Standard Operating Procedures
Cupertino Amateur Radio Emergency Service

Part 1 Overview

February 2013
Revision 5.0
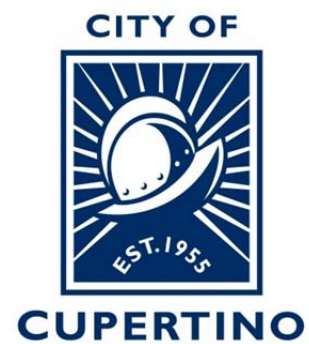
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Revision

Rev	Date	Comments
0.8	10/24/98	Preliminary, ready for broader CARES review
1.0	01/03/99	1st Release
1.1	02/26/99	Updated Section 6 – Emergency Responder
1.2	5/25/99	Updates to Section 5, 6, 7
2.0	1/3/00	Updates, rewrites of Sections 6, 7, 8, 9
3.0	9/1/02	Updated Served Agencies, general updates. Addressed unincorporated areas.
3.1	11/7/02	2.2.1 Reference to include Shift Supervisor.
3.2	2/2/04	4.4 CuSD Served Agency Requirements, CARES response
4.0	1/26/06	Updated Preparedness Organization Chart; 2.3.4 Expanded definitions for Staff Positions. Documented Fire Hazard. Added SJWC as served agency. Added Resource Coordinator.
5.0	2/2/2013	General documentation updates to reflect changes in the city's operational situation; removed NovaCare references; moved Overview of Operations from Part 2 to Part 1

1　Introduction

1.1　Overview

The purpose of the Cupertino Amateur Radio Emergency Service (CARES) Standard Operating Procedure (SOP) is to describe how CARES will operate in an emergency to support the City of Cupertino, other identified local agencies, and city neighborhoods.

This document is intended to assist CARES emergency responders with elements of emergency planning concepts that other organizations have identified as necessary for a useful and effective emergency response organization.

This document is not inclusive of all topics that could be addressed in an emergency plan. Additional information may be required and, when known and available, will be included as attachments to this document.

While the SOP does not intend to be prescriptive, it is written as a starting point for preparing for and executing a response in the event CARES is called on. This document attempts to define who does what, when, where, and how in order to prepare for, respond to, and recover from the effects of emergencies and disasters.

1.2　Intended Audience

This document is for use by several groups. CARES members will use it as the basis for describing who we are and what we do. The SOP will also provide CARES members with guidelines, procedures, and policies on how we prepare and respond when activated. It is also integral part of the CARES Training and Certification Plan.

The SOP is also used by emergency preparedness personnel in the City of Cupertino and other served agencies and organizations to understand the CARES organization, its capabilities, and how CARES integrates and will be coordinated with their existing emergency policies and procedures.

1.3　How to use this plan

The SOP presents a variety of information useful to all levels in the CARES organization. In the event of an emergency, this document will be used as the foundation of the operating procedures that will guide CARES members during a response.

1.4　Revisions

To ensure the information remains relevant, accurate, and up-to-date, CARES will review the plan on an annual basis. Changes to this document (either individual pages or in its entirety) will then be distributed to all members and served agencies.

2 Organization

2.1   Charter

The CARES organization was formed to serve the public. It is a volunteer organization made up of FCC-licensed amateur radio operators who live, work, or have a vested interest in Cupertino, and have voluntarily registered their qualifications and equipment for communications duty in the public service when disaster strikes.

2.1.1   Authority

In the event of a declared disaster, CARES operates under the authority and direction of the Director of Emergency Services, City of Cupertino.

2.1.2   Operational Risks

Like most cities, Cupertino faces several operational risks that would adversely impact the city or its residents. These risks include (but are not limited to):

- Emergencies occurring outside of regular working hours may result in a shortage of city staff (who may live outside the city) to immediately handle an emergency.
- Resources to deliver city services during a disaster may be insufficient to handle a potentially overwhelming community need.
- Inadequate or incomplete damage and casualty assessments from Cupertino neighborhoods will hamper a quick and proper response by the City and its contract service providers.
- The commercial communications infrastructure may be unreliable or unavailable during a disaster, thereby potentially overloading the City's trunk radio system.
- The City or other agencies and functions may require temporary flexible communication to remain viable.

In the above cases, the two common, underlying elements are resources and communications.

2.1.3   Mission

The mission of the Cupertino Amateur Radio Emergency Service is to maintain and train Amateur Radio volunteers capable of providing professional emergency communications, increasing the City's emergency response effectiveness, and speeding the recovery of our community.

2.1.4   Objectives

The two objectives CARES members pursue are:

- Preparation - CARES members prepare for activation by taking part in communications system planning, operation, training, and exercises.
- Response - CARES members deliver backup and emergency communications to our city, served agencies and our neighbors.

2.1.5 Response Area

CARES will respond to all incorporated areas of Cupertino.

As required by the City, CARES will automatically initiate a Mutual Aid response to any Santa Clara County unincorporated area that is either within or adjacent to the City's jurisdictional boundaries. These areas are considered to be within the City's Sphere of Influence.

In the event of a CARES or City response to a surrounded or adjacent unincorporated area, the City will notify the Santa Clara County Office of Emergency Services or Emergency Operations Center.

2.2 Organization

2.2.1 CARES Structure

At any given time, CARES operates under one of two organization models.

- During Preparedness Operations (when CARES is not activated), CARES focuses on preparedness activities including training, drills, exercises, recruiting, and relationship management.

- During Response Operations (when CARES is activated), CARES supports the emergency response and needs as determined by the City's Planning/ Intelligence Section Chief.

These two models are shown in the following organization charts. Note that the CARES organization structure will change as its needs, and those of its served agencies, change.

