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Title: Emergency Management Program Overview

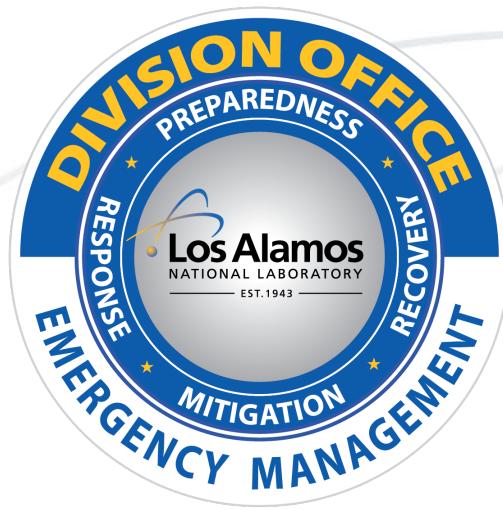
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Emergency Management Program Overview

David Stuhan, CEM

Division Leader, Emergency Management Division

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Administrative

■ Emergency Actions (*You are in TA-69, Building 0033*)

Four Protective Actions



Evacuate



Shelter in Place



Remain Indoors

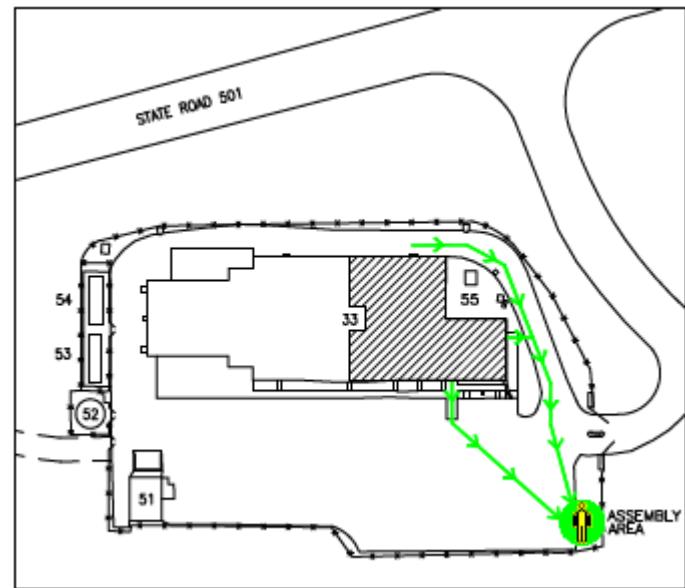


Lockdown

Dial 9-1-1 direct from most phones



Evacuation Assembly Area



- Bathrooms
- Refreshments (water, coffee)
- If you need anything, please let us know!

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Emergency Management Division (EMD)

Vision: The vision is to establish and sustain “world-class” emergency management and continuity programs by applying science and technology to meet the needs of our diverse group of customers in support of the vital national security mission.

Mission: Our primary mission is to protect the workforce, public, property and critical infrastructure, and environment through integration of preparedness, response, recovery, mitigation, and readiness assurance.



