



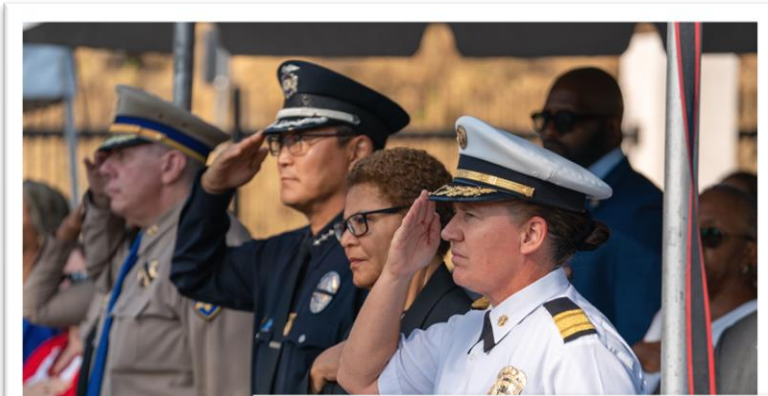
FIRESCOPE QUARTERLY BRIEF October 2024



PARK FIRE – BUTTE COUNTY – JULY 2024

Photo Credit: AP PHOTO/NOAH BERGER

9/11 Remembrance – Never Forget



San Diego Fire-Rescue Fire Chief and BoD member Robert Logan with the Mayor of San Diego Todd Gloria

Laguna Beach fire and police personnel stand in a moment of silence as they pay respects around the “Semper Memento” sculpture during the 23rd anniversary of 9/11 at Monument Point in Heisler Park on Wednesday.

(Don Leach / Staff Photographer)

LAFD Fire Chief Crowley and LAPD Interim Chief of Police Choi performing the 9/11 Ten Bell Ceremony in front of the largest section of the World Trade Center outside of New York.

DEPARTING ACCOLADES



Chief Jeanine Nicholson

San Francisco Fire Department

30 years of service

Member of FIRESCOPE Board of Directors



Jennifer Hinckley

Coordinator US Fish and Wildlife Pacific Southwest

25 years of service

Member of FIRESCOPE Board of Directors



Chief David Gerboth

San Diego Fire-Rescue Department

32 years of service

Member of FIRESCOPE Task Force and Operations

FIRESCOPE would like to thank Chief Nicholson, Coordinator Hinckley, and Chief Gerboth for their leadership, commitment, and contributions to the fire service in California! Their selfless dedication embodies the spirit and mission of FIRESCOPE.

OCTOBER 2024

Dallas Jones Award
Political Achievement



Fire Engineer
Dr. Derek Urwin
LA County Fire Department
FIRESCOPE Cancer Prevention
Subcommittee

Dr. Derek Urwin received the Dallas Jones Award for Political Achievement, for his research on cancer in the fire service, from CPF President Rice at the CPF 49th Biennial Convention

Board Members in Action



Chief Marrone (LAC), Chief Crowley (LFD), Chief Fennessy (ORC), and Chief Munsey (BDC) attended the 2024 Urban Fire Forum at NFPA Headquarters in Quincy, MA

Each September, the Urban Fire Forum meets, and fire chiefs from around the world endorse important documents for today's fire service.

Source: NFPA.org



FIRESCOPE BoD Members Chief Marrone and Chief Munsey, accompany CalFire BDU Chief Shane Littlefield, on a tour of the Bridge Fire, with US Fire Administrator Dr Lori Moore-Merrell. The Bridge Fire impacted both Los Angeles and San Bernardino Counties



Picture near Wrightwood, CA of the Bridge as it burned towards homes in San Bernardino County

FIRESCOPE Members in Action



MEGAFACTORY

FIRESCOPE Lithium-Ion Battery Ad-Hoc members (R to L): Captain Robert Dunivin (LFD), BC Rob Rezende (SND), BC Eric Roberts (LFD), Captain Marcus Dunlap (SLO) attending a tour at the TESLA MEGAFACTORY in Lathrop, CA



OCTOBER 2024

MUTUAL-AID IN ACTION

OES Preposition

Calendar Year 2024 (as of 9/25/24)

There have been 139 preposition events approved:

63 for critical fire weather, 75 for mud and debris flow, and 1 for civil unrest.

39 moderate, 78 severe, and 22 extreme.

The most requested preposition resource and most frequent user:

Region II has been approved for 39 prepositions.

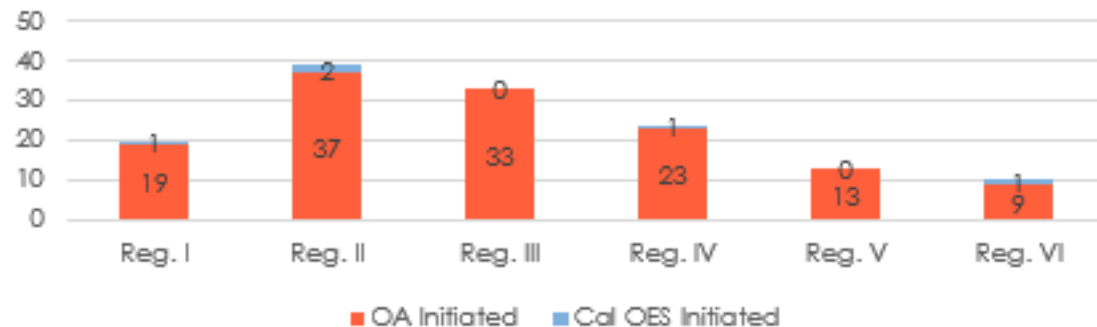
Glenn County and Sierra County have been approved for 9 prepositions.

LG Engines have been approved 478 times.