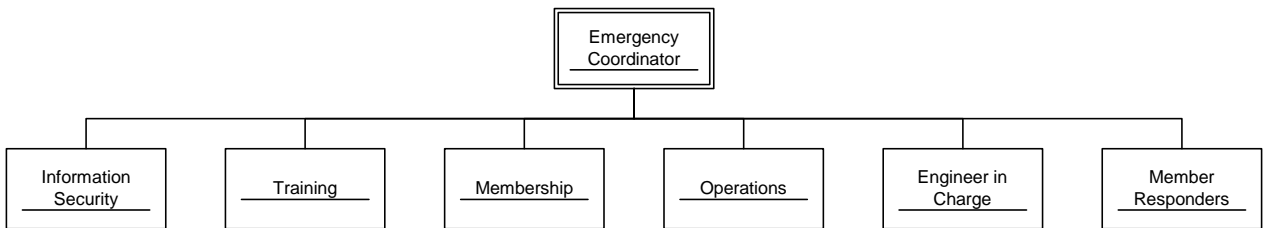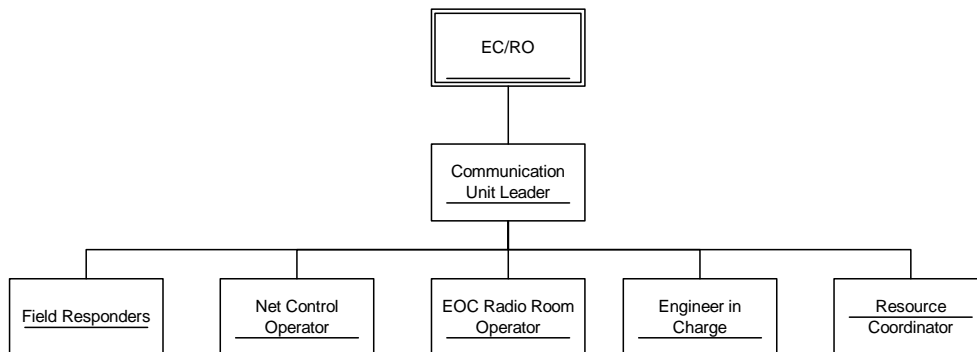**Figure 1: CARES Preparedness Organization**

Figure 2: CARES Emergency Response Organization
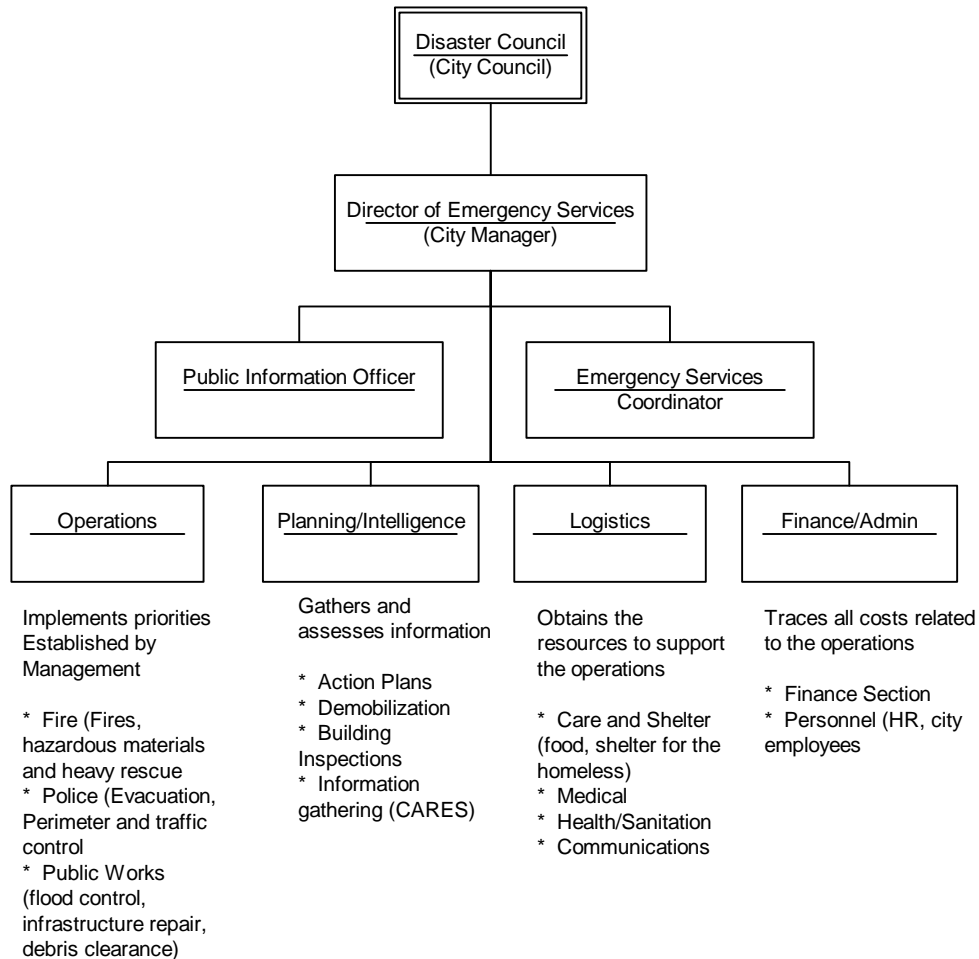
2.2.2 City Alignment

The City of Cupertino uses the California Standardized Emergency Management System (SEMS) Incident Command System (ICS) as the primary emergency management response structure for emergency and disaster response operations.

This structure includes the following organization sections:

- Management Section: provides the overall direction and sets priorities for resources before and during a disaster. It establishes the emergency policies, and oversees the response for an activation, and deactivation after a disaster.
- Operations Section: implements the priorities established by the management section.
- Planning/Intelligence Section: collects, evaluates, and disseminates information, develops action plans, maintains documentation, and identifies any potential future emergency response concerns.
- Logistics Section: obtains personnel, equipment, and material needed to support the emergency response.
- Finance/Administration: tracks all costs related to the operation.

