



# HAZARDOUS MATERIALS AREA PLANS GETTING UP TO SPEED

TAIT ENVIRONMENTAL SERVICES  
February 28, 2024



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# WHAT IS AN AREA PLAN?



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- **Hazardous Materials Area Plans are a road map of procedures that are to be implemented to 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**



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# WHY DO YOU NEED AN AREA PLAN?



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



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# PRESENTATION OUTLINE

- **Introduction and Experience**
- **Background of the Area Plan**
- **Evolution of the Area Plan**
- **Area Plan Requirements**
- **“Your” Area Plan**



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



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# 20 Hazardous Materials Railcars 10 Cars Derailed



*Photographs from nbcnews.com*



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

**2-Mile Evacuation Radius**



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# 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*



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**SOUND RESOURCE  
SOLUTIONS**  
**Chemical Plant Explosion and  
Fire**  
**(solvents, diesel, acid)**  
**Shepherd, Texas**  
**November 8, 2023**

Evacuation and Shelter-in-Place



*Photograph from nbcnews.com*



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# 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



*Photographs from Associated Press  
and KBAK TV*

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# Professional Bio and Experience



**PAUL McCARTER**

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(TAIT)**

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# TAIT

- **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 50

CUPA-2024

Booth: 50



**Erin Langford, Tait Environmental Services**

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.



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# PAUL McCARTER

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



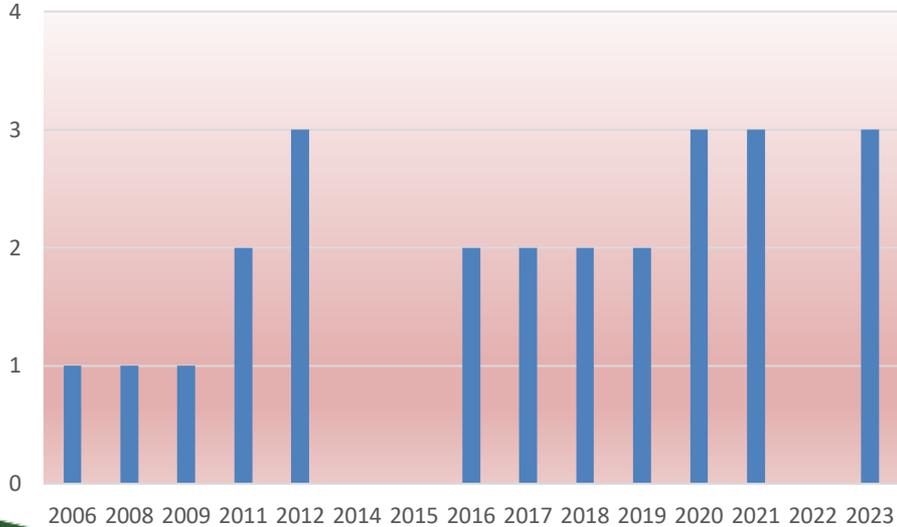
# RELEVANT EXPERIENCE

- **25 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**

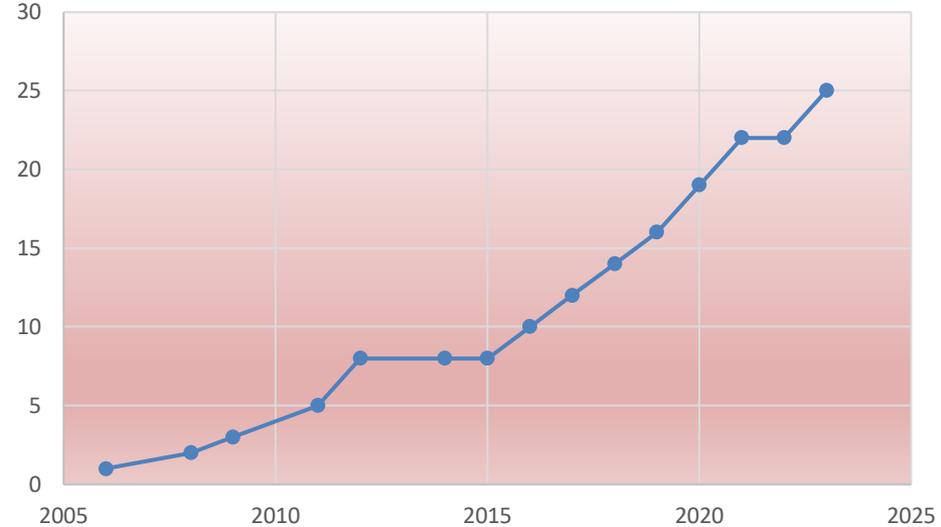


# RELEVANT EXPERIENCE

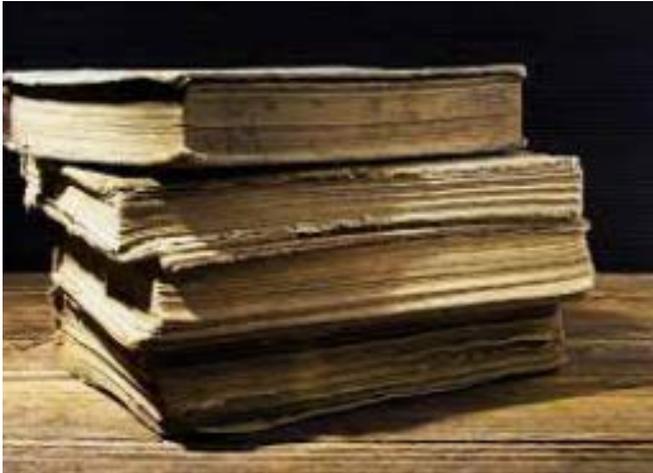
Number of Area Plans



Number of Area Plans



# RELEVANT EXPERIENCE AREA PLANS



Everything  
in between



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# AREA PLAN BACKGROUND



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# EPCRA

The [Emergency Planning and Community Right to Know Act](#) (EPCRA) of 1986 was created to help communities plan for chemical emergencies. It also requires industry to report on the storage, use, and releases of hazardous substances to federal, state, and local governments. EPCRA requires state and local governments, and Indian tribes to use this information to prepare their community from potential risks (EPA).



- Area Plan Program falls under the HMEP (Hazardous Materials Emergency Preparedness) Grant Program
- HMEP Grant process is administered by CalOES
- Regulatory oversight administered by CalEPA
- Local preparation and implementation of the Area Plan is by Unified Program Agencies (UPAs and CUPAs)
- Provide guidelines to respond to a release or threatened release of hazardous material(s)



- Area Plans implemented under CCR Title 19, Division 2, Chapter 4, Article 3 “Minimum Standards for Area Plans”
- Area Plans prepared pursuant to Section 25503 of the California Health and Safety Code (H&SC) Chapter 6.95
- Area Plans are to be reviewed and updated, as necessary, every 3 years



# ACTS/AGENCIES

- EPCRA
- SERCs and TERCs
- LEPCs and CUPAs (CA)
- HMEP Grants through USDOT PHMSA (US Pipeline and Hazardous Materials Safety Administration)



# **HMEP GRANT**

**(Hazardous Materials Emergency Preparedness Grant)**

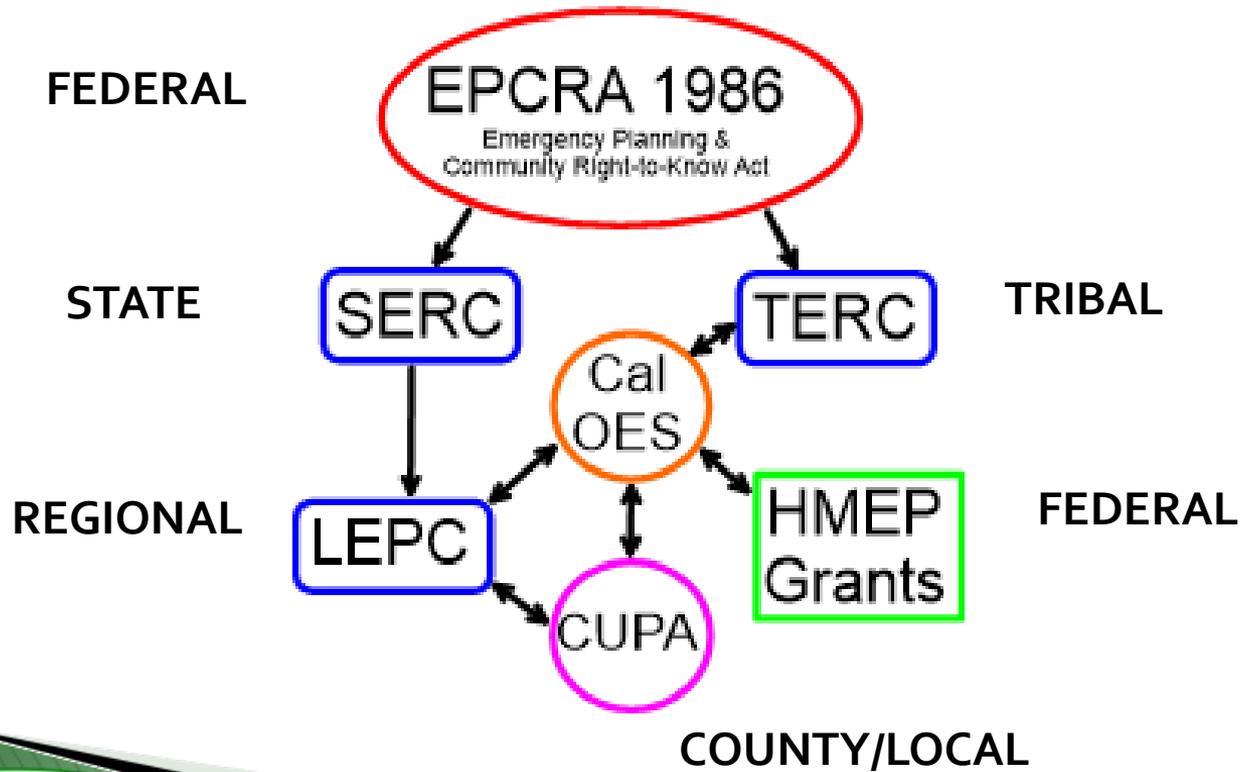
# **PHMSA**

**(Pipeline and Hazardous Materials Safety Administration)**



# **HMEP Grants are available to complete and update Area Plans**





# CURRENT HMEP GRANT PROGRAM IS STILL ADMINISTERED THROUGH CalOES

- Current deadline for 2024-2025 is not yet established
- 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/>



