Cupertino Amateur Radio Emergency Service

Topic: Preliminary Safety Assessment Process Overview

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Event: Cupertino ARES meeting, Orientation Training

PSA Process Overview



CARES mission

The mission of Cupertino ARES 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 effort.



The City's response priorities

- Address immediate life safety problems
- Assess the integrity of and stabilize Cupertino's critical infrastructure
 - Water
 - Sanitary
 - Access
- Perform search and rescue, health and welfare, establish shelters
- Execute recovery operations



Earthquake Scenario

Initial Response Assignments

City Staff	Inspect City facilitiesStaff the EOC		
County Fire	Fire suppressionSearch and Rescue		
County Sheriff	Public SafetyLaw and Order		
CERT, MRC	 CERT operations (SAR, medical, care and shelter, etc.) and support for: Organized neighborhoods Area Ark ICS, response 		
CARES Cupertino ARES/RACES	 Preliminary Safety Assessment Emergency field communications support Infrastructure Safety Assessment 		

Earthquake Scenario

Served Agency	Critical Need
City of Cupertino	 Preliminary Safety Assessment ARK communications support Critical facility staffing General communications support
Santa Clara County Fire	Infrastructure Safety Assessment
Cupertino Sanitary District	Infrastructure safety assessment
San Jose Water Company	Infrastructure safety assessment

Other critical agencies	Need
Cupertino Medical Center	Communications with the city
Cal Water	Infrastructure Safety Assessment
Santa Clara Valley Water	Infrastructure safety assessment
Union Pacific RR	Infrastructure safety assessment

Earthquake ScenarioCARES response assignments

Preliminary Safety Assessment	CARES collects and reports information about the state of the city immediately after a city-wide emergency or disaster occurred.
Field Response	CARES members respond and operate at a field assignment during a declared emergency.
Infrastructure Safety Assessment	CARES observes and reports on selected Cupertino critical facilities that are deemed to be important to the City or other Agencies.



Authorization to activate

Cupertino Amateur Radio Emergency Service PART 2 Procedures Standard Operating Procedures

9.1.2 Self-announcing Natural Disasters

The following direction is authorized per the following reference: Emergency Operations Plan, City of Cupertino, Part I Basic Emergency Plan, Section XI Volunteers and Disaster Service Workers, page 43.

- During self-announcing natural disasters, <u>CARES</u> members may self-dispatch and commence windshield surveys to provide situation status and Preliminary Safety Assessments provided it is safe to do so.
- CARES members may also respond to Mutual Aid requests and may become part of the Santa Clara County Operational Area ARES/RACES team.
- For all other events (natural and man-made), requests for DSWs will be announced via telephone, courier, radio, and television.
- Volunteers will not respond to any act of terrorism unless specifically requested by the EOC or their City contact person.



Earthquake Scenario

Objective: mitigate further damage to infrastructure and property, preserve life, restore services

	What the EOC needs	CARES	CERT	MRC
Notification		Self-evident	Self-evident	Self-evident
What do you do first	 Preliminary Safety Assessment 	 Take care of family at home 	 Take care of family at home 	 Take care of family at home
Activation / Mobilization	Help with the initial EOC staffing	 Activate the CARES emergency net Check into the net Preliminary Safety Assessment 	 Respond to organized neighborhood Neighborhood PSA Respond to local Ark 	Respond to local Ark
Deployment (Help stabilize the situation)	 Information on the state of the city Windshield survey Rescue assistance to residents Medical assistance to residents Help with logistics, distribution of food, shelter, material Help reassure residents 	 EOC Radio Room staffed Deploy Field Responders (Arks, Fire Stations, Shelter, Medical, etc) Infrastructure Safety Assessment Provide served agency support (per plans) Build staffing plan 	 Ark Deployment Activate Ark Establish, staff ICS Check in volunteers Receive, process community assistance requests Assemble, dispatch SAR, First Aid teams Support Ark Site staff Assign to survey teams; verify the Cupertino 100 Build staffing plan 	 Establish First Aid Station at Ark (?) Deploy as requested Build staffing plan

Earthquake Scenario

Objective: mitigate further damage to infrastructure and property, preserve life, restore services

	What the EOC needs	CARES	CERT	MRC
Recovery	Field Status Reports	 Operational period reports 	 Operational period reports 	 Operational period reports
Demobilization	 List of supplies to be replenished 	Personal Equipment inventoryCARES asset inventory	 Personal Equipment inventory Ark asset, supplies inventory 	 Personal Equipment inventory Ark First Aid asset, supplies inventory



What is it?

