, Interior Paneled and Foam Filled Floor and Sides w/Non-Skid Surface, 2 Carry Handles on Rear, 1 Carry Handle on Front, 3 Carry Handles on Each Side. Color: Interior - Gray (non-skid), Exterior: White	4	4	2	0	each
WATER	BOAT EQUIPMENT	Anchor, Boat, 18lb, w/Anchor Rope	4	4	2	0	each
WATER	BOAT EQUIPMENT	Lights, Navigation, LED, Bow/Stern Set, Clamp-on Type	4	4	2	0	each

WATER	BOAT EQUIPMENT	Boats, Motors, Trailers	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
WATER	BOAT EQUIPMENT	Transom Wheels, Flip-up, 410/350 x 10" Pneumatic Tires w/Aluminum Hubs, 300 lb. Capacity per Wheel, 2 Wheels per Set	4	4	2	0	each
WATER	BOAT EQUIPMENT	Motor, Boat, Pull Start, 25 HP, Tiller-Type w/Short Handle, 3 Blade Prop w/11 Degree Pitch, 20" Shaft, w/Fuel Hose	5	5	3	0	each
WATER	BOAT EQUIPMENT	Propeller, 3 Blade Prop w/11 Degree Pitch, Spare	16	16	8	0	each
WATER	BOAT EQUIPMENT	Propeller Guard	8	8	4	0	each
WATER	BOAT EQUIPMENT	Service Kit, Boat Motor, to include Prop Wrench, Spark Plug Wrench, Small Service Tools/Repair Parts, etc.	6	6	3	0	each
WATER	BOAT EQUIPMENT	Spark Plug, Spare, for Boat Motor	12	12	6	0	each
WATER	BOAT EQUIPMENT	Starter Pull Cord and Handle, Spare, for Boat Motor	3	3	3	0	each
WATER	BOAT EQUIPMENT	Air Filters, Spare, for Boat Motor	3	3	3	0	each
WATER	BOAT EQUIPMENT	Oil Filter, Spare, for Boat Motor (If needed for type of motor)	3	3	3	0	each
WATER	BOAT EQUIPMENT	Oil, Quart, Spare, for Boat Motor (if needed for type of motor)	10	10	5	0	each
WATER	BOAT EQUIPMENT	Oil, 2-Cycle, Quart (if needed for type of motor)	16	16	8	0	each
WATER	BOAT EQUIPMENT	Fuel Hose w/Primer Bulb, Spare	8	8	4	0	each
WATER	BOAT EQUIPMENT	Fuel Tank, 6 Gallon w/Handle	12	12	6	0	each
WATER	BOAT EQUIPMENT	Adapter, Boat Motor Flush	2	2	2	0	each
WATER	BOAT EQUIPMENT	Reflective Triangle Kit, 1 for each Trailer	4	4	2	0	each
WATER	BOAT EQUIPMENT	Dolly, Outboard Engine	8	8	4	0	each
WATER	BOAT EQUIPMENT	Motor, Boat, Pull Start, 30 to 40 HP, Tiller-Type w/Short Handle, 3 Blade Prop w/11 Degree Pitch, 20" Shaft, w/Fuel Hose	3	3	2	0	each

WATER	BOAT EQUIPMENT	Boats, Motors, Trailers	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
WATER	BOAT EQUIPMENT	Boat, Inflatable, 6 to 7 person, equipped with suitable provisions to be easily carried by six people when fully inflated, suitable for paddle or motor propulsion, sufficiently rugged to withstand US&R field use and repeated beaching on abrasive soil, rocks and roads without excessive damage and be resistant to impact on rocks, coral and boulders, numerous tie downs for equipment and flip lines, with aluminum floor, intercommunicating inflation valves, overpressure valves, provided with carrying case, equipment bag, inflation-deflation pumps, 48 inch maple or ash paddles (black), repair kit, - pressure gauge, and towing bridle. Each boat shall have a separate stowage pocket onboard for the repair kit, pressure gauge, and pumps, 13"9" to 15'5" in length	2	2	1	0	each