# AREA PLAN EVOLUTION



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- Area Plan Program Established in CA to respond to a Release or Threatened Release of Hazardous Material(s)
- HMEP Grant Administered by CalOES
- Regulatory Oversight by CalEPA
- Local preparation and implementation by Unified Program Agencies (UPAs and CUPAS)



## Changes to the Area Plan

- Pesticide Drift Exposure Protocols per SB-391 (September 2004) [falls under Article 1 of Title 19]
- Renumbering of Sections (May 2016)
- Refinery Alert and Warning System per AB-1646 (October 2017)





# SB-391 (2004)

Senate Bill No. 391

CHAPTER 913

An act to add Sections 12996.5, 12997.5, and 12997.7 to the Food and Agricultural Code, relating to pesticides.

[ Filed with Secretary of State September 30, 2004. Approved by Governor September 29, 2004. ]

## LEGISLATIVE COUNSEL'S DIGEST

SB 391, Florez. Pesticide drift exposure.

Under existing law, the Department of Pesticide Regulation is charged with enforcing pesticide laws and regulations, violation of which is subject to criminal and civil sanctions and penalties. Existing law establishes the



## SB-391 (2004)

SECTION 3, 12997.7. (a) The agency, in consultation with the department, the office, county agricultural commissioners, local health officers, CUPAs, and affected community members, shall by August 31, 2005, establish minimum standard protocols for the purposes of amending area plans.



# Section Renumbering (2016)



<b>Title 19.</b>	<b>Public Safety</b>
<b>Division 2.</b>	<b>California Emergency Management Agency</b>
<b>Chapter 4.</b>	<b>Hazardous Material Release Reporting, Inventory, And Response Plans</b>
<b>Article 1.</b>	<b>Definitions</b>
2620.	Control.
<del>2650</del> <u>2621.</u>	Person.
<del>2660</del> <u>2622.</u>	Pesticide Drift Exposure Incident.
<b>Article 2.</b>	<b>Reporting Requirements</b>
<del>2701</del> <u>2630.</u>	Applicability.
<del>2703</del> <u>2631.</u>	Immediate Reporting of a Release or a Threatened Release.
<del>2705</del> <u>2632.</u>	Written Reporting of Emergency Releases.
<b>Article 3.</b>	<b>Minimum Standards for Area Plans</b>
<del>2720</del> <u>2640.</u>	Proposed Area Plans.
<del>2722</del> <u>2642.</u>	Procedures and Protocols for Emergency Rescue Personnel.
<del>2723</del> <u>2643.</u>	Pre-Emergency Planning.
<del>2724</del> <u>2644.</u>	Notification and Coordination.
<del>2725</del> <u>2645.</u>	Training.
<del>2726</del> <u>2646.</u>	Public Safety and Information.
<del>2727</del> <u>2647.</u>	Supplies and Equipment.
<del>2728</del> <u>2648.</u>	Incident Critique and Follow-Up.





## *PLAN EVOLUTION*

# AB-1646 (2017)

Assembly Bill No. 1646

CHAPTER 588



Martinez Refinery Fire Dec. 17, 2023

An act to amend Section 25532 of, and to add Section 25536.6 to, the Health and Safety Code, relating to hazardous materials.

[ Approved by Governor October 08, 2017. Filed with Secretary of State October 08, 2017. ]

### LEGISLATIVE COUNSEL'S DIGEST

AB 1646, Muratsuchi. Hazardous materials: unified program agency: integrated alerting and notification system.

Existing law requires the Secretary for Environmental Protection to implement a unified hazardous waste and hazardous materials management regulatory program. Existing law requires every county to apply to the secretary to be certified to implement the unified program and allows a city or local agency to implement the



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## AB-1646 (2017)

This bill would require each local implementing agency, as defined, to develop an integrated alerting and notification system, in coordination with local emergency management agencies, UPAs, local first response agencies, petroleum refineries, and the public, to be used to notify the community surrounding a petroleum refinery in the event of an incident at the refinery warranting the use of the notification system.



## Changes to the Area Plan

- Assembly Bill 148 transferred regulatory oversight authority from CalOES to CalEPA on July 22, 2021



## Area Plan Overview

# *PLAN EVOLUTION*

The Area Plan is a requirement for local government agencies used in response to, and to minimize impacts from a release or threatened release of a hazardous material. CalEPA is the oversight agency for the Hazardous Materials Business Plan (HMBP) program, which includes the Area Plan. The Certified Unified Program Agencies (CUPAs) and/or Participating Agencies (PAs) are responsible for developing the Area Plan in coordination with local emergency response agencies to establish a plan for emergency response in the event of a release or threatened release of a hazardous material within their jurisdiction.

The Area Plan program requires CUPAs to create a plan that:

- Identifies hazardous materials that pose a threat to the community; (2640, 2643)
- Develops procedures for emergency response; (2642)
- Provides for notification and coordination of emergency response personnel; (2644)
- Provides for public safety, including notification and evacuation; (2646)
- Establishes training for emergency response personnel; (2645)
- Identifies emergency response supplies and equipment; and (2647)
- Provides for feedback and follow-up after a major incident. (2648)

Source:

<https://calepa.ca.gov/area-plan/>

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At this time, CalEPA does not have any new plans or direction for Area Plans beyond what has been made available online

“Maintaining the Status Quo”



# AREA PLAN REQUIREMENTS



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## LEGAL AUTHORITY

- CCR Title 19, Division 2, Chapter 4, Article 3 “Minimum Standards for Area Plans”
- Section 25503 of the California Health and Safety Code (H&SC) Chapter 6.95



Title 19 (Article 3)

- § 2640 Proposed Area Plans
- § 2642 Procedures and Protocols for Emergency Rescue Personnel
- § 2643 Pre-Emergency Planning
- § 2644 Notification and Coordination
- § 2645 Training
- § 2646 Public Safety and Information
- § 2647 Supplies and Equipment
- § 2648 Incident Critique and Follow-Up
- § 2622 Pesticide Drift Exposure Incident (Article 1)



## § 2640 Proposed Area Plans

- Introduction
  - ❖ Purpose of the Plan
  - ❖ Jurisdiction
  - ❖ Authorities
- Provisions to implement § 2642 - § 2648
- Protocols for responses to pesticide drift exposure incidents (§ 2622)
- Optional Model Reporting Form



# Optional Model Reporting Form

<https://calepa.ca.gov/area-plan/area-plan-resources/>

## OPTIONAL MODEL REPORTING FORM - AREA PLAN

CHECKLIST for AREA PLAN ELEMENT <i>California Code of Regulations (CCR), Title 19, Div 2, Chapter 4</i>	ELEMENT LOCATION	ELEMENT NOT PROVIDED, JUSTIFICATION	PROPOSED DATE FOR COMPLETION
<b>ARTICLE 3 (Reference Section)</b>			
<b>Section 2640 – Proposed Area Plan</b>			
Description of Requirements			
Provisions for HMBP integration			
Pesticide Drift Incident Response Protocols			
Element Information Form			
<b>Section 2642 – Emergency Response Procedures</b>			
Approach, Recognition, and Evacuation			
Personnel Monitoring and Decontamination			
Equipment Monitoring and Decontamination			
<b>Section 2643 – Pre-Emergency Planning</b>			
Pre-incident Site Surveys			
Planning and Coordination			
Emergency Funding Access			
Disposal Facility Access			
Emergency Response Contractor Access			
Integrated Response Management System			
<b>Section 2644 – Notification and Coordination</b>			
Notification and Coordination			
Emergency Communications			
Responsibility Matrix			
Cal OES Notification			
<b>Section 2645 – Training</b>			
Emergency Response Personnel Training			
Training Documentation			
Training Exercises			
<b>Section 2646 – Public Safety and Information</b>			
Site Perimeter Security			
Safety Procedure Information			
Information Release Responsibility			
Medical Notification			
Evacuation Plans			
<b>Section 2647– Supplies and Equipment</b>			
Listing and Description			
Testing and Maintenance			
<b>Section 2648 – Incident Critique and Follow-up</b>			



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# It's supposed to be an "l" not a "c"

19 CCR § 2642

Section 2642 – Emergency Response Procedures
Approach, Recognition, and Evacuation
Personnel Monitoring and Decontamination
Equipment Monitoring and Decontamination
Section 2643 – Pre-Emergency Planning
Pre-incident Site Surveys

§ 2642. Procedures and Protocols for Emergency Rescue Personnel.