Situation

- The Cupertino EOC needs a rapid assessment of the state of the city so that response resources can be assigned to have the maximum impact.
- During city-wide disasters, regular communications channels may be disrupted, leaving EOC decision-makers with little information to go on.



What is it?

Response

 CARES is chartered to provide Preliminary Safety Assessment (PSA) information when a disaster occurs.

Definition

- A PSA report <u>occurs early</u> in an emergency. While information may be fragmented and incomplete, whatever data is available will <u>provide the City with a preliminary assessment</u> of the damage so the EOC can <u>determine the best response</u> to save lives, protect property, and speed the recovery.
- Early Safety Assessment reports should not be delayed by getting mired in detail in an effort to obtain more extensive assessment information.



When do we do it?

Self-evident Events

 Earthquakes... These events have the potential for significant damage throughout the Bay Area.

Non-evident Events

- Flooding... May be localized to a specific area
- Man-made disasters...
- Whenever requested by the EOC



1. Once the shaking stops...

Take care of yourself...

... your family

- Determine the condition of your family; apply first aid if necessary.
- Determine the structural soundness of your home; evacuate if necessary.

... your neighborhood

- Perform the Preliminary Safety Assessment...
 - What you do depends on your situation.
 - Do not put your personal safety at risk.
 - Do not exceed your physical ability to perform the assessment.



2. Collecting the data...

Collect information on...

- Injuries
- Structure damage
- Fires
- Hazards
- Access

using...

 COES 105 Situation Status / PSA (Preliminary Safety Assessment) Form

Assessment Date/time:				Street: Between: and
Perfo	Performed by:			Map Grid (Chamber Map):
Comr	mand Post Location	1:		Number of Units Surveyed:
Ref	Category	Subcategory	Count	Notes/Addresses (use back of page if n
1.1	Injuries, Minor	Able to walk away from the incident		
1.2	Injuries, Delayed	Regular breathing, and Capillary refill <2 sec, and Answers questions, responds to commands		Address:
1.3	Injuries, Immediate	Rapid Breathing >30/min, or capillary refill >2 sec, or Confused, disoriented OR TRAPPED		Address:
1.4	Injuries, Presumed Dead	Unconscious, no respiration		Address:
2.1	Structure, Light Damage	Superficial Damage Broken Windows Cracked or fallen plaster Main damage is to contents		
2.2	Structure, Moderate Damage	Large amount of cracking on exterior Small cracks around doors and foundations No outward sign of structural damage		Address:
2.3	Structure, Heavy Damage	Partial or full collapse Building is off foundation Structural damage to the building		Address:
3.1	Fire	Fire, Any situation, note if extinguished		Address:
4.1	Hazards	Gas Leaks		Address:
4.2	Hazards	Sewer Leaks		Address:
4.3	Hazards	Water Main Breaks		Address:
4.4	Hazards	Electrical Power, Lines Down. Power in the neighborhood?		
5.1	Access	Roads blocked Other Obstructions		

http://www.cupertinoares.org/ccc/forms.html



About Cupertino Citizen Corps | Links | Forms | Training | Pandemic

The following forms are used by Cupertino ARES/RACES, Cupertino's CERT, and MRC teams when responding to events throughout the city. All forms below are in PDF format. For a source copy of the forms, please contact kn6pe @ arrl.net.