OFFENSIVE WATER EQUIPMENT

WATER	OFFENSIVE WATER EQUIPMENT	Water Operations Equipment	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
WATER	OFFENSIVE WATER EQUIPMENT	Throwable Device, Water Rescue Kit	4	4	2	0	each
WATER	OFFENSIVE WATER EQUIPMENT	Paddles, T-Handle	12	12	6	0	each
WATER	OFFENSIVE WATER EQUIPMENT	Pole, Telescoping, Adjustable from 6-14', Aluminum	4	4	2	0	each
WATER	OFFENSIVE WATER EQUIPMENT	Signal Kit	6	6	3	0	each
WATER	OFFENSIVE WATER EQUIPMENT	Hand-Held Spot Light	8	8	4	0	each
WATER	OFFENSIVE WATER EQUIPMENT	Dry Gear Bags, 23"L x 12"W x 17"H	8	8	4	0	each
WATER	OFFENSIVE WATER EQUIPMENT	Rescue Kit, Swiftwater, Sling Projectile, 300 ft. (92 m), 8 mm Polyspectra line, 2,200 lbs. Tensile Strength	2	2	1	0	each
WATER	OFFENSIVE WATER EQUIPMENT	Hose Inflation System Kit, includes: 2-1/2" female aluminum hose cap with tie down for securing safety lines, 2-1/2" male aluminum hose cap with standard "T" type valve	2	2	2	0	each

WATER	OFFENSIVE WATER EQUIPMENT	Water Operations Equipment	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
WATER	OFFENSIVE WATER EQUIPMENT	Swimmer Rescue Board	4	4	2	0	each
WATER	OFFENSIVE WATER EQUIPMENT	Stokes type Litter Float Kit (or equivalent capability)	2	2	1	0	each
WATER	OFFENSIVE WATER EQUIPMENT	Center Punch (Window Punch)	14	14	7	0	each
WATER	OFFENSIVE WATER EQUIPMENT	Pliers, Lineman's	14	14	7	0	each
WATER	OFFENSIVE WATER EQUIPMENT	Pruning Saw, Folding, 6"	2	2	2	0	each
WATER	OFFENSIVE WATER EQUIPMENT	Wire Cutter, 8"	4	4	2	0	each
WATER	OFFENSIVE WATER EQUIPMENT	Helmet, water, adjustable ratchet headband, Victim	16	16	8	0	each
WATER	OFFENSIVE WATER EQUIPMENT	Throw Rope, Guardian Raft Rescue , with waist harness and throw bag. Rope Length: 55'.	14	14	7	0	each
WATER	OFFENSIVE WATER EQUIPMENT	Axe, flat head, fiberglass handle	4	4	2	0	each
WATER	OFFENSIVE WATER EQUIPMENT	Halligan tool	4	4	2	0	each
WATER	OFFENSIVE WATER EQUIPMENT	Hammer, sledge, 8 lb., fiberglass handle	4	4	2	0	each
WATER	OFFENSIVE WATER EQUIPMENT	Shovel, spade point, 60" straight handle	4	4	2	0	each
WATER	OFFENSIVE WATER EQUIPMENT	Shovel, Square Point, 30" D handle	2	2	2	0	each
WATER	OFFENSIVE WATER EQUIPMENT	Cutter, bolt, 24"	4	4	2	0	each
WATER	OFFENSIVE WATER EQUIPMENT	Stake, Picket, Double Headed Rebar, 1"x48", grade 60	12	12	6	0	each
WATER	OFFENSIVE WATER EQUIPMENT	Rack, Rappel, 6 bar	4	4	2	0	each