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EMD Leadership Team

Emergency Management
Division Leader
David Stuhan



EMD-ER Group Leader
Jeff Dare



EMD-EO Group Leader
Marla Brooks



EMD-EP Group Leader
Jesse Sievers



EMD-ER Team Leader
Matt Ahlquist



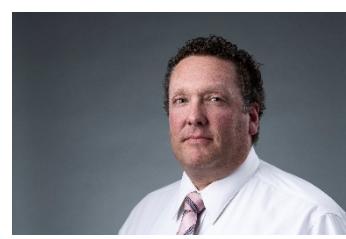
EOSC Team Leader
Darren Schnedler



IRC Team Leader
Jeremy Grondin



Site Preparedness
Program Team Leader
Jillian Konst



Facility Preparedness
Program Team Leader
Josh Miller

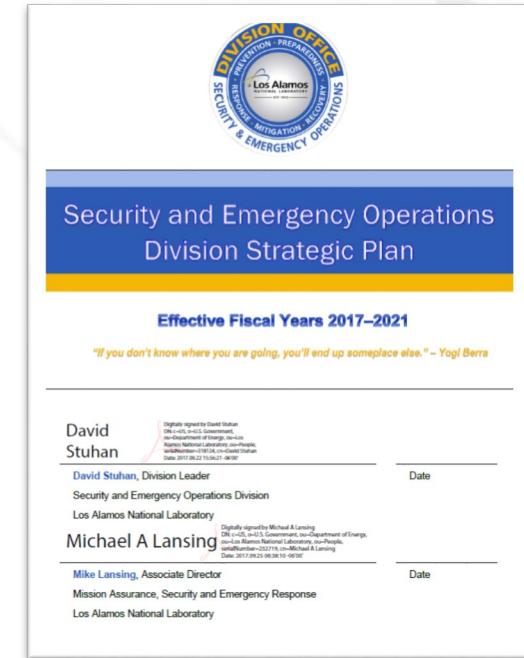
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Strategic Planning (5-Year Plan)

"If you don't know where you are going, you'll end up someplace else." – Yogi Berra

- Mission and Vision
- Guiding Principles
- Strengths and Liabilities/Improvement
- Objectives and Goals (1-5 Years)
- Staffing and Resource Needs
- Life-Cycle Management and Planning
 - Emergency Facilities and Equipment/System

FY20-FY25: EMD has started to update the original EMD Strategic Plan (FY17-FY21) with the goal of an approved plan no later than September 30, 2019.



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Emergency Planning and Hazards

- 43 square miles of DOE/NNSA property, surrounded by Los Alamos County, U.S. Park Service, U.S. Forest Service, and Pueblos.
- 22 Emergency Planning Hazards Assessments (EPHAs). These facilities exceed pre-determined DOE thresholds and require a quantitative analysis to support development of Emergency Action Levels (protective actions).
- Hazards/Threats:
 - Nuclear/Radiological/Tritium
 - Chemical
 - Biological
 - Wildland Fires (*high probability/high consequence*)
 - Active Threat/Active Shooter (*open campus*)
 - Natural Phenomenon (*earthquake, flooding, severe weather*)
 - Cyber-Security (*increasing threat*)



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Capabilities

Emergency Preparedness Elements

- Emergency Planning (plans, procedures, etc.)
- Emergency Response Organization Training
- Drills and Exercises
- Readiness Assurance (self-assessments and issues management)
- Wildland Fire Readiness and Mitigation
- TA-49, Multi-Purpose Emergency Response Training Center
- Emergency Facilities and Equipment/Systems
- Offsite Interface Program (LEPC, Public Safety Association, etc.)



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Capabilities (cont.)

Emergency Operations and Response Elements

- Incident Management and Coordination for All Hazards
 - Incident Response Commanders (24x7 Operations)
 - Emergency Operations Support Center (24x7 Operations)
 - Emergency Operations Center (EOC)
 - Emergency Technical Support Center (Consequence Assessment)
- Hazardous Material Response and Explosive Ordnance Device Response
- Active Threat Response and Coordination (Protective Force and Law Enforcement)
- Unmanned Aircraft System (UAS) Operations/Counter-UAS Response Support
- DOE/NNSA National Response Programs (e.g. RAP, ARG, CM, JTOT)



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Emergency Management Documents



Key Program Initiatives/Achievements

- New Emergency Management Plan (All-Hazards Plan)
- Facility Preparedness Program Enhancements (Nuclear/Non-Nuclear)
- Protective Action Improvements
- Implementation of DOE Order 151.1D, *Comprehensive Emergency Management System*
- Training and Qualifications and EOC Enhancements
- Drill, Exercise, and Readiness Assurance Program Enhancements
- New EOSC Program Plan
- International Travel Monitoring and Incident Coordination Program
- EOSC All-Hazards Incident Response Checklist
- Incident Notification and Reporting Program Enhancements
- 24/7 EOSC Watch Office / 24/7 Incident Response Commander
- EOSC Proficiency Demonstration Program
- EOSC Technology Enhancements