Form Name	Version
CERT / Ark Forms	
COES100 - Org Chart	May-2008
COES101 - Assistance Request	080519
COES102 - Help Desk Control No Assignment Log	8.080405 🚧 💮
COES103 - Planning & Intel Section Event Log	080519
COES104 - Operations Section Event Log	080519
COES105 - Situation Status / PSA	080519
COES106 - Situation Status Rollup / Tracking	080519
COES107 - T-Card (Cupertino version)	
COES108 - Missing Person Form	6.060504
COES121 - Check-in/Check-out	
COES122 - Inventory Form	
COES123 - Logistics Order Form	
COES134 - Logistics Receipt Form	
Cupertino ARES/RACES	

http://www.cupertinoares.org/ccc/forms.html



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Form Name	Version
ARES/RACES Forms	
COES201 - Net Control Log	060722
COES105 - Preliminary Safety Assessment, Field	080519
COES204 - Preliminary Safety Assessment, Rollup	060722
COES205 - Infrastructure Safety Assessment, Rollup	071114
COES210 - After Action Report Format	060722
MRC Forms	
COES109 - Patient Registration Log	090801
COES110 - Patient Care Report	0508 VPDA
COES111 - Minor Injury Form	090801
COES112 - Logistics Report	1.0608 UPDA
COES113 - Secondary Assessment Worksheet	1.0508 UPDA
ICS206 - Medical Plan	BASARC 3/98
NHAMCS-100 - Ambulatory Medical Care	8-18-2004



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Form Name	Version
General Use Forms	
ICS201 - Incident Briefing (short form)	060307
ICS201 - Incident Briefing (page 1, page 2, page 3, page 4)	BASARC 3/98
ICS202 - Incident Objectives	7/06
ICS204 - Assignment List	7/06
ICS205 - Incident Radio Communications Plan	060307
ICS207 - Organization Chart	BASARC 3/98
ICS211B - Check-in Log	080521
ICS213 - Message Form	
ICS213 - Message Form, Santa Clara County RACES	06/28/07
ICS214 - Unit Log (print 1st 2 pages only)	060722
ICS214a-OS - Personal Unit Log (print 1st 2 pages only)	000601 🐫
ICS219 - T-Card	
SAR100 - General Briefing, Generic Incident	BASARC 1/96
SAR100a - General Briefing, Missing Person	BASARC 1/96
SAR104 - Team Assignment	BASARC 1/96
SAR110 - Team Debriefing	BASARC 1/96
SAR132 - Urban Interview Log	BASARC 1/96

