#### **Cupertino Amateur Radio Emergency Service**

- Topic: Skyline Fire Functional Exercise
- Speaker: Jim Oberhofer KN6PE, EC Cupertino ARES
- Date: Thursday, 01-May-2008, 19:30
- Event: Cupertino ARES Meeting, Orientation Training

# **Skyline Fire Functional Exercise**



# **Skyline Fire Pre-Planning**

- 1. Skyline Fire Situation Update
- 2. Mapping Disasters to capabilities
- 3. Net Logistics Review
- 4. Message handling
- 5. Cross-band repeat
- 6. Final thoughts



# **Skyline Fire Event**

Situation Assessment - "drill traffic"

- The fire started just off of Skyline Blvd (Rt 35) by the Saratoga Gap Open Space Preserve and has been slowly advancing in a Northerly direction fanned by southerly winds at 10-25 mph.
- Several hundred acres of Mid-Peninsula Regional Open Space District land have already burned.
- As of tonight, the fire has jumped Skyline Blvd and continues to smolder. Winds have died down tonight but are expected to picked up again Friday morning.
- CalFire reports that the fire is only 20% contained.
- CalFire has over 300 fire fighters on scene; the State's Air Tankers plans fire retardant drops on the blaze all day Friday.

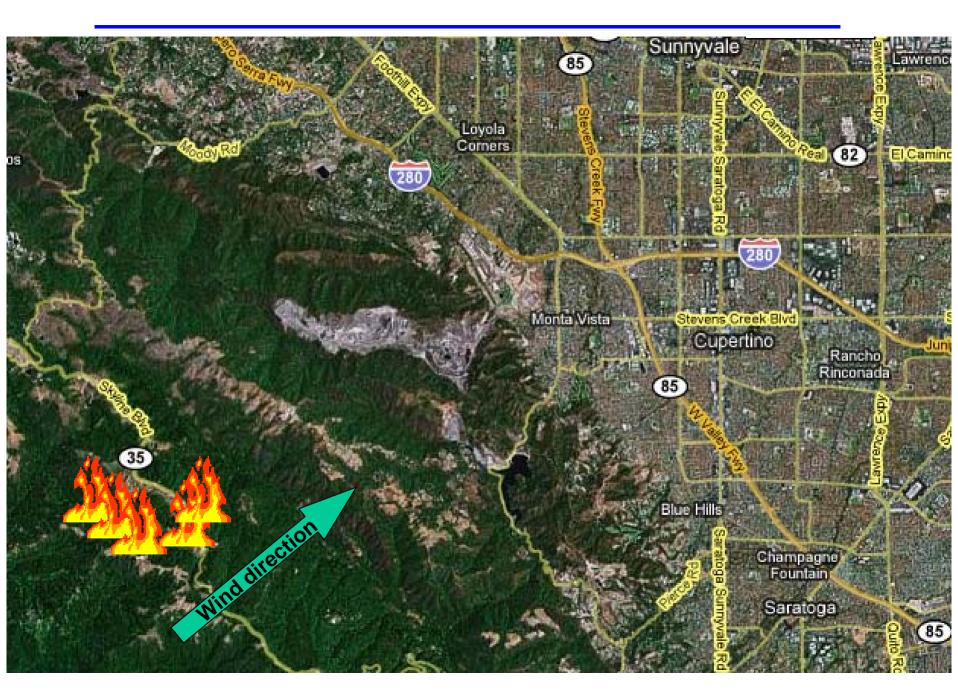


## **Skyline Fire Event**

Situation Assessment – "drill traffic"

- CalFire has established it's ICS on a ridge off of Montello overlooking the event.
- Equipment staging is located at Vasona Park.
- A forward Camp has been established at Stevens Creek Fire Station.
- A forward Staging area for AMR units has been established at San Antonio Park off of Cristo Rey.
- Marsha plans to activate Cupertino Citizen Corp Saturday Morning in case the City needs volunteer assistance from CARES, CERT, and MRC.





## **Skyline Fire Event**

What Marsha needs from CARES

OES Director has requested CARES to do 3 things:

- respond as "Agency Reps" for the City of Cupertino to the Stevens Creek Fire Station Mini-Camp, and AMR staging, and the ICP
- 2. perform Health & Welfare checks of senior residences because of smoke encroachment



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# **Mapping Disasters to Capabilities**

Mass care shelters

Mass care, feeding

• DC/Prelim Safety

• Mass Prophylaxis

Search and Rescue

Information Outreach

• DC/Fire Suppression

• Field First Aid stations

• Evacuations

#### Disasters

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

#### **Response Potential Problems Requirements**

- 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 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
- $\bullet \ Wildland \ fire$
- ${\boldsymbol{\cdot}}$  Large urban fire

Manmade disasters (BNICE)