Emergency Management Division Administrative Emergency Drill Form	
This form is used to document administrative emergency drills, including drill planning, conduct, and results, including EOSC proficiency demonstrations.	
DRILL PLANNING INFORMATION	
Drill Number:	0007
Drill Planner Name:	Daren Johnson
Drill Location:	EOSC
Position:	EOSC Team Leader
Functional Area:	Detection of an unauthorized USA on LANL Property and performance of incident notification and reporting.
Objectives:	Testing the actions of the EOSC in response to an unauthorized USA on LANL property. Practice using and discussing the actions taken when fitting out the EOSC Unauthorized USA and CUAS Reporting and Notification Checklist, EOSC-CHLT-002.
Planned Drill Completion:	<input type="checkbox"/> Immediate <input checked="" type="checkbox"/> During shift <input type="checkbox"/> Other
Scenario and Conditions:	The Central Alarm Station (CAS) notifies the EOSC that a potential USA has been detected and that they (Proactive Force) have activated the Counter USA system. The notification from CAS is the real date and time when drill is performed.
DRILL PERFORMANCE DOCUMENTATION	
Drill Performed By:	Name: Position: EOSC Operator
Drill Date:	Start Time: End Time:
Equipment System Used:	• Eventbridge Mass Notification System • VOIP Phone
Documents Used:	• EOSC Line of Inquiry Form • EOSC Unauthorized USA and CUAS Reporting and Notification Checklist, EOSC-CHLT-002
Procedure, Process, Formulas:	1. Receive call from CAS 2. Fill out Line of Inquiry Form 3. Fill out Unauthorized USA and CUAS Reporting and Notification Checklist, EOSC-CHLT-002 4. The USA will not be discussed, but calls will be monitored. The EOSC Operator must verbally communicate the specific Counter USA/EP details to the evaluator. 5. Line of Inquiry Form must be completed and filled out in the Eventbridge Training site. (DO NOT SEND THE EVENTBRIDGE MESSAGE) 6. When the USA is detected, the EOSC Operator will need to log in to EOSC. (Make sure to insert "This is a Drill" at the top of the email) 7. Record the outcome in the EOSC Log and make sure it is identified as a Drill.

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Key Program Initiatives/Achievements (cont.)

EOSC Initiatives

Incident Notification and Reporting Enhancements

- Established an Incident Notification and Reporting Working Group to strengthen incident reporting across the laboratory. Working on concept of operations for one-stop shop for all reporting.
- Installed a new phone number 7-2400 for the 24/7 EOSC. A number that all workers will remember!
- New emergency/incident reporting webpage linked from LANL Homepage.
- Developed an I-Phone App to assist workers with incident reporting and what actions to take during an emergency, with a focus on the four protective actions.



Report Emergency and Non-Emergency Incidents

Immediately report any emergency or non-emergency incidents.

Step 1: Call 9-1-1 for emergencies requiring police, fire, or emergency medical support.

Provide location (TA, building and room number), injuries, explanation of alarms, what protective actions have been taken, and your name and callback number. Limit use of acronyms.

Step 2: Call (505) 667-2400, the 24/7 Emergency Operations Support Center (EOSC). If your facility has an operations center, call it after calling 9-1-1, and the operations center will call the EOSC.

If you are at an off-site location, reporting emergency or non-emergency incidents to the EOSC is still required for notification purposes.



Download the App!

LANL has an iPhone app to assist you when you're away from your desk. Click the 7-2400 icon on your phone, and it will show you whom to call and when.

It also gives tips on what to do when you're asked to implement one of the Lab's four protective actions: Evacuate, Shelter in Place, Remain Indoors, and Lockdown.



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Key Program Initiatives/Achievements (cont.)

■ Wildland Fire Mitigation, Preparedness, and Response

- The LANL Wildland Fire Program has significantly enhanced wildland fire mitigation, preparedness, and response through fuels mitigation, collaborative planning, new response checklists, interagency training, integration of wildland fire technology, increased staffing, and stakeholder networking.
- LANL is integrated into the TA-49 Interagency Fire Center (LANL, U.S. Park Services, and U.S. Forrest Service) to enhance mitigation, preparedness, and response.
- Mitigation
 - LANL Wildland Fire Program has combined the Forest Health Plan with the Five-Year Wildland Fire Management Plan (**EMD-PLAN-200, Wildland Fire Mitigation and Forrest Health Plan**) to promote a consistent and viable approach to fuel mitigation and forest health and sustainability
 - Executed significant wildland fire mitigation projects in FY2018 to include re-establishing fire breaks, fire roads, and escape routes, etc.
 - Hiring a Fire Management Officer (FMO) position in FY19.



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Key Program Initiatives/Achievements (cont.)