2024 OES Preposition Current Estimate

Mud & Debris OES Preposition	75	\$17,402,988.01
Wildland/Wind OES Preposition	63	\$13,306,158.63
Civil Unrest OES Preposition	1	\$163,991.91
Total 2022 OES Preposition	139	\$30,873,138.55

2024 OES Prepositions



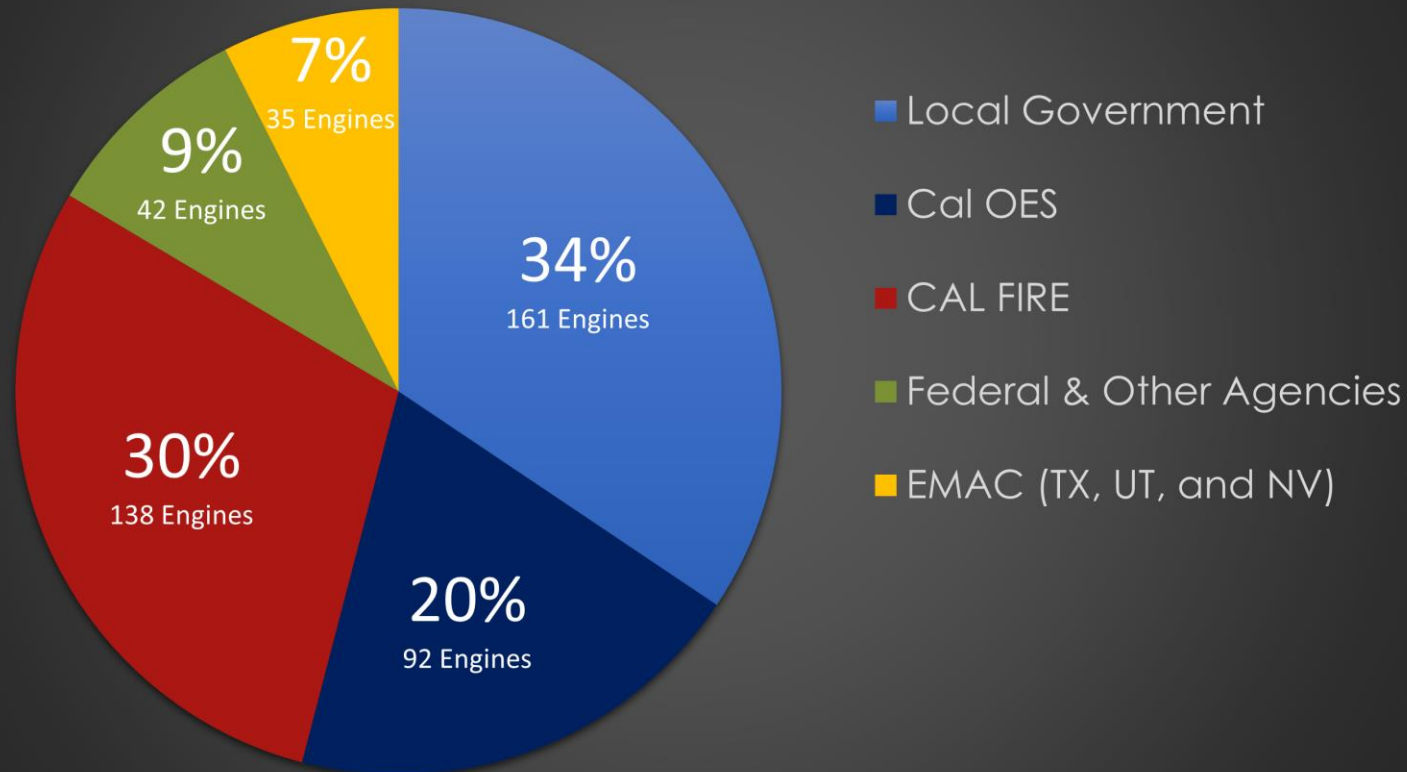
2024 OES Prepositions

Region	OA Initiated	Cal OES Initiated
Reg. I	19	1
Reg. II	37	2
Reg. III	33	0
Reg. IV	23	1
Reg. V	13	0
Reg. VI	9	1
Grand Total	134	5