During an emergency, CARES reports into the City's Planning/Intelligence Section because of our information gathering and delivery capability.

Figure 3: City of Cupertino Response Organization

Disaster Council (City Council)

Director of Emergency Services (City Manager)

Public Information Officer

Emergency Services Coordinator

Operations	Planning/Intelligence	Logistics	Finance/Admin
Implements priorities Established by Management * Fire (Fires, hazardous materials and heavy rescue * Police (Evacuation, Perimeter and traffic control * Public Works (flood control, infrastructure repair, debris clearance)	Gathers and assesses information * Action Plans * Demobilization * Building Inspections * Information gathering (CARES)	Obtains the resources to support the operations * Care and Shelter (food, shelter for the homeless) * Medical * Health/Sanitation * Communications	Traces all costs related to the operations * Finance Section * Personnel (HR, city employees

2.3   Roles & Responsibilities

This section describes the different roles that need to be filled to ensure CARES can carry out its mission.

2.3.1   Emergency Coordinator/Radio Officer (EC/RO)

The EC/RO is responsible for all ARES and RACES activities in Cupertino and reports to the Planning/Intelligence Section Chief during an emergency.

The EC/RO fills two positions: (i) the EC aspect of the job is an ARES position appointed by the ARRL Section Manager, and (ii) the RO portion of the job is a RACES position appointed by the City (see Section 2.4 "Affiliations," for a description of ARES and RACES).

In CARES, the EC/RO position is typically referred to as the Emergency Coordinator, or EC.

The Cupertino EC/RO is responsible for:

- Accomplishing our mission:
    - Promotes and enhances CARES for the public benefit as a voluntary, non-commercial communications service.
    - Builds viable working relationships with the City of Cupertino and Served Agencies.
    - Establishes emergency communication plans and procedures.
    - Evaluates the communications needs of the City and the Served Agencies, and responds quickly to those needs during an emergency.
    - Coordinates the CARES response during an emergency activation for the City of Cupertino and Served Agencies.
    - Assumes the overall responsibility for emergency response and performance of the CARES organization.
    - Attends Santa Clara County EC Council meetings to stay current on County operational issues.
- Developing our people:
    - Ensures that CARES responders receive the training necessary to be successful in executing the CARES mission.
    - Approves training, organization, and emergency participation activities of interested amateurs working in support of the City and agencies.
    - Provides a sense of purpose and contribution.
- Building organizational leadership.

2.3.2   Assistant EC/Deputy RO (AEC/DRO)

AEC/DROs are appointed by the EC/RO to perform specific tasks on the CARES emergency management staff. When necessary, additional AEC/DROs may be named on an ad hoc basis.

In CARES, an AEC/DRO position is typically referred to as an AEC.

The AEC/DROs are responsible for the following:

- Fills key staff positions within the CARES organization
- Develops cross-operational relationships with other Cupertino volunteer community in specific areas of focus (training, membership, operations)
- Assumes the role of acting EC/RO when the EC/RO is out of the area
- Attends Santa Clara County EC Council meetings to stay current on County operational issues

2.3.3 Emergency Responder

An Emergency Responder is a volunteer whose primary responsibility is to report for duty when required, requested, or compelled to do so. A responder is trained, equipped, and physically prepared to perform the responder role.

While there are multiple response locations, it is important that responders are prepared to handle a wide variety of different scenarios. A responder may go to the City EOC, a City ARC, a shelter, a neighborhood, or some other field assignment.

2.3.4 Staff Positions

No one person can make CARES work. For the organization to be successful in its mission, CARES must rely on the volunteer efforts and contributions of its members to assume specific roles and responsibilities needed by the organization. The following positions are staffed within CARES:

Operations Officer

The Operations Officer is responsible for the following:

- Reviews and revise current SOPs
- Working with Training Officer, plans and conducts drills and exercises; implements training in operational aspects of organization (SEMS, ICS, Event Planning, etc.)
- Working with Chief Engineer, makes recommendations for equipment and facility improvements
- Maintains contact with Cupertino Emergency Services Coordinator to understand city needs
- Assists and mentors other CARES members in planning and implementing non-emergency activations

Recommended requirements for the position:

- Completed IS-700, National Incident Management System
- Completed IS-195, Basic Incident Command System
- Participated as event coordinator for at least one major event
- Participated as shift supervisor for at least one major exercise

Training Officer

The Training Coordinator is responsible for the following:

- Manages the CARES Qualification Program
- Collaborates with the Operations Officer to identify and/or generate training events and opportunities to increase membership experience and proficiency in passing traffic.
- Coordinates personnel versed in or otherwise considered qualified in the presentation of those training materials
- Assists the Membership Coordinator in maintaining records indicating the level of training and skill proficiency of CARES members
- Assists the EC/RO in identifying topics and presenters of general or specific interest programs for the monthly Cupertino ARES general meetings

Information Security Officer

The Information Security Officer (ISO) manages all aspects of CARES information security that is performed on behalf of our served agencies. The ISO is responsible for the following:

- Develops, implements, and maintains the information security procedures and policies for CARES
- Manages the information assets that are entrusted to CARES by Served Agencies
- Develops and delivers the necessary training to CARES
- Coordinates the audit of our information security procedures on an annual basis
- Coordinates the audit of our information assets on a quarterly basis

Engineer in Charge

The Engineer in Charge ensures CARES is capable of performing its mission by maintaining the CARES fixed communication equipment and assets in a state of readiness. Typical responsibilities of the Engineer in Charge include:

- Develops the equipment requirements and make recommendations based on the needs of the organization's served agencies
- Procures equipment needed to achieve the CARES mission
- Maintains CARES' fixed communications systems and assets

Membership Officer

This position maintains the records on CARES members. Typical responsibilities of the Membership Coordinator include

- Ensures the membership records are up-to-date
- Makes recommendations on member status changes
- Collects and processes new membership applications as necessary

2.4 Disaster Service Workers

All CARES members must be registered as Cupertino Disaster Service Workers.