#### **Response Potential Problems Requirem**

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#### Response Resp Requirements Capa

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

#### Response Capabilities

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



## Wildland/Urban Fire Scenario

Objective: mitigate damage to infrastructure and property, preserve life

	What EOC needs	CARES	CERT	MRC
Notification		3N Notification	3N Notification	3N Notification
What do you do first		<ul> <li>Take care of family at home</li> </ul>	<ul> <li>Take care of family at home</li> </ul>	Take care of family at home
Activation / Mobilization	<ul> <li>Help with initial EOC staffing</li> <li>Need volunteers for various assignments</li> </ul>	<ul> <li>Activate emergency net</li> <li>Check into emergency net</li> <li>Stand by</li> </ul>	<ul><li>Stand by</li><li>Respond to local Ark</li></ul>	<ul><li>Stand by</li><li>Respond to local Ark</li></ul>
Deployment (Help stabilize the situation)	<ul> <li>Neighborhood notification of hazards</li> <li>Shelters opened</li> <li>City official shadows</li> </ul>	<ul> <li>EOC Radio Room staffed</li> <li>Assign Field Responders (Shelters, DPW, FD Staging, Arks, Fire Stations, etc)</li> <li>Support Agency Reps</li> <li>Assign to Fire Watch Teams</li> </ul>	<ul> <li>Ark Deployment</li> <li>Activate Ark</li> <li>Establish, staff ICS</li> <li>Check in volunteers</li> <li>Assemble, dispatch Information teams</li> <li>Assign volunteers to Fire Watch teams</li> <li>Assign volunteers to shelters</li> <li>Assist with Logistics requests</li> </ul>	Establish First Aid Station at or near open Shelters



### Wildland/Urban Fire Scenario (continued)

	What EOC needs	CARES	CERT	MRC
Recovery	Field Status Reports	<ul> <li>Operational period reports</li> </ul>	<ul> <li>Operational period reports</li> </ul>	•Operational period reports
Demobilizatio n	<ul> <li>List of supplies to be replenished</li> </ul>	<ul> <li>Personal Equipment inventory</li> <li>CARES asset inventory</li> </ul>	<ul> <li>Personal Equipment inventory</li> <li>Ark asset, supplies inventory</li> </ul>	<ul> <li>Personal Equipment inventory</li> <li>Ark First Aid asset, supplies inventory</li> </ul>



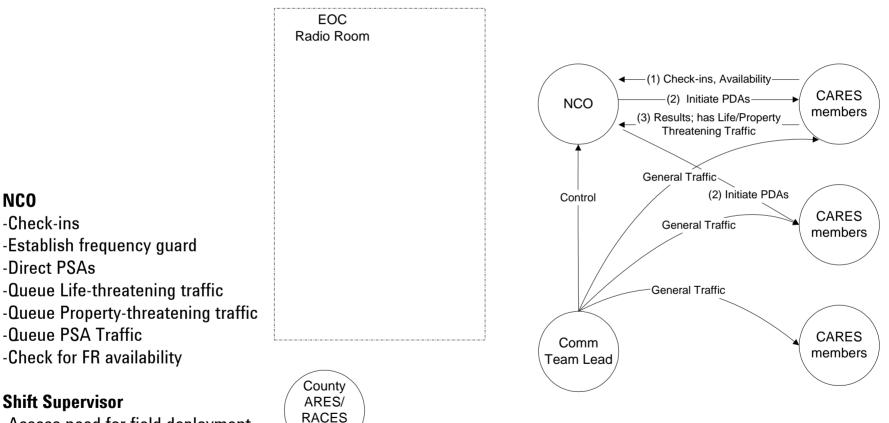
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Initial Response Operations... from where we stand