WATER	OFFENSIVE WATER EQUIPMENT	Water Operations Equipment	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
WATER	OFFENSIVE WATER EQUIPMENT	Carabiners, Rope, locking "D", 10,000 tensile strength, must meet NFPA 1983/ANSI/OSHA requirements for General Use, aluminum	40	40	25	0	each
WATER	OFFENSIVE WATER EQUIPMENT	Carabiner, Aluminum, Quick Release, G Rated	20	20	15	0	each
WATER	OFFENSIVE WATER EQUIPMENT	Descenders, Rope, figure 8, with ears, MTS 3035 lbs.	4	4	2	0	each
WATER	OFFENSIVE WATER EQUIPMENT	Racks, Rigging, RSI, Plate, Rigging, Aluminum, 11690 lbs. breaking strength	4	4	2	0	each
WATER	OFFENSIVE WATER EQUIPMENT	Guard, Edge	4	4	2		each
WATER	OFFENSIVE WATER EQUIPMENT	Pulley, Knot Passing	2	2	2	0	each
WATER	OFFENSIVE WATER EQUIPMENT	Pully, 3", rescue grade, prusik-minding, aluminum frame, single sheave for 1/2" rope	2	2	2	0	each
WATER	OFFENSIVE WATER EQUIPMENT	Rope, lifeline, 200' lengths of nylon static (WHITE), Kernmantle, 1/2" diameter, minimum tensile strength (MTS) 9000 lbs., must meet or exceed NFPA 1983	2	2	2	0	each
WATER	OFFENSIVE WATER EQUIPMENT	Rope, lifeline, 200' lengths of nylon static (BLUE), Kernmantle, 1/2" diameter, minimum tensile strength (MTS) 9000 lbs., must meet or exceed NFPA 1983	2	2	2	0	each
WATER	OFFENSIVE WATER EQUIPMENT	Rope, lifeline, 300' lengths of nylon static (ORANGE), Kernmantle, 1/2" diameter, minimum tensile strength (MTS) 9000 lbs., must meet or exceed NFPA 1983	2	2	2	0	each
WATER	OFFENSIVE WATER EQUIPMENT	Rope, lifeline, 300' lengths of nylon static (RED), Kernmantle, 1/2" diameter, minimum tensile strength (MTS) 9000 lbs., must meet or exceed NFPA 1983	1	1	1	0	each
WATER	OFFENSIVE WATER EQUIPMENT	Rope, lifeline, 600' length of nylon static, Kernmantle, 1/2" diameter, minimum tensile strength (MTS) 9000 lbs., must meet or exceed NFPA 1983	1	1	1	0	each
WATER	OFFENSIVE WATER EQUIPMENT	Bag, Rope, 600'	1	1	1	0	each
WATER	OFFENSIVE WATER EQUIPMENT	Ropes, Prusik, Tandem, 8mm x 6'	8	8	8	0	each
WATER	OFFENSIVE WATER EQUIPMENT	Marking Kit, Rope, 60 Markers/Pkg	1	1	1	0	each