MUTUAL-AID IN ACTION

FIRE SEASON 2024 – MUTUAL AID NUMBERS TO DATE

Fire Engines on the Park



Source: Interagency Resource Ordering Capability (IROC) 8/9/2024

AIRPORT FIRE
Trabuco Canyon, CA
FRA/SRA/DPA/LRA

23,519 acres
Unified Command:
OCFA, CAL FIRE, USFS

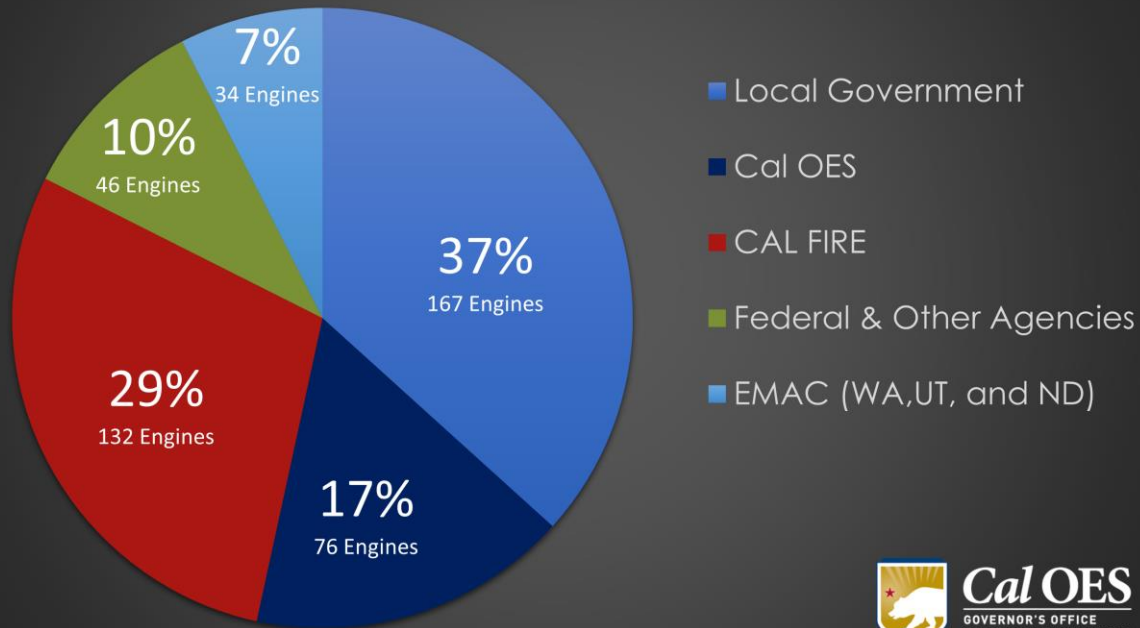
Photo: ICP during I.A. @ OCFA FS#18

Photo Credit: Anaheim Fire



MUTUAL-AID IN ACTION

Fire Engines on the Line

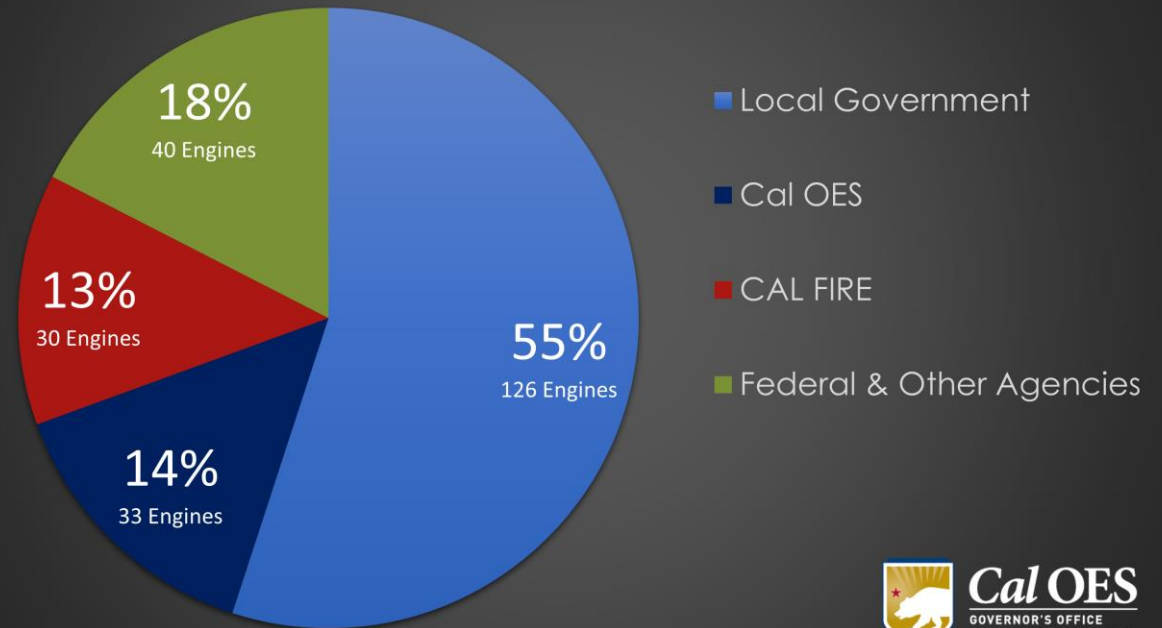


Source: Interagency Resource Ordering Capability (IROC) at 0700 on 9/14/2024



Line Fire CA BDF

Fire Engines on the Bridge



Source: Morning 209 9/14/2024



Bridge Fire CA ANF

I-15 INCIDENT (BESS) SAN BERNARDINO COUNTY OCTOBER 2024



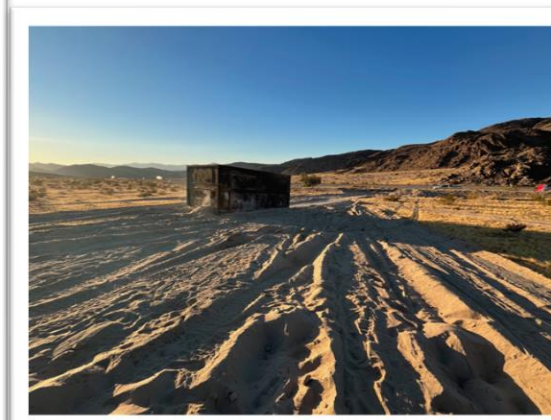
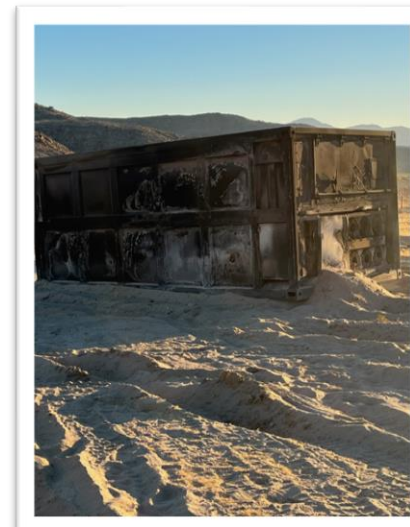
INCIDENT

- July 26, 2024 – San Bernardino County Fire Protection District / California Highway Patrol / Cal Trans.
- Location Northbound I-15 at Mile Marker 113 outside of Baker, California.
- While transporting a lithium-ion battery energy storage system (BESS), the tractor and trailer overturned in the number 2 lane, coming to rest on the Cal Trans emergency shoulder. Due to the sudden shift, the BESS caught on fire due to a thermal runaway event inside the container.
- CHP closed all lanes of the Northbound and Southbound I-15 from approximately 0830 hours on July 26 until approximately 0800 hours on July 28, 2024, due to fire and smoke coming from the BESS.
- The container was allowed to burn while suppression and hazardous materials staff monitored the BESS and surrounding environment.
- August 1, 2024, the transporter was required to establish a 24-hour Fire Watch to monitor the container for smoke, fire, and changes in BESS temperature.
- Manufacturer of the BESS declared the lithium-ion batteries were no longer energized on September 12, 2024.

- September 16, 2024, transporter's consultant submitted a proposal to remove and dispose of the BESS. Application was made to Cal Trans for a permit to transport the BESS to a facility in Nevada for final disposal. Application was approved on September 25, 2024. It's anticipated the BESS will be removed by October 1, 2024.

AGENCIES

- San Bernardino County Fire Protection District
- San Bernardino County Fire Protection District, Hazardous Materials Response Team
- California Highway Patrol
- Cal Trans



OCTOBER 2024



ENTERPRISE INCIDENT

Lithium-Ion Battery Energy Storage System (LiBESS)

ESCONDIDO, CA

SEPTEMBER 2024

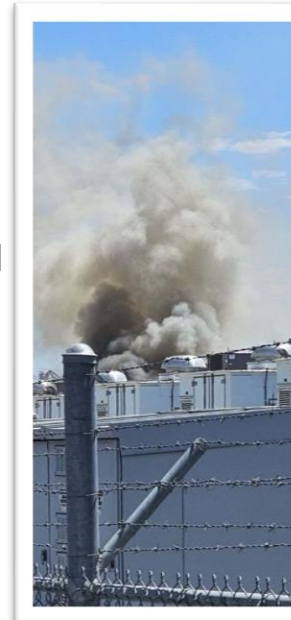
Photo Credit: Escondido Fire Department

INCIDENT

- While undergoing maintenance and repair a 56-foot LiBESS container underwent a thermal runaway.
- Crews arrived to find an active fire and container doors open.
- Fire was impinging on the neighboring container and an immediate exposure line was established to prevent propagation. Two (2) unstaffed ground monitors were established to maintain exposure protection on both sides of the container.
- A 300-foot isolation zone was established on all directions.
- Hazmat crews maintained constant atmospheric monitoring and were non-detect for any toxic atmospheres outside of 100 feet from container.
- Fire was observed for approximately 18 hours.