■ Wildland Fire Mitigation, Preparedness, and Response

- Preparedness

- Integrated the Wildland Fire Program into key program plans to ensure the hazard is assessed by a drill, exercise, or program assessment on a regular basis.
- Trained all LANL wildland fire responders to National Wildland Fire Coordination Group (NWCG) Standards for their respective positions within the Incident Command System (ICS). Obtained Red Card qualifications within the Incident Qualification Certification System (IQCS) for respective positions
- Tabletop drills on wildland fire response and coordination have been conducted in collaboration with LAFD and LANL Emergency Management.
- LANL Wildland Fire Scientists (EES-16) have developed two new modeling applications:
 - ✓ Fire Tech, which is a next generation modeling capability that enhances the precision of key variables in wildland fire behavior modeling such as localized wind and topography
 - ✓ Quick Fire, which is a compressed version of Fire Tech intended for wildland fire response. Integrating new wildland fire modeling capability within the EOC.

- Response

- LAFD is responsible for the initial attack for wildland fires on LANL property.
- Strengthened wildland fire response capabilities with the implementation of new wildland fire response checklists for LANL Agency Representatives, Wildland Fire Technical Specialists, and LANL Resource Advisors.

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Crews respond to fire in Los Alamos Canyon

By The Star
Published March 29, 2019 at 3:34 pm (Updated: March 29, 2019 7:07 pm)
Los Alamos Fire Department crews contained the 4-acre Omega Fire by 6:30 p.m. Friday in Los Alamos, near the Canyon Rim Trailhead, according to a county spokeswoman.



The Omega Fire, the Los Alamos National Laboratory training officer on the scene said the fire might have been caused by a downed power line but officials continued to investigate the cause Friday.

The fire was first reported about 3:30 p.m. Smoke was visible from the Main Hill Road/State Road 502 area, across from the Los Alamos City and the Holiday Inn Express.

Los Alamos Fire Department had 25 firefighters responding to the scene, the county reported. Crews reported there was no crowning at 5 p.m. As of 6 p.m., the number of firefighters fighting the fire was 18.

According to Los Alamos National Laboratory Training Chief Todd Forsythe, crews were expected to monitor the area of the fire overnight, watching for flare-ups.

"They have a line around it, and right now they are mopping it," Forsythe said.

LAFD was investigating the cause of the fire.

Officials were asking the public to avoid the area Friday. A patrol officer was assigned to the area near the Los Alamos Airport for security purposes. N.M. 502 was not closed but it was an active fire-fighting scene, according to a county spokeswoman.

The Los Alamos National Laboratory, located at 1600 Main Hill Road, houses one of the world's largest accelerators. The fire was located on Department of Energy property and behind a barbed-wire fence, which is off-limits to the public.

The winds were blowing into the area from the west at about 23 miles an hour, according to the National Weather Service.

Fire In Los Alamos Canyon Consumes About 3 Acres

Submitted by Carol A. Clark on April 10, 2019 - 8:15pm



Los Alamos Firefighters are on the scene of a fire burning this afternoon in Los Alamos Canyon, which as of 5:20 p.m. today has consumed about 3 acres. Photo by Joe McHale/latimespost.com