WATER	OFFENSIVE WATER EQUIPMENT	Water Operations Equipment	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
WATER	OFFENSIVE WATER EQUIPMENT	Webbing, Tubular, 1", MBS 4,000 lbs., 300' roll, Various Colors	4	4	4	0	each
WATER	OFFENSIVE WATER EQUIPMENT	Litter, Stokes, without Leg Separators (Metal Wire type)	2	2	1	0	each
WATER	OFFENSIVE WATER EQUIPMENT	Bridle, Litter, Proseries Litter Harness	2	2	1	0	each
WATER	OFFENSIVE WATER EQUIPMENT	Litter wheel, Stokes basket	1	1	1	0	
WATER	OFFENSIVE WATER EQUIPMENT	Bag, Rope, rescue hardware	2	2	2	0	each
WATER	OFFENSIVE WATER EQUIPMENT	Bag, Rope, for 200' - 300' rope	7	7	7	0	each
WATER	OFFENSIVE WATER EQUIPMENT	Ascenders, Rope, Gibbs, camming device for ½" rope, (5400 lbs. breaking strength)	8	8	8	0	each
WATER	OFFENSIVE WATER EQUIPMENT	Saw, Chain, Gasoline, 2 cycle, 16"	4	4	2	0	each
WATER	OFFENSIVE WATER EQUIPMENT	Chain, Carbide Tip, Laser Weld, 16", wood cutting	12	12	6	0	each
WATER	OFFENSIVE WATER EQUIPMENT	Chain, Chipper, 16", wood cutting	8	8	4	0	each
WATER	OFFENSIVE WATER EQUIPMENT	Bar, Chain Saw, Roller Tip	4	4	2	0	each
WATER	OFFENSIVE WATER EQUIPMENT	Spark Plug, Chain Saw	8	8	4	0	each
WATER	OFFENSIVE WATER EQUIPMENT	Chaps, Chainsaw, 36" Length	4	4	2	0	each
WATER	OFFENSIVE WATER EQUIPMENT	Kit, Maintenance, Chain Saw, Includes: Spark Plug Wrench, Allen Wrenches, Sprocket Grease Tool, Sprocket Grease Tube	4	4	2	0	each
WATER	OFFENSIVE WATER EQUIPMENT	Filter, Air, Chain Saw	8	8	4	0	each
WATER	OFFENSIVE WATER EQUIPMENT	Oil, Bar, Chainsaw, Gallon	2	2	2	0	each

WATER	OFFENSIVE WATER EQUIPMENT	Water Operations Equipment	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
WATER	OFFENSIVE WATER EQUIPMENT	Filter, Air, Chain Saw	8	8	4	0	each
WATER	OFFENSIVE WATER EQUIPMENT	Oil, Bar, Chainsaw, Gallon	2	2	2	0	each
WATER	OFFENSIVE WATER EQUIPMENT	Oil, 2 Cycle Mix, 2.6 oz.	8	8	4	0	each
WATER	OFFENSIVE WATER EQUIPMENT	Scabbard, Chain Saw	4	4	2	0	each

SUPPORT (Water Operations Support)

WATER	SUPPORT	Water Operations Support	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
WATER	SUPPORT	Water test kit	1	1	1	0	each
WATER	SUPPORT	Tie, wraps, nylon, assorted	1	1	1	0	pkg
WATER	SUPPORT	Charger, Battery 12VDC	2	2	1	0	each
WATER	SUPPORT	Funnel Kit, 3 Piece Set	2	2	1	0	each
WATER	SUPPORT	Broom, Push, w/fiberglass handle, 24"	2	2	1	0	each
WATER	SUPPORT	Toilet Paper, Rolls	30	30	15	0	each
WATER	SUPPORT	Tool Box	1	1	1	0	each
WATER	SUPPORT	Tool, Mechanic, Assorted, Water Operations Maintenance	1	1	1	0	lot
WATER	SUPPORT	Fan, Room (for treating heat illness), large	4	4	2	0	each
WATER	SUPPORT	Shower, Solar, 5 gal	14	14	7	0	each

WATER OPERATIONS (Personal Protective Equipment)

WATER	WATER OPERATIONS	Personal Protective Equipment	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
WATER	WATER OPERATIONS	Helmet, water, adjustable ratchet headband, Rescuer	34	34	17	0	each
WATER	WATER OPERATIONS	PFD, Floatation Device, Personal, Extrasport Universal Rescue, Integrated US Coast Guard approved quick-release buckle and rescuer's harness. Size: Universal Chest Size 30 -56" Color: Yellow.	34	34	17	0	each
WATER	WATER OPERATIONS	PFD, Floatation Device, Canine, Size: Medium, sturdy haul handle, secure leash D-ring, and high-visibility reflective tape.	2	2	2	0	each