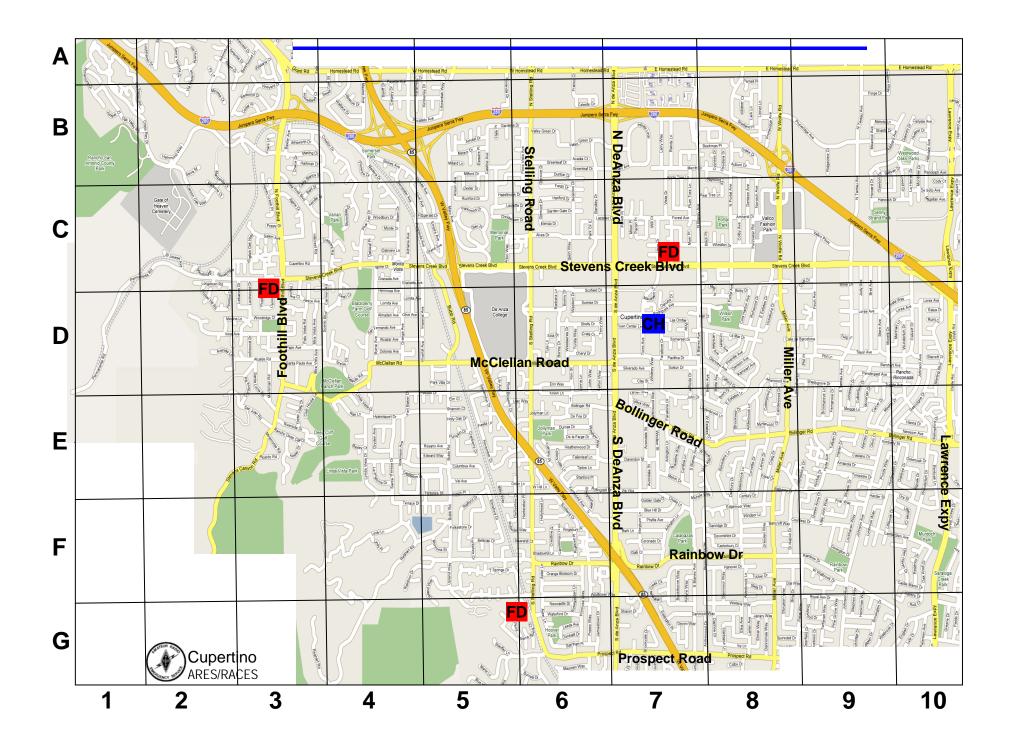
		tatus / PSA Form d Neighborhoods, CARES Preliminary Safety Assessm	ent		Control No:
Assessment Date/time:				Street: Between:	and:
Perfo	rmed by:			Map Grid (Chamber Map):	
Comr	nand Post Location	1:		Number of Units Surveyed:	
Ref	Category	Subcategory	Count	Notes/Addresses (use back of	page if necessary)
1.1	Injuries, Minor	Able to walk away from the incident			
1.2	Injuries, Delayed	Regular breathing, and Capillary refill <2 sec, and Answers questions, responds to commands		Address:	
1.3	Injuries, Immediate	Rapid Breathing >30/min, or capillary refill >2 sec, or Confused, disoriented OR TRAPPED		Address:	
1.4	Injuries, Presumed Dead	Unconscious, no respiration		Address:	
2.1	Structure, Light Damage	Superficial Damage Broken Windows Cracked or fallen plaster Main damage is to contents			
2.2	Structure, Moderate Damage	Large amount of cracking on exterior Small cracks around doors and foundations No outward sign of structural damage		Address:	
2.3	Structure, Heavy Damage	Partial or full collapse Building is off foundation Structural damage to the building		Address:	
3.1	Fire	Fire, Any situation, note if extinguished		Address:	
4.1	Hazards	Gas Leaks		Address:	
4.2	Hazards	Sewer Leaks		Address:	
4.3	Hazards	Water Main Breaks		Address:	
4.4	Hazards	Electrical Power, Lines Down. Power in the neighborhood?			
5.1	Access	Roads blocked Other Obstructions			

2. Collecting the data... filling out the form

COES 105 Situation Status / PSA Form Rev 080519 For use by Organized Neighborhoods, CARES Preliminary Safety Assessment		Control No:
Assessment Date/time: 2/6/10 8:45am	Street: Between: and:	
Performed by: Jim o kn6pe	Map Grid (Chamber Map): 65	
Command Post Location:	Number of Units Surveyed: 24	

Header

Date/Time	When you performed the PSA					
Performed by:	This is you					
Command Post Location:	Use if you are part of an Ark deployment. Otherwise, leave blank					
Street: Between and:	Use if you are part of an Ark deployment. Otherwise, leave blank					
Map Grid:	Use your Chamber of Commerce map for the grid where you are operating					
Number of units.	This is the survey size of the houses you checked.					
Control No:	Use if you are part of an Ark deployment. Otherwise, leave blank					



2. Collecting the data... Category refresher

- Simple Triage and Rapid Treatment – START
- RPM...
 - Respiration
 - Profusion
 - Mental status
- Hand-marking status...
 - -M-minor
 - D delayed
 - I Immediate
 - X presumed dead



		•
Ref	Category	Subcategory
1.1	Injuries, Minor	Able to walk away from the incident
1.2	Injuries, Delayed	Regular breathing, and Capillary refill <2 sec, and Answers questions, responds to commands
1.3	Injuries, Immediate	Rapid Breathing > 30/min, or capillary refill > 2 sec, or Confused, disoriented OR TRAPPED
1.4	Injuries, Presumed Dead	Unconscious, no respiration