AGENCIES/RESOURCES

- Escondido Fire Department
- San Diego Hazardous Incident Response Team (HIRT) – San Diego Fire-Rescue + Department of Environmental Health and Quality
- San Diego Regional Alternative Energy Emergency Response (AEER) Coordinator
- Capstone Fire Brigade (PVT)
- SDG&E



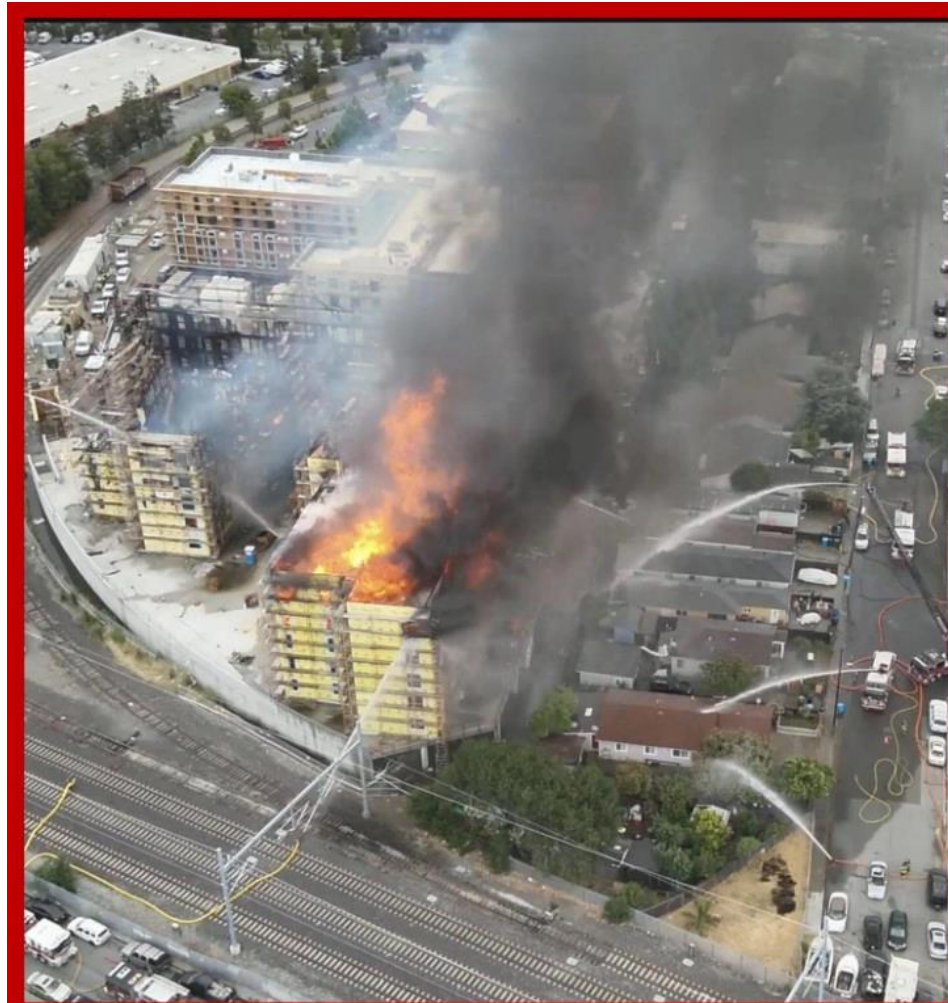
OCTOBER 2024

MIDDLEFIELD INCIDENT MENLO PARK FIRE PROTECTION DISTRICT

June 2024

The Middlefield Incident -
[After Action Review Video](#)

The Middlefield Incident After
Action Report - [2700
Middlefield AAR FINAL.pdf](#)



AFTER ACTION REVIEW
2700 MIDDLEFIELD RD. 8 ALARM FIRE
JUNE 3RD, 2024

PRESENTED BY: MENLO PARK FIRE PROTECTION DISTRICT

ASSEMBLY BILL (AB) 700

California Firefighter Cancer Prevention and Research Program

Members of FIRESCOPE have been selected as programmatic reviewers.

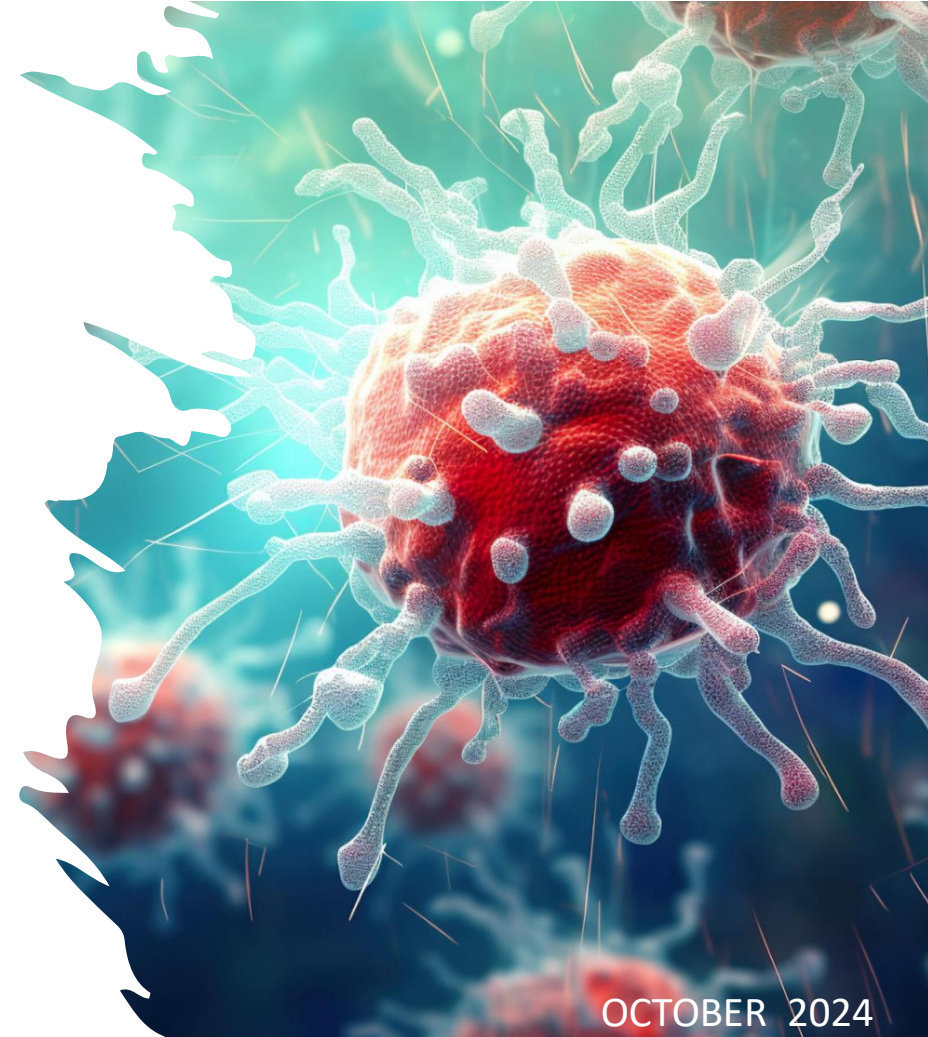
- Grant applications are currently being reviewed.
- Final grant funding decisions should be available early 2025.