WATER	WATER OPERATIONS	Personal Protective Equipment	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
WATER	WATER OPERATIONS	PFD, Floatation Device, Canine, Size: Large, sturdy haul handle, secure leash D-ring, and high-visibility reflective tape.	2	2	2	0	each
WATER	WATER OPERATIONS	PFD, Floatation Device, Canine, Size: Extra Large, sturdy haul handle, secure leash D-ring, and high-visibility reflective tape.	2	2	2	0	each
WATER	WATER OPERATIONS	Whistle, Safety, Storm, Hi Visibility Orange, Durable plastic safety whistle, w/lanyard and stainless spit-ring	34	34	17	0	each
WATER	WATER OPERATIONS	Light, Strobe, for Personal Flotation Device	34	34	17	0	each
WATER	WATER OPERATIONS	Headlamp, Petzl Duo LED , UL Class I; Div. 1; Group D T3, Class I; Div. 2; Groups A, B, C, D, T3. Class II; Div. 2; Groups F, G, T3.	34	34	17	0	each
WATER	WATER OPERATIONS	Pouch, Headlamp, Myo/Duo	34	34	17	0	each
WATER	WATER OPERATIONS	Knife, with sheath. Blade length:3", Handle: 3.75". Weight: 4 oz. Color: High Visibility Orange	34	34	17	0	each
WATER	WATER OPERATIONS	Throw Rope, Guardian Raft Rescue , with waist harness and throw bag. Rope Length: 55'.	34	34	17	9	each
WATER	WATER OPERATIONS	Bag, Waterproof, Large, For Handheld Radios, w/Lanyard	34	34	17	0	each
WATER	WATER OPERATIONS	Bag, Duffel, Mesh, CMC Rescue, Yellow Mesh, 1000 Denier Cordura nylon. W/Full-size zippered pocket on one end.	34	34	17	9	each
WATER	WATER OPERATIONS	Float Marker Recovery System, Integral marker float w/ 100-foot tether line and quick-release anchor, Bright Yellow	6	6	3	0	each
WATER	WATER OPERATIONS	LSP Cinch Rescue Collar	1	1	0	0	each
WATER	WATER OPERATIONS	Buoy, Ring, USCG approved, urethane foam core, Oil/Gas Resistant, Color: International Orange. Diameter: 24"	1	1	1	0	each
WATER	WATER OPERATIONS	PFD, (manual activation), Deluxe Inflatable, USCG approved type V personal flotation device	48	48	24	12	each
WATER	WATER OPERATIONS	Re-Arm Kit, Mustang Survival Manual Inflatable PFDs,	48	48	24	12	each
WATER	WATER OPERATIONS	Dry Suit, Reinforced Knees and Elbows, Field Repairable	30	30	15	0	each
WATER	WATER OPERATIONS	Liner, For Dry Suit	30	30	15	0	each
WATER	WATER OPERATIONS	Drysuit Repair Kit	6	6	3	0	each
WATER	WATER OPERATIONS	Fins, (Pair), Various Sizes	30	30	15	0	each
WATER	WATER OPERATIONS	Gloves (Water) 3.5 to 5 mil	30	30	15	0	each
WATER	WATER OPERATIONS	Water Rescue Boots, Various Sizes	30	30	15	0	each

WATER	WATER OPERATIONS	Personal Protective Equipment	Type I Qty	Type II Qty	Type III Qty	Type IV Qty	Unit of Issue
WATER	WATER OPERATIONS	Steel Shank Insert for Boots, Various Sizes	30	30	15	0	each
WATER	WATER OPERATIONS	PFD, Victim. Type II, Sizes Adult, Youth, Child, Infant	32	32	16	0	each
WATER	WATER OPERATIONS	Waders, Hip or Chest, w/Boots or Neoprene Socks & suspenders	8	8	8	8	each
WATER	WATER OPERATIONS	Personal Gear Bag - Mesh, for Dry Suits	30	30	15	0	each

APPENDIX E

Air Resource Typing

Helicopters staffed by personnel trained in search and rescue operations can be ordered through normal Mutual Aid Request procedures. Specify need such as search platform with lights and infrared detectors, hoist capability, swift water capability, etc.