Currentness

Area plans shall include procedures and protocols to ensure the health and safety of emergency response personnel, such as, but not limited to:

- (a) guidelines for approach, recognition, and evaluation of releases and threatened releases of hazardous materials by emergency response personnel; and
- (b) monitoring and decontamination guidelines for emergency response personnel and equipment.



*AREA PLAN REQUIREMENTS*

Training Exercises
<b>Section 2646 – Public Safety and Information</b>
Site Perimeter Security
Safety Procedure Information
Information Release Responsibility
Medical Notification
<b>Evacuation Plans</b>
<b>Section 2647– Supplies and Equipment</b>

**§ 2646. Public Safety and Information.**

(g) provisions for evacuation plans. Evacuation planning shall provide for the following elements:

- (1) determination of the necessity for evacuation;
- (2) centralized coordination of information with local law, fire, public health, medical, and other emergency response agencies;
- (3) timely notification of the affected public, including release of messages prepared pursuant to subsections (e) and (f) of this section;
- (4) properties of hazardous materials, such as quantity, concentration, vapor pressure, density, and potential health effects;
- (5) possible release scenarios;
- (6) facility characteristics, topography, meteorology, and demography of potentially affected areas;
- (7) ingress and egress routes and alternatives;
- (8) location of medical resources trained and equipped for hazardous material response;
- (9) mass-care facilities, reception areas, and sheltering; and
- (10) procedures for post-emergency period population recovery.

# CalEPA Area Plan Checklist

<https://calepa.ca.gov/area-plan/area-plan-resources/>

## 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
<a href="#">19 CCR Section 2640(a)</a>	A description of the extent to which the administering agency has met the requirements of Title 19, Article 3.	
<a href="#">19 CCR Section 2640(b)</a>	Provisions for integrating, in the final area plan, information from business plans submitted by handlers within the jurisdiction of an administering agency.	
<a href="#">19 CCR Section 2640(c);</a> <a href="#">19 CCR Section 2643(f);</a> <a href="#">19 CCR Section 2644(d);</a> <a href="#">19 CCR Section 2645(a)(1)</a>	Protocols for responses to pesticide drift exposure incidents.	
<a href="#">19 CCR Section 2640(d)</a>	A form providing information on the elements within the area plan, substantially equivalent to the following optional model reporting form for area plans.	
<a href="#">HSC Section 25503(c)(1)</a>	<b>Procedures and Protocols for Emergency Response Personnel</b>	
<a href="#">19 CCR Section 2642(a)</a>	Guidelines for approach, recognition, and evaluation of releases and threatened releases of hazardous materials by emergency response personnel.	
<a href="#">19 CCR Section 2642(b)</a>	Monitoring and decontamination guidelines for emergency response personnel and equipment.	
<a href="#">HSC Section 25503(c)(2);</a> <a href="#">19 CCR Section 2643</a>	<b>Pre-emergency Planning</b>	



## § 2642 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

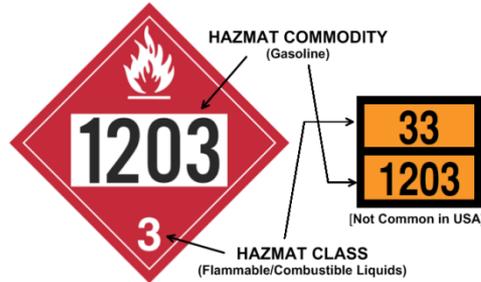


# § 2642 Procedures and Protocols for Emergency Rescue Personnel

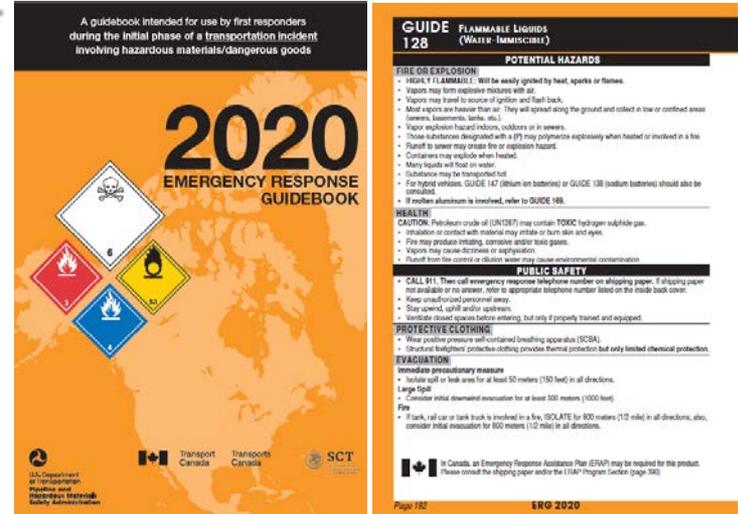


*Approach*

**GASOLINE**



*Recognition*



*Evaluation*

- **Potential Hazards**
- **Public Safety**
- **Emergency Response**

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# § 2642 Procedures and Protocols for Emergency Rescue

## Personnel

## ANHYDROUS AMMONIA



### Recognition



A guidebook intended for use by first responders during the initial phase of a transportation incident involving hazardous materials/dangerous goods

# 2020 EMERGENCY RESPONSE GUIDEBOOK

**GUIDE 125 GASES - TOXIC AND/OR CORROSIVE**

**POTENTIAL HAZARDS**

**HEALTH:**

- TOXIC; may be fatal if inhaled, ingested or absorbed through skin.
- Vapors are extremely irritating and corrosive.
- Contact with gas or liquefied gas may cause burns, severe injury and/or death.
- Fire will produce irritating, corrosive and/or toxic gases.
- Runoff from the control or dilution water may cause environmental contamination.

**FIRE OR EXPLOSION:**

- Some may burn but will ignite readily.
- Vapors from liquefied gas are initially heavier than air and spread along ground.
- Some of these materials may react violently with water.
- Containers exposed to fire may and release toxic and/or corrosive gas through pressure relief devices.
- Containers may explode when heated.
- Boiling liquid may erupt.
- For UN1005: Anhydrous ammonia, at high concentrations in confined spaces, presents a flammability risk if a source of ignition is available.

**PUBLIC SAFETY:**

- 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 up-slope.
- Many gases are heavier than air and will spread along the ground and collect in low or confined areas (basements, basements, tanks, etc.).
- Ventilate closed spaces before entering, but only if properly trained and equipped.

**PROTECTIVE CLOTHING:**

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Wear chemical protective clothing that is specifically recommended by the manufacturer when there is NO RISK OF FIRE.
- Chemical fire-fighting protective clothing provides thermal protection but only limited chemical protection.

**EVACUATION:**

**Immediate precautionary measure:**

- Isolate spill or leak area for at least 100 meters (330 feet) in all directions.

**Spill:**

- For **liquefied gases**, see Table 1 - Initial Isolation and Protective Action Distances.
- For non-liquefied materials, increase the immediate precautionary measure distance, in the downwind direction, as necessary.

**Fire:**

- If tank, rail car or tank truck is involved in a fire, ISOLATE for 1600 meters (1 mile) in all directions; also, consider initial evacuation for 1600 meters (1 mile) in all directions.

U.S. Department of Transportation  
Pipeline and Hazardous Materials Safety Administration

Transport Canada  
Transports Canada

SCT  
SCT

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TABLE 1 - INITIAL ISOLATION AND PROTECTIVE ACTION DISTANCES

ID No.	Guide	NAME OF MATERIAL	SMALL SPILLS (From a small package to small tank car or large package)			LARGE SPILLS (From a large package to train car or rail car)		
			ISOLATE in all directions 10 min. (30 ft.)	PROTECT Downwind only DAY (10 min.) NIGHT (15 min.)	ISOLATE in all directions 10 min. (30 ft.)	PROTECT Downwind only DAY (10 min.) NIGHT (15 min.)		
153	Solms (when used as a weapon)	30 m (100 ft.)	0.4 km (0.3 mi)	0.3 km (0.3 mi)	30 m (100 ft.)	0.3 km (0.3 mi)	0.3 km (0.3 mi)	
153	Solms (when used as a weapon)	30 m (100 ft.)	0.2 km (0.1 mi)	0.2 km (0.1 mi)	30 m (100 ft.)	0.3 km (0.3 mi)	0.3 km (0.3 mi)	
153	Trickard (D)	30 m (100 ft.)	0.4 km (0.3 mi)	0.3 km (0.3 mi)	30 m (100 ft.)	1.8 km (1.1 mi)	2.7 km (1.7 mi)	
153	VI (when used as a weapon)	30 m (100 ft.)	0.1 km (0.1 mi)	0.1 km (0.1 mi)	30 m (100 ft.)	0.4 km (0.2 mi)	0.5 km (0.2 mi)	
100	125	Ammonia, anhydrous	30 m (100 ft.)	0.1 km (0.1 mi)	0.2 km (0.1 mi)	Refer to table 2		
100	125	Anhydrous ammonia	30 m (100 ft.)	0.1 km (0.1 mi)	0.2 km (0.1 mi)	Refer to table 2		
100	125	Benzotrifluoride	30 m (100 ft.)	0.2 km (0.1 mi)	0.2 km (0.1 mi)	400 m (220 ft.)	2.1 km (1.4 mi)	3.1 km (1.9 mi)
100	119	Carbon monoxide	30 m (100 ft.)	0.1 km (0.1 mi)	0.2 km (0.1 mi)	200 m (100 ft.)	1.2 km (0.7 mi)	4.5 km (2.7 mi)
100	119	Carbon monoxide, compressed	30 m (100 ft.)	0.1 km (0.1 mi)	0.2 km (0.1 mi)	30 m (100 ft.)	1.2 km (0.7 mi)	4.5 km (2.7 mi)
101	124	Citric acid	30 m (100 ft.)	0.3 km (0.2 mi)	0.4 km (0.3 mi)	Refer to table 2		
100	119	Coagulant	30 m (100 ft.)	0.1 km (0.1 mi)	0.4 km (0.3 mi)	30 m (100 ft.)	0.2 km (0.2 mi)	1.1 km (0.7 mi)
100	119	Ethylene oxide	30 m (100 ft.)	0.1 km (0.1 mi)	0.2 km (0.2 mi)	Refer to table 2		
100	119	Ethylene oxide with nitrogen	30 m (100 ft.)	0.1 km (0.1 mi)	0.2 km (0.2 mi)	Refer to table 2		
100	124	Fluoric acid	30 m (100 ft.)	0.1 km (0.1 mi)	0.2 km (0.1 mi)	100 m (300 ft.)	0.5 km (0.3 mi)	2.3 km (1.4 mi)
100	124	Fluoric acid, compressed	30 m (100 ft.)	0.1 km (0.1 mi)	0.2 km (0.1 mi)	100 m (300 ft.)	0.5 km (0.3 mi)	2.3 km (1.4 mi)
100	128	Hydrogen bromide, anhydrous	30 m (100 ft.)	0.1 km (0.1 mi)	0.2 km (0.2 mi)	100 m (300 ft.)	1.0 km (0.6 mi)	3.4 km (2.1 mi)
100	128	Hydrogen bromide, anhydrous	30 m (100 ft.)	0.1 km (0.1 mi)	0.2 km (0.2 mi)	Refer to table 2		