2. Collecting the data... Category refresher

Damage Assessment

- Light damage
- Moderate damage
- Heavy damage

2.1	Structure, Light	Superficial Damage
	Damage	Broken Windows
	_	Cracked or fallen plaster
		 Main damage is to contents
2.2	Structure,	 Large amount of cracking on exterior
	Moderate	Small cracks around doors and
	Damage	foundations
		No outward sign of structural damage
2.3	Structure, Heavy	Partial or full collapse
	Damage	Building is off_foundation
	_	 Structural damage to the building
	T	



- 2. Collecting the data... Category review
- Fire, Hazards, Access
 - What you see
 - What you hear
 - What you smell

3.1	Fire	Fire, Any situation, note if extinguished
4.1	Hazards	Gas Leaks
4.2	Hazards	Sewer Leaks
4.3	Hazards	Water Main Breaks
4.4	Hazards	Electrical Power, Lines Down. Power in
5.1	Access	the neighborhood? Roads blocked
		Other Obstructions



2. Collecting the data... filling out the form

Ref	Category	Subcategory	Count	Notes/Addresses (use back of page if necessary)			
1.1	Injuries, Minor	Able to walk away from the incident	THH 1	//	8		
1.2	Injuries, Delayed	Regular breathing, and Capillary refill <2 sec, and Answers questions, responds to commands		Address:	0		
1.3	Injuries, Immediate	Rapid Breathing >30/min, or capillary refill >2 sec, or Confused, disoriented OR TRAPPED	///	Address: 541 Woodhill court 2671 Pinebrook Ct 965 Evening Springs Court	3		
1.4	Injuries, Presumed Dead	Unconscious, no respiration		Address:	0		
2.1	Structure, Light Damage	Superficial Damage Broken Windows Cracked or fallen plaster Main damage is to contents	THH -4	<u> </u>	11		
0.0	01 1	1 6 1:		4.11			

Main Section

The Count	Indicate the number of encounters that meet this criteria					
Notes/Addresses	For Life-threatening or property-threatening, list the addresses					

Note: When done, total up each block and write the number "somewhere" for easy reporting.



2. Collecting the data... filling out the form

	1	Tare neighborhood:		L	1		
5.1	Access	Roads blocked					
		Other Obstructions					
Status	Status Report Logged? (Initials)						
Doc Un	ilt Logged (OPS Desk Logged	Doc Unit Completed		Rollup		
COES1	03	COES104	COES103				

Footer

Status Report Logged?	Use if you are part of an Ark deployment. Otherwise, leave blank.
Roll-up	Use if you are part of an Ark deployment. Otherwise, leave blank



3. Check into the Net

- Turn on your radio and listen.
- If you are the first person on the frequency and have the capability to perform as an Net Control Operator, establish the CARES Emergency Net, or...
- Check in to the net when check-ins are requested.



4. Prepare your Message

- Message ID -- Assigned by the Net Control Operator
- Precedence -- determines the urgency of the message (Emergency, Urgent, Routine, Health & Welfare)
- **Destination** -- If omitted, deliver to EOC Planning or Ops Section
- **Date/Time** -- Time the message was created. If omitted, receiving station enters the Date/Time the message was received.
- Subject If omitted, "PSA"
- The Message -- PSA Report... numbers only
 if you have Emergency Traffic... nature and
 location



4a. Precedence (Priority)

- *Emergency* -- Life-threatening: Situations, reports, and updates that might directly result in deploying or prioritizing resources for an incident involving life-saving efforts. When in doubt, **DO NOT** use this designation.
- Urgent -- Property threatening: Situations and reports of new threats, revised flood projections, wind direction changes in a major fire, and reports of additional damage from earthquake aftershocks suggesting additional rescue efforts or surveillance.
- Routine PSA reports, correspondence between agency representatives, material and logistics messages, routine resource requests, shift planning, relief requests, etc.
- Health & Welfare -- Includes welfare inquiries



4b. Precedence (Priority)

Handling Mixed Urgency Messages

- If you have a mix of different message priorities, deliver the specific message priority (EMERGENCY and URGENT) when called.
- Deliver the balance of the report (ROUTINE and Health and Welfare) when called.