Resource	Component	Type 1 (Heavy)	Type 2 (Medium)	Type 3 (Light)	Type 4
Helicopter	Seats w/pilot	□□16	□□□0	□□□5	□□□3
Helicopter	Useful Load (lbs.)	5000 lbs.	2500 lbs.	1200 lbs.	600 lbs.
Helicopter	Examples	UH-60	Bell 205, 412	Bell 206, MD 500E, BO 105	Bell 47 Does not meet mission requirements for external live load.

HELICOPTER Capability/Mission Selection Sheet Equipment Selection Sheet

* Mandatory for aircraft
Mission

*Communications

-VHF Programmable Radios

*Over Water Survival Equipment

-PFD's for *air* crew and passengers

- Live Load *External Load Capable with rescue equipment
- Hoist
- Short Haul
- Sling Load
- Medical: BLS
- Medical: ALS
- Personnel Transportable (number of people)
- Usable Time (mission duration)
- Search/Observation

- ALS
- BLS
- Basket (i.e., Stokes type litter)
- Cinch Collar
- Cinch Strap
- FLIR
- Night Illumination (1 Million candle power +
- PA
- Rescue Capture Ball
- Rescue Ring
- Short Haul System
- Sling Load Capability (in lbs.)
- Hoist Load Capability (in lbs.)

Air Resource Typing (Pilot and Crew)

Pilot Capability

External Load Capable

- Victim Location in Static Water
- Victim Location in Dynamic Water
- Must be a public service operator, who meets their respective agency's requirement or possesses a valid USFS, CDF, or OAS (Office of Aircraft Service) card.
- Pilot must have a minimum of Swiftwater/ flood rescue awareness or operational training along with training and experience in helicopter water rescue evolutions.

Flight Crew Capability

External Load Capable

- Victim Location in Static Water
- Victim Location in Dynamic Water
- Flight Crew should have a minimum of Swiftwater/flood rescue awareness or operational training along with training and experience in helicopter water rescue evolutions. Aircrew performing water rescue operations must complete annual helicopter water rescue training.
- Areas to include helicopter orientation and safety, hand signals and communications, water rescue device orientation and operations and any additional individual agency specific or type specific requirements.

APPENDIX F:

Definitions

A:

Air Resources: Helicopters staffed by crews trained in search and rescue operations.

B:

Boat drive – air: A boat with a propulsion system using an aviation propeller or a ducted fan to generate thrust from the engine having an on-plane draft of 0” to 12”. The typical boats of this category are the “Florida Swamp” boats and surface effect boats.

Boat drive – jet: A boat with a propulsion system using a water pump to generate thrust having an on-plane draft of 6” to 12”. They can be susceptible to damage from floating debris.

Boat drive – propeller: A boat with a propulsion system using a propeller to generate thrust having an on-plane draft of 18” to 24”.

Boat, non-powered: A non-motorized vessel capable of safely transporting rescuers or victims (e.g., raft, skiff, johnboat etc.).

Boat, powered: A motorized vessel capable of safely transporting rescuers or victims, (e.g., IRB: “Inflatable Rescue Boat”, RHIB: “Rigid Hull Inflatable Rescue Boat”, Rigid Hull Boat, PWC: “Personal Water Craft”, “Airboat”, etc.).

C:

Chemical Light and Flagging Tape Plan: A standardized marking system using chemical lights and colored flagging tape in conjunction with search, building and victim marking for low light and night operations.

Confined Space Rescue: Rescue operations in an enclosed area, with limited access/egress, not designed for human occupancy and has the potential for physical, chemical or atmospheric injury.

Confined Space Rescue, Permit Required: Rescue operations in enclosed areas that are permit required per Federal or State safety regulations.

D:

Debris Flow: Geological phenomenon in which water-laden masses of soil and fragmented rock rush down mountainsides, funnel into stream channels, entrain objects in their paths, and form thick, muddy deposits on valley floors.

Decontamination: Action required to chemically change or physically remove the contaminants from personnel and equipment.