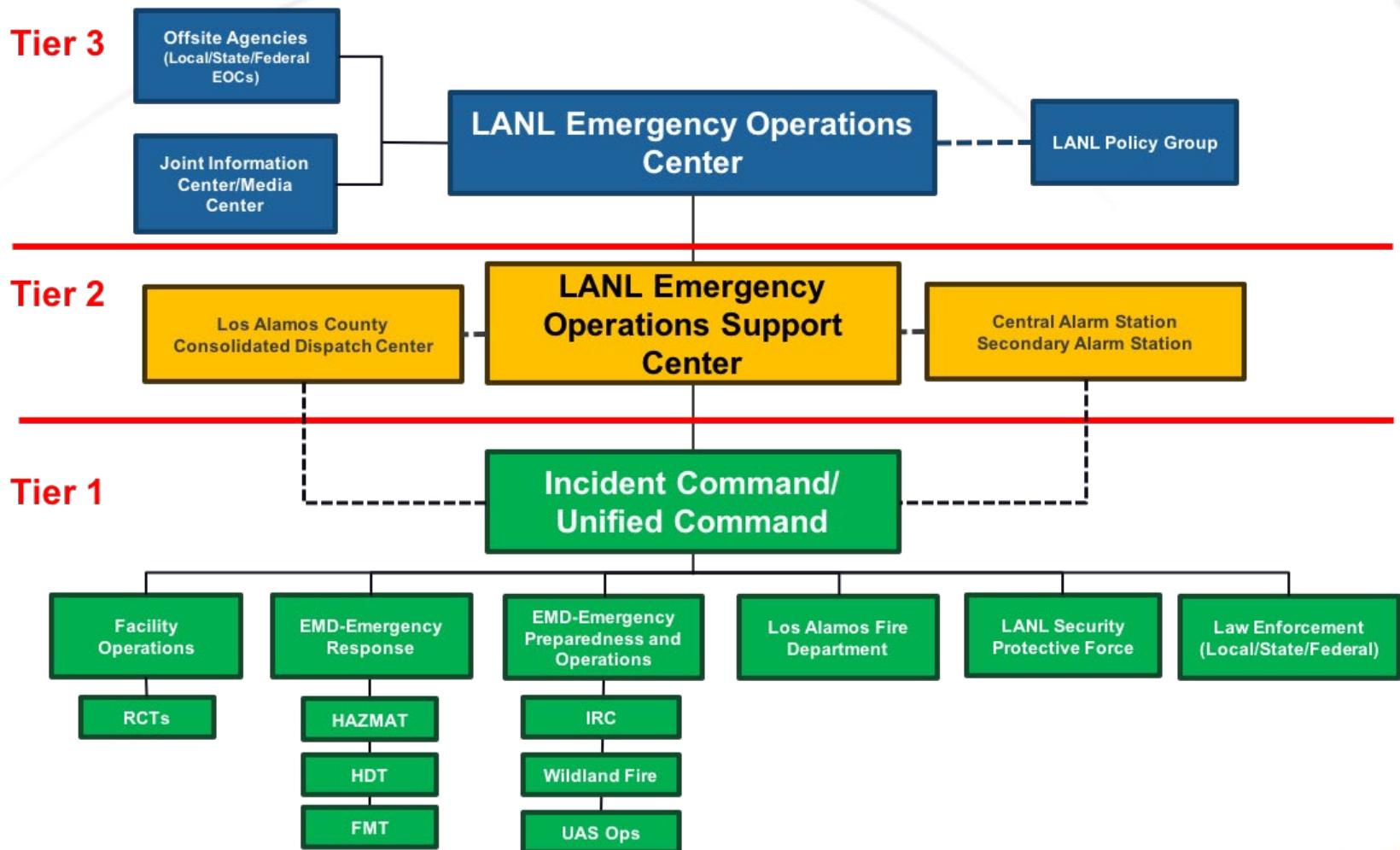
Key Program Initiatives/Achievements (cont.)

- Counter-Unmanned Aircraft System (CUAS) Program
 - Developed a new CUAS Program for Incident Notification and Reporting and Emergency Response (Render Safe) as part of overall CUAS Program initiatives for NA-70, Defense Nuclear Security. This is fully implemented.
- TA-49 Emergency Response Training Center
 - Completed significant enhancements to the TA-49 Emergency Response Training Center to include installation of new props, such as hotel, grocery store, gas station, truck stop, confined space, and extension of rail line to allow training in a realistic and controlled environment. In addition, upgrades were made to base course and utilities. The work-for-others mission support continues to increase.
 - Annually hosts a HAZMAT Challenge, which includes attendance by first-responders from across the nation.



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LANL Emergency Response Organization

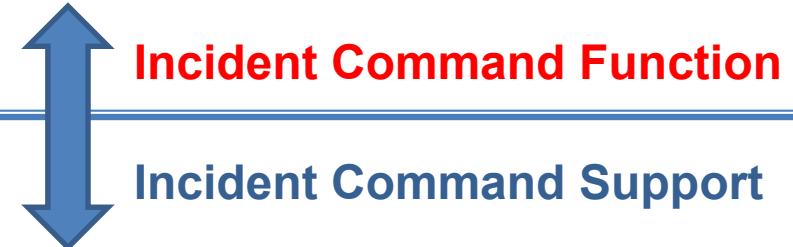


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Tier-1: First-Responders

Incident Command System (ICS)

- EMD-Emergency Operations - Incident Response Commander (IRC)
 - ✓ Agency Representatives (*Wildland Fires*)
- Los Alamos Police Department (LAPD)
- Los Alamos Fire Department (LAFD)
- Protective Force



- EMD-Emergency Response
 - Hazardous Material Team (HAZMAT)
 - Field Monitoring Team (FMT)
- Radiological Control Technician (RCT)
- Wildland Fire Technical Specialists

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Incident Response Commander (Cont.)