Plume diagram from: Hazardous Materials Commodity Flow Study with Special Focus on Sea Level Rise and Flood Risk, Contra Costa County. Source: <https://cchealth.org/hazmat/hmc/sea-level-rise/pdf/Commodity-Flow-Study-with-Special-Focus-on-Sea-Level-Rise.pdf>

### Evaluation

- Isolation
- Protective Action Distances

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# § 2642 Procedures and Protocols for Emergency Rescue Personnel



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

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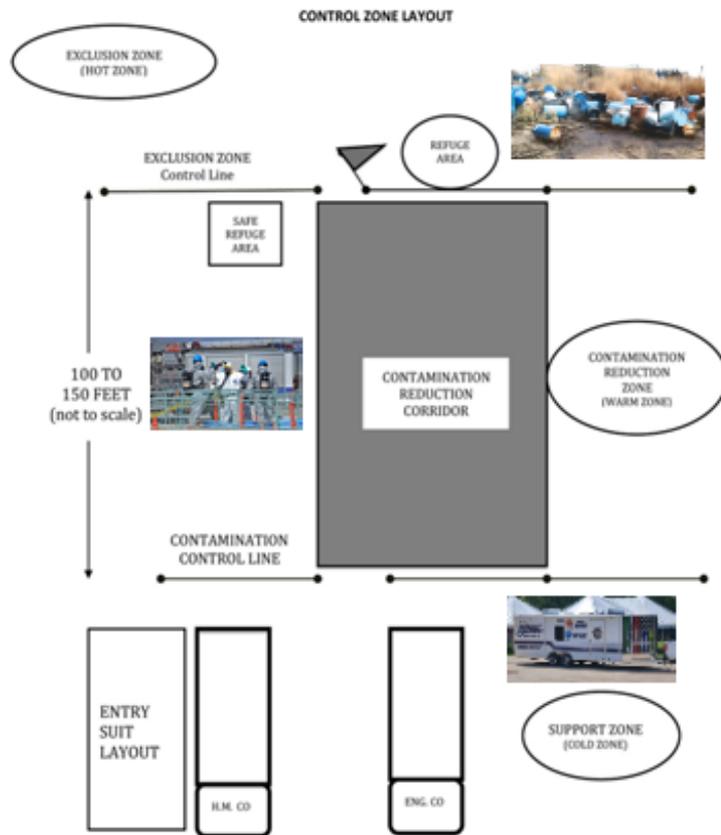
# § 2642 Procedures and Protocols for Emergency Rescue

## 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>



## § 2643 Pre-Emergency Planning

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



# § 2643 Pre-Emergency Planning

## ***Pre-Incident Site Surveys***

- Hazardous Materials Business Plans
- CalARP sites

CERS Central

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



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## § 2643 Pre-Emergency Planning

# *What is a CalARP Site?*

- California Accidental Release Prevention Program
- Any business that has more than a threshold quantity of a regulated substance in a process is covered. Regulated substances are those chemicals either on the Federal list (Title 40 of the Code of Federal Regulations, §68.130) or the State list (Title 22 of the California Code of Regulations, §2770.5). [DTSC website <https://dtsc.ca.gov/california-accidental-release-prevention-program-calarp-fact-sheet/>]

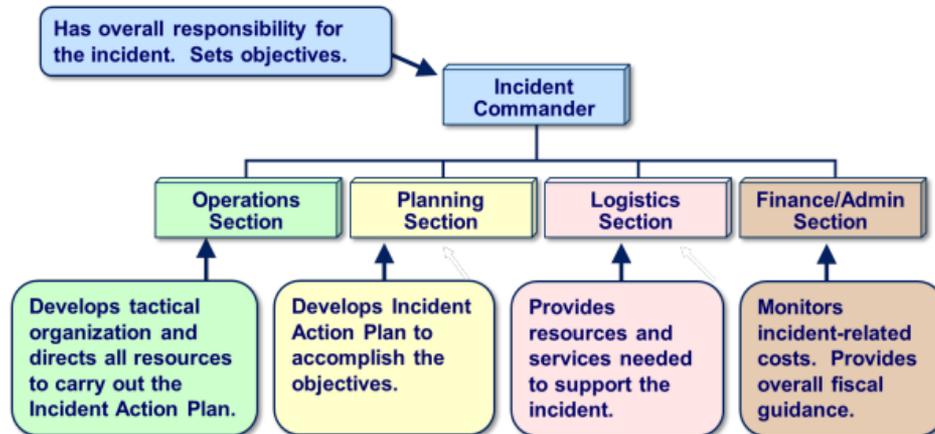


# § 2643 Pre-Emergency Planning

## *Planning and Coordination*



### ICS – Who Does What?



## *Incident Command System*

Source: FEMA, ICS 300, March 2018:

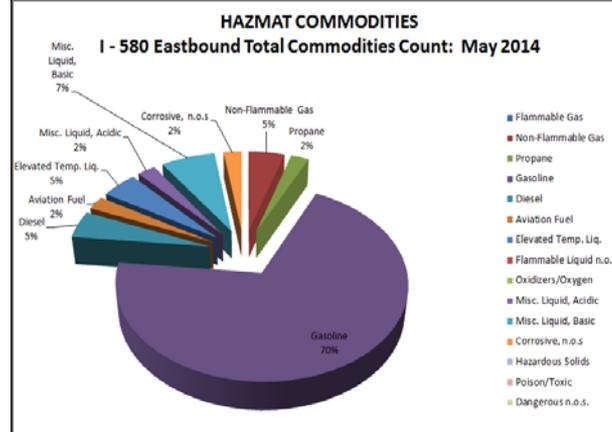
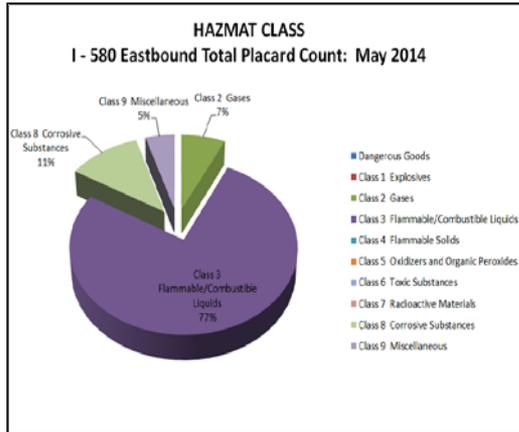
<https://training.fema.gov/emiweb/is/icsresource/assets/ics%20organizational%20structure%20and%20elements.pdf>