E:

Emergency Signaling System: Loud, identifiable and prearranged signals sounded to alert personnel at the incident site of hazardous conditions or information that requires immediate attention.

F:

Flood: An overflowing of a large amount of water beyond its normal confines, especially over what is normally dry land.

Flood Evacuation Boat (FEB): Resource with personnel trained to operate in floodwaters with the specific task of evacuating persons or small domestic animals from isolated areas.

H:

Heavy Floor Construction: Structures in this general construction category are typically built utilizing Cast-in-Place (CIP) concrete construction consisting of heavy, concrete floors. Steel reinforcing bars (rebar) are most commonly used to provide the tension resistance within each concrete member, but post-tensioned steel cables may also be employed. These structures may be built utilizing concrete beam/column frame to provide “Moment Frame” resistance or concrete shear walls to provide “Box Type” resistance to earthquake forces and strong winds. Heavy Floor Construction may include any occupancy type. Occupancies most often found are offices, schools, apartments, hospitals, hotels, parking structures and multi-purpose facilities. Highway bridges and overpasses are a special form of very heavy floor construction.

Heavy Wall Construction: Structures in this general construction category are “Box Type” structures typically built with heavy, fire resistant exterior walls and lightweight wood floors and roof. The exterior walls are constructed of Reinforced Masonry (RM), Unreinforced Masonry (URM), or Tilt-up Concrete (TU). The adequacy of the interconnection of the walls and floors plus roof usually determines how well these structures resist the effects of earthquake forces and strong winds. State law in California requires URM structures be strengthened to reduce the collapse potential

of these vulnerable walls in major earthquakes. Heavy Wall Construction occupancies may include office, commercial, educational (gymnasiums), industrial and warehouse buildings as well as multi-family residential and institutional structures.

Helicopter Rescue Operational: Swiftwater/Flood Search and Rescue personnel trained and equipped to work with helicopters and crew, for hoist, short haul-line victim extraction, rappel or low-level insertions.

H.E.P.P.: Hazardous Equipment Push Package

High Angle Rope Rescue: An environment in which the load is predominately supported by the rope rescue system.

L:

Light Frame Construction: Structures in this general construction category are typically built with a vertical load resisting system of closely spaced wood or light gauge metal studs for bearing walls and joists for floors and rafters for roof. The lateral resistance is provided by wall and floor sheathing, which enables these “Box Type” structures to remain square and plumb providing a high degree of structural flexibility to applied lateral forces from earthquakes and strong winds. Light Frame Construction occupancies may include single family and multi-unit residential buildings, low-rise commercial, institutional, and light industrial.

Low Angle Rope Rescue: An environment in which the load is predominately supported by itself and not the rope rescue system (e.g., flat land or mild sloping surface).

M:

M.E.L.: Minimum Equipment List

P:

PFD: Personal flotation device with a minimum U.S. Coast Guard rating of Type III or V

PPE (Water Rescue): Personal protective equipment. For SF/SAR personnel that includes a water helmet, a PFD, a whistle, a light, foot and hand protection, and thermal protection.

Pre-cast Concrete Construction: Structures in this general construction category are typically built utilizing modular pre-cast concrete components that include floors, walls, beams, columns and other sub-components that are field connected upon placement on site. Floor and roof components are normally reinforced using pre-tensioned steel cables that are bonded to the concrete as it is cast around the cables in the pre-casting factory. Individual concrete components utilize imbedded steel weldments and cast-in-place, topping slabs for the interconnection that provides for structural stability. These interconnections are critical since inadequate ones have led to widespread collapse problems during past earthquakes. These structures are usually built using a regular grid of columns and beams and most often have concrete or masonry shear walls to provide “Box Type” resistance to earthquake forces and strong winds. Pre-cast Concrete Construction occupancies may include commercial, office and multi-use or multi-function structures including parking structures and other large facilities. Highway bridges and overpasses may be constructed using pre-cast concrete segments or using pre-cast beams in combination with cast-in-place concrete slabs.