Key roles and responsibilities:

- Makes time-urgent categorization and classification decisions in accordance with DOE Order 151.1d, Comprehensive Emergency Management System.
- Makes time-urgent emergency notifications and decisions for onsite protective actions and offsite Protective Action Recommendations and ensures effective implementation.
- Monitors local, regional, and national incidents and weather conditions and coordinates appropriate response activities.
- Responds to abnormal events, non-emergency significant events, Operational Emergencies (OE), and other situations on Department of Energy (DOE) property.
- Assumes incident command or participates in unified command when appropriate and coordinates with facility operations centers and other agencies and organizations.
 - Provides on-scene command and control through the implementation of the Incident Command System (ICS)



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Emergency Operations Support Center

- The 24/7 Emergency Operations Support Center (EOSC) continues to be staffed 24/7 to support incident management and coordination and other key activities:
 - Monitors the laboratory fire alarm system.
 - Conducts time sensitive notifications to laboratory stakeholders (federal, contractor).
 - Deploys LANL emergency response assets, such as IRCS, Hazardous Material Team, etc.
 - Implements worker protective actions.
 - Monitors and tracks LANL international travelers to ensure safety during international incidents.



The EOSC provides 24/7 customer service to laboratory workers, federal and contractor leadership, and all other internal and external stakeholders.

The IRC conducts incident management and coordination from the EOSC before they deploy to the field to support the Incident Command function.

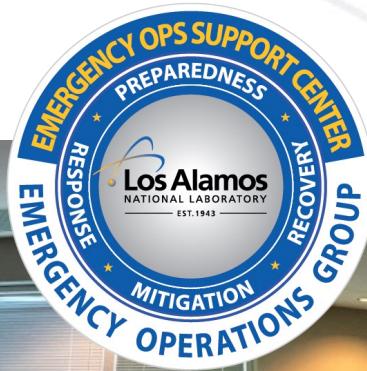
Communication and
Coordination



**Incident Response
Commander (IRC)**

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LANL Emergency Operations Support Center