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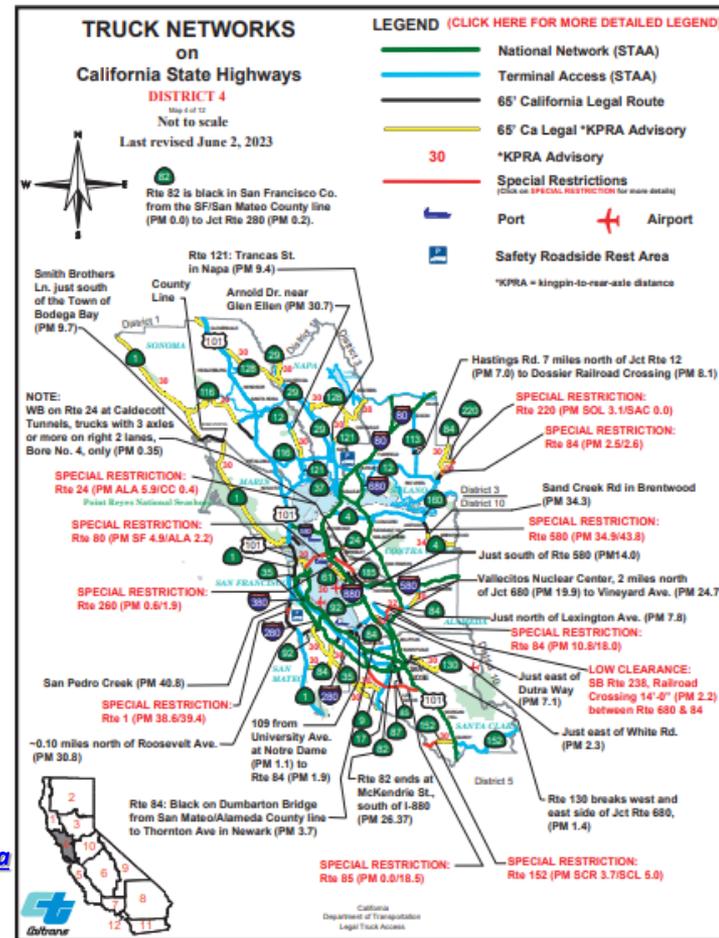
# § 2643 Pre-Emergency Planning

## Data from Hazardous Materials Commodity Flow Studies



### Truck Network Routes

Source: Caltrans <https://dot.ca.gov/programs/traffic-operations/legal-truck-access/truck-network-map>



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## § 2644 Notification and Coordination

- Notification and Coordination with emergency response personnel and emergency response agencies
- Emergency Communications including alternative communications
- Responsibility Matrix
- CalOES Notification
- Refinery Alerting and Notification System per AB-1646 (where applicable)
- Health care access within 24 hours of a pesticide drift exposure



# § 2644 Notification and Coordination



*First Responders*



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# § 2644 Notification and Coordination



*Field Command Center*



*Emergency Operations Center*



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# § 2644 Notification and Coordination

## Responsibility Matrix

Source: Santa Cruz County Hazardous Materials Area Plan, available online at [https://sccch.com/Portals/6/Env\\_Health/hazardous\\_materials/AreaPlan\\_2017.pdf](https://sccch.com/Portals/6/Env_Health/hazardous_materials/AreaPlan_2017.pdf)

**Responsibility Matrix**

	Isolate and Deny Entry	Est. Zones	Est. Command	Entry & Unknown ID	Rescue	Decon	Tx(Post Decon)	Sampling	Monitoring	Leak Mitigation	Site Security	Evacuate/Shelter In-place	Traffic Control	Direct & Oversee Cleanup	Responsible Party/Investigate	Cleanup	Coast Recovery	Fire/Flammable	Illegal Activity/Drug 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



# § 2644 Notification and Coordination



***STATE WARNING CENTER: 1-800-852-7550***



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# § 2644 Notification and Coordination

 CBS Los Angeles   
@CBSLA



UPDATE: Fire at Chevron refinery just south of LAX burns furiously. Neighbors urged to shut doors & windows.  
WATCH: [cbsloc.al/2IA13cB](https://www.cbsloc.com/2IA13cB)



12:03 AM · Oct 18, 2017



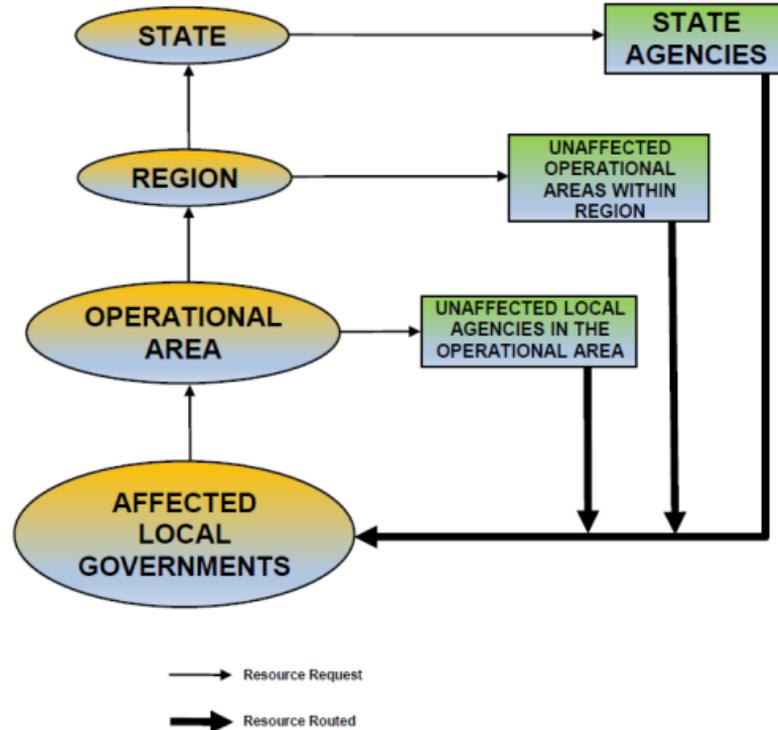
## ***Oil Refinery Alerting and Notification System (AB-1646)***



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# § 2644 Notification and Coordination

## *Mutual Aid*



## § 2645 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



# § 2645 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**



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# § 2645 Training

## *Field Exercises*



***Railcars***



***Highway Incidents***

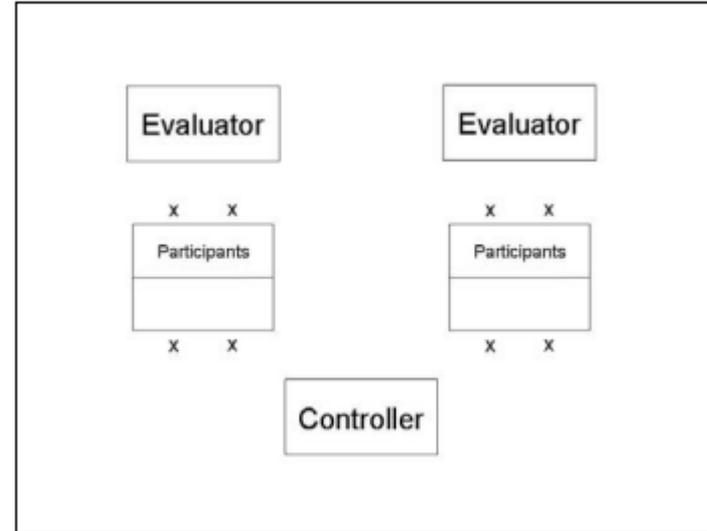


# § 2645 Training

## ***Field Exercises***



## ***Classroom/Tabletop Training***



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

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# § 2645 Training

***Documentation***



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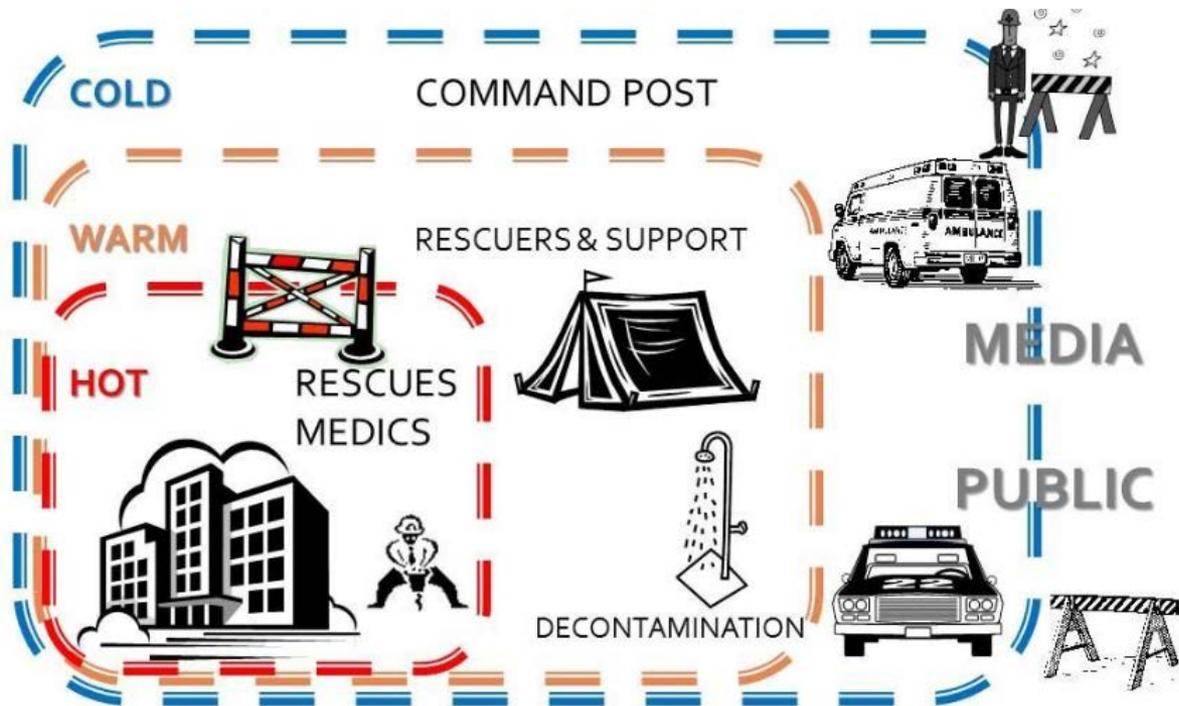
## § 2646 Public Safety and Information