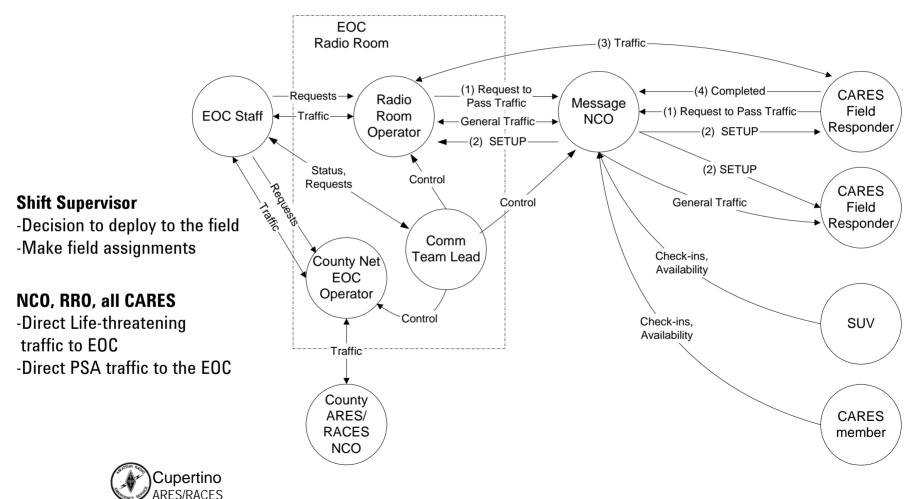
NCO



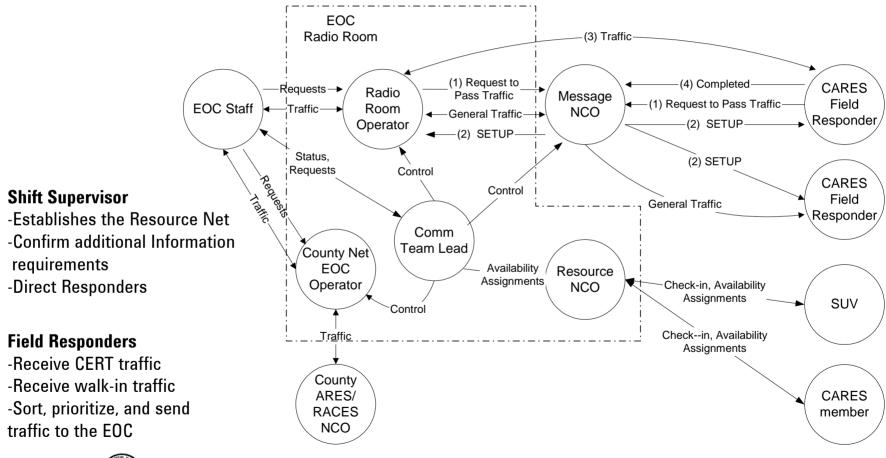
-Assess need for field deployment -Direct RRO to the EOC

**Initial Response Operations** 

- First EOC Responders, Initial Field Assignments

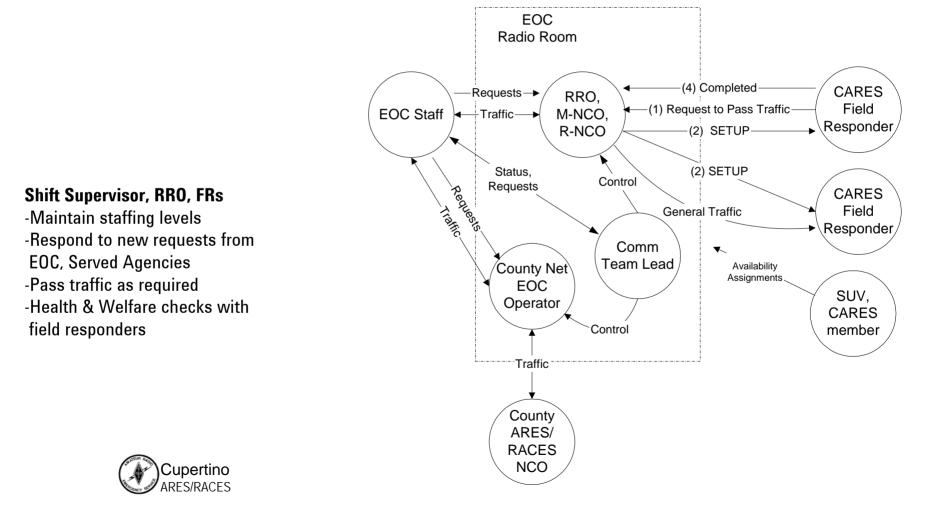


#### Initial Response Operations – High Traffic Volume





#### Extended Response Operations – Low Traffic Volume



## **Definition of a Net**

#### **Directed Net**

- 1. Established when the amount of stations on the frequency who wish to talk, or the amount of traffic to be handled, cannot be accomplished on a first come-first served basis.
- 2. NCS determines who will use the frequency at a given time.
- 3. NCS acknowledges those stations first that may have incident related traffic in priority order.
- 4. Conversations between stations are kept at a minimum.
- 5. Tactical call signs are assigned to support efficient traffic handling.
- 6. This net is considered formal in nature, and stations having non-incident related traffic may be asked to move to another frequency.



## **Definitions of a Net**

#### **Open Net**

- 1. A net may be declared OPEN if the incident has little incident related traffic, or if there is little need to direct individual stations with a Net Control Station.
- 2. An NCS may or may not be required.
- 3. Stations do not need to contact the NCS before making a directed call to another station.
- 4. Incident related traffic may be handled on a point to point basis.
- 5. Most any type of traffic and communications is permitted.
- 6. Conversations are permitted on the frequency, provided that they break every so often to allow incident related traffic to pass.