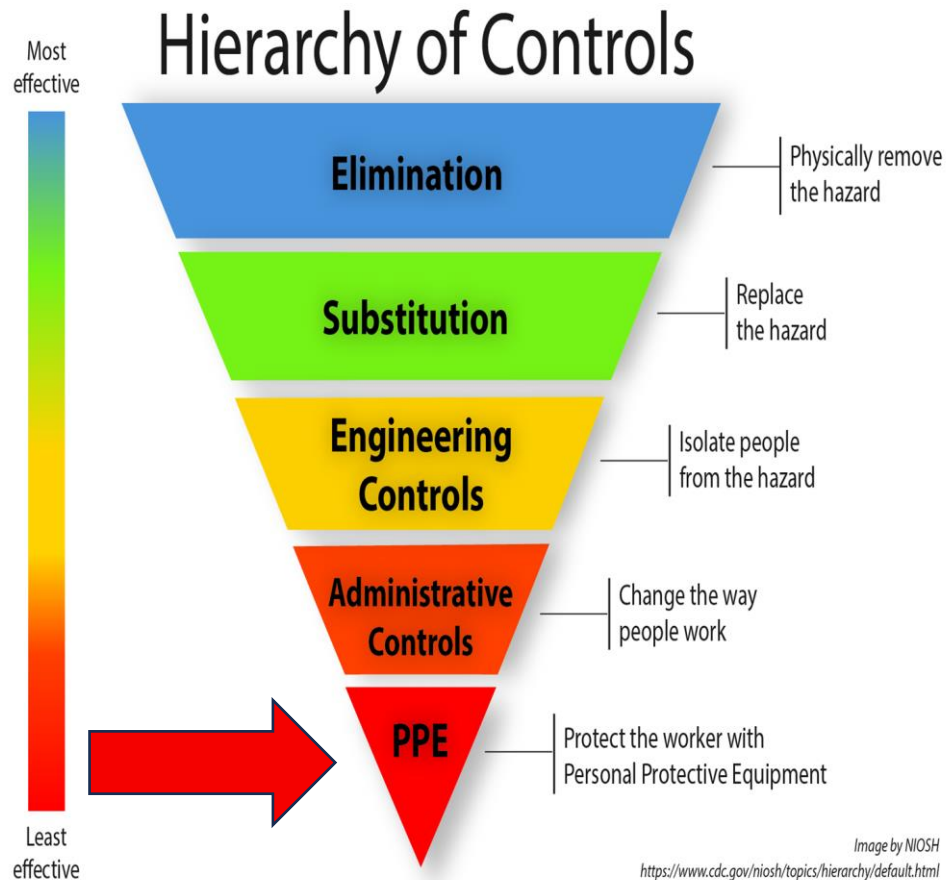
AB 700 Bill Language



UC Research Initiative Language

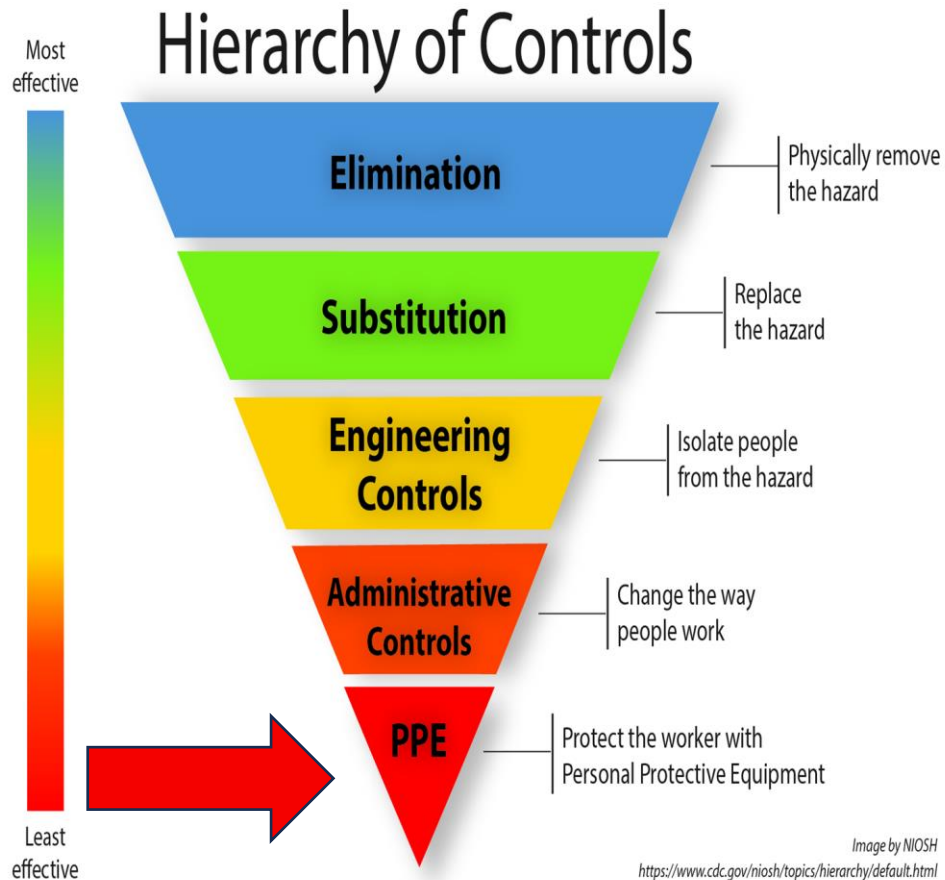


THE NIOSH HIERARCHY OF CONTROLS FOR EXPOSURE REDUCTION: PROTECT THE WORKER WITH PPE



Firefighters are exposed to many carcinogenic agents in the line of duty, and while eliminating sources of exposure is the most effective way to reduce cancer risk for firefighters, utilization of the correct PPE in conjunction with other measures in the Hierarchy of Controls is essential to reducing carcinogenic exposures for firefighters. While it may seem counterintuitive that PPE is listed as the least effective control measure in the Hierarchy of Controls, PPE is the last and best line of defense against exposures where other more effective control measures either cannot be implemented or fail to effectively protect firefighters. Remember that the Hierarchy of Controls is **not a checklist**, it is **an approach that can be applied** in a multitude of settings **by all members of the fire service** ranging from chief fire officers developing policies to individual firefighters making simple decisions each day (e.g. using SCBA throughout overhaul). Below is a brief set of illustrative examples, and we encourage all members of the fire service to have constructive discussions in this arena.