Protective system: A method of protecting employees from cave-ins, from material that could fall or roll from an excavation face or into an excavation, or from the collapse of adjacent structures. Protective systems include support systems, sloping and benching, shield systems, and other systems that provide the necessary protection as per California Code of Regulations, Title 8, Section 1540. Excavation

PWC: Personal watercraft (water bike, jet-ski)

R:

RHIB: Rigid hull inflatable boat

Rigid Hull: A boat constructed of wood, fiberglass, or aluminum with no inflated components.

S:

Search Marking System: A standardized marking system employed during and after the search of a structure for potential victims.

SEMS: “Standardized Emergency Management System.” California’s emergency management system that facilitates priority setting, interagency cooperation, and the efficient flow of resources and information. SEMS incorporates: The Incident Command System, Multi/Inter-Agency Coordination, Mutual Aid, and the Operational Area Concept.

SF/SAR TEAM: A Search and Rescue resource with specific equipment, training, and experience, in Swiftwater/flood search and rescue.

SWIFTWATER: Water that is moving fast enough to produce sufficient force to present a significant life and safety hazard to a person entering the water. The Swiftwater classification scheme rates the complexity and danger of Swiftwater from easiest (Class 1) to most difficult (Class 6) (American Whitewater Affiliation).

Steel Frame Construction: Structures in this general construction category are typically built using some type of steel beam and column system that is configured in a grid pattern. Lateral resistance against earthquake and severe wind forces is provided either by specially designed frames or diagonal bracing. Steel Frame Construction occupancies may include Prefabricated Metal buildings mostly one story, light industrial buildings; Low Rise, non-fireproofed buildings and other structures that include one and two story commercial, office, large industrial facilities, institutional structures, and convention and sports arenas with high, exposed roof systems; and High Rise, multistory fireproofed buildings configured with fire sprinklers, standpipes, smoke proof stairs, and other fire protection systems. Fireproofing may consist of sprayed on fiber, layers of gypsum board, or in older buildings, concrete and masonry encasement.

Structure/Hazards Marking System: A standardized marking system to identify structures in a specific area and any hazards found within or near the structure.

U:

US&R Company: Any ground vehicle(s) providing a specified level of US&R operational capability, rescue equipment and personnel.

US&R Crew: A predetermined number of individuals with common communications and a leader, organized and trained for a specified level of US&R operational capability. They respond with no rescue equipment and are used to relieve or increase the number of US&R personnel at an incident.

US&R Type-4 Company: Minimum capability to conduct safe and effective search and rescue operations at incidents involving non-structural entrapment in non-collapsed structures, mud and debris flows and shore based Swiftwater/flood rescue incidents.

US&R Type-3 Company: Minimum capability to conduct safe and effective search and rescue operations at structure collapse incidents involving the collapse or failure of Light Frame Construction and low angle or one person load rope rescue. Operations will generally be shore based; however, rescue water craft and rescue boats may be used by appropriately trained personnel.

US&R Type-2 Company: Minimum capability to conduct safe and effective search and rescue operations at structural collapse incidents involving the collapse or failure of Heavy Wall Construction, high angle rope rescue, trench and excavation rescue. Knowledge, skills and ability to conduct shore based search and rescue operations in Swiftwater/flood environments with structural collapse, failure and infrastructure damage.

US&R Type-1 Company: Minimum capability to conduct safe and effective search and rescue operations at structural collapse incidents involving the collapse or failure of Heavy Floor, Pre-cast Concrete and Steel Frame Construction, high angle rope rescue, wide-area search operations, confined space rescue (permit required) and mass transportation rescue. Knowledge, skills and ability to conduct search and rescue operations during mud & debris flow incidents and to operate in Swiftwater/flood environments with heavy structural collapse, failure and infrastructure damage. Capabilities should include defensive shore and water based search and rescue techniques and equipment.

V:

Victim Marking System: A standardized marking system employed to identify the confirmed or potential location of a victim not readily visible and/or not immediately removed.