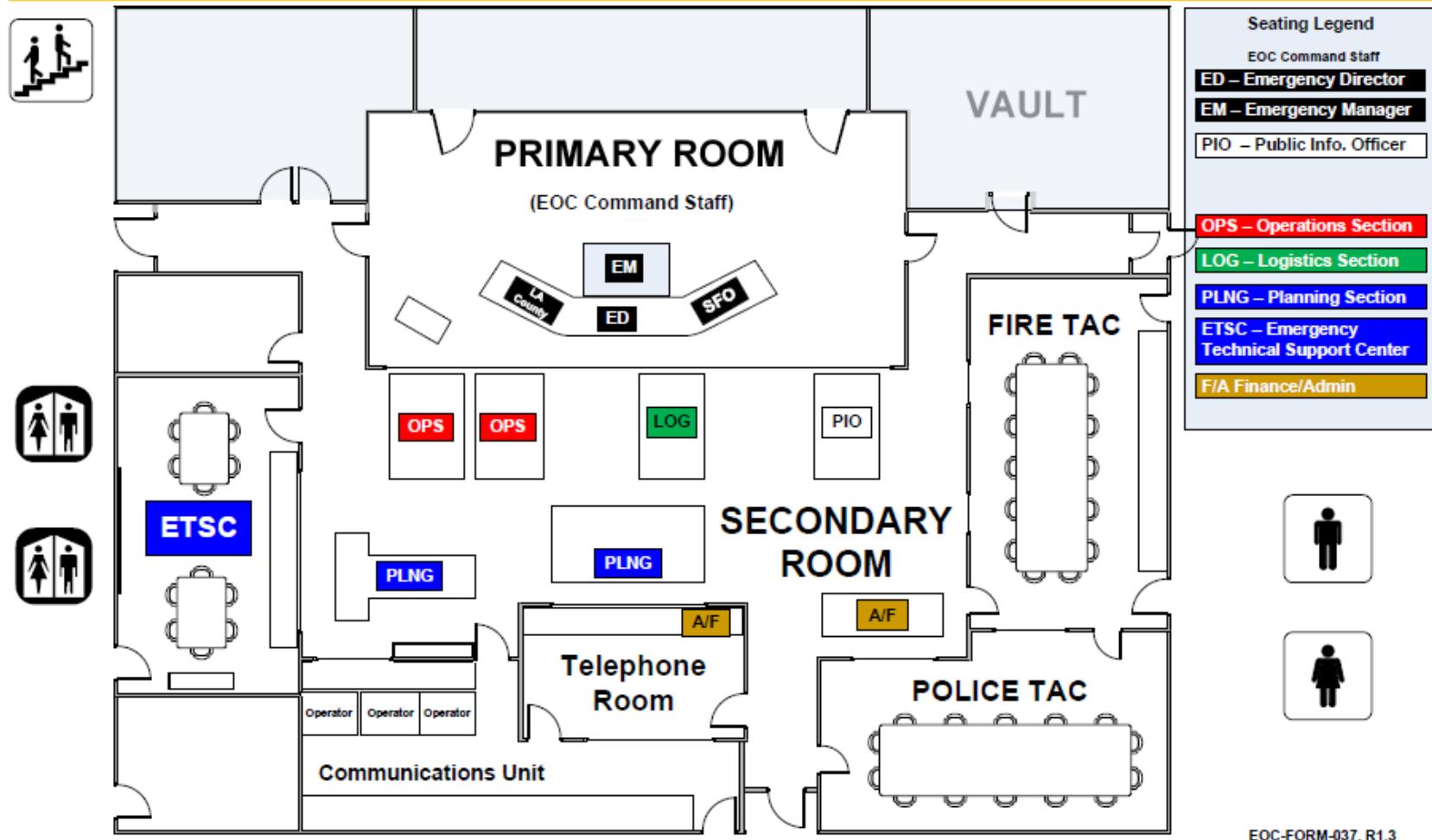


The EOSC provides 24/7 customer service to laboratory workers, federal and contractor leadership, and all other internal and external stakeholders.



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LANL EOC Layout



EOC-FORM-037, R1.3
Last Revised on 5/2018

EOC Activation Levels

■ Level 1 – Full Activation – all EOC staff positions

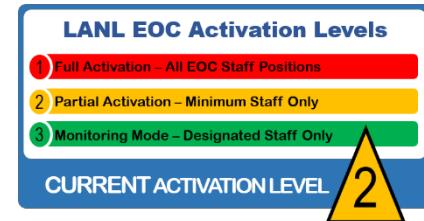
- All OEs or by direction of on-duty IRC, IC, EMD-DL, EMD-EO GL, or EMD-EP GL.
- Minimum staffing requirements apply to declare EOC operational.

■ Level 2 – Partial Activation – minimum staff only

- Minimum staffing positions only – Minimum staffing requirements apply.
- For significant events that are not Operational Emergencies.
- Activated by direction of on-duty IRC, IC, EMD-DL, EMD-EO GL, or EMD-EP GL.