A Disaster Service Worker (DSW) is any person who is registered with a Disaster Council for the purpose of engaging in disaster service without pay or other consideration, pursuant to the California Emergency Services Act. A Disaster Service Worker includes public employees and any unregistered person pressed into service during a state of war, a state of emergency, or a local emergency by a person having authority to command the aid of citizens in the execution of his duties.

2.4.1 Who are Disaster Service Workers?

- Public employees or properly registered disaster volunteers
- City employees are mandated by law (Gov't Code Sec. 3100) to assist during a state of emergency.
- Volunteers who have registered in advance with their accredited local Disaster Council, executed a loyalty oath, and are dispatched for duty by competent authority during an emergency, e.g. "organized volunteers."
- Volunteers who are untrained and converge on the disaster scene with the intent of assisting are called "convergent" or "spontaneous untrained volunteers."

- A disaster service worker does not include any person registered as an active firefighting member or any regularly organized volunteer fire department.

2.4.2   Advantages of a DSW Designation

- Worker's compensation coverage in case of injury or illness caused by the job. The California State Legislature has established a special insurance fund for disaster service workers.

  To make a claim, a DSW must have a statement from a personal physician on file or Workers Comp can assign a physician for the first 30 days of treatment (Labor Code, Chapter 1172).

  Coverage is provided from the moment you leave your home until safe return if dispatched for duty during an emergency by competent authority prior to departure and no route deviations are made for personal reasons.

  Coverage provided for scheduled disaster preparedness activities, including training, but not while en route to and from the place reported to for these activities.

- Emergency Responder Card

  At the discretion of police or fire personnel, this card may provide access to disaster areas that would otherwise be off-limits.

- On-going disaster preparedness training

  All CARES members are encouraged to participate in all seminars, training, and drills that the CARES sponsors. These activities directly align with our mission and are aimed at increasing response effectiveness.

2.5   Affiliations

CARES members hold dual membership in both the Amateur Radio Emergency Service and the Radio Amateur Civil Emergency Services organizations.

2.5.1   Amateur Radio Emergency Service

The Amateur Radio Emergency Service (ARES) is a field service of the American Radio Relay League (ARRL). Its members are licensed amateurs who have voluntarily registered their qualifications and equipment for communications duty in the public service when disaster strikes. Every licensed amateur, regardless of membership in ARRL or any other local or national organization is eligible for membership in the ARES. Other than possession of an Amateur Radio license, the only qualification is a sincere desire to serve.

Because ARES is an amateur radio service, only licensed amateur radio operators are eligible for membership. The possession of emergency-powered equipment is desirable, but is not a requirement for membership.

2.5.2   Radio Amateur Civil Emergency Services

The Radio Amateur Civil Emergency Services (RACES) is an emergency service function defined under Part 97 of the Federal Communication Commission (FCC) Rules. Both the Federal Emergency Management Agency (FEMA) and the State of California Governor's Office of Emergency Services (OES) sponsor RACES as an official volunteer organization.

RACES is a special phase of amateur radio operation that provides radio communication for civil preparedness purposes only, during periods of local, regional, or national civil emergencies. These emergencies are not limited to

war-related activities, but can include natural disasters such as fires, floods, and earthquakes.

A RACES activation results from the declaration of an emergency by an authorized government official. Amateurs operating in a local RACES organization must be officially enrolled in that local civil preparedness group (such as CARES).

RACES operation is conducted by amateurs using their own primary station licenses, and by existing RACES stations. Operator privileges in RACES are dependent upon, and identified by, the class of license held in the Amateur Radio Service. All of the authorized frequencies and emissions allocated to the Amateur Radio Service are also available to RACES on a shared basis. But in the event that the President invokes his War Emergency Powers, amateur radio operators involved with RACES would be limited to certain frequencies (while all other amateur operation may be silenced) as specified in Part 97.407(b)(1).

While originally based on potential use for wartime, RACES has evolved over the years from addressing the needs of civil defense (which is also called civil preparedness) to encompassing all types of emergencies.

2.5.3 How ARES and RACES work together

Although RACES and ARES are separate entities, the ARRL advocates dual membership and cooperative efforts between both groups whenever possible.

The RACES regulations make it simple and possible for an ARES group whose members are enrolled in and certified by RACES to operate in an emergency with great flexibility. Using the same operators and the same frequencies, an ARES group that is also enrolled as RACES can "switch hats" from ARES to RACES and RACES to ARES to meet the requirements of the situation as it unfolds. For example, during a non-declared emergency, ARES members can operate under ARES, but when a state or federal authority declares an emergency, the operation can become RACES with no change in personnel or frequencies.

All registered CARES members hold dual membership in both ARES and RACES.

3 City Hazards

3.1 Introduction

The purpose of documenting the city hazards is to ensure that all CARES members understand the risks that exist in Cupertino and what to expect if a particular hazard were to manifest itself. This analysis is not exhaustive. However, it does identify the main hazards relevant to the CARES mission.

All members are strongly advised to read Section 6, "Public Health and Safety," of the Cupertino General Plan, attached in *Part 4 - References Section*, for a more complete description of Cupertino's hazard assessment. Additional references are listed here where known.

3.2 Seismic Hazard

3.2.1 Description

The city is seismically very active. The mountains and lower foothills of Cupertino are crossed by the San Andreas Fault (that moves from side to side) and two splinter (shear) faults, the Sargent-Berrocal and Monta Vista Fault systems (that move up and down).

3.2.2 History of Events

In 1989, The City experienced the Loma Prieta Earthquake, a 7.1 magnitude earthquake occurring on the San Andreas Fault south of Santa Clara Valley. Damage to the city was limited to toppled chimneys, one house fire, and one related fatality.