	Directed Net	Open Net
Net Control Operator	<ul> <li>Required Participant</li> <li>Controls channel access and flow</li> </ul>	<ul> <li>Optional Participant</li> <li>Monitors the channel</li> <li>Offers assistance as necessary</li> </ul>
EOC Radio Room Operator	Participant in the net	<ul><li> Optional</li><li> Participant in the net</li></ul>
Field Responders	Requests permission to pass traffic	Self-originates traffic
Traffic volume	High	Low
No. of Stations	High	Low
Non-Participating Stations	Asked to stand by	OK to use the frequency



## **Resource Net specifics**

- Check into the Resource net (Tac-1, 147.570)
- State your availability
- If scheduled for a later shift, check out and come back 30 minutes prior to your shift.
- When given an assignment, STAY on the RESOURCE Net until you arrive. Then
  - Check out of the Resource Net
  - Check into the Message Net
- When done with your assignment...
  - Check out of the Message Net
  - Check into the Resource Net
  - Stay on the Resource Net until you return home, then check out of the Resource Net



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# **Message Handling**

#### Two types of traffic

#### Passing traffic on behalf of a served agency

• Pass the traffic exactly as written. Your job is to get the message to the destination as quickly as possible, not to understand it.

#### Self-originated messages

• These messages are not written and a written response may not be required. In this case, you control what the text of the message will be. The phrasing is up to you.



### Message Handling Self-originated messages

 Informally originated -- These are messages based on your observations, information, or inquiries you receive that you believe should be passed on for action.

> Example: You report in after arriving at an assignment Resident inquiring into the status of a clinic A person reporting a gas leak A report of flooding Observe flames from a location Hear an explosion to the north

• **Situation Reports** -- These are more structured messages that report on the situation that exists where you are assigned. They are based on your observations or information you receive.

Example: Preliminary Damage Assessment Report Infrastructure Damage Assessment Report



## **Message Handling**

What do Situation Reports cover?

- Fire Hazards
- Utility Hazards
- Access Hazards
- Injuries
- Other observed conditions or information that you believe someone would be interested in receiving in light of the emergency.
- Also, its ok to pass "all clear," "no problems," etc., if that is the case.



# **Field Message Handling**

#### Field Message Forms

#### Note Pad Method

From	Date/Time
To	Pri or Msg #
~~	
Message:	
This is the n	nessage that needs
to be writte	n down. Watch the
details	
Danh	
<u>Reply</u>	
Write down	the reply below the
original mess	age. If it is going
0	riginator, deliver it
Dack to the of	nginalor, aeuver u
to him/her	
,	

#### **Index Card Method**

From To	Date/Time Pri or Msg #
<u>Message:</u> This is the mess to be written do details	age that needs own. Watch the

#### Reply

**Back Side** 

Write down the reply on the back of the card. If it is going back to the originator, deliver it to him/her

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### **Coverage in Cupertino Foothills**

Cross-Band Repeat; Saturday, January 11, 2003, 9:00am to 10:30am

Three cross-band repeat tests were performed:

- 2 meter to 440. We configured a radio to the frequency pair: 146.57 and 434.800. Cross-band repeat was enabled. Several members monitored either the 2 meter or 440 side while transmissions were made.
- 440 to 2 meter Repeater. Next, we configured a radio to the frequency pair 146.115+/PL=100 and 434.800. Cross-band repeat was enabled. Members could access the 2 meter repeater from the 440 side of the configuration.
- Two linked cross-band repeat configurations. Last test: we configured one cross-band radio to the frequency pair: 147.570 and 438.000. The second radio was configured to the frequency pair: 438.000 and 146.460. Cross-band repeat was enabled on both. Members confirmed that they could transmit on the CARES TAC-1 (147.570) and be heard on the CARES TAC-2 (146.460). Additionally, members could monitor and operate on the "link" frequency 438.000 as well.



### **Coverage in Cupertino Foothills**

Cross-Band Repeat; Saturday, May 3, 2008, 8:30am to 11:30am

Questions:

- 1. Are there radio coverage dead-spots in the hills that is covered by Cupertino?
- 2. Who has Cross-Band capabilities AND knows how to turn it on?



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## What you need

- GoKit
- Forms... ICS-214 (Log), Message Form
- Reasonable clothing
- FRS (optional)
- Food and water



## **Things to remember**

- Safety first
- Work with your buddy
- Ensure you are in contact with the Net
- •



## **CARES Functional Exercise**

- When: Saturday, 3-May, 8:30am to 12:00pm
- Where: Start from your home location
- Who: All CARES members
  - 1. Net is called at 8:30a, take check-ins
    - 2. State availability for a field assignment
    - 3. OK if you can only participate for a few hours,
    - 4. Deploy for Field Assignments
    - 5. Field message simulation at all sites
    - 6. If you have a Buddy, bring him/her!



How:



