



HAZARDOUS MATERIALS AREA PLANS OVERVIEW AND RECENT UPDATES

**TAIT ENVIRONMENTAL SERVICES
March 26, 2025**

27th California Unified Program
Annual Training Conference
March 24-27, 2025



2-PART PRESENTATION

- **Tait Presentation**
- **CalEPA Presentation**

TAIT PRESENTATION OUTLINE

- **Introduction and Experience**
- **General Area Plan Requirements**
- **Area Plan Preparation**
- **Other Issues/Questions Related to the Area Plan (in part)**

CaIEPA PRESENTATION

- **Will follow this presentation**
- **Will address any issues/questions involved with Area Plan preparation and oversight**

WHAT IS AN AREA PLAN?

- **Hazardous Materials Area Plans are a road map of procedures that are to be implemented in response to a hazardous materials incident.**
- **Area Plans allow the CUPA to plan ahead with respect to procedures, training, and equipment for various potential incident scenarios specific to their jurisdiction.**

Area Plans are completed in house by the UPA/CUPA or are outsourced to a consultant for completion



27th California Unified Program
Annual Training Conference
March 24-27, 2025

WHY DO YOU NEED AN AREA PLAN?



27th California Unified Program
Annual Training Conference
March 24-27, 2025

To give you the tools to protect the environment and save lives!



27th California Unified Program
Annual Training Conference
March 24-27, 2025

20 Hazardous Materials Railcars 10 Cars Derailed



Photographs from nbcnews.com

TRANSPORTATION INCIDENT



**RAIL CAR DERAILMENT
(Vinyl Chloride)
East Palestine, Ohio
February 3, 2022**

2-Mile Evacuation Radius

27th California Unified Program
Annual Training Conference
March 24-27, 2025

East Palestine, Ohio Health Effects

- Nausea
- Rashes
- Breathing Issues (asthma)
- Pollutants in air during and after derailment and during cleanup where soil is disturbed

*Source: Environmental Health News,
August 7, 2023*



27th California Unified Program
Annual Training Conference
March 24-27, 2025

BIOLAB FACILITY
Warehouse Fire and Chemical
Release
(chlorine gas and smoke)
Conyers, Georgia
September 29, 2024

Evacuation (17,000 residents)
and
Shelter-in-Place (90,000 residents)



Photograph from CNN

Numerous Health Effects: headaches, blurry vision, throat irritation

FIXED FACILITY INCIDENT

TANKER TRUCK ACCIDENT

(9,000-gallon Gasoline Tanker)

Montebello, California

December 14, 2011

CA-60 closed for bridge repairs on
Paramount Boulevard overpass
Incident Response



TRANSPORTATION INCIDENT Photographs from Associated Press

and KBAK TV

27th California Unified Program
Annual Training Conference
March 24-27, 2025

Professional Bio and Experience



PAUL McCARTER

**TAIT ENVIRONMENTAL SERVICES, INC.
(TAIT)**

pmccarter@tait.com



27th California Unified Program
Annual Training Conference
March 24-27, 2025

TAIT

<https://tait.com/>

- **Family owned**
- **In business since 1964**
- **Top 10 best places to work in Orange County**
- **Fuel system design, construction, compliance, inspections, and management**
- **Professional environmental services**

TAIT is one of the exhibitors this year, so feel free to visit us at Booth 53



Protecting our environment is essential for a healthy planet. We are committed to protecting our precious communities from environmental risks posed by Fueling Systems, and we are the leader in this growing industry.



27th California Unified Program
Annual Training Conference
March 24-27, 2025

PAUL McCARTER

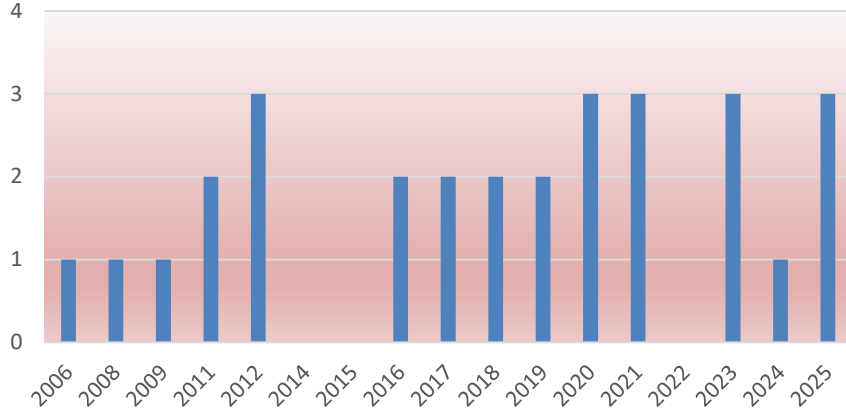
- **California Professional Geologist and Certified Hydrogeologist**
- **Professional Geologist certification in 6 other states**
- **Recognized Environmental Professional (CO)**
- **18 years of experience in completing and updating Hazardous Materials Area Plans and Commodity Flow Studies**

RELEVANT EXPERIENCE

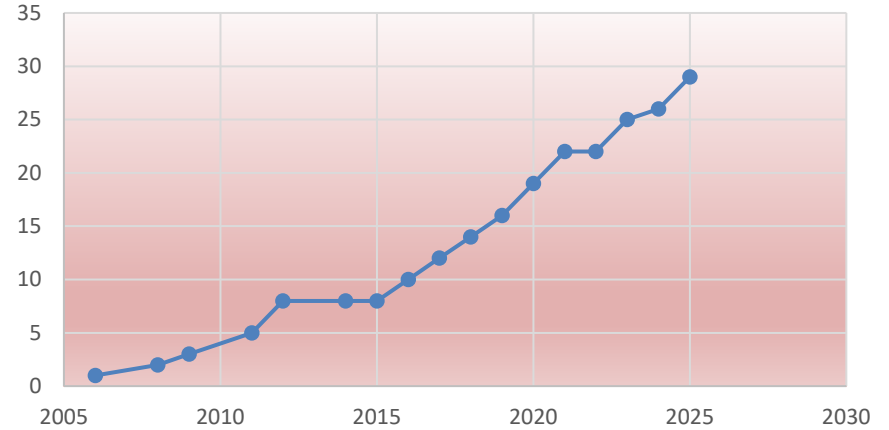
- 29 Area Plans/Area Plan Updates
- 8 Hazardous Materials Commodity Flow Studies
- 2 Community Risk Assessments for Hazardous Materials
- 1 Emergency Response Plan
- 1 Table-Top Exercise

TAIT RELEVANT EXPERIENCE

Number of Area Plans



Number of Area Plans



RELEVANT EXPERIENCE AREA PLANS



Everything
in between



27th California Unified Program
Annual Training Conference
March 24-27, 2025

AREA PLAN REQUIREMENTS

27th California Unified Program
Annual Training Conference
March 24-27, 2025



LEGAL AUTHORITY

- CCR Title 19, Division 5, Chapter 1, Article 2 “Minimum Standards for Area Plans”
- Section 25503 of the California Health and Safety Code (H&SC) Chapter 6.95

- Regulatory oversight administered by CalEPA
- Area Plans are to be reviewed and updated, as necessary, every 3 years
- HMEP Grants are available to complete and update Area Plans

HMEP GRANT

(Hazardous Materials Emergency Preparedness Grant)

PHMSA

(Pipeline and Hazardous Materials Safety Administration)

CURRENT HMEP GRANT PROGRAM IS STILL ADMINISTERED THROUGH CalOES

- Current deadline for 2025-2026 is not yet established
- No new links to 2025-2026 grants
- Information is available at CalOES website at <https://www.caloes.ca.gov/office-of-the-director/operations/response-operations/fire-rescue/hazardous-materials/hazmat-emergency-preparedness-grant-2/>

2025-2026 HMEP Grants

DOGE

?

Section Renumbering (March 6, 2024)

CCR Title 19, Division 5, Chapter 1, Articles 1 & 2



- Article 1. Definitions:
 - An identical version of Section 2620 is now Section 5010.1.
 - An identical version of Section 2621 is now Section 5010.2.
 - An identical version of Section 2622 is now Section 5010.3.
 - An identical version of Section 2630 is now Section 5010.4.
- Article 3. Minimum Standards for Area Plans: Article 3 is relocated into a new Article 2 in the new Chapter 1 in the new Division 5 as well as:
 - Section 2640 is now Section 5020.1.
 - Section 2642 is now Section 5020.2.
 - Section 2643 is now Section 5020.3.
 - Section 2644 is now Section 5020.4.
 - Section 2645 is now Section 5020.5.
 - Section 2646 is now Section 5020.6.
 - Section 2647 is now Section 5020.7.
 - Section 2648 is now Section 5020.8.

Title 19, Division 5, Chapter 1 (Articles 2 & 1)

§ 5020.1 Proposed Area Plans

§ 5020.2 Procedures and Protocols for Emergency Rescue Personnel

§ 5020.3 Pre-Emergency Planning

§ 5020.4 Notification and Coordination

§ 5020.5 Training

§ 5020.6 Public Safety and Information

§ 5020.7 Supplies and Equipment

§ 5020.8 Incident Critique and Follow-Up

§ 5010.3 Pesticide Drift Exposure Incident (Article 1)

§ 5020.1 Proposed Area Plans

- Administering Agency Requirements
 - Purpose of the Plan
 - Jurisdiction
 - Authorities

- Provisions to implement information from business plans

- Protocols for responses to pesticide drift exposure incidents (§ 5010.3)

- Optional Model Reporting Form

OPTIONAL MODEL REPORTING FORM - AREA PLAN

Optional Model Reporting Form

<https://calepa.ca.gov/wp-content/uploads/2024/04/Optional-Model-Reporting-Form-Area-Plan-Fillable-Form-8.6.2024.pdf>

CHECKLIST for AREA PLAN ELEMENT <i>California Code of Regulations (CCR), Title 19, Div 5, Chapter 1</i>	ELEMENT LOCATION	ELEMENT NOT PROVIDED, JUSTIFICATION	PROPOSED DATE FOR COMPLETION
ARTICLE 2 (Reference Section)			
Section 5020.1 – Proposed Area Plan			
Description of Requirements			
Provisions for HMBP integration			
Pesticide Drift Incident Response Protocols			
Element Information Form			
Section 5020.2 – Emergency Response Procedures			
Approach, Recognition, and Evaluation			
Personnel Monitoring and Decontamination			
Equipment Monitoring and Decontamination			
Section 5020.3 – Pre-Emergency Planning			
Pre-incident Site Surveys			
Planning and Coordination			
Emergency Funding Access			
Disposal Facility Access			
Emergency Response Contractor Access			
Integrated Response Management System			
Section 5020.4 – Notification and Coordination			
Notification and Coordination			
Emergency Communications			
Responsibility Matrix			
Cal OES Notification			
Section 5020.5 – Training			
Emergency Response Personnel Training			
Training Documentation			
Training Exercises			
Section 5020.6 – Public Safety and Information			
Site Perimeter Security			
Safety Procedure Information			
Information Release Responsibility			
Medical Notification			
Evacuation Plans			
Section 5020.7– Supplies and Equipment			
Listing and Description			
Testing and Maintenance			
Section 5020.8 – Incident Critique and Follow-up			

27th California Unified Program
Annual Training Conference
March 24-27, 2025



CalEPA Hazardous Materials Business Plan and California Accidental Release Prevention Unit

Area Plan Checklist

This document lists required area plan elements as referenced in Health and Safety Code Section (HSC) Section 25500 et al. and California Code of Regulations (CCR) Title 19. This checklist is intended as guidance to assist with verifying those elements are present within an area plan.

Reference	Requirement	Location in Area Plan
19 CCR Section 5020.1(a)	A description of the extent to which the administering agency has met the requirements of Title 19, Article 2.	
19 CCR Section 5020.1(b)	Provisions for integrating, in the final area plan, information from business plans submitted by handlers within the jurisdiction of an administering agency.	
19 CCR Section 5020.1(c); 19 CCR Section 5020.3(f); 19 CCR Section 5020.4(d); 19 CCR Section 5020.5(a)(1)	Protocols for responses to pesticide drift exposure incidents.	
19 CCR Section 5020.1(d)	A form providing information on the elements within the area plan, substantially equivalent to the following optional model reporting form for area plans.	
HSC Section 25503(c)(1)	Procedures and Protocols for Emergency Response Personnel	
19 CCR Section 5020.2(a)	Guidelines for approach, recognition, and evaluation of releases and threatened releases of hazardous materials by emergency response personnel.	
19 CCR Section 5020.2(b)	Monitoring and decontamination guidelines for emergency response personnel and equipment.	
HSC Section 25503(c)(2); 19 CCR Section 5020.3	Pre-emergency Planning	

<https://calepa.ca.gov/wp-content/uploads/2024/04/California-HMBP-Area-Plan-Evaluation-Checklist.pdf>

27th California Unified Program
Annual Training Conference
March 24-27, 2025

Number of Elements to be Covered in CalEPA Area Plan Checklist

- § 5020.1 Proposed Area Plans (4)
- § 5020.2 Procedures and Protocols for Emergency Rescue Personnel (2)
- § 5020.3 Pre-Emergency Planning (7)
- § 5020.4 Notification and Coordination (5)
- § 5020.5 Training (12)
- § 5020.6 Public Safety and Information (16)
- § 5020.7 Supplies and Equipment (2)
- § 5020.8 Incident Critique and Follow-Up (2)

Total Elements = 50

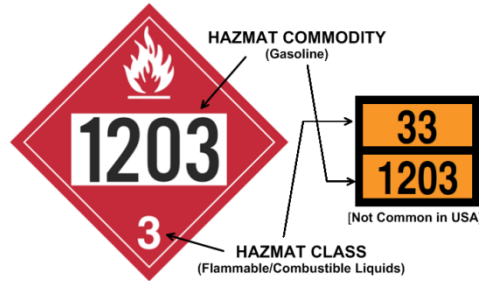
§ 5020.2 Procedures and Protocols for Emergency Rescue Personnel

- Approach, Recognition, and Evaluation of releases and threatened releases of hazardous materials by emergency response personnel
- Personnel monitoring and decontamination
- Equipment monitoring and decontamination

§ 5020.2(a) Procedures and Protocols for Emergency Rescue Personnel

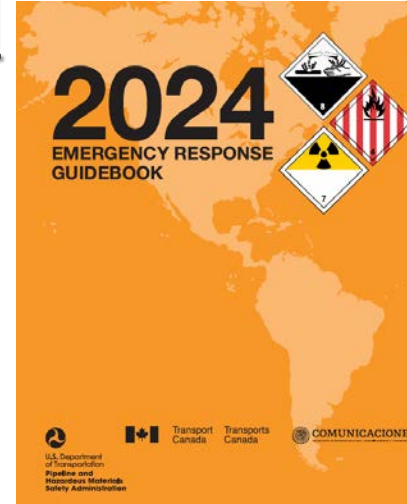


Approach



Recognition

➤ Gasoline



GUIDE 128	FLAMMABLE LIQUIDS (WATER-IMMISCIBLE)
POTENTIAL HAZARDS	
FIRE OR EXPLOSION	
<ul style="list-style-type: none"> • HIGHLY FLAMMABLE: Will be easily ignited by heat, sparks or flames. • Vapors may form explosive mixtures with air. • Vapors may travel to source of ignition and flash back. • Most vapors are heavier than air. They will spread along the ground and collect in low or confined areas (sewers, basements, tanks, etc.) • Vapor explosion/flashback hazard. Confined or in-situ. • Those substances designated with a (P) may polymerize explosively when heated or involved in a fire. • Runoff to sewer may create fire or explosion hazard. • Containers may explode when heated. • Many liquids will float on water. • Substance may be transported as... <ul style="list-style-type: none"> • For hybrid vehicles, GUIDE 147 (Batteries) or GUIDE 138 (Sulfur batteries) should also be consulted. • If molten aluminum is involved, refer to GUIDE 169. 	
HEALTH	
<ul style="list-style-type: none"> • CAUTION: Prolonged contact with LIQUIDS may contain TOXIC hydrogen sulfide gas. • Inhalation or contact with material may irritate or burn skin and eyes. • Fire may produce irritating, corrosive and/or toxic gases. • Vapors may cause dizziness or昏厥, especially when in closed or confined areas. • Runoff from fire control or dilution water may cause environmental contamination. 	
PUBLIC SAFETY	
<ul style="list-style-type: none"> • CALL 911. Then call emergency response telephone number on shipping paper. If shipping paper not available or no answer, refer to appropriate telephone number listed on the inside back cover. • Keep unauthorized personnel away. • Stay upwind, uphill and/or up-stream. • Ventilate closed spaces before entering, but only if properly trained and equipped. 	
PROTECTIVE CLOTHING	
<ul style="list-style-type: none"> • Wear positive pressure self-contained breathing apparatus (SCBA). • Structural fire-fight protective clothing provides thermal protection but only limited chemical protection. 	
EVACUATION	
Immediate precautionary measures	
<ul style="list-style-type: none"> • Isolate spill or leak area for at least 50 meters (150 feet) in all directions. • Large Spill <ul style="list-style-type: none"> • Consider initial downwind evacuation for at least 300 meters (1000 feet). • Fire <ul style="list-style-type: none"> • If tank rail tank car or highway tank is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions, also, consider initial evacuation for 800 meters (1/2 mile) in all directions. 	

Evaluation

- Potential Hazards
- Public Safety
- Emergency Response

27th California Unified Program
Annual Training Conference
March 24-27, 2025

§ 5020.2(b) Procedures and Protocols for Emergency Rescue Personnel



***Monitoring and Decontamination
Personnel and Equipment***

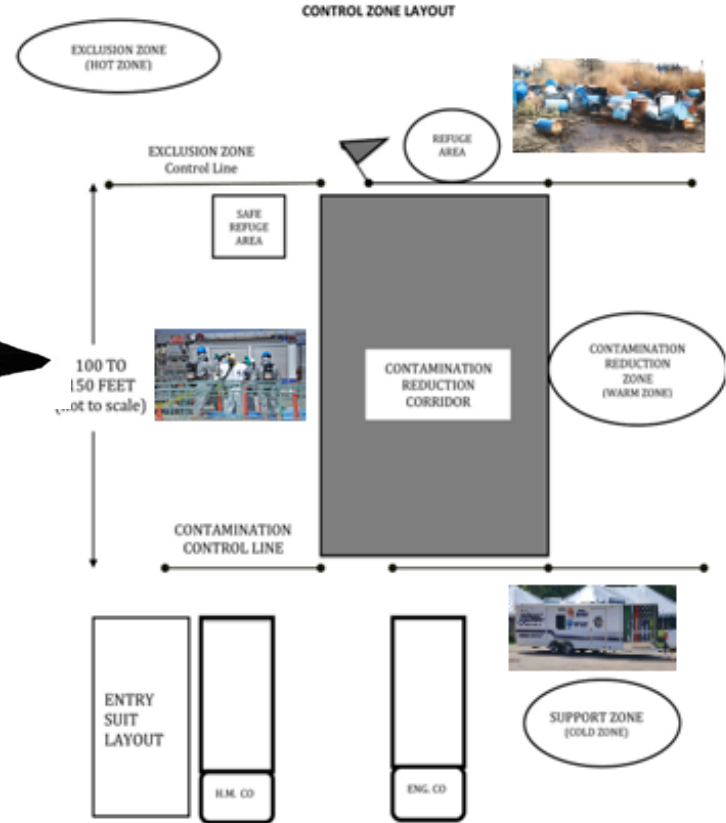
27th California Unified Program
Annual Training Conference
March 24-27, 2025

§ 5020.2(b) Procedures and Protocols for Emergency Rescue Personnel

Hazardous Materials Incident Control Zones

Source: Incident Command System Position Manual Decontamination Leader ICS-1104, July 2016:

<https://firescope.caloes.ca.gov/ICS%20Documents/ICS-1104.pdf>



§ 5020.3 Pre-Emergency Planning

- Pre-Incident Site Surveys
- Planning and Coordination among emergency responders
- Emergency Funding Access for emergency response assistance
- Emergency Response Contractor Access/Disposal Facilities

§ 5020.3(a) Pre-Emergency Planning

Pre-Incident Site Surveys

- Hazardous Materials Business Plans
- CalARP sites

CERS Central

<https://cers.calepa.ca.gov/>

Welcome to the California Environmental Reporting System (CERS)

Business Portal Sign In

Regulator Sign In

Business Training Portal Sign In

Regulator Training Portal Sign In

§ 5020.3 Pre-Emergency Planning

- Immediate access to pesticide-specific information for responders to pesticide releases.
- Incident Command System (ICS) and agency roles within the Standardized Emergency Management System (SEMS)
- Roles and Responsibilities of local, state, and federal agencies

§ 5020.3 (c)(f) Pre-Emergency Planning

ICS – Who Does What?

Planning and Coordination



Incident Command System

Source: FEMA, ICS 300, March 2018:

<https://training.fema.gov/emiweb/is/icsresource/assets/ics%20organizational%20structure%20and%20elements.pdf>

27th California Unified Program
Annual Training Conference
March 24-27, 2025

§ 5020.4 Notification and Coordination

- Notification and Coordination with emergency response personnel and emergency response agencies
- Emergency Communications including alternative communications
- Responsibility Matrix

§ 5020.4(a) Notification and Coordination

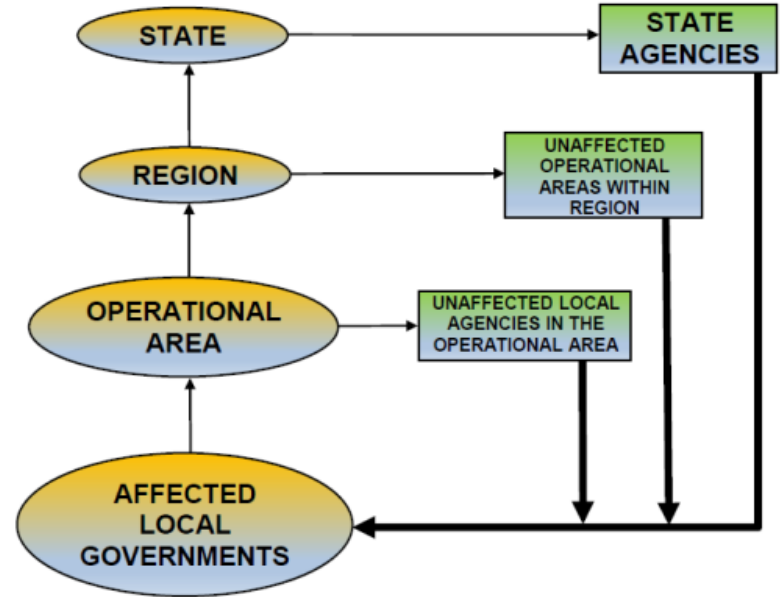


First Responders

27th California Unified Program
Annual Training Conference
March 24-27, 2025

§ 5020.4(a) Notification and Coordination

Mutual Aid



→ Resource Request
→ Resource Routed



§ 5020.4(c) Notification and Coordination

Responsibility Matrix

Source: Santa Cruz County Hazardous Materials Area Plan, available online at

https://sceh.com/Portals/6/Env_Health/hazardous_materials/AreaPlan_2017.pdf

Responsibility Matrix

	Isolate and Deny Entry	Est. Zones	Est. Command	Entry & Unknown ID	Rescue	Tox(Post Decon)	Sampling	Monitoring	Leak Mitigation	Site Security	Evacuate/Shelter In-place	Traffic Control	Responsible Party/Investigate	Direct & Oversee Cleanup	Cleanup	Cost Recovery	Fire/Flammable	Illegal Activity/Dug Lab	Explosive Devices/Materials	Radioactive Materials	Pesticides/Herbicides	
Local Fire Dept.	X	X	X			X		X					X							X		
CDF/County Fire	X	X	X			X		X				X								X		
Environmental Health	X								X	X					X	X		X				
SCHMIT	X	X		X	X	X		X	X	X												
UCSC EH&S	X																				X	
Police Dept.	X												X	X	X					X	X	
County Sheriff	X												X	X	X					X	X	
CHP	X												X	X	X					X	X	
Fish & Game	X												X	X	X					X	X	
Coast Guard	X												X	X	X					X	X	
State Parks	X												X	X	X		X			X	X	
County Ag Commissioner	X								X													X
City Public Works	X																X					
County Public Works	X																X					
CALTRANS	X																X					
Responsible Party	X																X					
Cleanup Contractor	X																X					
AMR/Hospitals							X															

Santa Cruz County Hazardous Materials Area Plan



§ 5020.4 Notification and Coordination

- CalOES Notification and reporting
- Refinery Alerting and Notification System per AB-1646 (where applicable)
- Health care access within 24 hours of a pesticide drift exposure

§ 5020.4(d) Notification and Coordination



STATE WARNING CENTER: 1-800-852-7550

§ 5020.5 Training

- Emergency response personnel training
- Health and safety procedures for response personnel
- Training in the use of emergency equipment and supplies
- Training exercises, including table-top exercises
- Training documentation

§ 5020.5(a) Training

Training Levels: Hazardous Waste Operations and Emergency Response

(Cal OSHA Title 8, CCR Subchapter 7, § 5192)

Five Levels of Training

- First Responder **Awareness** Level
- First Responder **Operational** Level
- Hazardous Materials **Technician**
- Hazardous Materials **Specialist**
- Hazardous Materials **Incident Commander**

27th California Unified Program
Annual Training Conference
March 24-27, 2025

§ 5020.5(b) Training *Field Exercises*



Railcars



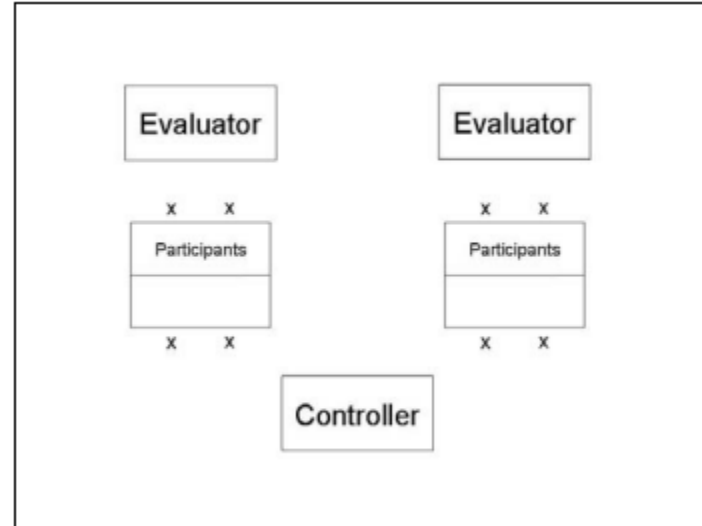
Highway Incidents

§ 5020.5(b) Training

Field Exercises



Classroom/Tabletop Training



**Source: FEMA, 2006, Hazardous Materials
Tabletop Exercises Manual**

27th California Unified Program
Annual Training Conference
March 24-27, 2025

§ 5020.5(b) Training

Employee Certification
for
HAZARDOUS MATERIALS TRAINING and TESTING

This is to certify that _____
has on this date _____ completed
the training and has been tested on the following
COURSE OF STUDY _____

TRAINER _____ ADDRESS _____

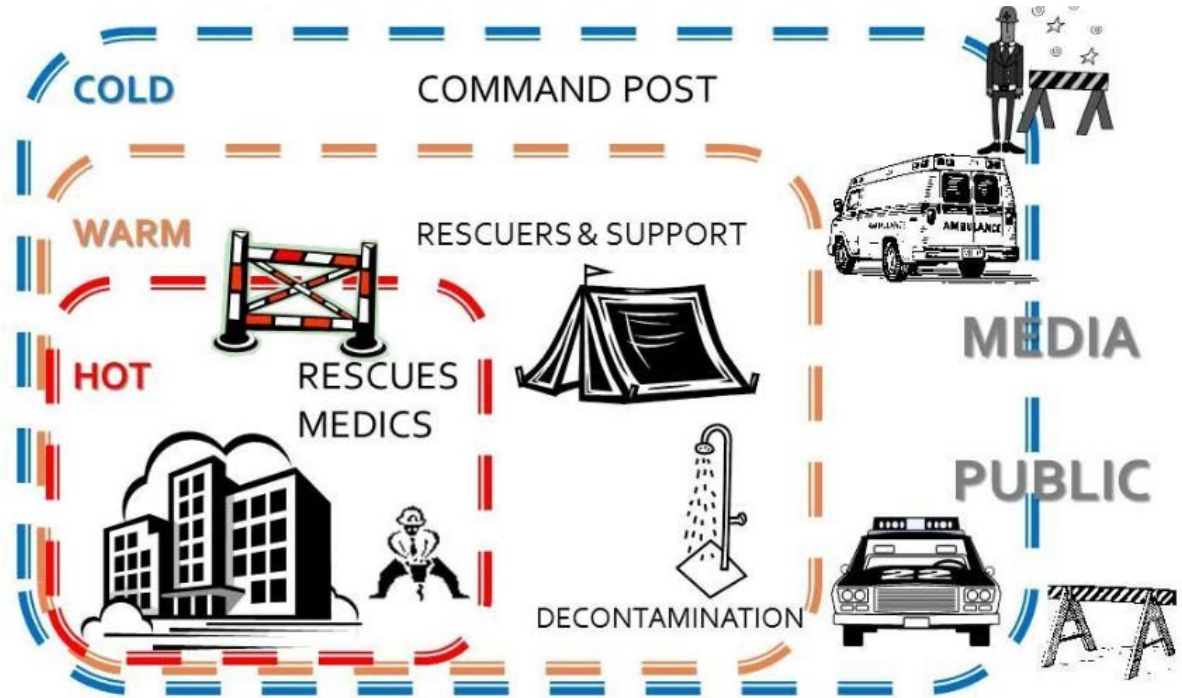
Documentation of Training

§ 5020.6 Public Safety and Information

- Site Perimeter Security
- Provisions for informing business and the affected public
- Procedures to notify residents affected by pesticide drift exposure incident
- Notification in languages other than English as needed

§ 5020.6(a) Public Safety and Information

Perimeter Security



§ 5020.6(b) Public Safety and Information



Public Notification Systems



27th California Unified Program
Annual Training Conference
March 24-27, 2025

§ 5020.6 Public Safety and Information

- Provisions for informing medical and health facilities of the incident
- Evacuation plans and procedures

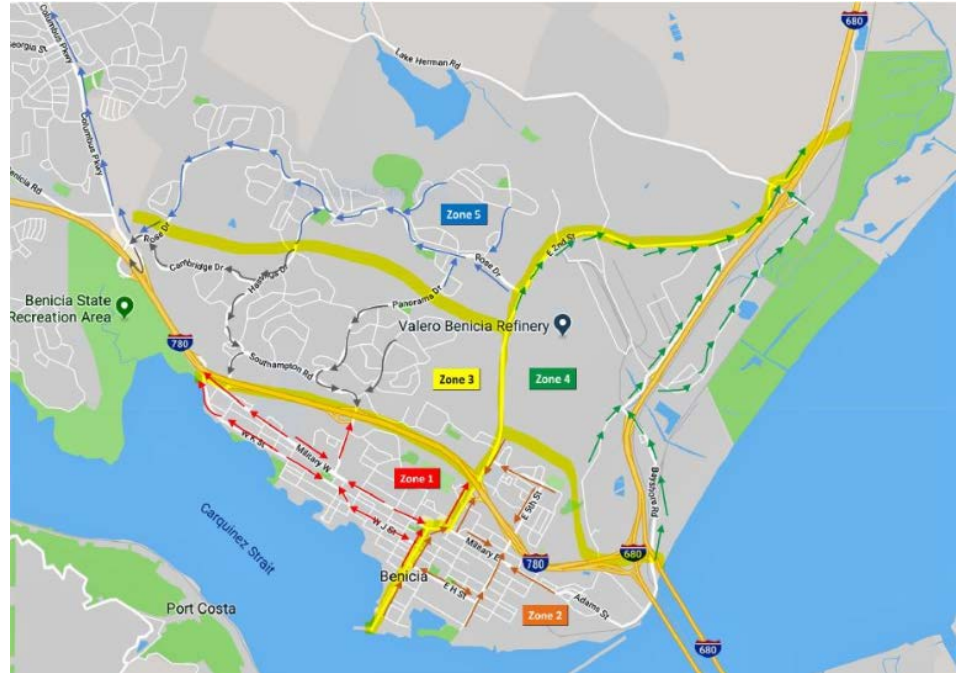
§ 5020.6(g) Public Safety and Information

Evacuation Plans



City of Benicia Evacuation Routes →

Source: <https://www.ci.benicia.ca.us/index.asp?SEC=04273A68-D081-4C4D-AA06-08F5B0BFF01B&DE=46E40902-5659-43E2-A15C-CBF516E9675D>



27th California Unified Program
Annual Training Conference
March 24-27, 2025

§ 5020.7 Supplies and Equipment

- List of equipment available to respond to potential emergencies with hazardous materials handled within the jurisdiction of the Administering Agency
- Regular testing and maintenance of equipment.

§ 5020.7(a) Supplies and Equipment



FIRESCOPE STANDARDIZED HAZARDOUS MATERIALS EQUIPMENT LIST 2016

Source:

<https://firescope.caloes.ca.gov/ICS%20Documents/ICS-1120.pdf>

Inv. #:	Item Name and Description	Requirement	Certification Or Standard	Type 1	Type 2	Type 3
6.1.1	REPLACEMENT GLOVES, Vapor Protective: Compliant to NFPA Standard 991. Replacement glove inventory shall be ordered from and include ample supply of the <i>manufacturer's</i> recommended "outer" glove. Readily available generic type replacement gloves not acceptable. The "inner" glove is listed in Item # 6.1.3 below. <small>(Rev. 2009)</small>	1 replacement set for each suit on hand	NFPA 991	R	R	Opt
6.1.2	REPLACEMENT GLOVES, Liquid Splash Protective: Compliant to NFPA Standard 992. Replacement glove inventory must include ample supply of the "outer" generic replacement gloves. (Some 1992 suit ensembles are not supplied with gloves from the <i>manufacturer</i>). Where gloves are used as part of the protective ensemble, the manufacturer shall specify types of compliant outer gloves. When Liquid Splash-Protective ensembles are not provided with outer gloves by the manufacturer, replacement gloves must be compliant to NFPA Standard 992. <small>(Rev. 2009)</small> . The "inner" glove is listed in Item # 6.1.3 below. Doubling the number of 6.1.1 replacement gloves will satisfy this requirement, and reduce the number of different types of gloves. <small>(Rev. 2009)</small>	1 replacement set for each suit on hand; Gloves for 6.1.1 will satisfy.	NFPA 992 Or Manufacturer Model # Must be UL or SEI Listed	R	R	R
6.1.3	UNDER-GLOVE: Light weight chemical resistant disposable type glove popularly used as an under-glove or "inner" glove for the 1991 and 1992 ensembles. Also is used separately for light duty work, handling, sampling.	24 Pair		R	R	R

27th California Unified Program
Annual Training Conference
March 24-27, 2025

§ 5020.7(b) Supplies and Equipment

Equipment Testing and Maintenance



27th California Unified Program
Annual Training Conference
March 24-27, 2025

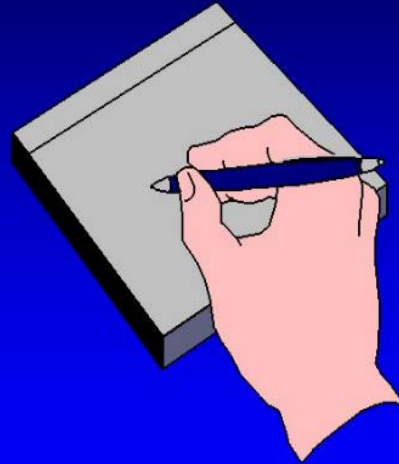
§ 5020.8 Incident Critique and Follow-Up

- Post-incident interagency meeting to evaluate response to a hazardous materials incident and improve future response to hazardous materials incidents
- Determination if any Area Plan revisions are needed

§ 5020.8 Incident Critique and Follow-Up

Steps to Proper Termination

- On-scene debriefing.
- Incident critique.
- After action analysis.



Incident Safety Analysis

The Incident Safety Analysis is used to:

- Identify, prioritize, and mitigate the hazards and risks of each incident work location by operational period.
- Identify hazardous tactics so that alternatives may be considered.
- Determine the safety implications for the types of resources required.



FEMA

Visual 5.26
Planning Process

§ 5020.8 Incident Critique and Follow-Up

Positive Feedback is Critical



Negative Feedback is Counterproductive



27th California Unified Program
Annual Training Conference
March 24-27, 2025

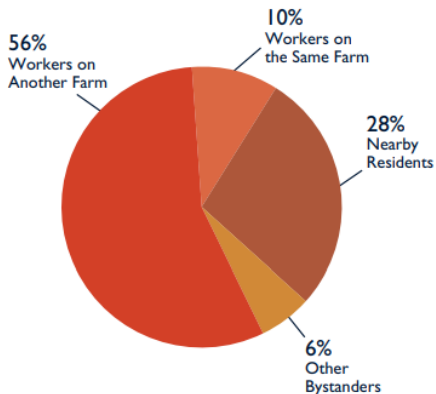
§ 5010.3 Pesticide Drift Exposure Incident

- Access to pesticide-specific information for responders to pesticide releases
- Pesticide drift response protocols
- Public safety and information
- Protocols for service access in various languages
- Reimbursement of medical costs for pesticide drift incidents

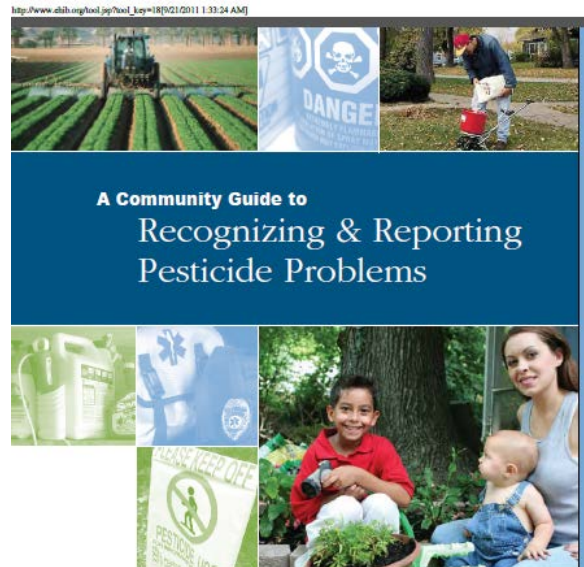
§ 5010.3 Pesticide Drift Exposure Incident

Who is Getting Sick from Pesticide Drift?

Department of Health averages based on data from 2005–2012



Source: Washington State Department of Health, "Agricultural Pesticide Drift and Farmworker Health," Farmworker Advisory Committee Meeting, 10/16/2014



A Community Guide to
Recognizing & Reporting
Pesticide Problems

<https://columbialegal.org/wp-content/uploads/2018/11/PesticideReportFINALWeb.pdf>

PESTICIDE DRIFT COVERAGE IN THE AREA PLAN: OPTIONS

- Discuss in various sections as outlined in Title 19, Division 5, Chapter 1 (Article 2)
 - Proposed Area Plans § 5020.1(c)
 - Pre-emergency Planning § 5020.3(f,g)
 - Training § 5020.5(a)(1,5,8)
 - Public Safety and Information § 5020.6(c)
 - Incident Critique and Follow-Up § 5020.8

- Discuss in a separate section as outlined in Title 19, Division 5, Chapter 1 (Article 1), § 5010.3

THIS IS “YOUR” AREA PLAN

27th California Unified Program
Annual Training Conference
March 24-27, 2025

What does your current Area Plan look like?

Chances are that you have been adding updates to the Plan over a period of several years to conform to the 3-year review process. In that case, your Area Plan could resemble the following scenarios.

Scenario #1

- Hard to find the information that you need when you need it.
- Too many incorrect/irrelevant remnants from previous Area Plans
- Too many add-ons
- Too many appendices
- Text that doesn't read well



Scenario #2

- Updated Area Plan has removed old information
- Text is updated and easy to read
- Information easily accessible when needed
- Appendices are updated and easily accessible





OR SOMEWHERE IN
BETWEEN



27th California Unified Program
Annual Training Conference
March 24-27, 2025

- This is your Area Plan
- The Area Plan will conform to Title 19 and Section 25503
- The Area Plan will conform to CUPA's requirements
- CalEPA will review and approve the Updated Area Plan

Data sources for the Area Plan include, but are not limited to the following:

- Data provided by CUPA
- Other regulatory data
- Public domain data

CUPA Provided Data

A significant portion of the data will be provided by the CUPA, including, but not limited to:

- List of CalARP Facilities
- Equipment Inventory Lists
- Emergency Contact Numbers
- Responsibility Matrix
- Local Agency Roles and Responsibilities
- Refinery Alerting and Notification System (where applicable)

Other Regulatory Data

Other regulatory or institutional data may include, but not limited to:

- Pesticide Drift Information
- Incident Command System
- California Code of Regulations
- FIRESCOPE
- State and Federal Agency Roles and Responsibilities

Public Domain Data

Variable data from public domain sources may include, but not limited to:

- National Pipeline Mapping Service (NPMS) Pipeline Maps
- Adapting to Rising Tides Data (Bay Area)
- Land Use Maps
- Fire Hazard Maps

Map Layers

- Accidents (Liquid)
- Incidents (Gas)
- Gas Transmission Pipelines
- Hazardous Liquid Pipelines
- LNG Plants
- Breakout Tanks
- Other Populated Areas (scale dependent)
- Highly Populated Areas (scale dependent)
- Commercially Navigable Waterways
 - CNW Inland
 - CNW Ocean/Great Lakes
- Great Lakes
- Tribal Government Lands
- State Boundaries
- abc Show Labels
- County Boundaries
- abc Show Labels
- GOM Block Groups



NPMS Public Viewer Orange County Pipelines

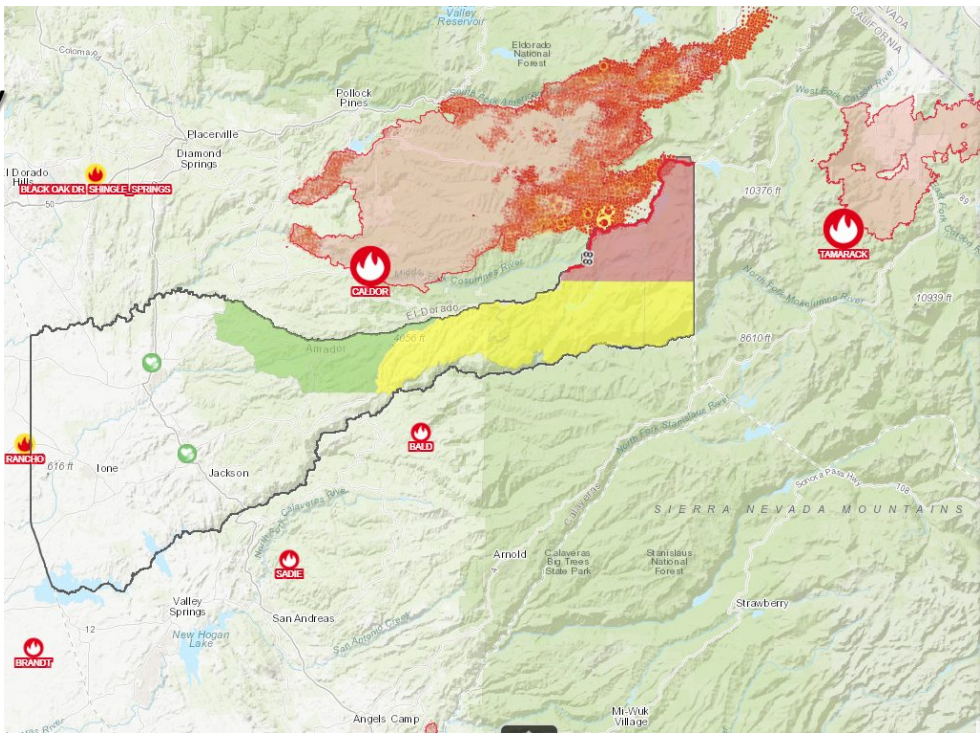
[https://pvnpm.phmsa.
dot.gov/PublicViewer/](https://pvnpm.phmsa.dot.gov/PublicViewer/)

27th California Unified Program
Annual Training Conference
March 24-27, 2025



Caldor Fire, El Dorado County 2021

<https://www.mymotherlode.com/news/local/1935641/evacuation-map-for-growing-caldor-fire.html#foobox-1/0/caldorfiremap.jpg>



- Evacuation Shelter Locations
 - Green circle icon
- Road Closure
 - Red line icon
- Evacuation Areas
 - Yellow: Warning
 - Brown: Evacuation Order
 - Purple: Shelter in Place
 - Green: Clear to Repopulate
 - Blue: Advisory
- Amador County Boundary
 - Black outline icon
- Satellite (VIIRS) Thermal Hotspots and Fire Activity
 - Fire Radiative Power (MW)
 - > 750 (Large red circle)
 - 300-749 (Medium red circle)
 - 100-299 (Small red circle)
 - 10-99 (Very small red circle)
 - 0-9 (Tiny red circle)
- USA Current Wildfires - Current_Incidents
 - USA Wildfire Incidents (Acres)
 - Red circle with flame: 300,000 or more
 - Red circle with flame: 50,000-299,999



Area Plan Format/Objective

Ideally:

- Concise TEXT section covering all of the elements in Title 19 and Section 25503.
- Direct references to Appendices where additional detailed information can be found
- Appendices containing detailed information of various aspects of incident response
 - Evacuation Procedures
 - Training
 - Incident Command

Existing Area Plan Formats

3 General Formats:

- Preparedness-Response-Recovery-Mitigation
- 2-Section Plan
 - Basic Plan
 - Roles and Responsibilities
- Title 19 Format

Preparedness-Response-Recovery-Mitigation Format



Preparedness

Actions taken prior to a disaster with the intent of ensuring a better event response

- Planning
- Training and Exercises
- Logistics
- Technology infrastructure
- Agency and stakeholder coordination
- Provide information and tools to citizens

Response

Actions taken immediately before, during and after an event to alleviate suffering and prepare for recovery

- Establish Situational Awareness
- Evacuations and Shelters
- Respond to remaining hazard
- Search and Rescue
- Mass Care
- Logistics response
- Initiate Recovery

Recovery

The rebuilding or improvement of disaster-affected areas

- Debris Management
- Return essential services
- Food and water
- Temporary housing
- Economic assistance
- Insurance claims and rebuilding
- Business aid

Mitigation

The improvement of the built and social environment in order to reduce, withstand or prevent disaster impacts.

- Hazard Analysis
- Vulnerability Assessment
- Scenario Development
- Community Engagement and Education
- Planning and Infrastructure Work

Preparedness-Response-Recovery-Mitigation Format

TABLE OF CONTENTS

<i>1.0 OVERVIEW.....</i>	<i>1</i>
<i>2.0 PREPAREDNESS.....</i>	<i>23</i>
<i>3.0 RESPONSE.....</i>	<i>34</i>
<i>4.0 RECOVERY.....</i>	<i>91</i>
<i>5.0 MITIGATION.....</i>	<i>102</i>
<i>6.0 PESTICIDE DRIFT.....</i>	<i>105</i>

APPENDICES

2-Section Format

PART I – BASIC PLAN

Introduction

PREPAREDNESS

RESPONSE

RECOVERY

Part II - ROLES AND RESPONSIBILITIES

Section A - Local Government

Section B - State Government

Section C - Federal Government

Section D - Non-Governmental Agencies

Part III - Appendices

Title 19 Format

TABLE OF CONTENTS

INTRODUCTION

CCR SECTION 5020.1: PROPOSED AREA PLAN

CCR SECTION 5020.2: PROCEDURES AND PROTOCOLS FOR EMERGENCY RESPONSE PERSONNEL

CCR SECTION 5020.3: PRE-EMERGENCY PLANNING

CCR SECTION 5020.4: NOTIFICATION AND COORDINATION

CCR SECTION 5020.5: TRAINING

CCR SECTION 5020.6: PUBLIC SAFETY AND INFORMATION

CCR SECTION 5020.7: SUPPLIES AND EQUIPMENT

CCR SECTION 5020.8: CRITIQUE AND FOLLOW UP

CCR SECTION 5010.3: PESTICIDE DRIFT EXPOSURE INCIDENT (Optional: may be included in other sections)

OPTIONAL MODEL REPORTING FORM - AREA PLAN

Title 19 Format
(follows the Optional
Model Reporting Form
Sequencing)

CHECKLIST for AREA PLAN ELEMENT <i>California Code of Regulations (CCR), Title 19, Div 5, Chapter 1</i>	ELEMENT LOCATION	ELEMENT NOT PROVIDED, JUSTIFICATION	PROPOSED DATE FOR COMPLETION
ARTICLE 2 (Reference Section)			
Section 5020.1 – Proposed Area Plan			
Description of Requirements			
Provisions for HMBP integration			
Pesticide Drift incident Response Protocols			
Element Information Form			
Section 5020.2 – Emergency Response Procedures			
Approach, Recognition, and Evaluation			
Personnel Monitoring and Decontamination			
Equipment Monitoring and Decontamination			
Section 5020.3 – Pre-Emergency Planning			
Pre-incident Site Surveys			
Planning and Coordination			
Emergency Funding Access			
Disposal Facility Access			
Emergency Response Contractor Access			
Integrated Response Management System			
Section 5020.4 – Notification and Coordination			
Notification and Coordination			
Emergency Communications			
Responsibility Matrix			
Cal OES Notification			
Section 5020.5 – Training			
Emergency Response Personnel Training			
Training Documentation			
Training Exercises			
Section 5020.6 – Public Safety and Information			
Site Perimeter Security			
Safety Procedure Information			
Information Release Responsibility			
Medical Notification			
Evacuation Plans			
Section 5020.7 – Supplies and Equipment			
Listing and Description			
Testing and Maintenance			
Section 5020.8 – Incident Critique and Follow-up			

7th California Unified Program
Annual Training Conference
March 24-27, 2025



Objective of the Area Plan Update

To provide a concise, readable, and easily accessible Area Plan that can be quickly and efficiently referenced in the event of a hazardous materials incident.

- Relevant Operational Data and Element Descriptions in the Text
- Backup and Reference Information in the Appendices

Area Plan Structure

- 2 Major Parts to the Area Plan
 - Body of the Text
 - Appendices

- Some Area Plans may have an Executive Summary

Area Plan Text

- Format is CUPA's choice
- Discussion of all the required elements in CCR Title 19, Division 5, Chapter 1, Article 2 "Minimum Standards for Area Plans"
- Conformance with Section 25503 of the California Health and Safety Code (H&SC) Chapter 6.95
- CUPA-specific information

Area Plan Appendices

- Format is CUPA's choice
- Appendix numbering should follow the same order that they are first referenced in the text
- Details of specific procedures discussed in text of Area Plan
- Detailed backup data from various sources
- Other CUPA-specific information relevant to the jurisdictional area

Text vs. Appendices – Some Guidelines

- Diagrams, maps, photos, and charts can be put in text to break up the writing. Recommend that they be less than one page long if they are going into the text; otherwise, they should be placed in a separate appendix.
- Procedural guidelines (e.g., Evacuation Plans, Decontamination Procedures, Training Levels) can either go into text or appendices, preferably in an appendix.
- CUPA's preference.

Typical Appendices

- Acronyms and Glossary
- Optional Model Reporting Form
- Responsibility Matrix
- List of CalARP Sites
- Contacts for Emergency Response Contractors and Disposal Facilities
- Incident Command System (ICS) data and details
- General Emergency Contacts

Typical Appendices

- FIRESCOPE
- Hazardous Materials Tool Kit (Cal OES)
- Notification Resources
- Training Guidelines
- Public Announcement Resources and Messaging
- Equipment Lists
- Pesticide Drift Resources

ISSUES & QUESTIONS

27th California Unified Program
Annual Training Conference
March 24-27, 2025



Hazardous Materials Area Plans

VS.

Hazard Mitigation Plans

Hazard Mitigation Plans

What they cover (in part)

- Drought
- Earthquake
- Flood
- Wildfires
- Landslides
- Weather (Extreme cold, heat, winds)
- Hazardous Materials Incidents
- Civil Disorder
- Pandemics
- Terrorism/Weapons of Mass Destruction

Hazard Mitigation Plans

ISSUES AND QUESTIONS

- *FEMA requires state, local, tribal and territorial governments to have approved and adopted hazard mitigation plans and resubmit them for FEMA approval every five years to remain eligible. <https://www.fema.gov/emergency-managers/risk-management/hazard-mitigation-planning/create-hazard-plan>*
- *FEMA grant funding is available after a presidentially declared disaster. <https://www.fema.gov/grants/mitigation/learn/hazard-mitigation#:~:text=FEMA's%20Hazard%20Mitigation%20Grant%20Program,for%20hazard%20mitigation%20project%20application>*
- *CalOES administers Hazard Mitigation Grant Program (HMGP) funds plans and projects that reduce the effects of future natural disasters. [https://www.grants.ca.gov/grants/hazard-mitigation-grant-program/#:~:text=Hazard%20Mitigation%20Grant%20Program%20\(HMGP,and%20some%20private%20non%20profits](https://www.grants.ca.gov/grants/hazard-mitigation-grant-program/#:~:text=Hazard%20Mitigation%20Grant%20Program%20(HMGP,and%20some%20private%20non%20profits).*

- Meth Drug Labs
- Weapons of Mass Destruction
- Terrorism
- Forest Fires
- Urban Fires
- Other Issues and Questions
 - Will be addressed in CalEPA Presentation

ASK YOURSELF THIS QUESTION

WILL WE AS THE CUPA, BE RESPONSIBLE IN TAKING THE LEAD ON THIS ISSUE?

METH DRUG LABS

Could be included in area plan because:

- Hazardous chemicals involved
- CUPA may coordinate response and cleanup

WEAPONS OF MASS DESTRUCTION

Generally speaking, this is more of a disaster-related issue and not a chemical issue, and should be included in a Hazard Mitigation Plan

TERRORISM

Again, this is more of a disaster-related issue and not a chemical issue, and should be included in a Hazard Mitigation Plan

FOREST FIRES

Generally speaking, this is more of a disaster-related issue and not a chemical issue, and should be included in a Hazard Mitigation Plan

URBAN FIRES

Generally speaking, this is more of a disaster-related issue and not a chemical issue, and should be included in a Hazard Mitigation Plan; however, many CUPAs are fire departments, and facilities affected by fire may experience chemical releases - HYBRID

SUMMARY



27th California Unified Program
Annual Training Conference
March 24-27, 2025

Introduction and Experience related to Area Plan Preparation



Overview of Area Plan Requirements

- Area Plans implemented under CCR Title 19, Division 5, Chapter 1, Article 2 “Minimum Standards for Area Plans”
- Area Plans prepared pursuant to Section 25503 of the California Health and Safety Code (H&SC) Chapter 6.95
- What needs to be included in the Area Plan

Looked at “Your” Area Plan

- Different formats for the Area Plan
- Cleaning up old Area Plans
- Ease of readability and ease of access to specific areas and data, as needed
- Text vs. Appendices

Looked at Issues and Questions

- What to include in an Area Plan (vs. Hazard Mitigation Plan)
- CalEPA presentation will discuss additional issues

Go Enjoy the rest of your day
(after the presentations)