3.2.3 Probability of occurrence

Loma Prieta was not viewed as the "big one." It was a moderately strong earthquake but nowhere near the size of the San Francisco Earthquake of 1906.

A USGS report released in July 1990 stated there is a 67% chance of another earthquake the size of or larger than Loma Prieta during the next 30 years and that quake could strike any time. The report also stated the next one would most likely strike farther north than Loma Prieta, somewhere between San Jose and Santa Rosa on either side of the Bay. Whereas the epicenter for the Loma Prieta Earthquake was centered in a sparsely populated area, the next one may be centered in a more populated area.

3.2.4 City Reference

See *Part 4 References Section*, "The CUPERTINO General Plan," Section 6, Public Health and Safety. See the section titled Seismic and Geologic Hazard, pg. 6.1

3.3 Flood Hazard from Rain Storms

3.3.1 Description

Several streams and creeks flow through Cupertino, primarily from south to north in the direction toward the San Francisco Bay.

3.3.2 History of Events

As of 2003, Santa Clara Valley Water District (SCVWD) completed a series of stream and street crossing upgrades throughout the city. These efforts had a positive impact during the 2003 and 2004 winter rains.

During the winter of 1998, several Cupertino creeks and streams overflowed their banks at several locations:

- Calabazas Creek at Prospect Avenue (in Saratoga). Flooding proceeded north into the intersection of Prospect Avenue and DeAnza Blvd.
- Calabazas Creek at Miller Avenue. Runoff from heavy rains overwhelmed the creek's capacity and spilled onto Miller Avenue flowing north onto Stevens Creek Blvd. Water was up to 2 feet deep in some locations. Minor flood damage occurred to the Fountainbleu Apartments next to the creek.
- Calabazas Creek at Stevens Creek Blvd. Flooding also occurred at this location. Depressed parking areas across from JCPenny's at Valco Fashion Mall were under water.
- Stevens Creek at McClellan Road. Due to heavy spillage from the Stevens Creek Reservoir, the Stevens Creek overflowed at the Golf Course and Black Berry farm. McClellan Road was inundated and impassable in the vicinity of the creek crossing.

In previous years, other flooding events included:

- Overbanking at Calabazas Creek at Miller Ave: 1978, 1980, 1983, and 1986
- Sheet flooding at Stevens Creek at Stevens Creek Boulevard in 1986
- Extensive street flooding at Calabazas Creek at Miller Ave: 1983 and 1986
- Street flooding at Calabazas Creek at Bollinger Avenue in 1986 and 1998

3.3.3 Probability of Occurrence

The Santa Clara Valley Water District assessed the 1998 winter flooding as a "75 year" flood. Driven by El Nino' storms, this winter was considered unusual.

3.3.4 Population Affected

During the 1998 winter floods, some City residents with properties fronting overflowing creeks voluntarily left their homes. However, no shelters were established and residents returned to their homes within hours.

3.3.5 Adjacent Affected Jurisdictions

The bulk of Cupertino creeks and streams flow north into Santa Clara. Earlier flooding from the Calabazas Creek continued and overflowed its banks at Pruneridge Avenue between Tantau Avenue and Lawrence Expressway.

3.3.6 City Reference

See *Part 4 References Section*, "The CUPERTINO General Plan," Section 6, Public Health and Safety. See section titled Flood Hazard from Rainstorms, pg. 6-21.

3.4   Flooding Hazard from Dam Failure

3.4.1   Description

Stevens Creek Dam is the only dam that affects the City of Cupertino. It is located in the Stevens Canyon south of Ricardo Road, is part of the Stevens Creek County Park, and owned by the Santa Clara Valley Water District. The reservoir is periodically inspected and the existing data about its capacity and endurance indicates a sound structure.

In the event of a dam failure, the estimated drainage of the Stevens Creek Dam would occur in one (1) hour 15 minutes depending on the size of the breach. The water would flow northeast, reaching Interstate-280 in 30 minutes. The main course of the water will flow through the Deep Cliff and Blackberry Farm Golf Courses until it reaches Stevens Creek Boulevard. There are few residences and businesses in this area. Once at Stevens Creek Boulevard, it will flow through the low-lying residential area of Phar Lap and the nearby streets and courts of the Oakdale Ranch subdivision.

Because of recently built sound walls on Freeways 85 and 280, the water will be prevented from flowing beyond them into Sunnyvale. The viaduct beneath Highway 85 descends into a 15" – 16" depression and will channel the water prior to it reaching Sunnyvale.

3.4.2   History of Events

While there has never been a breach of the dam since it was built, several improvements have been made over the last 25 years. These include:
- upgrade to an endurance level of 8.25 on the Richter scale in 1977
- small upstream and downstream berms created, dam was raised 10 feet in 1985
- upgraded by compacting dirt around the edges and across the face
- spillway upgraded to withstand a water flow of 15,600 cu ft per second

3.4.3   Probability of Occurrence

As stated in the "Stevens Creek Dam Failure Evacuation Plan," (June 7, 1993) an assessment of the dam's capacity and endurance are assuring and suggest that a dam failure is quite remote.

3.4.4   Population Affected

There is relatively little population in the areas that would be affected. There could be, however, seasonal shifts in the open-space recreation areas such as picnickers and golfers.

3.4.5   Adjacent Affected Jurisdictions

The possibility of the water inundating Sunnyvale is remote.

3.4.6   City Reference
1. The City maintains a copy of the "Stevens Creek Dam Failure Evacuation Plan," June 7, 1993. This plan is included in *Part 4 References Section*.
2. See *Part 4 References Section*, "The CUPERTINO General Plan," Section 6, Public Health and Safety. See section titled <u>Flood Hazard from Failure of Water-Storage Facilities</u>, pg. 6-22.

3.5   Fire Hazard

3.5.1   Description

Santa Clara County Fire Battalion Three operates in the State Responsibility Area (SRA) that includes Cupertino.