THE NIOSH HIERARCHY OF CONTROLS FOR EXPOSURE REDUCTION: ADMINISTRATIVE CONTROLS



- **SCBA During all Phases of Firefighting Including Overhaul:** Firefighters are exposed to multiple carcinogens on the fire ground that pose an inhalation hazard, including but not limited to: polycyclic aromatic hydrocarbons (PAHs), volatile organic compounds (VOCs), and particulate matter. Use of a self-contained breathing apparatus (SCBA) anytime there are products of combustion present is the most effective way to prevent these exposures. This includes all types of fires, ranging from outdoor dumpster fires to vehicle fires to large industrial fires. Note that research has shown that the use of respirators with filter cartridges during overhaul allows contaminants to breakthrough[1-5], and use of SCBA throughout overhaul remains the most effective approach to prevent exposures via inhalation.

[1] Burgess, Jeffrey L., et al. "Adverse respiratory effects following overhaul in firefighters." *Journal of occupational and environmental medicine* 43.5 (2001): 467-473.

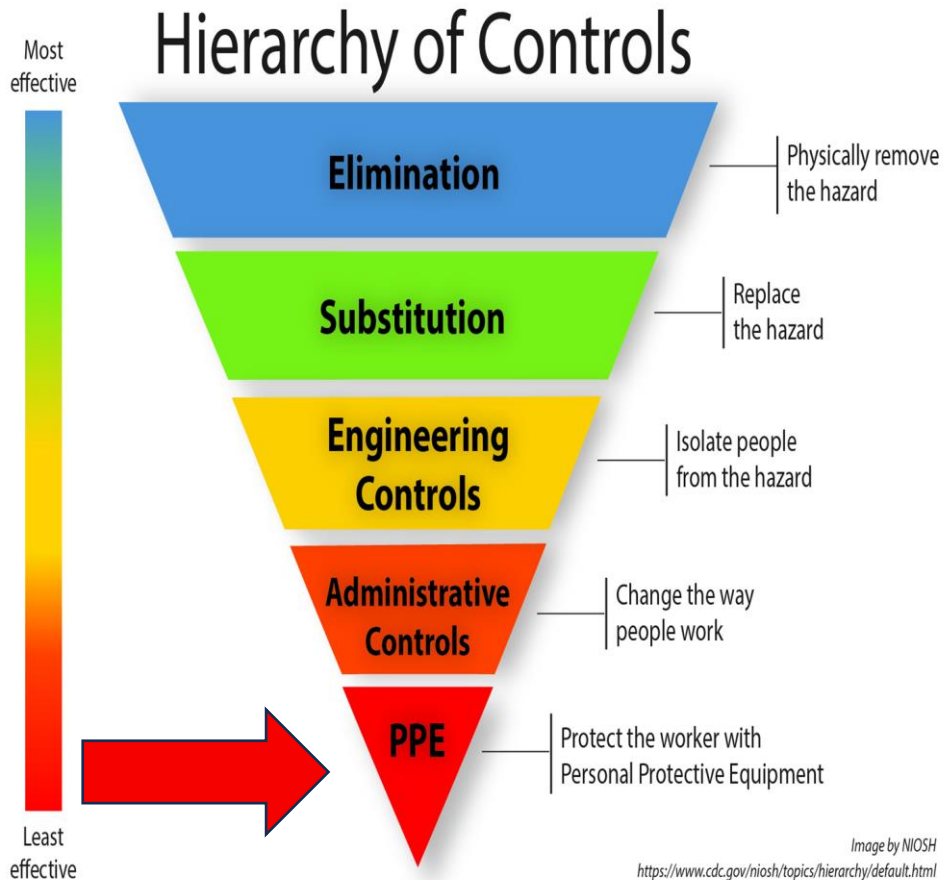
[2] Bolstad-Johnson, Dawn M., et al. "Characterization of firefighter exposures during fire overhaul." *AIHAJ-American Industrial Hygiene Association* 61.5 (2000): 636-641.

[3] Jones, Leaton, et al. "Respiratory protection for firefighters—evaluation of CBRN canisters for use during overhaul." *Journal of occupational and environmental hygiene* 12.5 (2015): 314-322.

[4] Jones, Leaton, et al. "Respiratory protection for firefighters—evaluation of CBRN canisters for use during overhaul II: in mask analyte sampling with integrated dynamic breathing machine." *Journal of occupational and environmental hygiene* 13.3 (2016): 177-184.

[5] Staack, Shawn D., et al. "Evaluation of CBRN respirator protection in simulated fire overhaul settings." *Annals of Work Exposures and Health* 65.7 (2021): 843-853.

THE NIOSH HIERARCHY OF CONTROLS FOR EXPOSURE REDUCTION: ADMINISTRATIVE CONTROLS



- **Structural Firefighting PPE:** Firefighters are also exposed to multiple carcinogens on the fire ground that pose a transdermal absorption hazard. All components of a structural firefighting ensemble, including helmet, hood, jacket, gloves, pants, and boots must be worn correctly in conjunction with SCBA to reduce the quantity of carcinogens deposited on the skin during firefighting operations. ***Structural firefighting garments are not impermeable to carcinogens***, and showering as soon as possible after a fire incident remains essential.
- **Impermeable Gloves, Respiratory, and Eye Protection During Contamination Reduction:** PPE and other equipment contaminated with products of combustion poses an exposure hazard to firefighters who handle the equipment. Firefighters handling such equipment should utilize impermeable gloves, respiratory, and eye protection to minimize exposure from contaminated equipment

NEWLY APPROVED DOCUMENTS AND UPDATES



[ICS 500](#)
[STRUCTURE FIRE OPERATIONS](#)



[ICS 162-4](#)
[REMS OSD](#)



[LITHIUM-ION](#)
[TRAINING & TOOLS](#)
[WHITEPAPER](#)



[MACS 410-4](#)
[REVISION](#)



[MACS 410-8](#)
[REVISION](#)



[MACS 410-9](#)
[REVISION](#)

FIELD OPERATIONS GUIDE (FOG) – ICS 420-1 APPLICATION

Providing crucial information to first responders since 1983, FIRESCOPE is proud to present the interactive Field Operations Guide ICS 420-1. Easily access valuable information such as Wildland Fire Management Guiding Principles, Tactical Engagement, Levels of Engagement, Powerline Safety, and a Structure Assessment Checklist.

