
Cupertino Amateur Radio Emergency Service

Topic: Response Scenarios

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Event: Cupertino ARES meeting, Orientation Training

Response Scenarios



Agenda

- Look at disasters and their mapping to our capabilities
- First look at different disaster scenarios and how CARES/CERT/MRC could respond

If we had a disaster tomorrow...

What would we do?

How Capabilities align w/ Disasters

Disasters: What disasters could we experience in Cupertino?

Potential Problems: What problems, situations could we encounter as a result of the disaster?

Response requirements: What will the city, service providers, and served agencies need to help them with their recovery?

Response capabilities: What do we know, how can help with the recovery?

General Response Priorities

- Your safety is your number one priority
- Take care of the needs of your family

Mapping Disasters to Capabilities

Disasters

- Earthquakes
- Flooding by dam failure
- Flooding by rain
- Wildland fire
- Large urban fire
- Manmade disasters (BNICE)

Potential Problems

- People – Injuries
- People – Trapped
- People – Homeless
- People – Hungry
- People – Sick
- Structures Damaged
- Structures Burning
- Utilities – Power
- Utilities – Gas main
- Utilities – Sewage
- Utilities – Water
- Access problems

Response Requirements

- Mass care shelters
- Evacuations
- Field First Aid stations
- Mass care, feeding
- DC/Fire Suppression
- DC/Prelim Safety
- Mass Prophylaxis
- Search and Rescue
- Information Outreach

Response Capabilities

- Shelter Staff
- Search & Rescue
- First Aid
- Fire Suppression
- Watches (creek, fire, traffic, incident, etc)
- Communications (Field, Shadows, etc)
- General resource

What capabilities are missing from the list?

1.

Earthquake

Disasters

- **Earthquakes**
- Flooding by dam failure
- Flooding by rain
- Wildland fire
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Potential Problems

- People – Injuries
- People – Trapped
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- People – Hungry
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- Structures Damaged
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- Utilities – Gas main
- Utilities – Sewage
- Utilities – Water
- Access problems

Response

Requirements

- Mass care shelters
- Evacuations
- Field First Aid stations
- Mass care, feeding
- DC/Fire Suppression
- DC/Prelim Safety
- Mass Prophylaxis
- Search and Rescue
- Information Outreach

Response

Capabilities

- Shelter Staff
- Search & Rescue
- First Aid
- Fire Suppression
- Watches (creek, fire, traffic, incident, etc)
- Communications (Field, Shadows, etc)
- General resource

Flooding

Disasters

- Earthquakes
- **Flooding by dam failure**
- **Flooding by rain**
- Wildland fire
- Large urban fire

Manmade disasters
(BNICE)

Potential Problems

- People – Injuries
- People – Trapped
- People – Homeless
- People – Hungry
- People – Sick
- **Structures Damaged**
- Structures Burning
- Utilities – Power
- Utilities – Gas main
- Utilities – Sewage
- Utilities – Water
- Access problems

Response

Requirements

- Mass care shelters
- Evacuations
- Field First Aid stations
- Mass care, feeding
- DC/Fire Suppression
- DC/Prelim Safety
- Mass Prophylaxis
- Search and Rescue
- Information Outreach

Response

Capabilities

- Shelter Staff
- Search & Rescue
- First Aid
- Fire Suppression
- Watches (creek, fire, traffic, incident, etc)
- Communications (Field, Shadows, etc)
- General resource

Wild land, Urban Fire

Disasters

- Earthquakes
- Flooding by dam failure
- Flooding by rain
- **Wildland fire**
- **Large urban fire**

Manmade disasters
(BNICE)

Potential Problems

- People – Injuries
- People – Trapped
- People – Homeless
- People – Hungry
- People – Sick
- Structures Damaged
- Structures Burning
- Utilities – Power
- Utilities – Gas main
- Utilities – Sewage
- Utilities – Water
- Access problems

Response

Requirements

- Mass care shelters
- Evacuations
- Field First Aid stations
- Mass care, feeding
- DC/Fire Suppression
- DC/Prelim Safety
- Mass Prophylaxis
- Search and Rescue
- Information Outreach

Response

Capabilities

- Shelter Staff
- Search & Rescue
- First Aid
- Fire Suppression
- Watches (creek, fire, traffic, incident, etc)
- Communications (Field, Shadows, etc)
- General resource

Manmade disaster (Biological)

Disasters

- Earthquakes
- Flooding by dam failure
- Flooding by rain
- Wildland fire
- Large urban fire
- **Manmade disasters (BNICE)**

Potential Problems

- People – Injuries
- People – Trapped
- People – Homeless
- People – Hungry
- **People – Sick**
- Structures Damaged
- Structures Burning
- Utilities – Power
- Utilities – Gas main
- Utilities – Sewage
- Access problems

Response Requirements

- Mass care shelters
- **Evacuations**
- **Field First Aid**
- Mass care, feeding
- DC/Fire Suppression
- DC/Prelim Safety
- **Mass Prophylaxis**
- Search and Rescue
- **Information Outreach**

Response Capabilities

- Shelter Staff
- Search & Rescue
- **First Aid**
- Fire Suppression
- Watches (creek, fire, traffic, incident, etc)
- **Communications (Field, Shadows, etc)**
- **General resource**

Mapping to Scenarios

Taking a look at scenarios for CARES, CERT, and MRC from these points of view...

- How are we notified of the disaster?
- What do we do first?
- Activation – How do we handle mobilization
- Deployment – How do we help stabilize the situation
- Recovery – What do we do on-going
- Demobilization – What do we do when standing down

Also, what does OES need?

Earthquake Scenario

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

	What EOC needs	CARES	CERT	MRC
Notification		Self-evident	Self-evident	Self-evident
What do you do first	<ul style="list-style-type: none"> • Preliminary Damage Assessment 	<ul style="list-style-type: none"> • Take care of family at home • PSA 	<ul style="list-style-type: none"> • Take care of family at home 	<ul style="list-style-type: none"> • Take care of family at home
Activation / Mobilization	<ul style="list-style-type: none"> • Help with initial EOC staffing 	<ul style="list-style-type: none"> • Activate emergency net • Check into emergency net 	<ul style="list-style-type: none"> • Respond to organized neighborhood • Neighborhood PSA • Respond to local Ark 	<ul style="list-style-type: none"> • Respond to local Ark
Deployment (Help stabilize the situation)	<ul style="list-style-type: none"> • 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 	<ul style="list-style-type: none"> • EOC Radio Room staffed • Assign Field Responders (Arks, Fire Stations, Shelter, CuSD, DPW, etc) • Provide served agency support (per plans) • Assign to survey teams; verify the Cupertino 100 • Build staffing plan 	<p>Ark Deployment</p> <ul style="list-style-type: none"> • 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 	<ul style="list-style-type: none"> • Establish First Aid Station at Ark (?) • Build staffing plan

Earthquake Scenario (continued)

	What EOC needs	CARES	CERT	MRC
Recovery	<ul style="list-style-type: none"> • Field Status Reports 	<ul style="list-style-type: none"> • Operational period reports 	<ul style="list-style-type: none"> • Operational period reports 	<ul style="list-style-type: none"> • Operational period reports
Demobilization	<ul style="list-style-type: none"> • List of supplies to be replenished 	<ul style="list-style-type: none"> • Personal Equipment inventory • CARES asset inventory 	<ul style="list-style-type: none"> • Personal Equipment inventory • Ark asset, supplies inventory 	<ul style="list-style-type: none"> • Personal Equipment inventory • Ark First Aid asset, supplies inventory