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



# § 2646 Public Safety and Information

## *Perimeter Security*



# § 2646 Public Safety and Information

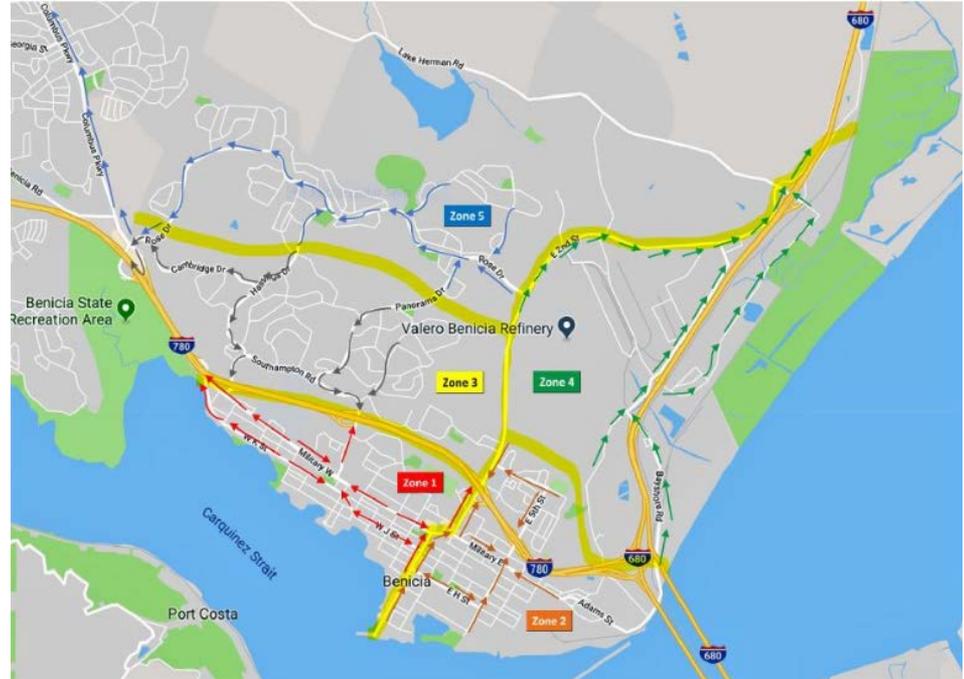


***Public Notification***



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# § 2646 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>



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## § 2647 Supplies and Equipment

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



# § 2647 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	<b>REPLACEMENT GLOVES, Vapor Protective:</b> Compliant to NFPA Standard 1991. 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. (Rev.2008)	1 replacement set for each suit on hand	NFPA 1991	R	R	Opt
6.1.2	<b>REPLACEMENT GLOVES, Liquid Splash Protective:</b> Compliant to NFPA Standard 1992. Replacement glove inventory must include ample supply of the "outer" generic replacement gloves (Some 1992 suit ensembles are not supplied with gloves from the manufacturer). 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 1992. 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. (Rev.2008)	1 replacement set for each suit on hand; Gloves for 6.1.1 will satisfy.	NFPA 1992 Or Manufacturer Model # Must be UL or SEI Listed	R	R	R
6.1.3	<b>UNDER-GLOVE:</b> 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



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# § 2647 Supplies and Equipment

## *Equipment Testing and Maintenance*



## § 2648 Incident Critique and Follow-Up

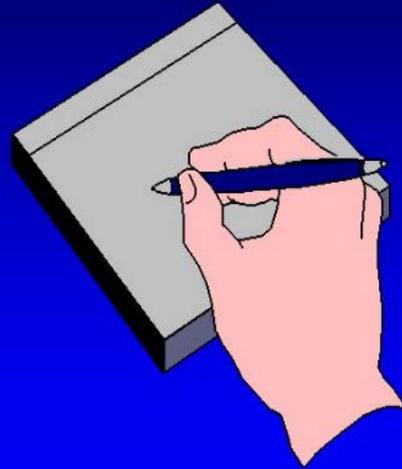
- Post-incident interagency meeting to evaluate response to a hazardous materials incident and improve future response to hazardous materials incidents
- Determination if any Area Plan revisions are needed



# § 2648 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



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# § 2648 Incident Critique and Follow-Up

## *Positive Feedback is Critical*



## *Negative Feedback is Counterproductive*



## § 2622 Pesticide Drift Exposure Incident

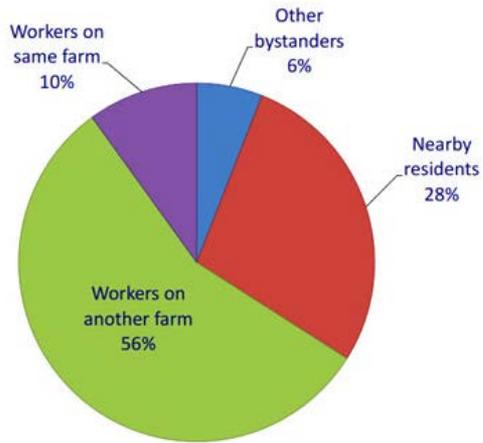
- Access to pesticide-specific information for responders to pesticide releases
- Pesticide drift response protocols
- Public safety and information
- Protocols for service access in various languages
- Reimbursement of medical costs for pesticide drift incidents



# § 2622 Pesticide Drift Exposure Incident



## Who is Impacted by Agriculture Drift?



[http://www.dpr.org/html/pdf/ucel\\_key=18\(N21/2011.1.33.24 AM\)](http://www.dpr.org/html/pdf/ucel_key=18(N21/2011.1.33.24 AM))

**A Community Guide to  
Recognizing & Reporting  
Pesticide Problems**



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# § 2622 Pesticide Drift Exposure Incident

California Department of Pesticide Regulation

## REIMBURSING MEDICAL COSTS OF PERSONS INJURED IN PESTICIDE INCIDENTS

Updated April 2019

*This law requires violators to pay certain medical costs.*

If a pesticide use violation causes illness or injury, violators are legally responsible to pay certain medical costs of victims.

A law passed in 2004 placed the financial burden to pay for acute medical costs on businesses responsible for the harm. It also increased penalties the Department of Pesticide Regulation (DPR) and county agricultural commissioners (CACs) can impose for pesticide violations.

The law was prompted by several incidents in which large numbers of persons living near agricultural fields were made ill by pesticide drift. Many lacked medical insurance, and did not have the means to pay for medical treatment themselves.

El Departamento de Reglamentación de Pesticidas de California

## REEMBOLSO DE GASTOS MÉDICOS A PERSONAS LESIONADAS EN INCIDENTES DE PESTICIDAS

Actualizado abril 2019

*Las leyes obligan a los infractores a pagar ciertos gastos médicos*

Si una infracción por el uso de pesticidas causa enfermedad o lesión, los infractores son legalmente responsables de cubrir ciertos gastos médicos de las víctimas.

La ley aprobada en 2004 (Proyecto de Ley 391, Florez) colocó firmemente la carga financiera que se ha de pagar por gastos médicos repentinos y urgentes en aquellos negocios que son responsables del daño. También aumentó las sanciones que el Departamento de Reglamentación de Pesticidas (DPR por sus siglas en inglés) y los Comisionados Agrícolas de los Condados de California (CACs por sus siglas en inglés) pueden imponer por violar las leyes de pesticidas.

La ley fue una reacción a varios incidentes en los que grandes números de personas que viven cerca de campos agrícolas sufrieron enfermedades debido a deriva de pesticidas. Muchos de ellos no tenían seguro médico, ni contaban con los medios para cubrir por sí mismos un tratamiento médico.



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# BREAK TIME!



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# THIS IS “YOUR” AREA PLAN



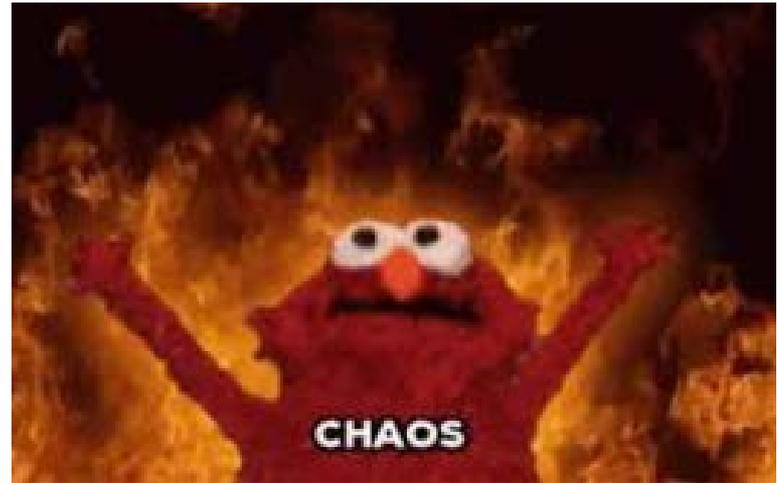
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## What does your current Area Plan look like?

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.