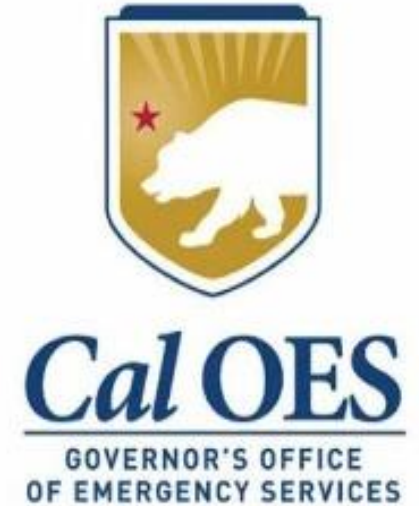
Download the Free App

The 2022 FOG is available as a free download on the [Apple App Store](#) and [Google Play App Store](#). View the [2022 FOG App privacy policy here](#).

Android



Apple iOS



Fire Asset Status Tracker (FAST)



FAST was developed and will be implemented as a modern, mobile application to optimize the California Fire Service and Rescue Emergency Mutual Aid System resource order filling and mobilization processes. The application will allow local fire agencies to provide real-time resource status updates while streamlining communication, improving coordination, and easing decision-making across the fire service to expedite all-hazard resources assignments and minimize losses to life and property.

FAST proactive Impacts to the California Fire Service:

Provide a primarily mobile application

- Simplify the user experience
- Allow real-time status updates

Track statewide all-hazard fire resources

- Cal OES Fire & Rescue Assignments
- Local Government Apparatus and Overhead
- Track Resource Statuses

Rapidly onboard agencies via Mutual Aid Reimbursement (MARS)

- Primary and Secondary User Access

Provide intel with robust data collection

- Inventory Tracker survey
- Fleet Management & Out of Service process
- Real-time dashboards and MACS 405 reports

Enable integration capabilities

- Slack
- Esri / ArcGIS

FAST Project Status and Rollout:

- Completed Final UAT feedback with Program Team on February 1, 2024.
- Finished development and deployed to production on February 5, 2024.
- Presented Production Release Overview and Demo on February 15, 2024.
- Present to Cal OES Fire and Rescue Chiefs on February 28, 2024.
- Enable production environment access to Cal OES in March 2024
- Rollout to the California Fire Service through an enhanced training plan.



[FAST Link](#)

OCTOBER 2024

MARS

Mutual Aid Reimbursement System



Cal OES
GOVERNOR'S OFFICE
OF EMERGENCY SERVICES



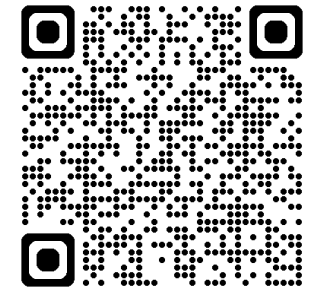
- Managed by Cal OES and utilized by all fire agencies that respond under the California Fire and Rescue Mutual Aid System.
- This system is to reimburse local government ordered and requested through the California Fire Assistance Agreement (CFAA).

To date, Cal OES has utilized the MARS application, and the system has:

- **10,466** approved users from **659** different local government fire agencies
- **14,641** F-42s that have been entered into the system for reimbursement processing
- **5,161** invoices generated totaling approximately **\$280.6 million**



[Sign up Help Guide](#)

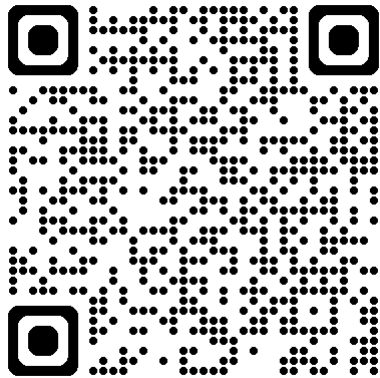


[Frequently Asked Questions](#)

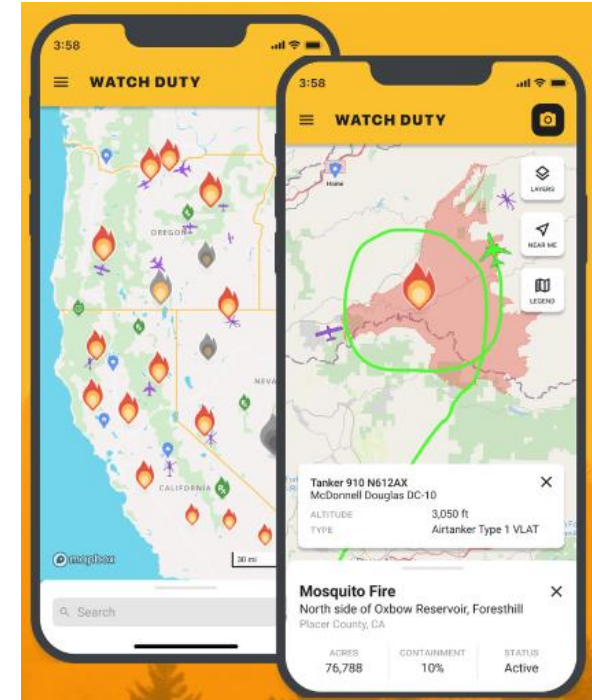
Watch Duty

“Stay Safe From Wildfires When Seconds Count”

- Watch Duty is a service, not an app, powered by over 100 volunteers – firefighters, dispatchers, and first responders – who diligently monitor radio scanners and other official sources 24 hours a day to send you the most up-to-date information.
- As a 501(c)(3) nonprofit, Watch Duty has become a powerful tool to help first responders and the public stay informed.

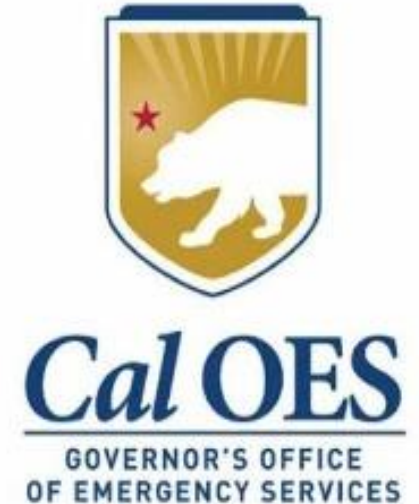


[Learn More](#)



Sherwood Forestry Service, Inc
422 Larkfield Center #423
Santa Rosa, CA 95403

FIRE INTEGRATED REAL-TIME INTELLIGENCE SYSTEM PROGRAM (FIRIS) & SLACK



CALFIRE and CalOES have enabled SLACK to empower clear communication channels that will provide real-time Intelligence to, All hazard First Responders, and Others. With this implementation, we will increase the efficiency of first responders and decision-makers to save lives, property, and the environment while rapidly responding to California's 38 million residents who need us most.