There are 16 square miles of land in the mountains of the Cupertino Planning Area, with people who live in the foothills and mountains being at the most risk from fire. Concerns for fire are mainly focused on the impact to the Stevens Creek watershed due to increased flooding and silting of streambeds.

Most residents living in urbanized areas are not exposed to high fire danger.

3.5.2   History of Events

On August 30, 2007, fire broke out in the hills west of the Cupertino in an unincorporated area of Santa Clara Valley. It burned through approximately 151 acres, prompting the voluntary evacuation of homes and vineyard facilities along Monte Bello Road. Firefighters from the Santa Clara County Fire Department, CAL FIRE and numerous other agencies worked to slow and eventually stop the spread of the fire.

Operations relied on a number of air assets including CAL FIRE helicopters and tankers that were able to effectively bolster fire lines established by hand crews and dozers. Additional fire suppression was offered through the first deployment of TANKER 910, a DC-10, to a Northern California wildland fire incident.

3.5.3   Probability of Occurrence

The California Department of Forestry and Fire Prevention identifies SRA Fire Hazard Severity Zones as Moderate, High, and Very High based on land, fuel loading, slope, and fire weather. Battalion Three is divided into 3 sections:

*   the South Section (Loma Prieta area) is assessed to be a VERY HIGH
*   the center section (West Santa Clara Valley Foothills) is MODERATE, and
*   the North Section (Hwy 85 and I-280) is HIGH.

3.5.4   Population Affected

No estimates.

3.5.5   Adjacent Affected Jurisdictions

Saratoga, Los Altos, Los Altos Hills, various unincorporated areas of Santa Clara County.

3.5.6   City Reference

1. *The CUPERTINO General Plan*, Section 6, Public Health and Safety. See section titled <u>Potential Fire Hazards</u>, pg. 6-11.
2. *California Department of Forestry and Fire Protection, Santa Clara County, Fire Management Plan 2005*, See section titled <u>Battalion Three: (Los Gatos)</u>, pg. 27.

4   Served Agencies

4.1   Introduction

This section describes the served agencies with which CARES has a formal agreement. For each listed agency, specific agency requirements relevant to CARES are described followed by the type of response CARES can make to address that requirement. Copies of all agreements are included in *Part 4 References Section*.

4.2   City of Cupertino

4.2.1   Background

The City of Cupertino (pop. 59,220) is an incorporated municipality in the County of Santa Clara. It is located between Los Altos and Sunnyvale on the north, Santa Clara and San Jose on the eastern flank, and Saratoga and portions of San Jose on the south. The Santa Cruz Mountains are on the westerly fringe.

The City delivers access, utility, and public safety services to its residents either directly or through contract service provider organizations. The City is responsible for establishing the City's emergency plan and ensuring city departments are prepared to respond when called to do so. The City Manager is responsible for activating the emergency plan in accordance with the appropriate emergency ordinance and assumes the role of Director of Emergency Services. The City will manage all emergencies and disasters using the Incident Command System (ICS) within the structure of the Standardized Emergency Management System (SEMS).

4.2.2   Requirements for an Earthquake

As part of the INITIAL RESPONSE, the City's Director of Emergency Services needs to have accurate and timely information immediately after a citywide event in the form of a damage and casualties assessment to understand the extent of the damage and decide where city resources should be deployed first. In the case of the 1989 Loma Prieta earthquake, a preliminary damage assessment was not completed until several hours after the initial event.

For the EXTENDED RESPONSE, the city is expected to handle the local situation with its own services and resources as best possible. The City has also promoted a strong Cupertino Citizen Corp that represents CARES, CERT, and MRC volunteers. When it becomes clear that a specific service or capability (such as medical, shelter, material) can no longer cope with the demands for assistance, the City will then request help from the Operational Area. The City needs timely information on the state of service and relief providers to know when this situation is about arise.

CARES Response

1. To support an INITIAL RESPONSE, CARES members will perform an initial damage assessment of their local neighborhoods and report that assessment to the City through the CARES Emergency Net. Because of the geographic dispersion of CARES members throughout the city, this early assessment may be considered representative of the damage throughout the entire city.

2. To support an EXTENDED RESPONSE, CARES members may be dispatched into the field to fill communications positions at City-sponsored

ARC sites (area CERT locations) as well as for agencies and relief providers that typically do not have communications capabilities.

3. Additionally, because Cupertino residents may seek out help at city and county facilities (such as fire stations, schools, etc.), CARES members may be dispatched to these locations to collect data and report on the status of Cupertino residents.

4.2.3 Requirements for Flooding by Severe Weather

Because the Santa Clara Valley Water District does not release flood watch or warning bulletins (this function is performed by National Weather Service), the city needs reliable and timely information on the levels of local creeks and streams during severe storms to determine if a response to flooding is required.

CARES Response:

1. To support a state of INCREASED READINESS or an INITIAL RESPONSE, CARES members may be asked to establish a creek-watch net and monitor the levels of specific creeks and streams at specific city intersections.
2. If flooding occurs and residents are displaced from their homes, CARES members may be dispatched to staff communication positions at shelters or other locations as part of an EXTENDED RESPONSE.

4.2.4 Requirements for Flooding by a Dam Failure

The Stevens Creek Dam is remotely monitored for any change in water level. In the event that a dam failure is imminent, the City will require residents in the inundation area to be immediately notified. The Santa Clara County Sheriff's Department will manage the notification process.

CARES Response:

1. If flooding occurs and residents are displaced from their homes, CARES members may be dispatched to staff shelters or positions at other volunteer response team locations as part of an EXTENDED RESPONSE.

4.2.5 Requirements for Fire

While Santa Clara County Fire or CAL FIRE undoubtedly will have jurisdiction over any wild land fire that may put Cupertino at risk, the City will want to understand the state of the event, the risk to the community, and progress toward its containment.