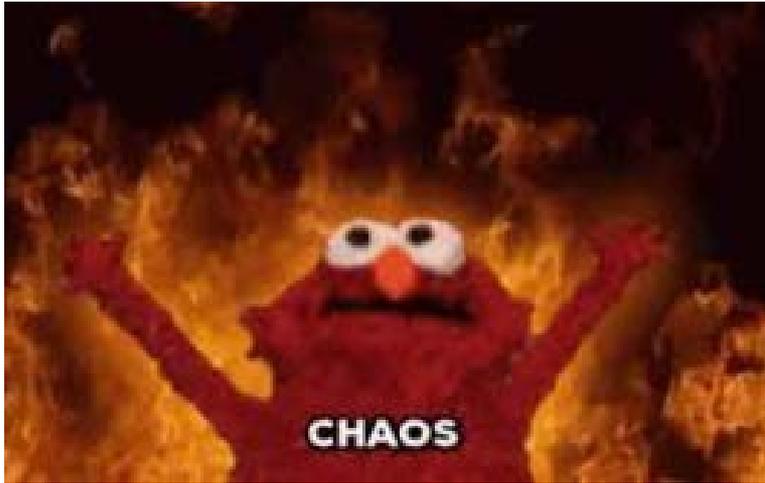
- Hard to find the information that you need when you need it.
- Too many incorrect/irrelevant remnants from previous Area Plans
- Too many add-ons
- Too many appendices
- Text that doesn't read well



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



*YOUR AREA PLAN*



OR SOMEWHERE IN  
BETWEEN



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



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

- Provided by CUPA
- Other regulatory data
- Public domain data



# CUPA Provided Data

*YOUR AREA PLAN*

A significant portion of the data will be provided by the CUPA, including:

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



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## 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



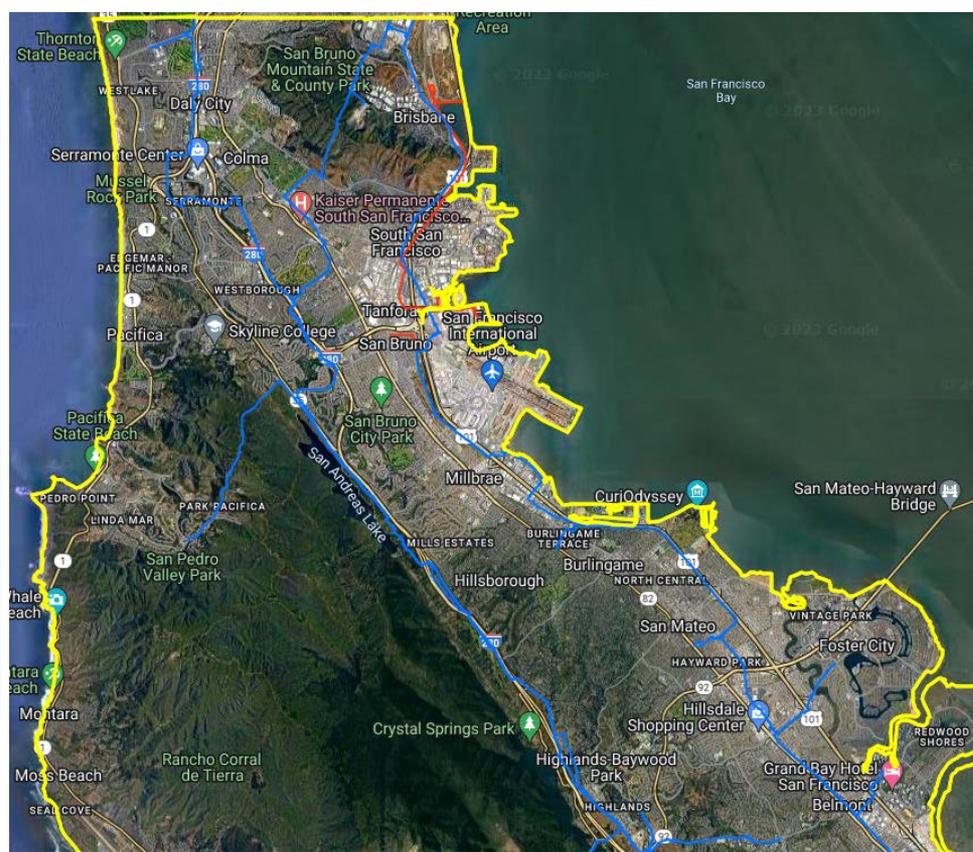
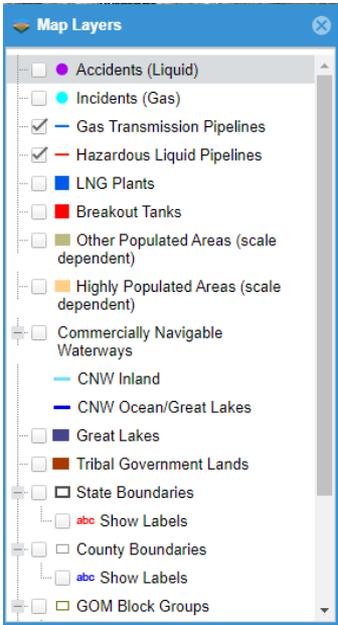
## Public Domain Data