Background:

The WhatsApp application served as the official application since 2019 that provided the California First Responder community and supporting agencies a means to receive Fire Integrated Real-Time Intelligence and Information from 2 state of the art aircraft strategically positioned in Southern and Northern California.

As the Fire Integrated Real-Time Intelligence System (FIRIS) Program transitions from the Orange County Fire Authority to the State of California, Cal OES elected to migrate from WhatsApp to a more robust, secure application known as Slack.

The FIRIS Slack Application rolled out in full production to the California Fire Service on June 15, 2023.

FIRE INTEGRATED REAL-TIME INTELLIGENCE SYSTEM PROGRAM (FIRIS) & SLACK



The FIRIS Slack Application will provide the following:

Incident alerts of emergent incidents (Fire Rescue Mutual Region Specific and statewide channel)

Wildland Fire Modeling with 3-hour spread projections without fire suppression.

FIRIS aircraft intel that includes perimeters, videos, and snapshots.

All hazard Intelligence and Information (earthquake, Tsunami, flood, mud, and debris)

To register see the FIRIS Slack Application QR Code.

Due to licensing, access is limited to your assigned Fire and Rescue Mutual Aid Regional channel. If you require additional access to the other Fire and Rescue Mutual Aid Regions, you will have the option to receive FIRIS intelligence and Information in a Statewide channel.



FIRIS SLACK
APPLICATION



SLACK TRAINING
VIDEO

INTTERRA NEXT GEN SCOUT



The California Governor's Office of Emergency Services (Cal OES)—in collaboration with CAL FIRE has implemented Next Generation (NG or Nex-Gen) SCOUT (Situation Awareness and Collaboration Tool) powered by Intterra. Next-Gen SCOUT application integrates statewide data events including incidents, location (geospatial), resources, assets, and infrastructure. It provides near real-time data from the field including road closures, resource location, and video feeds. Next-Gen SCOUT will also be used for predictive fire and other hazards analytics and integrates information layers into the single.

This tool provides the California first responder community, emergency response coordinators, and other supporting agencies with a web-based tactical and operational response platform to assist in communication, coordination, and collaboration. The Next-Gen Scout tool went into live production to the California Fire Service on May 31, 2023.

The Next-Gen SCOUT web application provides the following features:

- 1. Successfully operate an all-hazard incident within your agency/jurisdiction***
- 2. Common Operating Picture for your agency and other agencies of the California Fire Service Community***
- 3. Track multiple concurrent incidents within the State of California***
- 4. Predictive analytics for fire and other hazards***
- 5. Provide field workers with spotty/or no internet coverage access to use the application and have a synchronizing capability with no data loss***
- 6. Provide Fire Integrated Real Time Intelligence from 2 State of the art aircraft.***



Training and Next Gen Scout
Information

Additional workspaces in the Next Generation SCOUT allows the end user to create an incident, gather intelligence, or pull Fire Management Assistance Grant (FMAG) Data for the Cal OES Fire Rescue Initial Request Form (ABC form). See next page for 2024 FMAG thresholds.

INTTERRA NEXT GEN SCOUT INTTERRA

Wildland Pre-Plans:

In collaboration with FIRESCOPE GIS Subcommittee has a standard WPP schema into NG SCOUT. Creating your agencies wildland pre-plans does not require you to have a GIS degree. You should be able to jump in, create, and edit in your respective areas and as you do, this will be available to NG SCOUT users including current California Intterra Customers.

Cal OES has geared up to provide training on developing wildland pre-plans on the NG SCOUT platform. NG SCOUT provides the ability to create map-based plans for any area of your wildland or metro jurisdiction, then capture, record, and electronically share those plans with all users of NG SCOUT and current California Intterra Customers. The primary value is to have a preplanned response plan that can be used for response operations, community education, and mitigation actions. Depending on the department the level of effort that's put into the information gathering process of preplans ranges from simple preplans which takes a little time to gather information to complex preplans that may be created through tools in ESRI and then ingested into NG SCOUT.

Fire Management Assistance Grant (FMAG):

The FMAG is available to States, local and tribal governments, for the mitigation, management, and control of fires on publicly or privately owned forests or grasslands, which threaten such destruction as would constitute a major disaster. The FMAG declaration process is initiated when a State submits a request for assistance to the Federal Emergency Management Agency (FEMA) Regional Director at the time a "threat of major disaster" exists. The entire process is accomplished on an expedited basis and a FEMA decision is rendered in a matter of hours.

The Fire Management Assistance Grant Program (FMAGP) provides a 75% Federal cost share, and the State pays the remaining 25% for actual costs. Before a grant can be awarded, a State must demonstrate that total eligible costs for the declared fire meet or exceed either the individual fire cost threshold – which is applies to single fires, or the cumulative fire cost threshold, which recognizes numerous smaller fires burning throughout a State.

Eligible firefighting costs may include expenses for field camps; equipment use, repair and replacement; tools, materials, and supplies; and mobilization and demobilization activities. For additional FMAG information use the QR Code:





MISSION STATEMENT

The mission of FIRESCOPE is to provide recommendations and technical guidance to the California Governor's Office of Emergency Services (Cal OES) on matters involving mutual aid; to maintain the FIRESCOPE decision process; and to continue the operation, development, and maintenance of the FIRESCOPE Incident Command System (ICS) and the Multi-Agency Coordination System (MACS)

FIRESCOPE VISION STATEMENT

The FIRESCOPE vision is to continue national leadership in the development of all-hazard incident and multi-agency coordination systems, to enhance and encourage full participation by the California fire service in the statewide Fire and Rescue Mutual Aid System, and to provide a common voice for the California fire service relating to these issues.

FIRESCOPE ADVISORY MESSAGE



Deputy Chief Jim Johnstone
James.johnstone@caloes.ca.gov
951.312.8966



The Quarterly Brief is intended to be widely shared among the California fire service, its federal partners, and affected stakeholders.

Agency Administrators, or responsible representatives, should ensure that this material is thoroughly reviewed and communicated within their respective organizations.

VISIT THE FIRESCOPE WEBSITE:
<https://firescope.caloes.ca.gov>