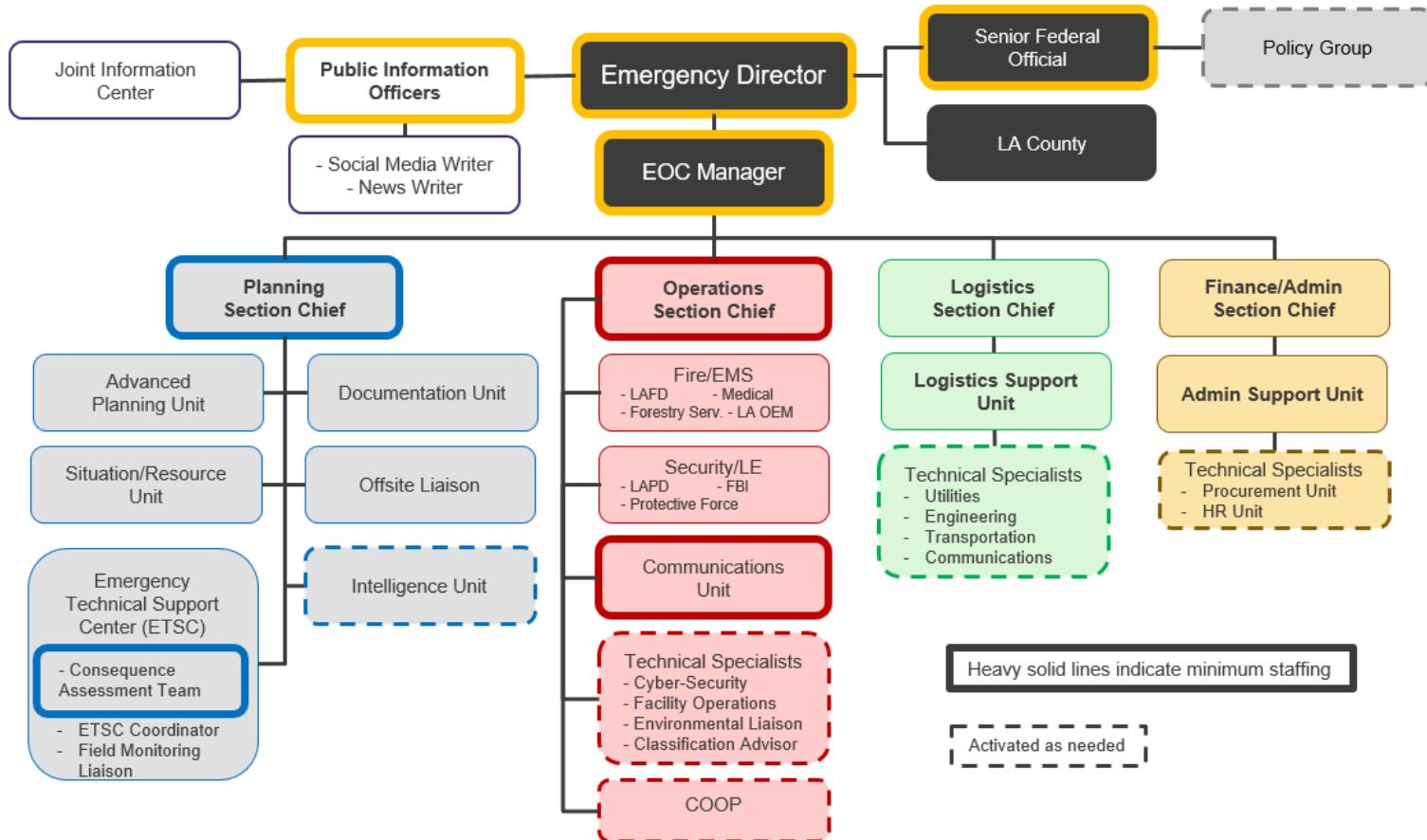
■ Level 3 – Monitoring Mode – designated staff only

- Team of EMD staff and SMEs.
- Activated by direction of on-duty IRC, IC, EMD-DL, EMD-EO GL, or EMD-EP GL.
- For local, regional, national informational monitoring of incidents or high-visibility planned events.
- Minimum staffing requirements do NOT apply.



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LANL EOC Organizational Structure



Based on NIMS/ICS Terminology, Principles, and Concepts.

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Conclusion

- Our efforts continue toward a robust and comprehensive all-hazards emergency management program that is tested and validated through drills and exercises, with a focus on continuous improvements and long-term program sustainability.
- We are a learning organization and will continue to implement program improvements as a result of performance-based and programmatic-based assessments, from both internal and external assessments in pursuit of a program of excellence in emergency management.
- We are developing staff through training, benchmarking, and career development planning across the division.
- We continue to collaborate across the DOE-complex and with other agencies to enhance our emergency management program and apply best practices. EMD is significantly involved in NA-41 sponsored DOE Emergency Management Issues Special Interest Group (EMI SIG).
- The partnership between NNSA NA-LA Emergency Management Program Management and other NA-LA stakeholders and Emergency Management Division is exceptionally strong and healthy.
- EMD works closely and collaboratively with local, State, and Federal agencies to ensure we are prepared and capable to respond to all hazards at LANL.



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Questions/Comments?



Thank You For Your Time!

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