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



# YOUR AREA PLAN



## NPMS Public Viewer Northern San Mateo County Pipelines

<https://pvnpm.phmsa.gov/PublicViewer/>

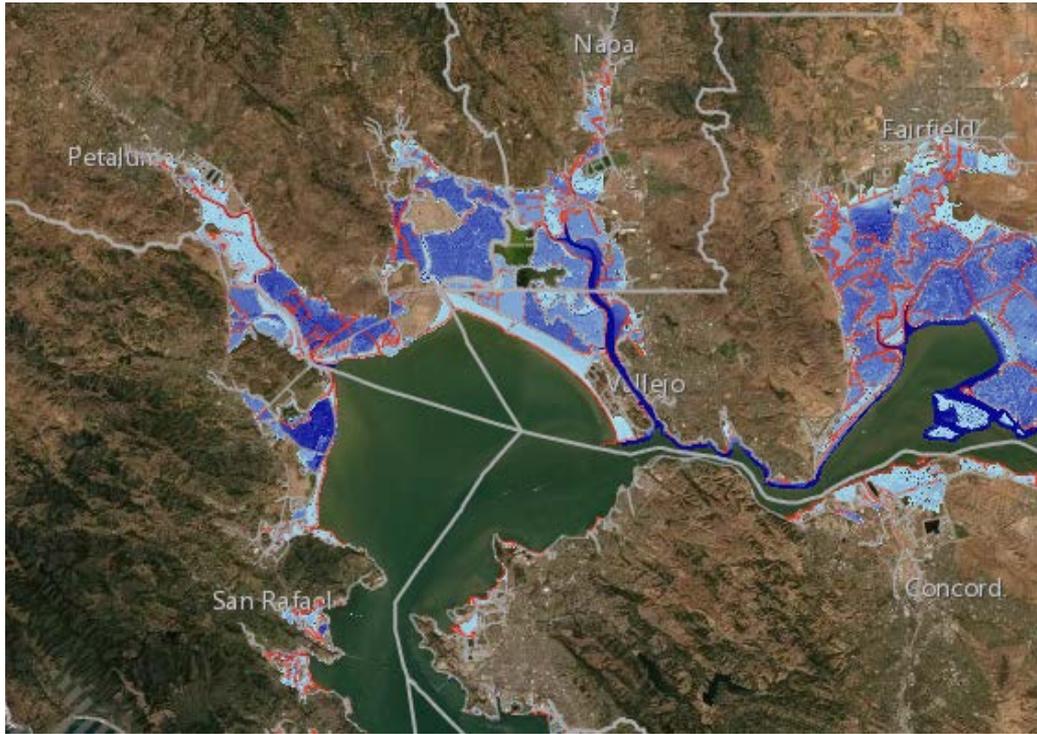


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*YOUR AREA PLAN*

Bay Area:  
Adapting to  
Rising Tides

<https://explorer.adaptingtorisingtides.org/home>

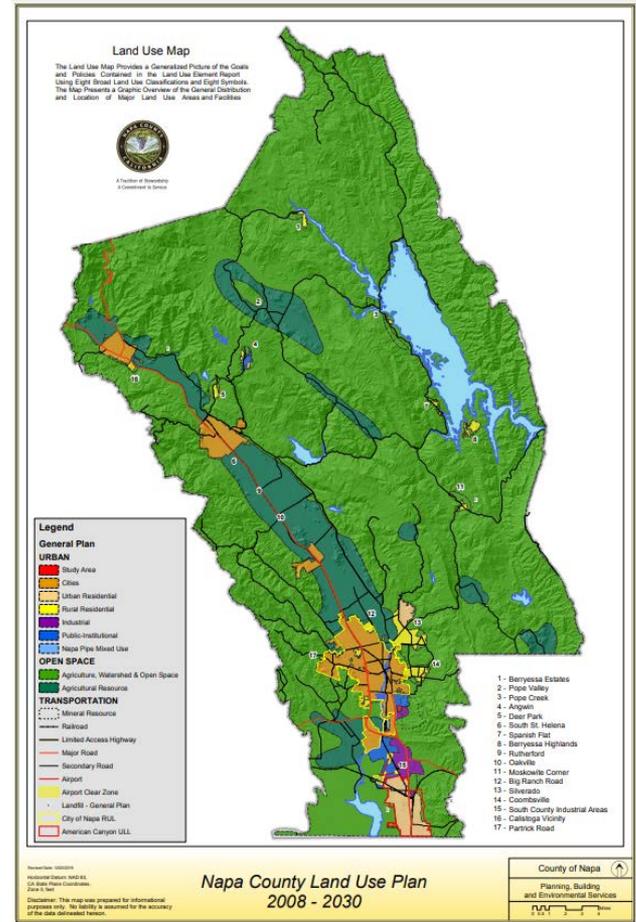


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# YOUR AREA PLAN

## Napa County Land Use Plan

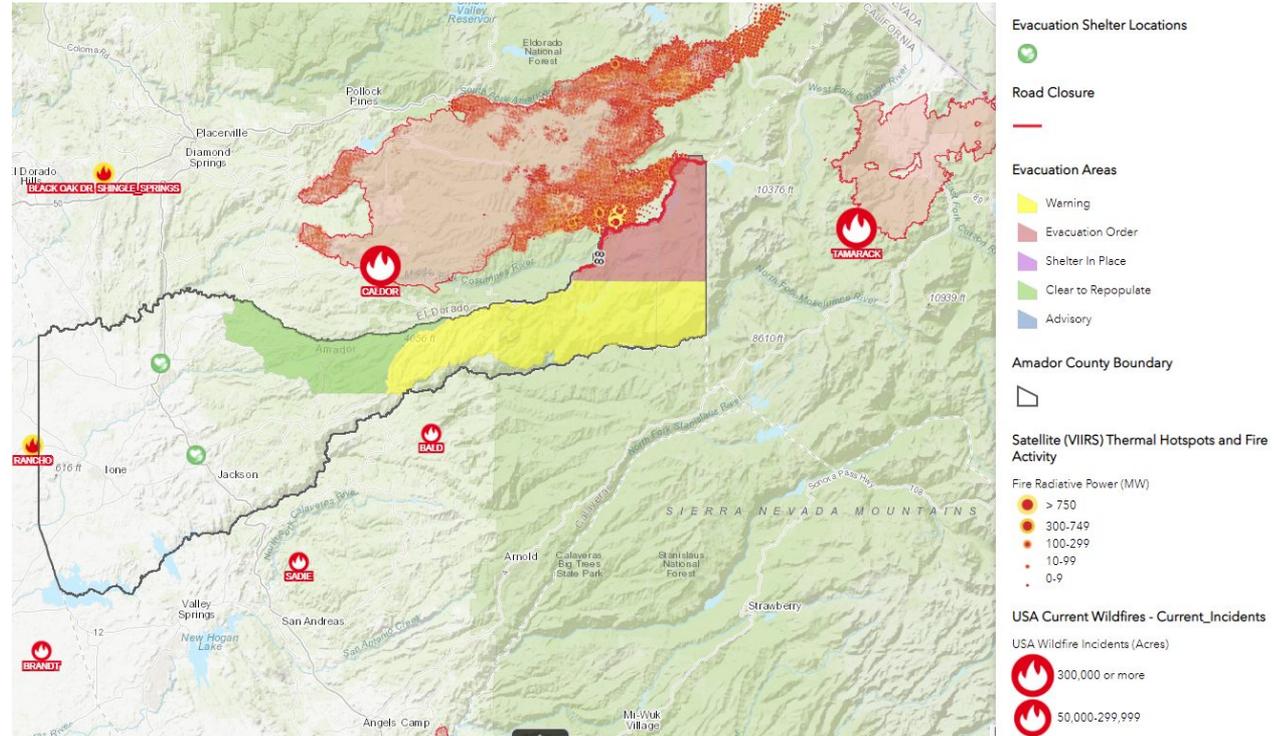
<https://www.countyofnapa.org/DocumentCenter/View/8492/-General-Plan-Map-for-County-of-Napa-PDF->



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## 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>



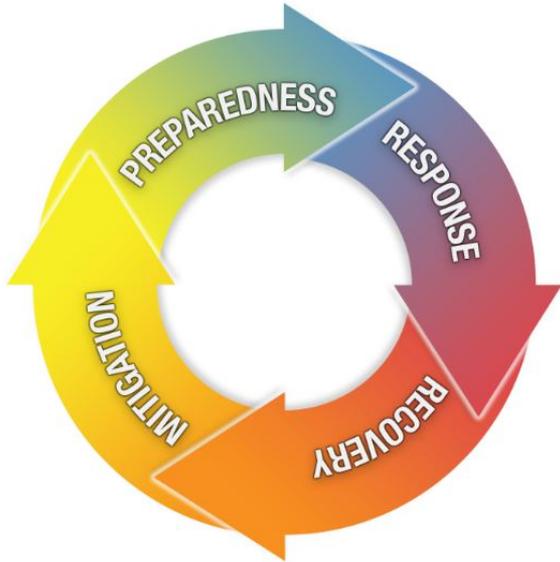
## Area Plan Format

### 3 General Formats

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



# Preparedness-Response-Recovery-Mitigation Format



Penn State University, 2014

## **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 2640: PROPOSED AREA PLAN

CCR SECTION 2642: PROCEDURES AND PROTOCOLS FOR EMERGENCY RESPONSE PERSONNEL

CCR SECTION 2643: PRE-EMERGENCY PLANNING

CCR SECTION 2644: NOTIFICATION AND COORDINATION

CCR SECTION 2645: TRAINING

CCR SECTION 2646: PUBLIC SAFETY AND INFORMATION

CCR SECTION 2647: SUPPLIES AND EQUIPMENT

CCR SECTION 2648: CRITIQUE AND FOLLOW UP

CCR SECTION 2622: PESTICIDE DRIFT EXPOSURE INCIDENT

## APPENDICES



**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 2, Chapter 4</i>	ELEMENT LOCATION	ELEMENT NOT PROVIDED, JUSTIFICATION	PROPOSED DATE FOR COMPLETION
<b>ARTICLE 3 (Reference Section)</b>			
<b>Section 2640 – Proposed Area Plan</b>			
Description of Requirements			
Provisions for HMBP integration			
Pesticide Drift Incident Response Protocols			
Element Information Form			
<b>Section 2642 – Emergency Response Procedures</b>			
Approach, Recognition, and Evacuation			
Personnel Monitoring and Decontamination			
Equipment Monitoring and Decontamination			
<b>Section 2643 – Pre-Emergency Planning</b>			
Pre-incident Site Surveys			
Planning and Coordination			
Emergency Funding Access			
Disposal Facility Access			
Emergency Response Contractor Access			
Integrated Response Management System			
<b>Section 2644 – Notification and Coordination</b>			
Notification and Coordination			
Emergency Communications			
Responsibility Matrix			
Cal OES Notification			
<b>Section 2645 – Training</b>			
Emergency Response Personnel Training			
Training Documentation			
Training Exercises			
<b>Section 2646 – Public Safety and Information</b>			
Site Perimeter Security			
Safety Procedure Information			
Information Release Responsibility			
Medical Notification			
Evacuation Plans			
<b>Section 2647 – Supplies and Equipment</b>			
Listing and Description			
Testing and Maintenance			
<b>Section 2648 – Incident Critique and Follow-up</b>			



## 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 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 2, Chapter 4, Article 3 "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
- Appendices 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.
- CUPA's preference.



## Typical Appendices

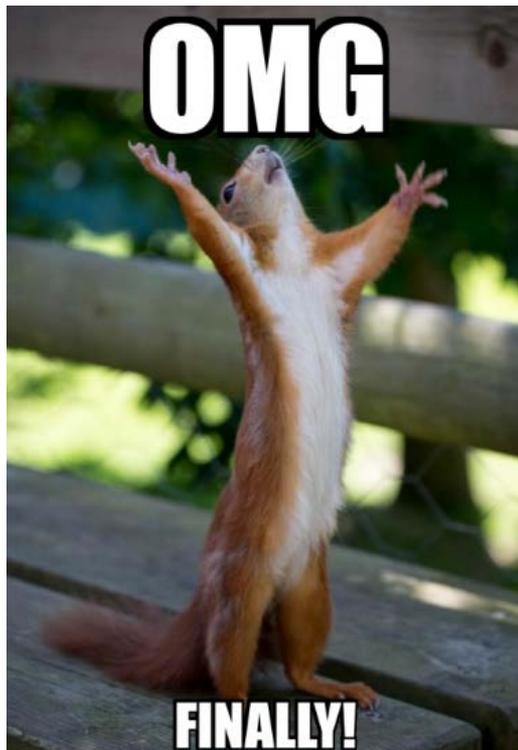
- Acronyms and Glossary
- Optional Model Reporting Form
- List of CalARP Sites
- Contacts for Emergency Response Contractors and Disposal Facilities
- Incident Command System (ICS) data and details
- General Emergency Contacts



## Typical Appendices

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





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# SUMMARY



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## Summarized the Background of the Area Plan

- EPCRA (Emergency Planning and Community Right to Know Act – 1986)
- Creation of SERCs, TERCS, LEPCs, UPAs, and CUPAs
- HMEP (Hazardous Materials Emergency Preparedness) Grant
  - ❖ Still being administered by CalOES.



## Reviewed the Evolution of the Area Plan through time

- Inclusion of pesticide drift protocols under SB-391 (2004)
- Renumbering of sections under Title 19 (2016)
- Refinery Alert and Notification System under AB-1646 (2017)
- Transfer of regulatory oversight to CalEPA under AB-148 (2021)



## Overview of Area Plan Requirements

- Area Plans implemented under CCR Title 19, Division 2, Chapter 4, Article 3 “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 Plan
- Cleaning up old Plans
- Ease of readability and access to specific areas and data, as needed
- Text vs. Appendices



## This is “Your” Area Plan

- Determine your format
- Include what you want as long as you cover the requirements in Title 19 and Section 25503
- Get rid of what doesn't work for you and any outdated information
- Complete the Area Plan so that it makes most sense to the CUPA emergency response personnel



Go Enjoy the rest of your day





# Any Questions?

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