What it sounds like - Sending Emergency Traffic

NCS: Is there any EMERGENCY Traffic for the net?

KN6PE: "Net Control, this is KN6PE with EMERGENCY Traffic for the EOC"

NCS: KN6PE acknowledged. EOC, are you ready to copy emergency traffic?

EOC: "EOC is ready"

NCS: KN6PE, your message number is 29. Send your traffic to the EOC.

KN6PE: "EOC, This is KN6PE with EMERGENCY Traffic, message #29. Break"

EOC: "OK, Continue"

KN6PE: Message is: House fire at numerals 5 4 1 Woodhill Court. Break"

EOC: "OK, Continue"

KN6PE: "One person trapped inside. Break"

EOC: "OK, Continue"

KN6PE: "Area water pressure is low. End of Message. This is KN6PE"

EOC: "Acknowledged. This is EOC, K6FJC back to net."

NCS: This is KD6TQJ, Net Control for the Cupertino Emergency Net.

Other stations with emergency traffic, please identify now.

What it sounds like - Sending a PSA Report

KN6PE: "Net Control, this is KN6PE with PSA Traffic for the EOC"

NCS: KN6PE acknowledged. EOC, are you ready to copy PSA traffic?

EOC: "EOC is ready"

NCS: KN6PE, your message number is 30. Send your traffic to the EOC.

KN6PE: "EOC, This is KN6PE with PSA Traffic, message #30. Break"

EOC: "OK, Continue"

KN6PE: PSA Message is: Section 1 is 8, 0, 3, 0. Break"

EOC: "OK. Continue"

KN6PE: "Section 2 is 11, 5, 1. Break"

EOC: "OK, Continue"

KN6PE: "Section 3 is 1. Break"

EOC: "OK, Continue"

KN6PE: "Section 4 is 1, 0, 3, 1. Break"

EOC: "OK, Continue"

KN6PE: "Section 5 is 0. Number of houses surveyed is 24. Map coordinate is G5.

End of Message. This is KN6PE"

EOC: "Acknowledged. This is EOC, K6FJC back to net."

NCS: This is KD6TQJ, Net Control for the Cupertino Emergency Net.

Other stations with any traffic, please identify now.

COES 106 Situation Status - PSA Rollup/Tracking Form Rev 080519 For use by Organized Neighborhoods, Cupertino Arks, CARES ECC

	Closed Date/Time:											
	Submitted by: Call Sign:	kd6qpp	kn6pe									
	Report Control No: Message ID:	28	<i>30</i>			\ \ \/	3-2	t han	nonc	at th	o EO	Co
	Time Received:	0912	0915			What happens at the EOC?						
	Map Grid:	<i>B3</i>	<i>G</i> 5			1. Net Control Operator directs						
	Number of homes surveyed:	12	24				P	SA tra	ffic to t	he RR	0	
Ref												
1.1	Injuries, Minor	3	8			2.	R	adio R	oom C	perato	or recei	ves
1.2	Injuries, Delayed	2	0				ar	nd reco	ords th	e PSA	report	S
1.3	Injuries, Immediate OR TRAPPED	1	3			3.	R	olled u	ip repo	rts are	delive	red
1.4	Injuries, Presumed Dead	0	0						ection			
2.1	Structure, Light Damage	5	11			4.	TI	he FO	C uses	this d	ata to	
2.2	Structure, Moderate Damage	1	5			т.					articula	r
2.3	Structure, Heavy Damage	0	1							•	orse of	
3.1	Fire, Any situation	0	1				_	an oth		City W		•
4.1	Gas Leaks	3	1				(11		IC13.	I	I	I
4.2	Sewer Leaks	1	0									
4.3	Water Main Breaks	1	3									
4.4	Electrical Power,	0	1									
5.1	Roads blocked	0	5									
Info	passed to City by:			Da	ate/Time	•			•	•	•	•

Info passed to City by:

Received by:

How do we do it? - Initial Response Ops