Wildland/Urban Fire Scenario

Objective: mitigate damage to infrastructure and property, preserve life

	What EOC needs	CARES	CERT	MRC
Notification		CARES Phone Tree	CERT Phone Tree	CERT Phone Tree (?)
What do you do first		<ul style="list-style-type: none"> • Take care of family at home 	<ul style="list-style-type: none"> • Take care of family at home 	<ul style="list-style-type: none"> • Take care of family at home
Activation / Mobilization	<ul style="list-style-type: none"> • Help with initial EOC staffing • Need volunteers for various assignments 	<ul style="list-style-type: none"> • Activate emergency net • Check into emergency net 	<ul style="list-style-type: none"> • Respond to local Ark 	<ul style="list-style-type: none"> • Respond to local Ark
Deployment (Help stabilize the situation)	<ul style="list-style-type: none"> • Neighborhood notification of hazards • Shelters opened 	<ul style="list-style-type: none"> • EOC Radio Room staffed • Assign Field Responders (Arks, Fire Stations, Shelters, DPW, FD Staging, etc) • Assign to Fire Watch Teams 	Ark Deployment <ul style="list-style-type: none"> • Activate Ark • Establish, staff ICS • Check in volunteers • Assemble, dispatch Information teams • Assign volunteers to Fire Watch teams • Assign volunteers to shelters 	<ul style="list-style-type: none"> • Establish First Aid Station at or near Shelter (?)

Wildland/Urban Fire Scenario (continued)

	What EOC needs	CARES	CERT	MRC
Recovery	<ul style="list-style-type: none"> Field Status Reports 	<ul style="list-style-type: none"> Operational period reports 	<ul style="list-style-type: none"> Operational period reports 	<ul style="list-style-type: none"> Operational period reports
Demobilization	<ul style="list-style-type: none"> List of supplies to be replenished 	<ul style="list-style-type: none"> Personal Equipment inventory CARES asset inventory 	<ul style="list-style-type: none"> Personal Equipment inventory Ark asset, supplies inventory 	<ul style="list-style-type: none"> Personal Equipment inventory Ark First Aid asset, supplies inventory

Bio Disaster Scenario

Objective: inoculate the population, treat the sick

	What EOC needs	CARES	CERT	MRC
Notification		CARES Phone Tree	CERT Phone Tree	CERT Phone Tree (?)
What do you do first		<ul style="list-style-type: none"> • Take care of family at home 	<ul style="list-style-type: none"> • Take care of family at home 	<ul style="list-style-type: none"> • Take care of family at home
Activation / Mobilization	<ul style="list-style-type: none"> • Help with initial EOC staffing • Need volunteers for various assignments 	<ul style="list-style-type: none"> • Activate emergency net • Check into emergency net 	<ul style="list-style-type: none"> • Respond to local Ark 	<ul style="list-style-type: none"> • Respond to local Ark
Deployment (Help stabilize the situation)	<ul style="list-style-type: none"> • Protect the staff • Neighborhood notification of hazards • Shelters opened 	<ul style="list-style-type: none"> • EOC Radio Room staffed • Assign Field Responders (Arks, shadows, Mass Prophylaxis teams) 	Ark Deployment <ul style="list-style-type: none"> • Activate Ark • Establish, staff ICS • Check in volunteers • Assign volunteers to Mass Prophylaxis Support teams 	<ul style="list-style-type: none"> • Assign volunteers to Mass Prophylaxis teams

Bio Disaster Scenario (continued)

	What EOC needs	CARES	CERT	MRC
Recovery	<ul style="list-style-type: none"> • Field Status Reports 	<ul style="list-style-type: none"> • Operational period reports 	<ul style="list-style-type: none"> • Operational period reports 	<ul style="list-style-type: none"> • Operational period reports
Demobilization	<ul style="list-style-type: none"> • List of supplies to be replenished 	<ul style="list-style-type: none"> • Personal Equipment inventory • CARES asset inventory 	<ul style="list-style-type: none"> • Personal Equipment inventory • Ark asset, supplies inventory 	<ul style="list-style-type: none"> • Personal Equipment inventory • Ark First Aid asset, supplies inventory

Next Steps

- Roll in this feedback into the scenarios
- Validate this is this extent of the scenarios that Cupertino may need to address
- Develop the balance of the scenario content
- Marsha to finalize, review with service providers, CCWG, OES Volunteers



Cupertino
ARES/RACES