CARES Response:

1. During the Steven Fire, CARES was asked to provide a radio link to Fire responders in the field to the EOC due to poor cell phone coverage in the affected area. CARES can deploy cross-band repeaters to reach and other manual message relay systems as needed.

4.3   Santa Clara County Fire Department

4.3.1   Background

The Santa Clara County Fire Department is a California Fire Protection District serving Santa Clara County and the communities of Campbell, Cupertino, Los Altos, Los Altos Hills, Los Gatos, Monte Sereno, Morgan Hill, Saratoga, and the unincorporated areas adjacent to these cities with ISO Class 2/8 services. The Department operates 3 stations in Cupertino – Cupertino Station, Monta Vista Station, and Seven Springs Station – with full time personnel around the clock. On activation of the City's emergency plan, a Department representative responds to the EOC and supports the city as a member of the Operations Section.

4.3.2   General Requirements

As part of any INITIAL RESPONSE, the Fire Department will dispatch its units based on priorities established by County Fire Command. An accurate assessment of the city's state will be imperative for helping County Fire prioritize its response.

For the EXTENDED RESPONSE, County Fire may be expected to manage incoming fire equipment assets from distant departments. These assets would be staged and deployed based on the overall operational plan. The ability to coordinate these assets will be critical to ensure an effective response.

Additionally, a large contingent of County Fire personnel lives outside the area with some County Fire personnel traveling up to hundreds of miles from their home to work their shift. During an EXTENDED RESPONSE, the ability to provide a health and welfare check for on-shift personnel of their families will help Country Fire personnel focus on the task at hand.

CARES Response:

1. To support an EXTENDED RESPONSE, CARES members may be dispatched to fire equipment staging areas and response areas. The mission will be to help coordinate the movement of equipment and material throughout the response area.

2. Because Cupertino residents may seek out help at city and county facilities (such as fire stations, schools, etc.), CARES members may be dispatched to Fire Stations in Cupertino to collect data and report on the status of Cupertino residents.

3. Additionally, CARES will use the National Traffic System voice or packet nets to pass health and welfare traffic on behalf of County Fire personnel.

4.4 Cupertino Sanitary District

4.4.1 Background

The Cupertino Sanitary District (CuSD) is a Special District that provides service to over 50,000 persons with more than 23,000 residences and homes within the City of Cupertino, portions of the Cities of Saratoga and Los Altos, and surrounding unincorporated areas.

CuSD owns and manages over 1 million lineal feet of sewer mains, 0.5 million lineal feet of sewer laterals, 17 pump stations, 4,000 manholes and flushing inlets, and one equipment storage facility. CuSD conveys nearly 5 million gallons of wastewater daily from its customers for treatment at the San Jose/Santa Clara Water Pollution Control Plant.

CuSD is chartered to provide a safe, effective and economical sewerage system for the above areas. The CuSD is responsible for establishing the CuSD's Emergency Plan and preparations to respond when called to do so. The District Manager-Engineer, or his designee, is responsible for activating the Emergency Plan in accordance with the appropriate emergency guidelines. The CuSD will manage a disaster response to protect its assets using the CuSD Emergency Plan.

One component to the sanitary system are pump stations. While the Valley has a gentle slope to the bay, there are locations where pumps are required to pump sewage over high points or return the flow to a reasonable depth for the sewage to be on its way again. These pump stations cycle on to empty "wet wells" whenever the sewage levels reach a certain point.

4.4.2 General Requirements

As part of an INITIAL RESPONSE, CuSD staff will confirm the stability of the sanitary system in Cupertino.

For an EXTENDED RESPONSE, any loss of electrical power to the pump stations may result in a spill onto city streets. Some of the CuSD pump stations have permanently mounted generators in close proximity that will switch on automatically in the event of a power loss. CuSD also owns and operates several portable generators. During a power loss, up to 4 crews of CuSD Field Inspectors would be deployed with portable generators to check on wet well levels and apply power to the pumps as required.

CARES Response:

1. To support an EXTENDED RESPONSE, CARES will provide operators to staff the CuSD EOC radio and shadows for Field Inspectors as necessary. Their mission would be to help pass information between the CuSD office and field units regarding the movement of generators and other CuSD-owned emergency equipment throughout the response area.
2. Additionally, CARES will execute an Infrastructure Safety Assessment as soon as possible after an infrastructure-impacting event, or when requested and resources permitting, and report our observations to CuSD on their assets.
3.

4.5   San Jose Water Company

4.5.1   Background

San Jose Water Company (SJWC) is an investor owned public utility in the business of providing water service to approximately one million people in the cities of San Jose, Los Gatos, Monte Sereno, Saratoga, Campbell and Cupertino through systems acquired under lease, purchase, or franchise agreements.

SJWC service area covers about 140 square miles in the Santa Clara Valley with water sourced from groundwater (wells, ~40%), imported surface water (supplied by the Santa Clara Valley Water District, ~50%), and local mountain surface water (Santa Cruz Mountain watershed, ~10%). Water supplied to the City of Cupertino originates from both import and groundwater.

SJWC is responsible for establishing their emergency plan. The company operates during emergencies in accordance with emergency guidelines established in the plan.

4.5.2   General Requirements

As part of an INITIAL RESPONSE, SJWC staff will confirm the stability of the water delivery system throughout their operating area. Assistance to inspect of storage facilities and distribution lines may be requested to the Cupertino EOC.

For an EXTENDED RESPONSE, SJWC requests periodic inspection or monitoring, and reporting of critical assets.

CARES Response:

4.   To support an EXTENDED RESPONSE, CARES will execute an Infrastructure Safety Assessment as soon as possible after an infrastructure-impacting event, or when requested and resources permitting, and report our observations to SJWC on their assets.

5 Overview of Operations

5.1 Introduction

The CARES response is based on the following 5 operational phases:

- Preparedness
- Increased Readiness
- Initial Response
- Extended Response
- Recovery

Each phase is characterized by a set of operational objectives that guide the organization in fulfilling its mission. While a set of general objectives exists, additional event-specific operational objectives may be defined as required.

During each phase, specific actions are taken to reduce or eliminate the impact of specific disaster situations. In coordination with the Planning/Intelligence Section Chief or the City's Emergency Preparedness Coordinator, the Cupertino EC/RO will determine the appropriate level of alert for CARES.

5.1.1 Preparedness Operations

Preparedness is the operational phase in which CARES members will spend the bulk of their time. It is best characterized as a period when no emergency situation exists or none is imminent.

The operational objectives for this phase are:

1. CARES members work to develop or maintain the skills and understanding needed to support an emergency response.
2. CARES members are aware of new or changing hazards and conditions in the city.

CARES will take advantage of this time for planning, training, and practice. In each case, CARES members can participate as time, expertise, and interest allow.

Activities to support the Preparedness Operational Objectives may include, but are not limited to:

- Conducting the weekly CARES Emergency Net
- Holding technical, emergency preparedness, and operational training sessions
- Conducting drills and exercises to test response scenario processes
- Holding general membership meetings
- Supporting non-emergency activities (parades, special events, etc.) as a test of our abilities

5.1.2 Increased Readiness Operations

The operational objectives for this phase are:

1. All CARES members are alerted and ready to respond.
2. CARES members are kept up to date on changes and developments regarding the potential emergency.
3. The City and our Served Agencies are supported as requested.

On receiving a warning, or observing that an emergency situation is imminent or likely to occur soon, or at the request of the City, the EC/RO or his designate will initiate actions to increase the readiness of CARES. Events that may trigger Increased Readiness Operations include:

- Earthquakes: Early notification of an earthquake by the USGS or other agency.
- Flooding: CARES may have some notification or indication that flooding is imminent. The National Weather Service, through the services of the Emergency Alert System, is responsible for Flash Flood warnings and will notify the public of potential flooding danger.
- Dam Failure: The City may have some notification or indication that a dam failure is imminent. The Santa Clara Valley Water District operates various measurement devices to detect sudden changes in water levels or slides on the dam surface. The response to a dam failure must be fast. Depending on the time and day of the week, CARES may be called to increase our state of readiness.
- Wildland Fire: CARES may have some notification or indication that a fire danger to the city is imminent. This notification will come from Cupertino OES, the Cupertino EOC, or commercial news outlets.
- Other: Other natural or civil event warranting emergency communications.

Activities to support the Increased Readiness Operational Objectives may include, but are not limited to:

- Notifying CARES members of the emergency and a potential activation
- Reviewing specific hazard operating procedures
- Performing personal and City equipment readiness checks
- Activating the Cupertino Emergency Net for information-sharing

5.1.3   Initial Response Operations / Activation

The operational objectives for this phase are:

1. CARES is formally activated.
2. The City EOC management team receives a Preliminary Safety Assessment if appropriate.
3. The Communications Action Plan is developed and approved.

The CARES activation and initial response is triggered by a local declaration of an emergency by the City's Director of Emergency Services. This activation may take place before, during, or immediately after an emergency situation occurs. Regardless of the time of the activation, the initial CARES response will most likely take place in the field.

NOTE: All CARES members are strongly advised to ensure your immediate situation (self, family, and neighbors) is under control prior to responding.

Activities to support the Initial Response Operational Objectives may include, but are not limited to:

- Notifying all CARES members of the existence of an emergency
- Activating the Cupertino Emergency Net
- Checking into the Cupertino Emergency Net; passing traffic when requested
- Reporting preliminary damage or casualty assessments from your immediate area
- Individual responders determining their availability to take a field or County Mutual Aid assignment

5.1.4   Extended Response Operations

The operational objectives for this phase are:

1. CARES provides the city and its served agencies with the necessary communications needed to support the city during a prolonged emergency response.
2. The CARES resource and staffing plan is developed.
3. CARES members receive the logistical support needed to fulfill their mission.

The bulk of the CARES extended response will take place in the field. An extended response operation involves coordinating and managing CARES resources and assets to mitigate an emergency situation and support the City's transition to the Recovery Operation.

CARES will continue to operate under the authority of and report to the City's Planning/Intelligence Section Chief. When the Cupertino EOC is activated, amateur radio communication and coordination will be established between CARES field personnel and the EOC. The EOC Communications Van must be staffed to support the City emergency management staff.

Activities to support the Extended Response Operational Objectives may include, but are not limited to:

*   Developing requirements for CARES staffing
*   Staffing the Cupertino EOC or alternate EOC Communications Van as directed
*   Staffing and maintaining the Net Control Operator position
*   Participating in or reporting detailed damage assessments
*   Supporting City ARCs, mass care, or other facilities with emergency communications
*   Staffing creek-watch stations and reporting on any changes
*   Supporting served agencies with emergency communications
*   Prioritizing, allocating, directing, and tracking CARES resources
*   Procuring additional resources to sustain operations
*   Participating in County resource and command nets

5.1.5   Recovery / Deactivation

The operational objectives for this phase are:

1. CARES has accomplished its assigned mission and is directed to stand down.

Recovery activities are mainly executed by the City and involve restoring services to the public and rebuilding affected areas.

As the immediate threat to life, property, and the environment subsides and standard communication systems are brought back on line, CARES may be demobilized in part or in its entirety. While a demobilization does not necessarily mean total disengagement, it does mean that the CARES formal engagement is complete. As Cupertino resident volunteers, CARES members are encouraged to participate in the recovery in a way that suits each individual.

For CARES, activities to support the Recovery Operational Objectives may include, but are not limited to:

*   Performing any replenishment and maintenance on personal equipment
*   Assisting neighbors, relief agencies, or the city in non-communications recovery activities

- Collect event documentation; compile the after action report submittal to the City EOC Staff.